Environmental Review for Activity/Project that is Categorically Excluded Subject to Section 58.5

Pursuant to 24 CFR 58.35(a)

Project Information

Project Name: Plaza Juan F. Arroyo Improvements (PR-CRP-000312)

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

Grant Recipient: Municipality of Canóvanas

State/Local Identifier: Puerto Rico

Preparer: Elvelisse Figueroa Hernandez

Certifying Officer Name and Title:

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Consultant: Green Projects Environmental Consultants, LLC

Direct Comments to: Angel López Guzmán at environmentcdbg@vivienda.pr.gov

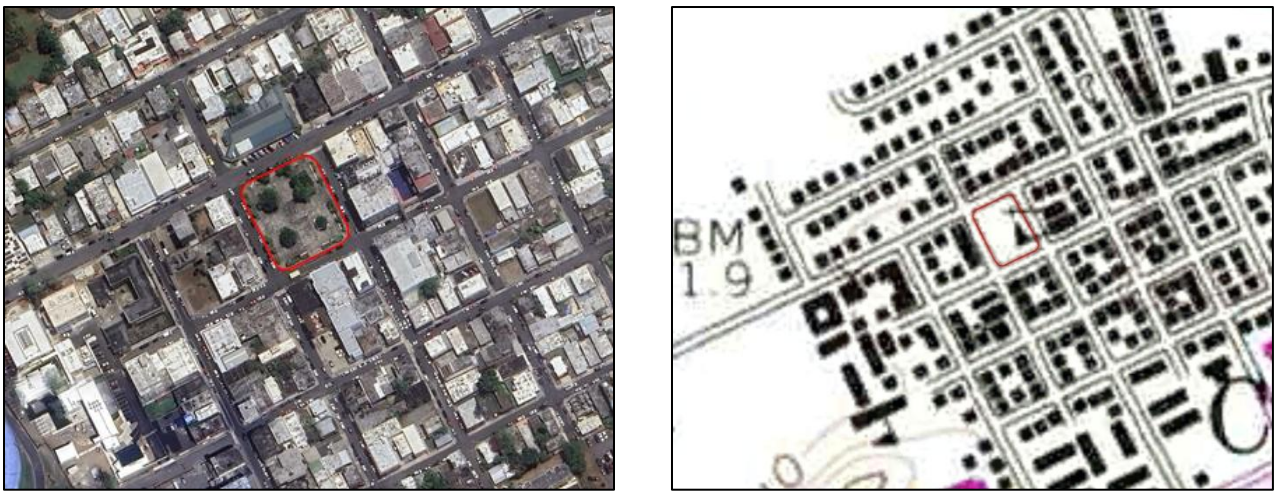
Project Location:

The Juan F. Arroyo Plaza Project is located at the intersection of Calderón Mújica Street and Muñoz Rivera Street in the Pueblo Ward of the Municipality of Canóvanas. It is bordered by key streets that define its perimeter: PR-9959 to the North, Muñoz Rivera Street to the South, Luis Hernaiz Street to the East, and Calderón Mújica Street to the West.

Address: Calderon Mújica St., and Muñoz Rivera corner, Canóvanas PR 00729

Parcel ID: 089-086-015-01-000

Coordinates: Lat: 18.37913, Long: -65.90094



Property Location

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The existing Plaza to be improved measures 166 feet in width and 191 feet in length, encompassing an area of approximately 0.64 acres. This plaza was formalized since the founding of the municipality of Canóvanas. The property of the Plaza and all improvement rights belong to the municipality of Canóvanas, which has administered it since its founding and proclamation as a municipality.

The project is designed to fully adhere to ADA standards, ensuring universal access to and enjoyment of the plaza. Primarily, it involves enhancing the surface area with increased permeability and urban reforestation, alongside the installation of pavilions to provide shade. Accessibility is prioritized with the inclusion of stairs and ramps on all sides, facilitating easy access without altering existing levels significantly. Minimal excavation for foundations is planned to maintain the current landscape. Detailed technical specifications and plans adhere to the PR Building Code 2018. The project meets all regulatory requirements for Construction Permit

approval (dated August 12, 2024) as it focuses on surface improvements and reforestation without altering the plaza's footprint or current usage.

Ground Disturbance

- Reforestation: The project proposes the removal of existing trees and all existing perimeter shrubs. Existing concrete pavement will only be removed within the proposed circular planting areas and tree locations. Any existing construction below the pavement shall be removed until natural soil is found. New soil will be imported for backfilling of any tree excavation depth and creation of grass berms within the circular planting areas. The anticipated maximum depth of excavations shall not exceed 5ft.

- Flooring: Where the existing concrete pavement is intended to remain, the surface shall be prepared for the overlaid installation of proposed concrete pavers. Surface preparation will include partial leveling, and repair of any structural cracks found during the construction process.

- Shade pavilion: The installation of the shade pavilion inherently brings excavation of three-foot-deep trenches for the construction of a continuous footing that structurally supports the structure. No additional disturbance will be required.

- Lighting fixtures: All electrical fixtures will require minimal ground disturbance for the distribution of required branch circuits.

- Light columns: No additional excavation is required beyond circuit branch distribution as the fixture will be installed over the proposed concrete perimeter wall.

- Bollard lighting: No additional excavation is required beyond circuit branch distribution as the fixture will be installed over the proposed concrete paver flooring and existing concrete slab.

- In-grade lighting: No additional excavation is required beyond circuit branch distribution as the fixture will be installed over the proposed concrete paver flooring and existing concrete slab.

- Urban furniture: No disturbance is required for the installation of all benches and trash bins beyond the anchoring of each element to the existing concrete slab.

Demolition works:

- Remove and dispose of existing light posts.
- Remove and dispose of brass plaques.
- Remove and dispose of the existing sidewalk slab.
- Remove existing concrete pavement
- Remove and dispose of existing brass joints.

- Remove and dispose of existing concrete stairs and ramps.
- Move & relocate hose bib.
- Remove and dispose of existing planter and related items.

New Plaza Components:

- Lighting system
- Benches
- Trash recipients
- Reconstruction of sidewalks around the plaza
- Cast in place planters.
- The installation of trellises (open roof areas)
- The implementation of landscape to improve green areas.
- Perimeter Wall – 1ft below grade

The improvements contemplated for the square are intended to meet the needs of use for the area, adding urban reforestation for greater enjoyment of users during most of the day. The project does not change or alter the footprint of the existing plaza.

The design strategies *outlined adhere to the development progress reflected in the 90% completion stage of the construction documents.* The Juan F. Arroyo Plaza is in a floodprone area, which justifies its elevated condition. Currently, the plaza contains less than 18% as green space, and of this, all are raised planters. Our proposal begins by recognizing the ecological value that the Plaza can provide to its surroundings. We wonder how the Plaza can contribute to the urban area. We start by envisioning the existing Plaza as a grey carpet on which we puncture with soft geometries, introducing permeable areas. The green areas containing the existing trees are articulated as mounds, reducing the impact that elevated tree roots may have. Along the perimeter and in the center of the plaza, green areas remain flat. Among the green areas, a linear system parallel to City Hall organizes the rest of the infrastructure necessary to make the plaza functional.

In Figures 1 and 2, we see that the existing plaza, like many others, consists of an element located in the center of it, interrupting the visual axis. We propose a flat green area where we do not interrupt the visual axis and allow for a sitting area in the center of the space. The proposed green area also allows us to redirect the view towards the church from City Hall and vice versa.

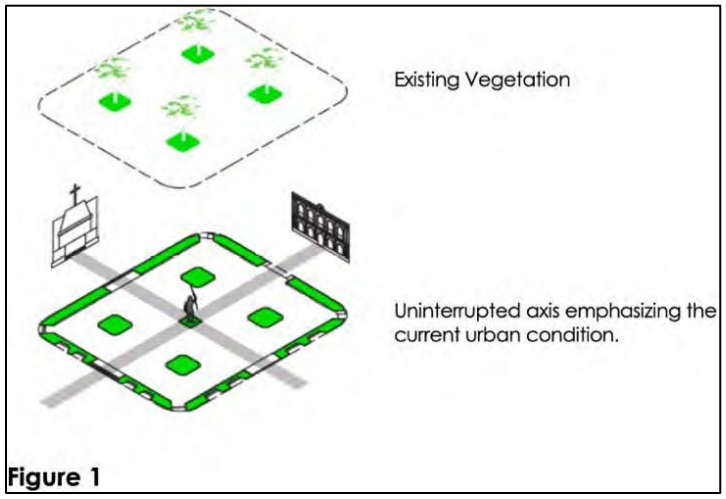
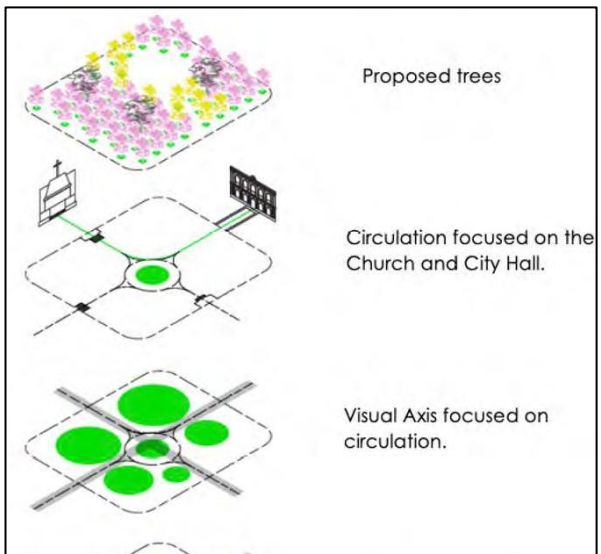


Figure 1



Access and Circulation:

Being this a raised plaza, the proposal aims to maintain the existing main accesses of the plaza on the axes City Hall / Old Public Transportation Structure and Church / Shops. At these points where the visual axis is established, circulation is distributed between stairs and ramps, providing a similar experience to each person. We recognize that there is a large volume of pedestrians entering the plaza diagonally, due to nearby schools. At the corners, access to the plaza is proposed through a ramp with the lowest possible incline and stairs of a smaller scale than those mentioned earlier.

The main circulation is directed along the main axes, re-establishing the existing four quadrants. In these quadrants, circulation is smoother, among the existing and proposed trees. Along the City Hall / Old Public Transportation Structure axis, a pedestrian crossing is proposed, reinforcing the axis itself and connecting the City Hall with the future Mercado del Pilar located in the Old Public Transportation Structure.

Trees:

As part of the vegetation strategy, the trees in the northeast, northwest, and southwest quadrants are preserved. The plaza's perimeter walls are of concrete, respecting the height of the existing plaza's elevation. In the plaza's interior, there are no planter walls. Instead, grass berms are designed to transition between the existing plaza level and the tree root level. A network of equidistant trees is established to provide shade, reduce heat, and restore the green character that this plaza had originally. The flower colors will be yellow and purple, reflecting the colors of the flag of Canóvanas once they bloom. The distribution of trees will also mitigate and reduce runoff contribution to the city existing stormwater system by using green areas as capture systems. The project proposes the removal of 3 existing trees (one Black Fig tree from the southeastern quadrant, and two Maria trees from the existing north entry). 62 new trees will be planted following a uniform grid, providing shade, reducing heat, and restoring the green character initially held by the plaza. The planting of trees will also mitigate stormwater by using green areas to slow down and infiltrate water where possible. The flower colors will be yellow and purple, reflecting the flag colors of Canóvanas once they bloom. For detailed locations and specifications, please refer to the construction documents.

Pavement:

The project proposes a uniform leveling of the plaza and the installation of concrete pavers over the existing plaza pavement. Concrete pavers will be of an exposed aggregate finish meeting the friction requirement for public spaces as well as ADA and universal design standards. It measures 18"x46" and is produced by 713 Pre-cast LLC, available in light gray and gray. The light gray color will be used in the plaza space, while gray will be used on the surrounding sidewalks. The installation will be focused on correcting the level of the existing pavement, to be used as a base for new concrete paver installation.

The floor pattern is oriented parallel to City Hall. The intersection of the linear pavement pattern and green areas produces a stepped layout that approximates the curves of the planters. From

the same linear orientation, trees, furniture, lighting fixtures, pavilions, and galleries are organized.

Shade pavilions:

The proposed shade pavilions are strategically positioned among the trees to offer protection from rain while enhancing the aesthetic appeal of the plaza. Crafted from aluminum with a sleek white powder-coat finish, these pavilions not only provide shelter but also add a contemporary touch to the surroundings.

Gallery / Threshold:

The Gallery serves multiple functions. First, its location establishes a threshold to the plaza. Second, it will be a structure where art or any other needs can be exhibited. Third, it serves as a point of reference in the city, attracting citizens to the public space. Like the shade pavilion, it is made of aluminum with a white powder-coat finish. It is located outside the visual axes. For detailed location and specifications, please refer to the construction documents.

Urban Furniture:

The furniture responds to the pavement organizational strategy. A series of benches (18"X18" and 72"X18") are proposed surrounding the circular planters, referencing the initial garden paths of the historic orthophotographs. The benches are to be of an exposed aggregate concrete equal to the proposed concrete paver flooring. Beneath the bench, the paver finish changes to a darker tone, emphasizing that the bench is part of the pavement system, where it rises as a strip. The formal simplicity of the proposed furniture allows for the green spaces to be the focus of the space, as it was previously. The material selection ensures easy maintenance and durability that will allow the plaza to be always in acceptable condition.

Urban Lighting:

The project encompasses an innovative approach to illuminating urban spaces, fostering safety, ambiance, and community connectivity. Through strategic placement and cutting-edge technology, the proposed urban lighting solution aims to enhance both functionality and aesthetics, creating vibrant and inviting environments after dark. By blending modern design with energy-efficient practices, to not only illuminates pathways and public areas but also inspires a sense of pride and belonging within the community. The existing lighting will be removed, and no excavation will be required for the new lighting installation as they will be anchored to the perimeter wall. For detailed locations and specifications, please refer to the construction documents.

Existing lighting fixtures will be replaced with the specified light fixtures. No additional excavation will be needed as the sidewalk light columns will be installed on the plaza perimeter wall and the interior bollard and in-grade fixtures to be installed surrounding the new planters.

The proposed project for this area has been thoughtfully designed to support and enhance the traditional town center plaza typology. By carefully considering the urban scale, material

selection, and contextual harmony, the project aims to create a cohesive and respectful addition to the historic urban fabric. The design ensures that new elements are not intrusive toward historical elements and coexist seamlessly with the existing architectural character and historical context. The use of appropriate materials and attention to the scale of surrounding structures helps maintain the aesthetic integrity of the plaza. This approach not only preserves the historical significance of the town center but also revitalizes it, providing a functional and visually appealing space for community activities and interactions. The project reflects a deep understanding of the traditional town center's cultural and social importance, ensuring that any enhancements contribute positively to its timeless utility.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

This project aims to revitalize the public plaza in the Municipality of Canóvanas to enhance its functionality, accessibility, and aesthetic appeal for the community. The plaza serves as a central gathering space for residents and visitors; however, it currently lacks sufficient infrastructure, green areas, and amenities to meet the population's needs fully. This revitalization transforms the plaza into a safer, more inviting environment that fosters social interaction, cultural activities, and recreational opportunities. By improving accessibility, increasing green spaces, and adding shaded areas, the project will create a sustainable, inclusive public space that promotes the well-being of all residents, especially families, the elderly, and those with disabilities. The revitalized plaza will not only serve as a hub for community events. Still, it will also contribute to the overall aesthetic and environmental quality of Canóvanas, aligning with the municipality's long-term goals for urban renewal and community development.

Existing Conditions and Trends [24 CFR 58.40(a)]:

The current condition of the public plaza in Canóvanas is outdated and underutilized, with limited amenities and infrastructure that do not meet the needs of the community. The plaza, which serves as a central public space, lacks sufficient green areas, seating, and shaded zones, making it less conducive to outdoor social activities, recreation, and cultural events. The existing walkways are in disrepair, and the overall accessibility of the space is inadequate, especially for individuals with disabilities or elderly residents. Additionally, the lack of effective stormwater management and inadequate lighting pose safety concerns, particularly during evening hours.

Trends in the municipality indicate a growing desire for improved public spaces, as residents increasingly seek areas that promote social interaction, health, and well-being. There is a noticeable increase in community-driven initiatives and local interest in urban renewal efforts. Furthermore, Canóvanas is experiencing a push toward sustainable development, with a focus on environmental preservation and creating inclusive spaces that can be enjoyed by all demographics. The revitalization of the plaza aligns with these trends and addresses the community's growing demand for a modern, safe, and functional public space.

Funding Information

Grant Number	HUD Program	Funding Amount
B-17-DM-72-0001; B-18-DP-72-0001; B-19-DP-78-0002; B-18-DE-72-0001	Community Development Block Grant – Disaster Recovery (CDBG-DR)	$11,938,162,230

Estimated Total HUD Funded Amount: $2,728,241.38

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: $2,728,241.38

Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance Determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	Luis Muñoz Marín International Airport (SJU) is the nearest civil-military joint airport to the project. The distance between the project site and the boundary of the Accident Potential Zone (APZ) buffer is 20,000 feet, while the distance to the buffer of the Runway Protection Zone/Clear Zone is 32,600 feet. Therefore, the Project is in compliance with Airport hazard Requirements (24 CFR part 51 Subpart D). **Refer to Exhibit 1. Airport RPZ/APZ Protection Zone Image**
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	The proposed project is not located within a Coastal Barrier Resources Unit. The CBRS Unit closest to the Project is PR-87, Punta Vacia Talega, situated to the Northwest of the Property at an approximate distance of 1.94 miles (10,243.2 feet). Therefore, the Project is in compliance with the Coastal Barrier Resources Act. **Refer to Exhibit 2. Coastal Barrier Resources System Image / 2a. Punta Vacia Talega Unit PR-87 Map**

Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes ☐ No ☒	According to the FEMA Flood Insurance Rate Map (FIRM), the project site is located outside a Special Flood Hazard Area (SFHA) [FEMA FIRM Viewer: https://msc.fema.gov/portal/home]. The site falls within Zone 0.2% Annual Chance Flood Hazard (65.6%) and Zone X (Minimal Flood Hazard Area) (34.4%), as designated on FEMA FIRM Panel Number 72000C0395J, effective November 18, 2009. Based on this classification, flood insurance is not required for the site. Therefore, the Project is in compliance with the Flood Disaster Protection Act. **Refer to Exhibit 3. National Flood Hazard Layer FIRMette (72000C0395J)**
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes ☐ No ☒	As of December 31, 2023, the EPA's Green Book classified several municipalities in Puerto Rico as non-attainment areas or in maintenance for certain criteria pollutants, including lead, sulfur dioxide, and particulate matter. An area is considered an attainment area (designated "attainment/unclassifiable") if the air quality meets or exceeds the national air quality standards. The following municipalities, which are either in non-attainment or maintenance areas, are: Arecibo, Bayamon, Cataño, Guaynabo, Salinas, San Juan, and Toa Baja. EPA's Green Book was also reviewed to identify nonattainment areas. The Municipality of Canovanas, PR. It is not currently listed as an area of non-compliance in EPA NEPA Assist or another official regulatory webpage. Canovanas is not listed. https://www3.epa.gov/airquality/greenbook/ancl.html

		The closest nonattainment area is approximately 9.1 miles (48,048 feet) West of the project site. The installation of generators or other equipment that affects or deteriorates air quality is not proposed. https://www.epa.gov/nepa/nepassist During construction, the primary expected emissions will consist of fugitive dust, emissions from portable electric generators used for power supply, and emissions from internal combustion engines in vehicles, trucks, and equipment. These emissions are temporary and are generally considered minor sources by the EPA and the Puerto Rico Department of Natural and Environmental Resources (DNER). However, several mitigation measures will be implemented to minimize these impacts: • All construction machinery and vehicles will undergo regular maintenance to ensure optimal performance and reduce exhaust emissions. Well-maintained equipment operates more efficiently and generates fewer pollutants. • The use of low-emission or electric construction equipment will be prioritized whenever possible to minimize air pollutants. This includes selecting generators that meet low-emission standards and using energy-efficient machinery to reduce overall emissions. • To further reduce vehicle emissions, efficient traffic management strategies will be implemented. These measures will minimize idling times, ensure that construction vehicles follow the most direct routes, and reduce congestion around the construction site. These mitigation strategies will help minimize the impact of emissions on air quality during

		the construction phase, ensuring that the temporary emissions remain within acceptable levels and comply with environmental regulations. Therefore, the Project is in compliance with the Clean Air Act. **Refer to Exhibit 4. Nonattainment Areas Map / 4a. List of Puerto Rico Nonattainment Areas**.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☐ No ☒	The coastal zone boundary is approximately 0.90 miles (4,700 feet) Northwest of the Project. The project's construction does not affect the coastal zone as defined in the state's Coastal Management Plan. Therefore, the Project is in compliance with the Coastal Zone Management Act. **Refer to Exhibit 5. Coastal Zone Management Map**
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☐ No ☒	The Plaza is in the center of the municipality of Canóvanas. The city hall borders the south side of the plaza, while the church is on the east side. The plaza is part of the Foundational Center of Canóvanas, founded in 1909 as part of the municipality of Loíza and declared a city in 1970. An evaluation of the data provided by NEPAssist identified 27 toxic sites within a 3,000-foot radius of the project boundary. According to information from the Enforcement Compliance History Online (ECHO) database, the status of these sites is as follows: 19 have no violations identified, 2 have terminated permits, one site has limited data available from ECHO, and five brownfield sites. The nearest toxic site to the project area is a facility identified by the EPA as Downtown's Old Dairy (Site 1-H), listed as number 24 in the EPA facility table and map (Exhibit 6). This site is classified as a brownfield. The U.S. Environmental Protection Agency (EPA) defines brownfields as abandoned, idle, or underutilized industrial and commercial

		properties where expansion or redevelopment is complicated by real or perceived environmental contamination. Brownfields can be found in urban, suburban, and rural areas. Once properly remediated, these properties can be redeveloped for suitable reuse. According to the EPA Facility Report, the property's progress status is "Ready for Anticipated Use", meaning that: 1. All cleanup goals specified in the Record(s) of Decision or other remedy decision documents have been achieved for media that may affect current and reasonably anticipated land use. The site remains unused and is not classified as a National Priorities List (NPL) facility or a Superfund site. Regarding contaminated groundwater migration, the site is located west of the subject property. This suggests that if contaminated groundwater exists, it will flow away from the subject property toward the coastline, as is typical in most coastal areas of Puerto Rico. Regarding the other facilities, including the one identified as number 25 in Exhibit 6, which has been used as residences for the past 45 years according to the EPA Facility Report and is classified as a brownfield, with its property progress status also marked as "Ready for Anticipated Use", they do not pose a risk to the project. This assessment suggests that the potential risks associated with these toxic sites have been adequately addressed, and the project can proceed without concern for environmental contamination from the nearest toxic site. Lead-based Paint (LBP) and Asbestos: The Project requires the demolition of the following components of the Plaza: • Remove and dispose of existing light post. • Remove and dispose of brass plaques.

		• Remove and dispose of existing sidewalk slab. • Remove of existing concrete pavement • Remove and dispose of existing brass joints. • Remove and dispose of existing concrete stairs and ramps. • Move & relocate hose bib. • Remove and dispose of existing planter and related items. On January 30, 2023, Inspector Yousev García Ramos certified the non-findings of these pollutants in the Project for this demolition. After reviewing the requirements for revitalizing the public plaza in Canóvanas, we confirm that the project complies with the exemptions established in CPD-23-103, specifically regarding the consideration of radon in the contamination analysis. Since this is an open space, the CPD-23-103 exemption applies, as the project does not involve buildings with enclosed areas in contact with the ground, thus meeting the following conditions: • Buildings without enclosed areas in contact with the ground are exempt from considering radon in the contamination analysis. Therefore, the project can proceed without a radon analysis, in compliance with the applicable regulations. Therefore, the Project is in compliance with the 24 CFR Part 50.3(i) & 58.5(i)(2). **Refer to Exhibit 6. EPA NEPAssits – EPA Facilities MAP, 6a. Asbestos and LBP Reports, Negative certifications for the presence of asbestos and LBP**

Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☐ No ☒	The project is located within the range of *Chilabothrus inornatus* (Puerto Rican Boa), an endangered species, but it will not affect critical habitats or refuge lands. Based on the nature of the project and the information provided by the IPaC system, it has been concluded that there will be no adverse effects on federally listed species, including the Puerto Rican Boa (*Chilabothrus inornatus*). According to the Blanket Clearance Letter (BCL) issued by the Caribbean Ecological Services Field Office on January 14, 2013, activities such as street resurfacing, construction or emergency repairs of existing buildings, facilities, and homes, improvements to existing recreational facilities, including the installation of the roof to existing basketball courts, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach and construction of electric underground systems in existing towns and communities, provided that the property is not a wetland area and lighting associated with the facilities is not visible directly or indirectly from the beach meets specific criteria and are considered unlikely to adversely affect listed species, as they involve minimal ground disturbance. Therefore, the Project is in compliance with the Endangered Species Act. **Refer to Exhibit 7. USFWL Blanket Clearance Letter for Federally Sponsored Projects, Housing and Urban Development / Exhibit 7a. USFWLS Self Certification Package**
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	The rehabilitation of the Plaza is classified as a renovation rather than a new construction. This project does not involve residential uses, nor will it convert any land to residential use or increase residential density. As a renovation, the proposed action focuses on enhancing existing structures and public spaces without introducing any new residential units or significant changes that would typically

		warrant concerns about hazardous materials. The improvements are expected to be primarily cosmetic and functional, aiming to revitalize the Plaza for community use. The scope of the rehabilitation will not include activities commonly associated with the use of explosives or hazardous substances, such as demolition of large structures or the excavation of contaminated soil. Consequently, the risks associated with explosives or hazardous materials are nonexistent in this context. The project will prioritize environmental safety through adherence to relevant regulations and guidelines. Because the rehabilitation does not involve heavy construction activities that might generate hazardous waste or require explosive materials, the project can proceed with minimal environmental and public safety risks. Given the parameters described above, the discussion surrounding explosives and hazardous materials does not apply to this project. Therefore, the Project is in compliance with the 24 CFR Part 51 Subpart C.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	According to the Web Soil Survey (WSS), the project area is in the Humacao Area of Eastern Part. A WSS soil interpretation report was conducted to classify farmland and assess map units under the Farmland Protection Policy Act (FPPA). The report indicates that 100 percent (0.7 acres) of the project footprint, identified as Map Unit: Urban Land, is classified as non-prime farmland. Additionally, the project area falls within a designated urban zone, as delineated by the US 2020 Census Map. Therefore, the Project is in compliance with the Farmland Protection Policy Act.

		See Exhibit 8. WSS Farmland Classification and 8a. US 2020 Census Urban Area
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☐ No ☒	According to Advisory Base Flood Elevation (ABFE), issued on April 13, 2018, the project is located in Zone X (0.2% ACF) 65.6% and fuera del mapa(34.4%). According to the Flood Insurance Rate Map (FIRM), effective November 18, 2009, the project is in Zone (0.2 PCT) 65.6% and Flood Zone X (31.4%) (FIRM Map number 72000C0395J). The "Plaza de Recreo Juan F. Arroyo" project (PR-CRP-000312), located in the Municipality of Canóvanas, Puerto Rico, was evaluated in accordance with the Eight-Step Decision-Making Process established under Executive Orders 11988 (Floodplain Management) and 11990 (Protection of Wetlands), pursuant to 24 CFR Part 55. The project area is located within a 500-year floodplain, with approximately 80 percent of the site situated within a low-risk flood zone (Shaded X – 0.2 percent), and consists of a previously developed and urbanized parcel. In compliance with public notice requirements, the Preliminary Notice (Early Notice and Public Review) and the Final Notice were published in accordance with 24 CFR §55.20, and no public or agency comments or objections were received during the established comment periods. No significant adverse impacts to the natural functions or intrinsic values of the floodplain are anticipated, as activities will be limited to the existing site boundaries and appropriate mitigation measures and stormwater management practices will be implemented. Following the evaluation of practicable alternatives, it was determined that there is no practicable alternative to locating the project outside the floodplain, as the site is already developed and the project does not involve displacement of residents or changes in land use. The Municipality of Canóvanas will

		maintain the required flood insurance and ensure compliance with all applicable laws, regulations, and codes throughout project implementation and for the life of the project. The project will not undergo activities within a floodplain. The Project is in compliance with the Floodplain Management Act. **Refer to Exhibit 9. Advisory Base Flood Elevation Map (JP) / Exhibit 9a. 8 Floodplain Management 8 Step Decision-Making Process/ Exhibit 3. National Flood Hazard Layer FIRMette (72000C395J)**
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☒ No ☐	For the Project, archaeologists Tamara Gonzalez (SOI-qualified archaeologist) and Cristina Montenegro (SOI-qualified architect/Architectural Historian) conducted historical archaeological and architectural evaluations of the property. The evaluations concluded the following: • In summary, the indirect effects of the project on the Eugenio María de Hostos School and the broader APE will support community cohesion, educational opportunities, and sustainable urban development. The upgrades will transform the plaza into a multifunctional space that complements the school's educational mission while enriching the lives of residents. *In a letter dated November 27,2024, the State Historic Preservation Office (SHPO) executive director Mr. Carlos A. Rubio indicates the following:* *"After a review of all the documentation, the SHPO agrees with your finding that the proposed project with the established condition, will have no adverse effect upon historic properties:*

		1. Archaeological monitoring during ground-disturbing activities. *Please note that should the Agency discover other historic properties at any point during project implementation, you should notify the SHPO immediately. If you have any questions concerning our comments, do not hesitate to contact our Office."* Therefore, the Project is in compliance with the National Historic Preservation Act. **Refer to Exhibit 10. SHPO-CF-10-23-24-08 CRP-000312 / Exhibit 10a. Section 106 NHPA Effect Determination Form / Exhibit 10b. Monitoring Plan and SHPO's Concurrence with the Monitoring Plan**
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☐ No ☒	The rehabilitation of the Plaza is classified as a renovation rather than a new construction, and it is important to note that the project will not include any residential use. Given that this is not a new construction project, the anticipated noise levels associated with typical construction activities such as heavy machinery operation and site preparation will be minimal. The scope of the rehabilitation is to involve primarily cosmetic improvements and maintenance activities that do not require extensive demolition or high-impact equipment. The rehabilitation effort is designed to enhance the Plaza's functionality and aesthetics while maintaining a noise profile conducive to the surrounding area. Noise abatement measures will be implemented to ensure compliance with local regulations and community standards throughout the rehabilitation process. The project complies with the Noise Control Act.
Sole Source Aquifers	Yes No	There are no Sole Sources of Aquifers in Puerto Rico.

Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	☐ ☒	https://www.epa.gov/dwssa (SSA Locations) https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b The project is not served by a US EPA-designated sole-source aquifer, is not located within a sole-source aquifer watershed, and would not affect a sole-source aquifer subject to the HUD EPA Memorandun of Understanding ("MOU"). Therefore, the Project is in compliance with the Safe Drinking Water Act. **Refer to Exhibit 11. Sole Source Aquifers Map**
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	The proposed project site involves the rehabilitation of an existing plaza. Notably, this site is not situated within designated wetlands, ensuring that the project will not directly or indirectly impact these sensitive ecological areas. https://www.fws.gov/wetlands/data/Mapper.html. Therefore, the Project is in compliance with the Executive Order 11990. **Refer to Exhibit 12. USFWS National Wetland Inventory Map (U.S. F&WLS)**
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	The proposed project site involves the rehabilitation of an existing plaza; however, it is not located within Wild and Scenic Rivers and will not directly or indirectly impact one. The wilds and scenic rivers in Puerto Rico are located in the El Yunque National Forest, approximately 9.01 miles (47,572.8 feet) West of the Project. These rivers are La Mina River, Icacos River, and Mameyes River, the closest to the Project being the Icacos River. https://www.arcgis.com/apps/mapviewer/index.html?layers=a37eb56966cc4b11b69909e288414e53

		The Project is in compliance with the Wild and Scenic Rivers Act. **See Exhibit 13. Wild and Scenic Rivers Map**
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes ☐ No ☒	On January 21, 2025, President Donald Trump issued the Executive Order 14173 titled "Ending Illegal Discrimination and Restoring Merit-Based Opportunity," which revoked Executive Order 12898 and eliminated federal mandates requiring agencies to assess environmental justice impacts. Consequently, there is no longer a federal requirement to address environmental justice concerns in the compliance review process. Therefore, the Project is in compliance with the Executive Order 12898.

Field Inspection (Date and completed by)**:**

Gamaliel Rivera Rivera

Date: February 18, 2025 / Exhibit 14

Summary of Findings and Conclusions:

The proposed rehabilitation of the existing plaza in the Municipality of Canóvanas is not expected to impact the natural environment significantly. This conclusion is based on the site's characteristics, surrounding conditions, project scope, and planned mitigation measures. The project area and its vicinity do not contain bodies of water, caves, wetlands, nature reserves, critical habitats, sinkholes, forests, or designated agricultural zones considered environmentally sensitive. Although the site has been previously impacted, it supports common vegetation and wildlife typical of similar urban settings. There are no unique species compositions, nor have any restricted or low-dispersal wildlife populations been identified that could be adversely affected. Additionally, no historical, cultural, or archaeological resources have been documented within the project site. Work will immediately cease if any such resources are discovered during construction, and the State Historic Preservation Office (SHPO) will be notified.

The rehabilitation project does not involve industrial or commercial activities that could generate hazardous emissions or toxic discharges into the air or nearby water bodies. Furthermore, it does not require continuous or frequent heavy machinery operation, reducing noise, vibrations, or hazardous waste production risks. The proposed action will not negatively affect or increase risks to the health, safety, or well-being of residents or pedestrians in the surrounding area. The anticipated environmental effects are well understood and manageable.

Compliance with the Operational Unique Permit (CES Plan) will ensure effective erosion control, sediment management, and disposal of solid waste and construction debris to mitigate potential impacts. Any reduction in vegetation will be compensated through reforestation and landscaping within the project site. Additionally, any temporary environmental impacts during construction will be minimized or eliminated through best conservation and construction site management practices.

Considering the site conditions, proposed mitigation measures, and regulatory compliance, the project's development, construction, and operation will not result in significant environmental impacts.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure
SHPO	Archaeological monitoring will be conducted during all ground-disturbing activities in accordance with the monitoring plan approved by the State Historic Preservation Office (SHPO). Trained professionals will oversee excavation and construction activities to identify any potential historic or archaeological resources that may be uncovered. If any historic properties or artifacts are discovered at any stage of construction, work will be immediately halted in the affected area, and SHPO will be notified without delay.
Single Incidental Operational Permit (PUI, for its acronym in Spanish)	The delimitation and adequate identification of work areas with the required sectoral controls. Information to construction labor personnel and contractors about the delimitation described above. Personnel selected for inspection and maintenance responsibilities will receive training from qualified personnel. They will be trained in inspection and maintenance practices to keep the erosion and sediment controls in good working order. Disturbed portions of the site where construction activities temporarily cease will be compacted or stabilized with temporary seed, synthetic material, and mulch within 14 days from the last construction activities in that area. However, exposed regions of rocks or any other non-erosional material may not require additional temporary stabilization. Personnel selected for inspection and maintenance responsibilities will receive training from qualified personnel. They will be trained in inspection and maintenance practices to keep the erosion and sediment controls in good working order.

	Disturbed portions of the site where construction activities temporarily cease will be compacted or stabilized with temporary seed, synthetic material, and mulch within 14 days from the last construction activities in that area. However, exposed regions of rocks or any other non-erosional material may not require additional temporary stabilization. The implemented structural controls for the project are: • Access Road Stabilization. The area where vehicle access to disturbed areas must be stabilized if this is not paved. • Sediment barriers. Silt fences and straw bales will be installed during the project's construction to prevent sediment from gaining access to surface water bodies. • Vehicle Wash Area. A tire cleaning area will be located at the site's exit so the vehicles leaving the site do not transport sediment outside the project area. • Sediment Trap. A sediment trap will be located at each area where concentrated flows occur, if any. • A tire wash area may be near the entrance to minimize sediment tracks outside the project. During construction activities, sanitary wastes will be collected from portable units installed at the site at a rate of once a week by a licensed Commonwealth sanitary waste management contractor, as required by local regulations. Areas where soil piles are temporarily or permanently stored will be provided with stormwater erosion control, such as silt fences, hay packs, diversion ditches, plastic coverage, etc. The controls used in these areas are determined in the field based on site conditions and will be discontinued once vegetation coverage protects the pile. The following housekeeping practices will be followed during the construction project: • An effort will be made to store only enough of the products required to do the job. • Materials stored onsite will be stored in an orderly manner in their appropriate containers and, if possible, under a roof or other enclosure. • Products will be kept in containers with the original manufacturer's label. • Substances will only be mixed if recommended by the manufacturer. • The project supervisor will make daily visual inspections to ensure proper use and disposal of materials onsite.

	• Stained soils with hydrocarbons should be removed and properly disposed of. Onsite vehicles will be monitored for leaks and receive regular preventive maintenance to minimize the possibility of leakages. Petroleum products will be stored in tightly sealed containers, clearly labeled if needed. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations. Fertilizers, if used, will be applied only in the amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to stormwater. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills. Concrete trucks will be allowed to wash out or discharge surplus concrete or drummed wash water in designated areas. The project supervisor will supervise fuel loading/unloading operations. Spill collection pans or similar systems will be used to collect any leakages during loading/unloading operations. Tank appurtenances such as valves and hoses will be inspected before each loading/unloading operation. If signs of leakages are observed, the appurtenances will be fixed before the loading/unloading operation is conducted. The following inspection and maintenance practices will be implemented to maintain erosion and sedimentation controls: • Maintenance of control measures in good working order. If repairs are necessary, they will be initiated within 24 hours of reporting. • Remove built-up sediment from silt fences when it reaches one-third of the fence's height.
Waste/ Construction Debris	Non-hazardous waste materials will be collected and stored in securely lidded metal dumpsters rented from a licensed solid waste management company in Puerto Rico. The dumpster lid must be kept closed. Trash generated at the site will be deposited in dumpsters. The dumpsters will be emptied at least once a week or more often if necessary, and the trash will be transported to an authorized landfill. Construction debris will be stored correctly in a site-designated area by the project engineer. No construction waste materials will be buried on-site. All personnel will be instructed regarding the correct procedures for waste disposal. Areas where construction debris is stored will be

	provided with stormwater erosion control, such as silt fences, hay packs, diversion ditches, etc. The field's control will be determined based on site conditions. Hazardous waste is not expected to be generated and managed at the project site. If hazardous wastes need to be managed, they will be disposed of in a manner consistent with the Commonwealth of Puerto Rico and federal regulations. Site personnel will be instructed in these practices, and the Site Manager will be responsible for seeing that these practices are followed. The following practices will be used to reduce the risks associated with hazardous materials in case they need to be used on-site: • Products will be kept in original containers unless they are not sealable. • Original labels and material safety data sheets will be retained on-site; they contain essential safety information. • If surplus products must be disposed of, manufacturers' or local and federal recommended methods for proper disposal will be followed. These materials will be stored in a covered area with a containment system.
Clean Air Single Incidental Operational Permit (PUI)	**Dust Control:** The ground disturbance will be minimal and associated with excavations for foundations. Before the beginning of construction, the Single Incidental Operational Permit will be requested, which includes the Earth Crust Movement Permit for Actions Incidental to Works, before the Permit Management Office (OGPe) begins the proposed works through the Single Incidental Operational Permit. It is not expected that an excess of material will be generated that will have to be disposed of outside the property.
Demolition Mitigations	Debris Removal: Besides the designated areas established by floor for placing demolition material, a general collection point will be established where all waste will be unloaded. The general collection area will have restricted access, and entry will not be permitted when the ducts are used. Mitigation of Suspended Dust: Necessary measures will be incorporated to mitigate the introduction of suspended dust into the environment. This will include moistening during demolition activities, using wind screens, covering trucks with tarps, and washing vehicle wheels upon their exit.

	Machinery: Support machinery such as hydraulic hammers, backhoes, among others, will be used for both structural demolition and debris removal tasks. Special care will be taken to prevent accidents due to improper use, considering the following recommendations: • Trained Operator: The machinery operator must be qualified for these tasks, holding training and certification from the machinery supplier. • Alarms: All machinery must be outfitted with horns, backup alarms, and lights. These elements are essential for alerting workers to the movement and operation of the machinery. Both the alarms and all systems comprising the machinery (hoses, clamps, cables, and electrical connections) should be checked periodically (ideally daily) by trained personnel. • Delimitation of the Work Area: Clear delineated work zones must be established for both structural demolition and debris removal to prevent unauthorized personnel entry. • Additional Measures: o At the end of each workday, a general cleaning will be conducted, and any waste or garbage on the construction site will be collected as needed. o Preventive and informative signs indicating the ongoing work will be posted. o Personnel will wear applicable personal protective equipment according to required safety standards to prevent workplace accidents or impacts from prolonged exposure to loud noises. o Temporarily stored surplus materials will not interfere with pedestrian or vehicular traffic. o Authorized transporters will be used for the transportation of waste, and disposal will take place at locations authorized by the DRNA. o Demolition work will only be conducted during daylight hours.
Noise	The construction activities for the project will be limited to the hours specified and approved in the required permits. The neighboring residents will receive advance notice of upcoming construction activities to ensure transparency and community engagement. Noise control for construction equipment that relies on combustion engines will be managed through effective

	mufflers installed on the machinery. Proper maintenance of this equipment, particularly internal combustion engines, will ensure that noise levels remain low and compliant with design specifications. Furthermore, heavy equipment operators will receive training on recognized noise reduction practices. These measures will include: • Shutting down equipment that is not in use. • Avoiding unnecessary acceleration when operating machinery. • Keeping engine cabin covers closed during operation. • Ensuring that all threaded bolts, washers, screws, and tie-downs are properly secured. By implementing these strategies, we aim to minimize noise disturbances and ensure a quieter environment for the surrounding community during construction.
Endangered Species *Chilabotrus inornatus* Puerto Rican Boa	If a Puerto Rican Boa is found in the Project action site, work shall cease until the Boa moves off independently. If the Boa does not move off, the CM shall contact the Puerto Rico Department of Natural and Environmental Resources.
Floodplain Management	

Mitigation & Monitoring Plan – Plaza Juan F. Arroyo

Mitigation Measure	Implementation Date	Responsible Party	Monitoring Method
SHPO – Archaeological Monitoring: Archaeological monitoring will be conducted during all ground-disturbing activities per SHPO's approved plan. If artifacts or historic resources are found, work will stop and SHPO will be notified immediately.	During construction	Contractor / SHPO / Municipality	Archaeological monitoring reports; construction logs; SHPO notification
Work Area Controls: Delimitation and identification of work areas with required sectoral controls; training of construction personnel; stabilization of disturbed areas within 14 days; installation of structural controls (access road stabilization, silt fences, straw bales, sediment traps, vehicle wash areas).	Pre- and during construction	Contractor / Environmental Supervisor / Municipality	Weekly inspection reports; training records; photographic evidence
Sanitary Waste Management: Weekly collection of sanitary wastes from portable units by a licensed contractor.	During construction	Contractor / Authorized company	Service receipts; inspection reports
Soil Pile Management: Soil piles provided with stormwater erosion controls (silt fences, diversion ditches, coverings) until stabilized.	During construction	Contractor / Environmental Supervisor	Site inspections; photographic records
Housekeeping Practices: Materials stored in containers under cover; original labeling maintained; daily visual inspections by supervisor; contaminated soils disposed properly.	During construction	Site Supervisor / Contractor	Daily logs; disposal receipts
Hazardous Materials: If generated, hazardous waste will be managed in accordance with federal and Puerto Rico regulations. Products will be stored in their original containers, and MSDS will be kept on-site.	During construction (if applicable)	Contractor / Site Manager	Inspection records; disposal manifests
Clean Air / Dust Control: Dust is minimized through watering, truck covering, wheel washing, and the use of wind screens. The PUI (including the earth crust permit) is secured before construction.	Pre- and during construction	Contractor / OGPe / Municipality	PUI permit documentation; inspection reports
Demolition Mitigations: Designated debris collection areas; dust suppression (watering, tarps); machinery operated by certified personnel with alarms; restricted work	During demolition phase	Contractor / Municipality / Authorized transporters	Daily supervisor reports; equipment inspection logs; disposal receipts

zones; debris transported to DRNA-authorized facilities; demolition only during daylight.			
Noise – Construction: Construction is limited to permitted hours, with neighbors notified in advance. Mufflers are on equipment, and preventive maintenance is performed. Operators are trained in noise reduction practices.	During construction	Contractor / Municipality	Community notification records; inspection reports; training logs
Endangered Species (Puerto Rican Boa): If a boa is observed, work will stop until it leaves or DNER is contacted; workers trained on conservation protocol.	During construction	Contractor / DNER	Incident reports; training certifications
Waste / Construction Debris: Non-hazardous waste is stored in closed dumpsters and emptied weekly by a licensed company. No on-site burial of debris is permitted, and debris storage areas are equipped with erosion control measures.	During construction	Contractor / Municipality / Authorized waste company	Waste collection receipts; inspection reports
Floodplain Management: All construction activities will comply with applicable floodplain management regulations and permits.	Pre- and during construction	Municipality / Contractor / Regulatory agencies	Compliance documentation; inspection reports

Determination:

☐ This categorically excluded activity/project converts to Exempt, per 58.34(a)(12) because there are no circumstances which require compliance with any of the federal laws and authorities cited at§58.5. **Funds may be committed and drawn down after certification of this part** for this (now) EXEMPT project; OR

☒ This categorically excluded activity/project cannot convert to Exempt because there are circumstances which require compliance with one or more federal laws and authorities cited at§58.5. Complete consultation/mitigation protocol requirements, **publish NOI/RROF and obtain "Authority to Use Grant Funds"** (HUD 7015.16) per Section 58.70 and 58.71 before committing or drawing down any funds; OR

☐ This project is now subject to a full Environmental Assessment according to Part 58 Subpart E due to extraordinary circumstances (Section 58.35(c)).

Preparer Signature: **Elvelisse Figueroa Hernández** Date: **12/19/2025**

Name/Title/Organization: **Green Projects Environmental Consultants, LLC**

Certifying Officer Signature:  Date: 1/7/2026

Name/Title: Leslie R. Rivera Domenech- Director Planning and Economic Development Office

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

Exhibits:

Exhibit Number	Description
1	**Airport RPZ Buffer and APZ Protection Zone Buffer**
2	**Coastal Barrier Resources System Map**
2a	**Punta Vacia Talega Unit PR-87 Map**
3	**National Flood Hazard Layer FIRMette (72000C395J)**
4	**Nonattainment Areas Map**
4a	**List of Nonattainment Areas**
5	**Coastal Zone Management Map**
6	**EPA NEPAssits – EPA Facilities MAP**
6a	**Asbestos and LBP Reports**
6b	**Negative Certificaction of LBP and Asbestos**
6c	**ECHO and EPA Facilities Reports**
7	**USFWL Blanket Clearance Letter for Federally Sponsored Projects, Housing and Urban Development**
7a	**USFWLS Self Certification Package**
8	**WWW Farmland Classification**
8a	**US 2020 Census Urban Area**
9	**Advisory Base Flood Elevation (ABFE) Map**
9a	8 **Step Decision-Making Process**
10	**SHPO-CF-10-23-24-08 CRP-000312 Determination**
10a	**Section 106 NHPA Effect Determination Form**
10b	**Monitoring Plan and SHPO's Concurrence with the Monitoring Plan**
11	**Sole Source Aquifers Map**
12	**US FWS National Wetland Inventory Map**
13	**Wild and Scenic Rivers Map**
14	**Field Inspection**
15	**Project Drawings**

Appendix 1

Airport RPZ/APZ Protection Zone Image – (PR-CRP-000312)
Plaza Juan F. Arroyo (PR-CRP-000312)

Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)





Legend:

- 1. SJU Airport
- Accident Protection Zone
- Disatnce to APZ (20,000 ft)
- Distance to RPZ (32,600 ft)
- PR-CRP-000312
- Runway Protection Zone

Source: NEPAssist Tool (https://nepassisttool.epa.gov/nepassist/nepamap.aspx)

Airport name	Municipality	Type of airport	RPZ Distance (FT)	APZ Distance (FT)	24CFR 51 Subpart D Compliant
Luis Muñoz Marín (**SJU**)	San Juan	Civil large/medium hub and joint military airfield	32,600	20,000	Yes
Fernando Luis Ribas Dominicci (**SIG**)	San Juan	Civil small/non-hub	68,000	N/A	Yes
Rafael Hernández (**BQN**)	Aguadilla	Non-hub commercial service	418,300	N/A	Yes
Eugenio María de Hostos (**MAZ**)	Mayagüez	Regional Commercial service	429,300	N/A	Yes
Mercedita (**PSE**)	Ponce	Primary non-hub commercial service	260,300	N/A	Yes
José Aponte De LA Torre (**RVR**)	Ceiba	Primary non-hub commercial service	97,000	N/A	Yes
Antonio Rivera Rodríguez (**VQS**)	Vieques	Primary non-hub commercial service	162,500	N/A	Yes
Benjamin Rivera Noriega (**CPX**)	Culebra	Primary non-hub commercial service	204,000	N/A	Yes

Appendix 2

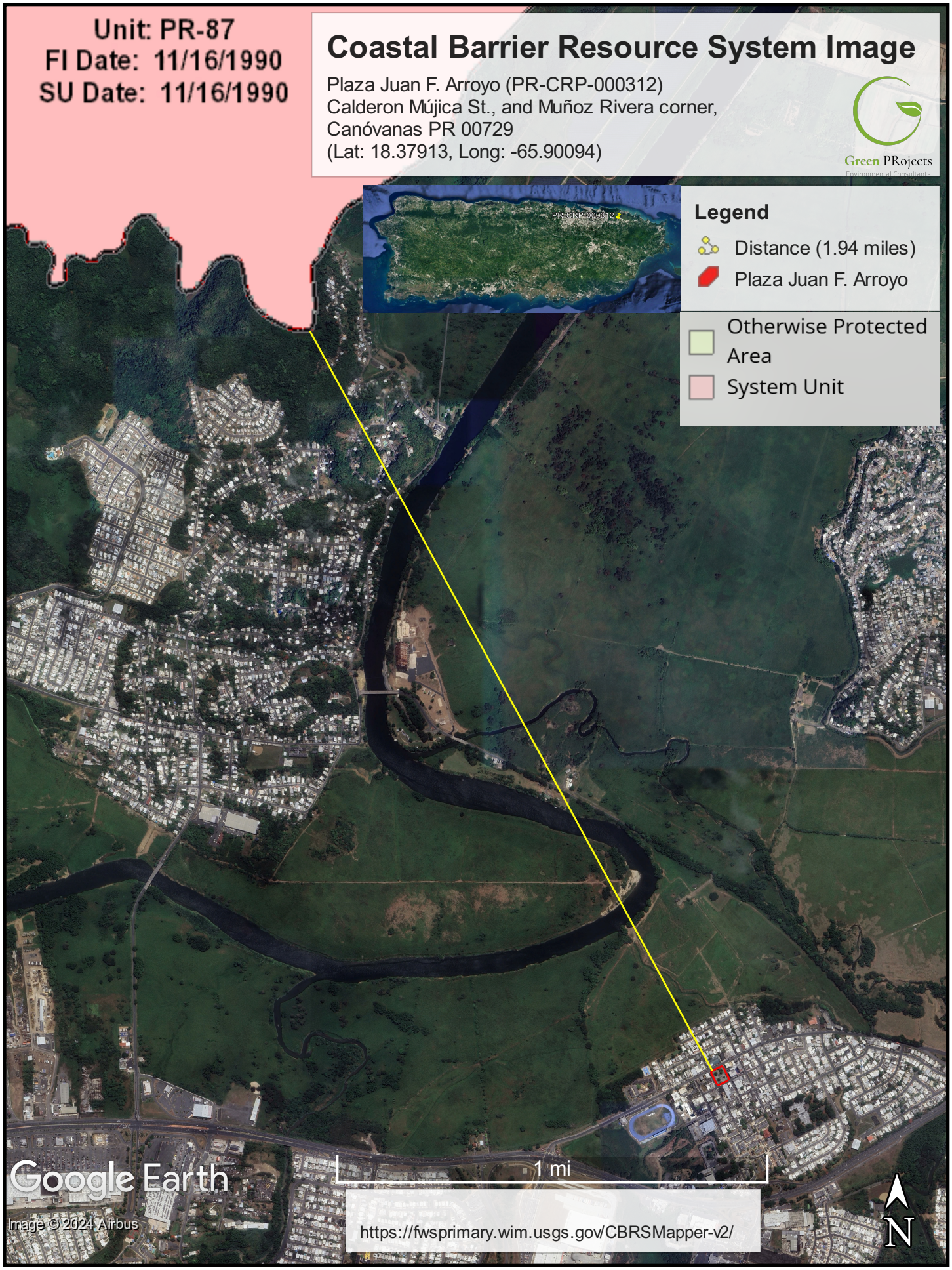

Unit: PR-87
FI Date: 11/16/1990
SU Date: 11/16/1990
Coastal Barrier Resource System Image
Plaza Juan F. Arroyo (PR-CRP-000312)
Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)
Green PRojects
Environmental Consultants
PR-CRP-000312
Legend
Distance (1.94 miles)
Plaza Juan F. Arroyo
Otherwise Protected Area
System Unit
Google Earth
Image © 2024 Airbus
1 mi
https://fwsprimary.wim.usgs.gov/CBRSMapper-v2/
N

Exhibit 2a



JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

Punta Vacia Talega Unit PR-87/PR-87P

This map has been produced by the U.S. Fish and Wildlife Service as authorized by Section 4(c) of the Coastal Barrier Resources Act (CBRA) of 1982 (Pub. L. 97-348), as amended by the Coastal Barrier Improvement Act of 1990 (Pub. L. 101-591). The CBRA requires the Secretary of the Interior to review the maps of the Coastal Barrier Resources System (CBRS) at least once every 5 years and make any minor and technical modifications to the boundaries of the CBRS units as are necessary solely to reflect changes that have occurred in the size or location of any CBRS unit as a result of natural forces.

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-ft bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-ft bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the CBRA or CBRS, please visit www.fws.gov/cbra.

- System Unit Boundary
- Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Approximate State Boundary
- 3654000mN — 2000- meter Universal Transverse Mercator grid values, Zone 20 North

Basemap Date(s): 2010 & 2015

Basemap Source(s): United States Army Corps of Engineers; United States Geological Survey Landsat 8 OLI / TIRS

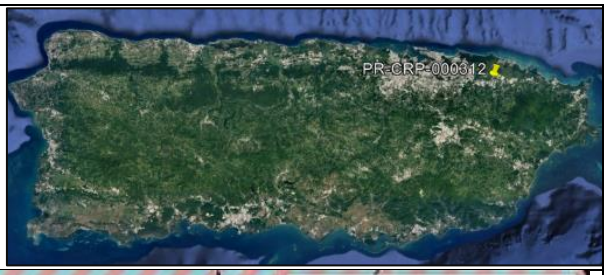
Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 20 North

Map 72-028A **November 15, 2016**

Appendix 3

National Flood Hazard Layer Image – (PR-CRP-000312)
Plaza Juan F. Arroyo (PR-CRP-000312)

Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)





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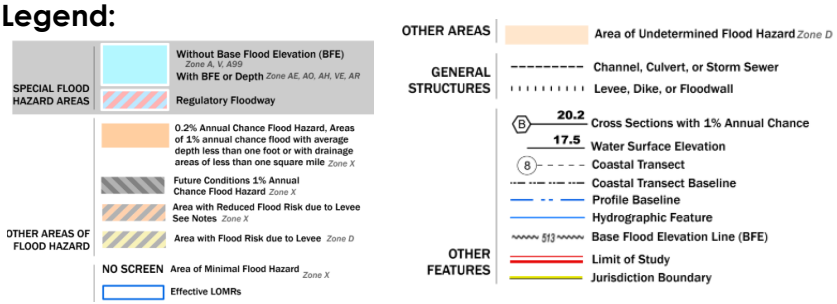
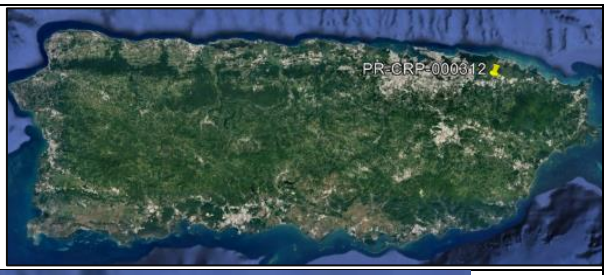


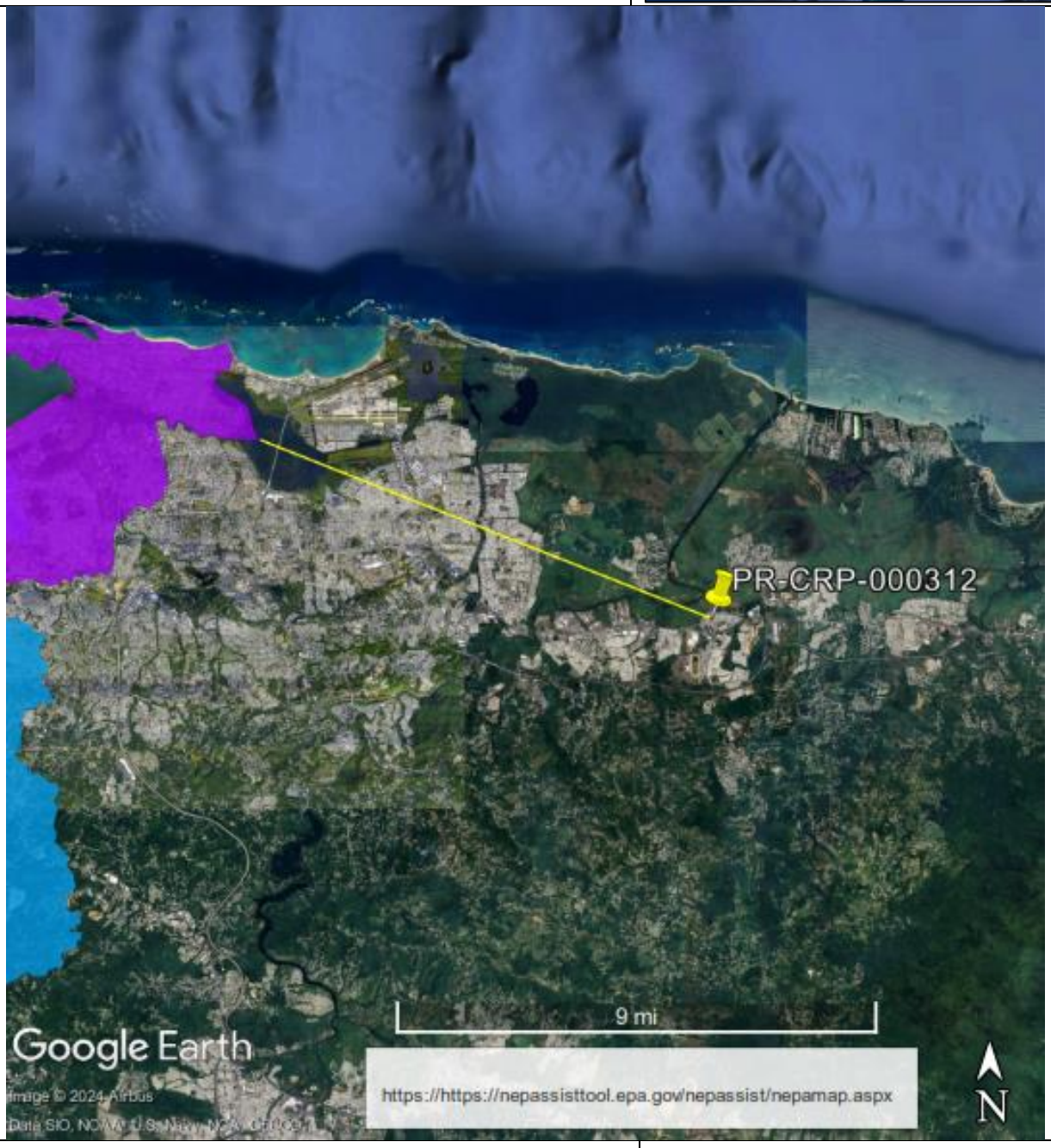
Source: FEMA National Flood Hazard Layer (https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd)

Appendix 4

Nonattainment Areas Image – (PR-CRP-000312)
Plaza Juan F. Arroyo (PR-CRP-000312)

Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)





Legend:

- Distance (9.1 miles)
- Plaza Juan F. Arroyo
- PM10 (1987 standard)
- SO2 1-hr (2010 standard)

Source: NEPAssist Tool (https://https://nepassisttool.epa.gov/nepassist/nepamap.aspx)



Current Nonattainment Counties for All Criteria Pollutants

Data is current as of December 31, 2023

The 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.
The asterisk (*) indicates only a portion of the county is included in the designated nonattainment area (NA).

Download National Dataset of all designated areas (currently nonattainment, maintenance, revoked):
dbf | xls | Data dictionary (PDF)

Listed by State, County, NAAQS * Part County NA NA Area Name (Classification, if applicable)

ALASKA
Fairbanks North Star Borough
PM-2.5 (2006) *Fairbanks, AK - (Serious)
ARIZONA
Cochise County
PM-10 (1987) *Cochise County; Paul Spur/Douglas planning area, AZ - (Moderate)
Gila County
Lead (2008) *Hayden, AZ
PM-10 (1987) *Hayden, AZ - (Moderate)
PM-10 (1987) *Miami, AZ - (Moderate)
Sulfur Dioxide (2010) *Hayden, AZ
Sulfur Dioxide (2010) *Miami, AZ
8-Hour Ozone (2015) *Phoenix-Mesa, AZ - (Moderate)
Maricopa County
PM-10 (1987) *Maricopa and Pinal Counties; Phoenix planning area, AZ - (Serious)
8-Hour Ozone (2008) *Phoenix-Mesa, AZ - (Moderate)
8-Hour Ozone (2015) *Phoenix-Mesa, AZ - (Moderate)
Pima County
PM-10 (1987) *Pima County; Rillito planning area, AZ - (Moderate)
Pinal County
Lead (2008) *Hayden, AZ
PM-10 (1987) *Hayden, AZ - (Moderate)
PM-10 (1987) *Maricopa and Pinal Counties; Phoenix planning area, AZ - (Serious)
PM-10 (1987) *Miami, AZ - (Moderate)
PM-10 (1987) *Pinal County (part); West Pinal, AZ - (Serious)
PM-2.5 (2006) *West Central Pinal, AZ - (Moderate)
Sulfur Dioxide (1971) *Hayden (Pinal County), AZ
Sulfur Dioxide (2010) *Hayden, AZ
8-Hour Ozone (2008) *Phoenix-Mesa, AZ - (Moderate)
8-Hour Ozone (2015) *Phoenix-Mesa, AZ - (Moderate)
Santa Cruz County
PM-10 (1987) *Santa Cruz County; Nogales planning area, AZ - (Moderate)
Yuma County
PM-10 (1987) *Yuma, AZ - (Moderate)
8-Hour Ozone (2015) *Yuma, AZ - (Marginal)
CALIFORNIA
Alameda County
PM-2.5 (2006) San Francisco Bay Area, CA - (Moderate)

8-Hour Ozone (2015) Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE - (Moderate)
Butler County
8-Hour Ozone (2008) Pittsburgh-Beaver Valley, PA - (Marginal)
Carbon County
8-Hour Ozone (2008) Allentown-Bethlehem-Easton, PA - (Marginal)
Chester County
8-Hour Ozone (2008) Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE - (Marginal)
8-Hour Ozone (2015) Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE - (Moderate)
Delaware County
8-Hour Ozone (2008) Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE - (Marginal)
8-Hour Ozone (2015) Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE - (Moderate)
Fayette County
8-Hour Ozone (2008) Pittsburgh-Beaver Valley, PA - (Marginal)
Indiana County
Sulfur Dioxide (2010) Indiana, PA
Lancaster County
8-Hour Ozone (2008) Lancaster, PA - (Marginal)
Lehigh County
8-Hour Ozone (2008) Allentown-Bethlehem-Easton, PA - (Marginal)
Montgomery County
8-Hour Ozone (2008) Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE - (Marginal)
8-Hour Ozone (2015) Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE - (Moderate)
Northampton County
8-Hour Ozone (2008) Allentown-Bethlehem-Easton, PA - (Marginal)
Philadelphia County
8-Hour Ozone (2008) Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE - (Marginal)
8-Hour Ozone (2015) Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE - (Moderate)
Warren County
*Sulfur Dioxide (2010)**Warren, PA
Washington County
8-Hour Ozone (2008) Pittsburgh-Beaver Valley, PA - (Marginal)
Westmoreland County
8-Hour Ozone (2008) Pittsburgh-Beaver Valley, PA - (Marginal)

PUERTO RICO
Arecibo Municipio
Lead (2008) *Arecibo, PR
Bayamon Municipio
*Sulfur Dioxide (2010)**San Juan, PR
Catano Municipio
Sulfur Dioxide (2010) San Juan, PR
Guaynabo Municipio
*Sulfur Dioxide (2010)**San Juan, PR
Salinas Municipio
*Sulfur Dioxide (2010)**Guayama-Salinas, PR
San Juan Municipio
*Sulfur Dioxide (2010)**San Juan, PR
Toa Baja Municipio
*Sulfur Dioxide (2010)**San Juan, PR

TENNESSEE
Sullivan County
*Sulfur Dioxide (2010)**Sullivan County, TN

TEXAS
Anderson County
*Sulfur Dioxide (2010)**Freestone and Anderson Counties, TX
Bexar County
8-Hour Ozone (2015) San Antonio, TX - (Moderate)
Brazoria County
8-Hour Ozone (2008) Houston-Galveston-Brazoria, TX - (Severe 15)
8-Hour Ozone (2015) Houston-Galveston-Brazoria, TX - (Moderate)
Chambers County
8-Hour Ozone (2008) Houston-Galveston-Brazoria, TX - (Severe 15)

8-Hour Ozone (2015) Houston-Galveston-Brazoria, TX - (Moderate)

Collin County
8-Hour Ozone (2008) Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015) Dallas-Fort Worth, TX - (Moderate)

Dallas County
8-Hour Ozone (2008) Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015) Dallas-Fort Worth, TX - (Moderate)

Denton County
8-Hour Ozone (2008) Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015) Dallas-Fort Worth, TX - (Moderate)

El Paso County
PM-10 (1987) *El Paso County, TX - (Moderate)
8-Hour Ozone (2015) El Paso-Las Cruces, TX-NM - (Marginal)

Ellis County
8-Hour Ozone (2008) Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015) Dallas-Fort Worth, TX - (Moderate)

Fort Bend County
8-Hour Ozone (2008) Houston-Galveston-Brazoria, TX - (Severe 15)
8-Hour Ozone (2015) Houston-Galveston-Brazoria, TX - (Moderate)

Freestone County
Sulfur Dioxide (2010) *Freestone and Anderson Counties, TX

Galveston County
8-Hour Ozone (2008) Houston-Galveston-Brazoria, TX - (Severe 15)
8-Hour Ozone (2015) Houston-Galveston-Brazoria, TX - (Moderate)

Harris County
8-Hour Ozone (2008) Houston-Galveston-Brazoria, TX - (Severe 15)
8-Hour Ozone (2015) Houston-Galveston-Brazoria, TX - (Moderate)

Howard County
Sulfur Dioxide (2010) *Howard County, TX

Hutchinson County
Sulfur Dioxide (2010) *Hutchinson County, TX

Johnson County
8-Hour Ozone (2008) Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015) Dallas-Fort Worth, TX - (Moderate)

Kaufman County
8-Hour Ozone (2008) Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015) Dallas-Fort Worth, TX - (Moderate)

Liberty County
8-Hour Ozone (2008) Houston-Galveston-Brazoria, TX - (Severe 15)

Montgomery County
8-Hour Ozone (2008) Houston-Galveston-Brazoria, TX - (Severe 15)
8-Hour Ozone (2015) Houston-Galveston-Brazoria, TX - (Moderate)

Navarro County
Sulfur Dioxide (2010) *Navarro County, TX

Panola County
Sulfur Dioxide (2010) *Rusk and Panola Counties, TX

Parker County
8-Hour Ozone (2008) Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015) Dallas-Fort Worth, TX - (Moderate)

Rockwall County
8-Hour Ozone (2008) Dallas-Fort Worth, TX - (Severe 15)

Rusk County
Sulfur Dioxide (2010) *Rusk and Panola Counties, TX

Tarrant County
8-Hour Ozone (2008) Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015) Dallas-Fort Worth, TX - (Moderate)

Titus County
Sulfur Dioxide (2010) *Titus County, TX

Waller County
8-Hour Ozone (2008) Houston-Galveston-Brazoria, TX - (Severe 15)

Wise County

8-Hour Ozone (2008) Dallas-Fort Worth, TX - (Severe 15)
8-Hour Ozone (2015) Dallas-Fort Worth, TX - (Moderate)

UTAH

Box Elder County
PM-2.5 (2006) *Salt Lake City, UT - (Serious)
Davis County
PM-2.5 (2006) Salt Lake City, UT - (Serious)
8-Hour Ozone (2015) Northern Wasatch Front, UT - (Moderate)
Duchesne County
8-Hour Ozone (2015) *Uinta Basin, UT - (Marginal)
Salt Lake County
PM-2.5 (2006) Salt Lake City, UT - (Serious)
Sulfur Dioxide (1971) Salt Lake County, UT
8-Hour Ozone (2015) Northern Wasatch Front, UT - (Moderate)
Tooele County
PM-2.5 (2006) *Salt Lake City, UT - (Serious)
Sulfur Dioxide (1971) *Tooele County, UT
8-Hour Ozone (2015) *Northern Wasatch Front, UT - (Moderate)
Uintah County
8-Hour Ozone (2015) *Uinta Basin, UT - (Marginal)
Utah County
PM-2.5 (2006) *Provo, UT - (Serious)
8-Hour Ozone (2015) *Southern Wasatch Front, UT - (Marginal)
Weber County
PM-2.5 (2006) *Salt Lake City, UT - (Serious)
8-Hour Ozone (2015) *Northern Wasatch Front, UT - (Moderate)

VIRGINIA

Alexandria city
8-Hour Ozone (2015) Washington, DC-MD-VA - (Moderate)
Arlington County
8-Hour Ozone (2015) Washington, DC-MD-VA - (Moderate)
Fairfax County
8-Hour Ozone (2015) Washington, DC-MD-VA - (Moderate)
Fairfax city
8-Hour Ozone (2015) Washington, DC-MD-VA - (Moderate)
Falls Church city
8-Hour Ozone (2015) Washington, DC-MD-VA - (Moderate)
Giles County
Sulfur Dioxide (2010) *Giles County, VA
Loudoun County
8-Hour Ozone (2015) Washington, DC-MD-VA - (Moderate)
Manassas Park city
8-Hour Ozone (2015) Washington, DC-MD-VA - (Moderate)
Manassas city
8-Hour Ozone (2015) Washington, DC-MD-VA - (Moderate)
Prince William County
8-Hour Ozone (2015) Washington, DC-MD-VA - (Moderate)

WASHINGTON

Whatcom County
Sulfur Dioxide (2010) *Whatcom County, WA

WISCONSIN

Kenosha County
8-Hour Ozone (2015) *Chicago, IL-IN-WI - (Moderate)
Milwaukee County
8-Hour Ozone (2015) Milwaukee, WI - (Moderate)
Ozaukee County
8-Hour Ozone (2015) Milwaukee, WI - (Moderate)
Racine County
8-Hour Ozone (2015) *Milwaukee, WI - (Moderate)
Sheboygan County
8-Hour Ozone (2015) *Sheboygan County, WI - (Moderate)

Washington County
8-Hour Ozone (2015) *Milwaukee, WI - (Moderate)
Waukesha County
8-Hour Ozone (2015) *Milwaukee, WI - (Moderate)

WYOMING

Lincoln County
8-Hour Ozone (2008) *Upper Green River Basin Area, WY - (Marginal)
Sublette County
8-Hour Ozone (2008) Upper Green River Basin Area, WY - (Marginal)
Sweetwater County
8-Hour Ozone (2008) *Upper Green River Basin Area, WY - (Marginal)

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2023-12-31

Appendix 5

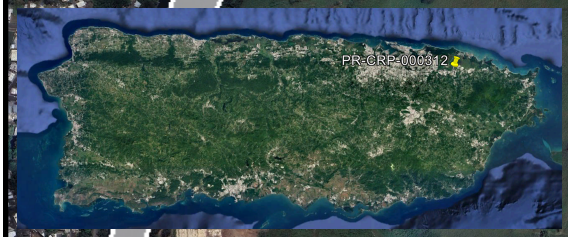
Coastal Zone Management Image

Plaza Juan F. Arroyo (PR-CRP-000312)
Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)

Green PRojects

Legend

- Coastal Zone
- Distance to Coastal Zone (0.90 miles)
- Plaza Juan F. Arroyo



3000 ft

Google Earth

Image © 2024 Airbus

https://erma.noaa.gov/layer/26282

N

Appendix 6

EPA Facilities Image – (PR-CRP-000312)
Plaza Juan F. Arroyo

Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)





Legend:

- 3,000 ft Buffer Zone
- ACRES (Brownfields)
- ICIS-AIR (Air Pollution)
- NPDES (Water Dischargers)
- RCRAInfo (Hazardous Waste)
- TRI (Toxic Releases)
- PR-CRP-000312

Source: NEPAssist Tool (https://nepassisttool.epa.gov/nepassist/nepamap.aspx)

Contamination and Toxic Substances

24 CFR Part 50.3(i) & 58.5(i)(2)

ID	EPA Facility	Facility Type	Distance From Site (ft)	Compliance Status (ECHO)
1	Canovanas Stp	RCRAInfo	2,500	No Violation Identified
2	Express Auto Gulf Station	RCRAInfo	780	No Violation Identified
3	A & P Proofing Insulation Inc	TRI	530	The EPA ECHO database provides limited information on this site. The facility is not on the National Priorities List and was not identified as a Superfund site.
4	Canovanas Indian Cleaner	RCRAInfo	650	No Violation Identified
5	Public Building Auth - Police Station	RCRAInfo	650	No Violation Identified
6	Canovanas Indian Cleaner	ICIS-AIR	700	No Violation Identified
7	Pillsbury Pr Inc	RCRAInfo	560	No Violation Identified
8	Escuela Luis Hernaiz Verone	RCRAInfo	650	No Violation Identified
9	Ford Motor Co Caribbean Inc	ICIS-AIR	2,140	No Violation Identified
10	Ford Motor Co Caribbean Inc	RCRAInfo	2,140	No Violation Identified
11	Villas De Loiza Stp	RCRAInfo	2,350	No Violation Identified
12	Walmart Supercenter #5802	RCRAInfo	2,350	No Violation Identified
13	Prasa Canovanas Wtp	NPDES	3,000	No Violation Identified
14	Centro De Distribucion - Supermercados Econo, Inc	NPDES	2,340	No Violation Identified
15	Supermercados Econo New Warehouse And Distribution Center	NPDES	2,970	Terminated Permit
16	Brisas De Loiza Stp	RCRAInfo	1,950	No Violation Identified
17	Extension Canovanas Plaza Rial Ii	NPDES	2,160	Terminated Permit
18	American Properties Corp	RCRAInfo	2,000	No Violation Identified
19	Aluminum Extrussion Corp	RCRAInfo	1,840	No Violation Identified
20	Project Pouch Inc Nsc Pr Inc	RCRAInfo	1,840	No Violation Identified
21	Aluminum Extrussion Corp	TRI	1,980	No Violation Identified
22	Tanama Farms	RCRAInfo	2,740	No Violation Identified
23	Solares 1 Y 2 Del L-367-0-76 (Site 23)	ACRES	2,400	Assessment
24	DowntownS Old Dairy (Site 1-H)	ACRES	210	Ready for Anticipated Use
25	Two Adjacent Abandoned Residences (Site 9-H)	ACRES	490	Ready for Anticipated Use

26	Abandoned Gas Station (192) (Site 1-P)	ACRES	1,100	No current status available
27	Abandoned Machine Shop, Tire Center(Site 1.2017-P)	ACRES	1,900	No current status available

EPA Facilities within 3,000 ft of the project.

NPDES- Water Discharges **TRI-** Toxic Realeases **RCRAInfo-** Hazardous Waste
ICIS-AIR Air Pollution **ACRES**- Brownfields

Detailed Facility Report

Facility Summary

CANOVANAS STP

PR-951 KM 0.9, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110007803975

EPA Region: 02

Latitude: 18.385975

Longitude: -65.901608

Locational Data Source: RCRAINFO

Industries: Utilities

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD000689372)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007803975					N	18.385975	-65.901608
ICIS		41091					N	18.315016	-65.895756
RCRAInfo	RCRA	PRD000689372	Other	Inactive ( )			N	18.385975	-65.901608

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007803975	CANOVANAS STP	PR-951 KM 0.9, CANOVANAS, PR 00729	Canóvanas Municipio
ICIS		41091	QUINTAS DE CANOVANAS P.S. - CAROLINA WWTP	ROAD 185 KM .9, CANOVANA, PR 00901	San Juan Municipio
RCRAInfo	RCRA	PRD000689372	CANOVANAS STP	STATE RD 951 KM 0.9, CANOVANAS, PR 00629	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	PRD000689372	22132	Sewage Treatment Facilities

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRD000689372	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRD000689372)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	6,335
Population Density	2,083/sq.mi.
Housing Units in Area	3,003
Percent People of Color	100%
Households in Area	2,429
Households on Public Assistance	111
Persons With Low Income	4,819
Percent With Low Income	76%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.385975
Center Longitude	-65.901608
Total Area	3.121 sq.mi.
Land Area	97%
Water Area	3%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	850 (35.02%)
$15,000 - $25,000	527 (21.71%)
$25,000 - $50,000	586 (24.15%)
$50,000 - $75,000	236 (9.72%)
Greater than $75,000	228 (9.39%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	220 (3%)
Minors 17 years and younger	1,180 (19%)
Adults 18 years and older	5,153 (81%)
Seniors 65 years and older	1,248 (20%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	1,437 (23%)
African-American	1,107 (17%)
Hispanic-Origin	6,314 (100%)
Asian	172 (3%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	2 (0%)
Other/Multiracial	2,550 (40%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	825 (17.88%)
9th through 12th Grade	438 (9.49%)
High School Diploma	1,185 (25.68%)
Some College/2-year	542 (11.74%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,029 (22.3%)

Detailed Facility Report

Facility Summary

EXPRESS AUTO GULF STATION

106 PALMER ST, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110004891127

EPA Region: 02

Latitude: 18.380333

Longitude: -65.89894

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	05/22/1997
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRO007002280)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110004891127					N	18.380333	-65.89894
RCRAInfo	RCRA	PRO007002280	Other	Inactive ( )			N	18.379999	-65.899865

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004891127	EXPRESS AUTO GULF STATION	106 PALMER ST, CANOVANAS, PR 00729	Canóvanas Municipio
RCRAInfo	RCRA	PRO007002280	EXPRESS AUTO GULF STATION	106 PALMER ST, CANOVANAS, PR 00729	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRO007002280	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRO007002280)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	7,791
Population Density	2,542/sq.mi.
Housing Units in Area	3,357
Percent People of Color	100%
Households in Area	2,808
Households on Public Assistance	103
Persons With Low Income	4,895
Percent With Low Income	63%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.380333
Center Longitude	-65.89894
Total Area	3.121 sq.mi.
Land Area	98%
Water Area	2%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	641 (22.84%)
$15,000 - $25,000	483 (17.21%)
$25,000 - $50,000	809 (28.82%)
$50,000 - $75,000	382 (13.61%)
Greater than $75,000	492 (17.53%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	212 (3%)
Minors 17 years and younger	1,437 (18%)
Adults 18 years and older	6,352 (82%)
Seniors 65 years and older	1,365 (18%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,063 (26%)
African-American	1,575 (20%)
Hispanic-Origin	7,764 (100%)
Asian	39 (1%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	12 (0%)
Other/Multiracial	2,519 (32%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	577 (10.41%)
9th through 12th Grade	334 (6.02%)
High School Diploma	1,255 (22.63%)
Some College/2-year	708 (12.77%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,763 (31.79%)

Detailed Facility Report

Facility Summary

A & P PROOFING INSULATION INC

PO BOX 146, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110008053355

EPA Region: 02

Latitude: 18.379343

Longitude: -65.899218

Locational Data Source: TRIS

Industries: Chemical Manufacturing

Indian Country: N

Enforcement and Compliance Summary

No data records returned

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): 00629PRFNGPOBOX

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110008053355					N	18.379343	-65.899218
TRI	EP313	00629PRFNGPOBOX	Toxics Release Inventory	Last Reported for 1988			N	18.379343	-65.899218

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110008053355	A & P PROOFING INSULATION INC	PO BOX 146, CANOVANAS, PR 00729	Canóvanas Municipio
TRI	EP313	00629PRFNGPOBOX	A & P PROOFING INSULATION INC	PO BOX 146, CANOVANAS, PR 00729	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
TRI	00629PRFNGPOBOX	2890	Legacy Docket Conv
TRI	00629PRFNGPOBOX	2891	Adhesives And Sealants

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
TRI	00629PRFNGPOBOX	325520	Adhesive Manufacturing

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed

No data records returned

Three-Year Compliance History by Quarter

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals

Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	8,132
Population Density	2,652/sq.mi.
Housing Units in Area	3,417
Percent People of Color	100%
Households in Area	2,895
Households on Public Assistance	103
Persons With Low Income	4,941
Percent With Low Income	61%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.379343
Center Longitude	-65.899218
Total Area	3.121 sq.mi.
Land Area	98%
Water Area	2%

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	222 (3%)
Minors 17 years and younger	1,480 (18%)
Adults 18 years and older	6,650 (82%)
Seniors 65 years and older	1,421 (17%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,210 (27%)
African-American	1,681 (21%)
Hispanic-Origin	8,104 (100%)
Asian	24 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	12 (0%)
Other/Multiracial	2,485 (31%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	507 (8.75%)
9th through 12th Grade	331 (5.71%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	616 (21.28%)
$15,000 - $25,000	476 (16.44%)
$25,000 - $50,000	852 (29.43%)
$50,000 - $75,000	414 (14.3%)
Greater than $75,000	537 (18.55%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	1,299 (22.41%)
Some College/2-year	756 (13.04%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,944 (33.53%)

4,6

Detailed Facility Report

Facility Summary

CANOVANAS INDIAN CLEANER

100 CALLE CORCHADO, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110005973642

EPA Region: 02

Latitude: 18.37822

Longitude: -65.89894

Locational Data Source: FRS

Industries: Personal and Laundry Services

Indian Country: N

Enforcement and Compliance Summary

Statute	CAA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	09/12/2013
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--
Statute	**RCRA**
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): Operating Minor (PR0000007202900015)

Clean Water Act (CWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRN000021865)

Safe Drinking Water Act (SDWA): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details
Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110005973642					N	18.37822	-65.89894
ICIS-Air	CAA	PR0000007202900015	Minor Emissions	Operating	CAAMACT, CAASIP		N	18.37834	-65.899
RCRAInfo	RCRA	PRN000021865	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110005973642	CANOVANAS INDIAN CLEANER	100 CALLE CORCHADO, CANOVANAS, PR 00729	Canóvanas Municipio
ICIS-Air	CAA	PR0000007202900015	CANOVANAS INDIAN CLEANER	CORCHADO STREET #100, CANOVANAS, PR 00929	Canóvanas Municipio
RCRAInfo	RCRA	PRN000021865	CANOVANAS INDIAN LAUNDRY	100 CALLE CORCHADO, CANOVANAS, PR 00756	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-Air	PR0000007202900015	7216	Drycleaning Plants, Except Rug

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
ICIS-Air	PR0000007202900015	812320	Drycleaning and Laundry Services (except Coin-Operated)

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CAA	PR0000007202900015	No	03/08/2025	0	03/07/2025
RCRA	PRN000021865	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	
CAA (Source ID: PR0000007202900015)		04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/0
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No I
	HPV History											
	Violation Type / Agency / Programs / Pollutants											

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRN000021865)		04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation / Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	8,544
Population Density	2,782/sq.mi.
Housing Units in Area	3,501
Percent People of Color	100%
Households in Area	3,004
Households on Public Assistance	101
Persons With Low Income	5,004

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	234 (3%)
Minors 17 years and younger	1,562 (18%)
Adults 18 years and older	6,984 (82%)
Seniors 65 years and older	1,456 (17%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,395 (28%)

General Statistics (ACS (American Community Survey))	
Percent With Low Income	59%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.37822
Center Longitude	-65.89894
Total Area	3.121 sq.mi.
Land Area	98%
Water Area	2%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	601 (20.03%)
$15,000 - $25,000	462 (15.4%)
$25,000 - $50,000	890 (29.67%)
$50,000 - $75,000	448 (14.93%)
Greater than $75,000	599 (19.97%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
African-American	1,730 (20%)
Hispanic-Origin	8,515 (100%)
Asian	22 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	14 (0%)
Other/Multiracial	2,512 (29%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	464 (7.65%)
9th through 12th Grade	322 (5.31%)
High School Diploma	1,327 (21.87%)
Some College/2-year	806 (13.28%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,143 (35.32%)

5

Detailed Facility Report

Facility Summary

PUBLIC BUILDING AUTH - POLICE STATION

CORCHADO ST 104, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110004890191

EPA Region: 02

Latitude: 18.37834

Longitude: -65.899

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	05/19/1997
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD987380532)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110004890191					N	18.37834	-65.899
RCRAInfo	RCRA	PRD987380532	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004890191	PUBLIC BUILDING AUTH - POLICE STATION	CORCHADO ST 104, CANOVANAS, PR 00729	Canóvanas Municipio
RCRAInfo	RCRA	PRD987380532	PUBLIC BUILDING AUTH - POLICE STATION	CORCHADO ST 104, CANOVANAS, PR 00729	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRD987380532	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRD987380532)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	8,506
Population Density	2,770/sq.mi.
Housing Units in Area	3,496
Percent People of Color	100%
Households in Area	2,993
Households on Public Assistance	102
Persons With Low Income	5,005
Percent With Low Income	59%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.37834
Center Longitude	-65.899
Total Area	3.121 sq.mi.
Land Area	98%
Water Area	2%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	602 (20.13%)
$15,000 - $25,000	463 (15.48%)
$25,000 - $50,000	889 (29.73%)
$50,000 - $75,000	443 (14.82%)
Greater than $75,000	593 (19.83%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	235 (3%)
Minors 17 years and younger	1,555 (18%)
Adults 18 years and older	6,954 (82%)
Seniors 65 years and older	1,454 (17%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,376 (28%)
African-American	1,731 (20%)
Hispanic-Origin	8,478 (100%)
Asian	21 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	14 (0%)
Other/Multiracial	2,511 (30%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	468 (7.74%)
9th through 12th Grade	323 (5.34%)
High School Diploma	1,326 (21.92%)
Some College/2-year	801 (13.24%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,121 (35.06%)

Detailed Facility Report

Facility Summary

PILLSBURY PR INC

PR-185 KM 0.2, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110015588032

EPA Region: 02

Latitude: 18.377392

Longitude: -65.901155

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRN008012692)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110015588032					N	18.377392	-65.901155
RCRAInfo	RCRA	PRN008012692	Other	Inactive ( )			N	18.377392	-65.901155

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110015588032	PILLSBURY PR INC	PR-185 KM 0.2, CANOVANAS, PR 00729	Canóvanas Municipio
RCRAInfo	RCRA	PRN008012692	PILLSBURY PR INC	RD 185 KM 0 HM 2, CANOVANAS, PR 00729-1661	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRN008012692	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRN008012692)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	9,386
Population Density	3,059/sq.mi.
Housing Units in Area	3,802
Percent People of Color	100%
Households in Area	3,286
Households on Public Assistance	102
Persons With Low Income	5,511
Percent With Low Income	59%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.377392
Center Longitude	-65.901155
Total Area	3.121 sq.mi.
Land Area	98%
Water Area	2%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	647 (19.73%)
$15,000 - $25,000	514 (15.67%)
$25,000 - $50,000	992 (30.24%)
$50,000 - $75,000	506 (15.43%)
Greater than $75,000	621 (18.93%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	267 (3%)
Minors 17 years and younger	1,599 (17%)
Adults 18 years and older	7,788 (83%)
Seniors 65 years and older	1,726 (18%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,618 (28%)
African-American	1,984 (21%)
Hispanic-Origin	9,357 (100%)
Asian	16 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	11 (0%)
Other/Multiracial	2,629 (28%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	455 (6.68%)
9th through 12th Grade	371 (5.44%)
High School Diploma	1,577 (23.14%)
Some College/2-year	905 (13.28%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,401 (35.23%)

Detailed Facility Report

Facility Summary

ESCUELA LUIS HERNAIZ VERONE

CALLE AUTONOMIA, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110007811029

EPA Region: 02

Latitude: 18.377041

Longitude: -65.900862

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD987373552)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007811029					N	18.377041	-65.900862
RCRAInfo	RCRA	PRD987373552	Other	Inactive ( )			N	18.377041	-65.900862

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007811029	ESCUELA LUIS HERNAIZ VERONE	CALLE AUTONOMIA, CANOVANAS, PR 00729	Canóvanas Municipio
RCRAInfo	RCRA	PRD987373552	ESCUELA LUIS HERNAIZ VERONE	CALLE AUTONOMIA, CANOVANAS, PR 00629	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRD987373552	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRD987373552)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	9,450
Population Density	3,078/sq.mi.
Housing Units in Area	3,800
Percent People of Color	100%
Households in Area	3,295
Households on Public Assistance	101
Persons With Low Income	5,474
Percent With Low Income	58%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.377041
Center Longitude	-65.900862
Total Area	3.121 sq.mi.
Land Area	98%
Water Area	2%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	641 (19.44%)
$15,000 - $25,000	506 (15.34%)
$25,000 - $50,000	993 (30.11%)
$50,000 - $75,000	514 (15.59%)
Greater than $75,000	644 (19.53%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	273 (3%)
Minors 17 years and younger	1,620 (17%)
Adults 18 years and older	7,829 (83%)
Seniors 65 years and older	1,708 (18%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,671 (28%)
African-American	1,966 (21%)
Hispanic-Origin	9,421 (100%)
Asian	17 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	12 (0%)
Other/Multiracial	2,625 (28%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	443 (6.48%)
9th through 12th Grade	364 (5.32%)
High School Diploma	1,564 (22.86%)
Some College/2-year	910 (13.3%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,446 (35.76%)

9,10

Detailed Facility Report

Facility Summary

FORD MOTOR CO CARIBBEAN INC

PR-3 KM 19.5, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110010637560

EPA Region: 02

Latitude: 18.377678

Longitude: -65.894931

Locational Data Source: RCRAINFO

Industries: Fabricated Metal Product Manufacturing

Indian Country: N

Enforcement and Compliance Summary

Statute	CAA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--
Statute	**CWA**
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	--
Qtrs in Noncompliance (of 12)	--
Qtrs with Significant Violation	--
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	08/24/1992
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): Operating Minor (PR0000007208900006)

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD090134628)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details
Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110010637560					N	18.377678	-65.894931
ICIS		1800045773					N	18.377678	-65.894931
ICIS		44343					N	18.377678	-65.894931
ICIS-Air	CAA	PR0000007208900006	Minor Emissions	Operating	CAASIP		N	18.377678	-65.894931
RCRAInfo	RCRA	PRD090134628	Other	Inactive ( )			N	18.377678	-65.894931

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110010637560	FORD MOTOR CO CARIBBEAN INC	PR-3 KM 19.5, CANOVANAS, PR 00729	Canóvanas Municipio
ICIS		1800045773	FORD MOTOR CO CARIBBEAN INC	STATE RD 3 KM 19.5, CANOVANAS, PR 00729	Canóvanas Municipio
ICIS		44343	FORD MOTOR CO CARIBBEAN INC	STATE RD 3 KM 19.5, CANOVANAS, PR 00729	Canóvanas Municipio
ICIS-Air	CAA	PR0000007208900006	FORD MOTOR CARRIBEAN	CARR 3 KM 19.5, LUQUILLO, PR 00979	Luquillo Municipio
RCRAInfo	RCRA	PRD090134628	F M C C I CHASSIS PLANT	RD 3 KM 19, CANOVANAS, PR 00629	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-Air	PR0000007208900006	3562	Ball And Roller Bearings

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
ICIS-Air	PR0000007208900006	332991	Ball and Roller Bearing Manufacturing

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CAA	PR0000007208900006	No	03/08/2025	0	03/07/2025
RCRA	PRD090134628	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	
CAA (Source ID: PR0000007208900006)		04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/0
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No I
	HPV History											

	Violation Type	Agency	Programs	Pollutants

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRD090134628)		04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified

	Violation	Agency

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	8,321
Population Density	2,698/sq.mi.
Housing Units in Area	3,349
Percent People of Color	100%
Households in Area	2,918
Households on Public Assistance	99
Persons With Low Income	4,558
Percent With Low Income	55%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.377678
Center Longitude	-65.894931
Total Area	3.121 sq.mi.
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	561 (19.27%)
$15,000 - $25,000	402 (13.8%)
$25,000 - $50,000	825 (28.33%)
$50,000 - $75,000	443 (15.21%)
Greater than $75,000	681 (23.39%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	255 (3%)
Minors 17 years and younger	1,705 (20%)
Adults 18 years and older	6,615 (79%)
Seniors 65 years and older	1,207 (15%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,509 (30%)
African-American	1,294 (16%)
Hispanic-Origin	8,293 (100%)
Asian	29 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	21 (0%)
Other/Multiracial	2,636 (32%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	480 (8.47%)
9th through 12th Grade	237 (4.18%)
High School Diploma	1,131 (19.96%)
Some College/2-year	747 (13.18%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,123 (37.46%)

Detailed Facility Report

Facility Summary

VILLAS DE LOIZA STP

PR-3 KM 19.5, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110007804956

EPA Region: 02

Latitude: 18.377678

Longitude: -65.894931

Locational Data Source: RCRAINFO

Industries: Utilities

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD000691659)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007804956					N	18.377678	-65.894931
ICIS		44532					N	18.377678	-65.894931
RCRAInfo	RCRA	PRD000691659	Other	Inactive ( )			N	18.377678	-65.894931

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007804956	VILLAS DE LOIZA STP	PR-3 KM 19.5, CANOVANAS, PR 00729	Canóvanas Municipio
ICIS		44532	VILLAS DE LOIZA STP	STATE RD 3 KM 19.5, CANOVANAS, PR 00729	Canóvanas Municipio
RCRAInfo	RCRA	PRD000691659	VILLAS DE LOIZA STP	STATE RD 3 KM 19.5, CANOVANAS, PR 00629	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	PRD000691659	22132	Sewage Treatment Facilities

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRD000691659	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRD000691659)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	8,321
Population Density	2,698/sq.mi.
Housing Units in Area	3,349
Percent People of Color	100%
Households in Area	2,918
Households on Public Assistance	99
Persons With Low Income	4,558
Percent With Low Income	55%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.377678
Center Longitude	-65.894931
Total Area	3.121 sq.mi.
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	561 (19.27%)
$15,000 - $25,000	402 (13.8%)
$25,000 - $50,000	825 (28.33%)
$50,000 - $75,000	443 (15.21%)
Greater than $75,000	681 (23.39%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	255 (3%)
Minors 17 years and younger	1,705 (20%)
Adults 18 years and older	6,615 (79%)
Seniors 65 years and older	1,207 (15%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,509 (30%)
African-American	1,294 (16%)
Hispanic-Origin	8,293 (100%)
Asian	29 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	21 (0%)
Other/Multiracial	2,636 (32%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	480 (8.47%)
9th through 12th Grade	237 (4.18%)
High School Diploma	1,131 (19.96%)
Some College/2-year	747 (13.18%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,123 (37.46%)

Detailed Facility Report

Facility Summary

WALMART SUPERCENTER #5802

CARR #3 KM 17.8, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110037441364

EPA Region: 02

Latitude: 18.378041

Longitude: -65.894292

Locational Data Source: RCRAINFO

Industries: General Merchandise Retailers

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active SQG, (PRR000021758)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110037441364					N	18.378041	-65.894292
RCRAInfo	RCRA	PRR000021758	SQG	Active (H)			N	18.378041	-65.894292

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110037441364	WALMART SUPERCENTER #5802	CARR #3 KM 17.8, CANOVANAS, PR 00729	Canóvanas Municipio

System	Statute	Identifier	Facility Name	Facility Address	Facility County
RCRAInfo	RCRA	PRR000021758	WALMART SUPERCENTER #5802	PLAZA CANOVANAS HWY 3 INT NEW RT 66, CANOVANAS, PR 00729	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	PRR000021758	455211	Warehouse Clubs and Supercenters

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000021758	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRR000021758)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

e-Manifest Hazardous Waste History (Public)

Hazardous Waste Shipped in Kilograms by Year (Through 12/7/2024)

Source ID	Waste Description	2022	2023	2024	2025
PRR000021758	Hazardous Waste	164 - 171	87 - 92	207 - 209	--
PRR000021758	Acute Hazardous Waste	0 - 6	0 - 4	0 - 1	--
PRR000021758	Pharmaceutical Hazardous Waste	0 - 7	0 - 5	0 - 1	--

“Pharmaceutical Hazardous Waste” refers to quantities managed under 40 CFR part 266 subpart P and thus excluded from the Hazardous and Acute Hazardous Waste quantities shown above.

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA’s spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	8,344
Population Density	2,704/sq.mi.
Housing Units in Area	3,398
Percent People of Color	100%
Households in Area	2,941
Households on Public Assistance	104
Persons With Low Income	4,638
Percent With Low Income	56%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.378041
Center Longitude	-65.894292
Total Area	3.121 sq.mi.
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	583 (19.84%)
$15,000 - $25,000	415 (14.13%)
$25,000 - $50,000	824 (28.05%)
$50,000 - $75,000	441 (15.01%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	262 (3%)
Minors 17 years and younger	1,709 (20%)
Adults 18 years and older	6,633 (79%)
Seniors 65 years and older	1,222 (15%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,490 (30%)
African-American	1,284 (15%)
Hispanic-Origin	8,316 (100%)
Asian	31 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	21 (0%)
Other/Multiracial	2,722 (33%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	531 (9.35%)
9th through 12th Grade	246 (4.33%)
High School Diploma	1,152 (20.28%)
Some College/2-year	743 (13.08%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,068 (36.41%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Greater than $75,000	675 (22.97%)

Detailed Facility Report

Facility Summary

PRASA CANOVANAS WTP

PR-3 KM 17.3, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110012286560

EPA Region: 02

Latitude: 18.377998

Longitude: -65.892405

Locational Data Source: NPDES

Industries: Utilities

Indian Country: N

Enforcement and Compliance Summary

Statute	CAA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	--
Qtrs in Noncompliance (of 12)	--
Qtrs with Significant Violation	--
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--
Statute	**CWA**
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	02/06/2019
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	1
Penalties from Formal Enforcement Actions (5 years)	$0
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Major, Permit Effective (PR0022420)

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PR0000049189)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details
Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110012286560					N	18.377998	-65.892405
ICIS		44492					N	18.377617	-65.895038
RMP	CAA	100000121414		INACTIVE			N	18.376667	-65.892222
ICIS-NPDES	CWA	PR0022420	Major: NPDES Individual Permit	Effective		08/31/2026	N	18.379972	-65.892778
RCRAInfo	RCRA	PR0000049189	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110012286560	PRASA CANOVANAS WTP	PR-3 KM 17.3, CANOVANAS, PR 00729	Canóvanas Municipio
ICIS		44492	PRASA CANOVANAS WTP	STATE RD NO. 3, KM 17.3, CANOVANAS, PR 00729	Canóvanas Municipio
RMP	CAA	100000121414	CAN ├┤ VANAS FILTRATION PLANT	CARR. 3, KM 17.4, CAN ├┤ VANAS, PR 00729	Canóvanas Municipio
ICIS-NPDES	CWA	PR0022420	PRASA CANOVANAS WTP	ROAD 3, KM 14.3, CANOVANAS, PR 00629	Canóvanas Municipio
RCRAInfo	RCRA	PR0000049189	PRASA CANOVANAS FILTER PLANT	65 INFANTRY KM 15.3, CANOVANAS, PR 00729	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	PR0022420	4941	Water Supply

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RMP	100000121414	22131	Water Supply and Irrigation Systems

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description
PR0022420	000	No Applicable Effluent Guidelines

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
CWA	*PR0022420*	*ICIS-NPDES*	*Offsite Record Review*	*Base Program - Desk Audit*	*EPA*	*03/09/2021*	

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PR0022420	No	09/30/2024	0	03/07/2025
RCRA	PR0000049189	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type				QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	Q
	CWA (Source ID: PR0022420)				10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01
	Facility-Level Status				No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Quarterly Noncompliance Report History				Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Res Pe
	Pollutant	Disch Point	Mon Loc	Freq										
CWA	Chlorine, total residual <effluent-charts#pr0022420/50060> [redacted] <https://epa.gov/effluent-charts#pr0022420/50060>	001 - A	Effluent Gross	NMth	173%		1355%	3536%	3264%	173%				
CWA	Color [PT-CO units] <effluent-charts#pr0022420/00080> [redacted] <https://epa.gov/effluent-charts#pr0022420/00080>	001 - A	Effluent Gross	NMth	LIMIT VIOLATION									

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
	RCRA (Source ID: PR0000049189)		04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost
CWA	ICIS-NPDES	301	NPDES/PR0022420	Judicial	02-2011-0007	EPA	PRASA - Puerto Nuevo Regional WWTP et al.	09/15/2015	2	05/23/2016	$0	--	--	--	$700,000,000
										03/22/2024	$0	--	--	--	$530,000,000

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100050413	Rio Canovanas	CANOVANAS RIVER	No	No	BOD, 5-day, 20 deg. C | Oxygen, dissolved (DO)	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PRER14B	RIO CANOVANAS	Impaired - 303(d) Listed - With Restoration Plan	ORGANIC ENRICHMENT/OXYGEN DEPLETION | PATHOGENS	Insufficient Information	Not Supporting	--	Not Supporting	--

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings

DMR and TRI Multi-Year Loading Report

NPDES ID	Description	2019	2020	2021	2022	2023
PR0022420	DMR Pollutant Loadings (lb/year)	2,754	14,811	319,037	24,042	20,620
PR0022420	DMR Pollutant Loadings - Load Over Limit (lb/year)	140	50.93	68.28	336	6.88
PR0022420	DMR Conventional Loadings (lb/year)	--	--	--	19,993	--
PR0022420	DMR Conventional Loadings - Load Over Limit (lb/year)	--	--	--	0	--
PR0022420	DMR Toxic-Weighted Loadings (lb-eq/year)	82.39	107	344	640	260
PR0022420	DMR Toxic-Weighted Loadings - Load Over Limit (lb-eq/year)	70.04	25.47	34.14	168	3.44

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	8,766
Population Density	2,836/sq.mi.
Housing Units in Area	3,556
Percent People of Color	100%
Households in Area	3,077
Households on Public Assistance	125
Persons With Low Income	4,926
Percent With Low Income	56%

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	293 (3%)
Minors 17 years and younger	1,787 (20%)
Adults 18 years and older	6,978 (80%)
Seniors 65 years and older	1,317 (15%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,680 (31%)
African-American	1,347 (15%)
Hispanic-Origin	8,738 (100%)

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.377998
Center Longitude	-65.892405
Total Area	3.121 sq.mi.
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	625 (20.3%)
$15,000 - $25,000	433 (14.06%)
$25,000 - $50,000	861 (27.96%)
$50,000 - $75,000	448 (14.55%)
Greater than $75,000	712 (23.12%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
Asian	33 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	23 (0%)
Other/Multiracial	2,877 (33%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	594 (9.94%)
9th through 12th Grade	265 (4.44%)
High School Diploma	1,241 (20.77%)
Some College/2-year	795 (13.31%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,117 (35.44%)

Detailed Facility Report

Facility Summary

SUPERMERCADOS ECONO NEW WAREHOUSE AND DISTRIBUTION CENTER

ROAD PR-3 AND PR-9959, KM 15.21, CANOVANILLAS WAR, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110070215185

EPA Region: 02

Latitude: 18.3733

Longitude: -65.9068

Locational Data Source: NPDES

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	Terminated Permit
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Terminated; Compliance Tracking Off (PRR10004F)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070215185					N	18.3733	-65.9068
ICIS-NPDES	CWA	PRR10004F	Non-Major: General Permit Covered Facility	Terminated; Compliance Tracking Off	Construction Stormwater	02/15/2022	N	18.3733	-65.9068

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070215185	SUPERMERCADOS ECONO NEW WAREHOUSE AND DISTRIBUTION CENTER	ROAD PR-3 AND PR-9959, KM 15.21, CANOVANILLAS WAR, CANOVANAS, PR 00729	Canóvanas Municipio
ICIS-NPDES	CWA	PRR10004F	SUPERMERCADOS ECONO NEW WAREHOUSE AND DISTRIBUTION CENTER	ROAD PR-3 AND PR-9959, KM 15.21, CANOVANILLAS WAR, CANOVANAS, PR 00729	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRR10004F	No	09/30/2024	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
CWA (Source ID: PRR10004F)		10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24
	Facility-Level Status	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit
	Quarterly Noncompliance Report History											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100050414	Rio Grande de Loiza at mouth	BOCAFORMA CREEK, CAMBUTE CREEK, PALUSTRINE WETLAND	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PREE14A	RIO GRANDE DE LOIZA ESTUARY	Impaired - With Restoration Plan	PATHOGENS	--	Insufficient Information	--	Not Supporting	--

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings

DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	10,537
Population Density	3,425/sq.mi.
Housing Units in Area	4,272
Percent People of Color	100%
Households in Area	3,693
Households on Public Assistance	107
Persons With Low Income	6,077
Percent With Low Income	58%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.3733
Center Longitude	-65.9068
Total Area	3.121 sq.mi.
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	691 (18.73%)
$15,000 - $25,000	622 (16.86%)
$25,000 - $50,000	1,039 (28.16%)
$50,000 - $75,000	637 (17.27%)
Greater than $75,000	700 (18.98%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	301 (3%)
Minors 17 years and younger	1,670 (16%)
Adults 18 years and older	8,867 (84%)
Seniors 65 years and older	2,027 (19%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,109 (30%)
African-American	2,111 (20%)
Hispanic-Origin	10,506 (100%)
Asian	4 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	4 (0%)
Other/Multiracial	2,839 (27%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	449 (5.73%)
9th through 12th Grade	412 (5.26%)
High School Diploma	1,941 (24.78%)
Some College/2-year	992 (12.66%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,842 (36.28%)

Detailed Facility Report

Facility Summary

CENTRO DE DISTRIBUCION - SUPERMERCADOS ECONO, INC.

PR-3, INT. PR-9959, KM 15.21, CANOVANILLAS WARD, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110071222992

EPA Region: 02

Latitude: 18.375719

Longitude: -65.906789

Locational Data Source: NPDES

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Effective (PRR05J02S)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110071222992					N	18.375719	-65.906789
ICIS-NPDES	CWA	PRR05J02S	Non-Major: General Permit Covered Facility	Effective	Industrial Stormwater	02/28/2026	N	18.373567	-65.906283

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110071222992	CENTRO DE DISTRIBUCION - SUPERMERCADOS ECONO, INC.	PR-3, INT. PR-9959, KM 15.21, CANOVANILLAS WARD, CANOVANAS, PR 00729	Canóvanas Municipio
ICIS-NPDES	CWA	PRR05J02S	CENTRO DE DISTRIBUCION - SUPERMERCADOS ECONO, INC.	PR-3, INT. PR-9959, KM 15.21, CANOVANILLAS WARD, CANOVANAS, PR 00729	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	PRR05J02S	4222	Refrigerated Warehousing And Storage
ICIS-NPDES	PRR05J02S	4225	General Warehousing And Storage

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRR05J02S	No	09/30/2024	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
CWA (Source ID: PRR05J02S)		10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Quarterly Noncompliance Report History											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100050414	Rio Grande de Loiza at mouth	BOCAFORMA CREEK WETLAND	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PREE14A	RIO GRANDE DE LOIZA ESTUARY	Impaired - With Restoration Plan	PATHOGENS	--	Insufficient Information	--	Not Supporting	--

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings

DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	10,166
Population Density	3,315/sq.mi.
Housing Units in Area	4,190
Percent People of Color	100%
Households in Area	3,607
Households on Public Assistance	109
Persons With Low Income	6,064
Percent With Low Income	60%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.375719
Center Longitude	-65.906789
Total Area	3.121 sq.mi.
Land Area	98%
Water Area	2%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	713 (19.77%)
$15,000 - $25,000	633 (17.55%)
$25,000 - $50,000	1,030 (28.56%)
$50,000 - $75,000	605 (16.78%)
Greater than $75,000	625 (17.33%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	282 (3%)
Minors 17 years and younger	1,601 (16%)
Adults 18 years and older	8,565 (84%)
Seniors 65 years and older	2,025 (20%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,902 (29%)
African-American	2,122 (21%)
Hispanic-Origin	10,136 (100%)
Asian	4 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	3 (0%)
Other/Multiracial	2,800 (28%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	469 (6.2%)
9th through 12th Grade	423 (5.59%)
High School Diploma	1,919 (25.35%)
Some College/2-year	968 (12.79%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,649 (35%)

16

Detailed Facility Report

Facility Summary

BRISAS DE LOIZA STP

PR-874 KM 7.1, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110007803939

EPA Region: 02

Latitude: 18.373688

Longitude: -65.901655

Locational Data Source: RCRAINFO

Industries: Utilities

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD000689331)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007803939					N	18.373688	-65.901655
RCRAInfo	RCRA	PRD000689331	Other	Inactive ( )			N	18.373688	-65.901655

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007803939	BRISAS DE LOIZA STP	PR-874 KM 7.1, CANOVANAS, PR 00729	Canóvanas Municipio
RCRAInfo	RCRA	PRD000689331	BRISAS DE LOIZA STP	STATE RD 874 KM 7.1, CANOVANAS, PR 00629	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	PRD000689331	22132	Sewage Treatment Facilities

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRD000689331	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRD000689331)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	10,522
Population Density	3,416/sq.mi.
Housing Units in Area	4,158
Percent People of Color	100%
Households in Area	3,621
Households on Public Assistance	101
Persons With Low Income	5,837
Percent With Low Income	56%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.373688
Center Longitude	-65.901655
Total Area	3.121 sq.mi.
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	648 (17.88%)
$15,000 - $25,000	541 (14.92%)
$25,000 - $50,000	1,073 (29.6%)
$50,000 - $75,000	594 (16.39%)
Greater than $75,000	769 (21.21%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	319 (3%)
Minors 17 years and younger	1,761 (17%)
Adults 18 years and older	8,759 (83%)
Seniors 65 years and older	1,891 (18%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,118 (30%)
African-American	2,051 (19%)
Hispanic-Origin	10,493 (100%)
Asian	15 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	12 (0%)
Other/Multiracial	2,827 (27%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	429 (5.58%)
9th through 12th Grade	378 (4.92%)
High School Diploma	1,756 (22.85%)
Some College/2-year	1,016 (13.22%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,882 (37.51%)

Detailed Facility Report

Facility Summary

EXTENSION CANOVANAS PLAZA RIAL II

CARR. PR-185 KM 0.07, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110070568020

EPA Region: 02

Latitude: 18.3731

Longitude: -65.9014

Locational Data Source: NPDES

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	Terminated Permit
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Terminated; Compliance Tracking Off (PRR10008A), Non-Major, Permit Terminated; Compliance Tracking Off (PRR10008F)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070568020					N	18.3731	-65.9014
ICIS-NPDES	CWA	PRR10008A	Non-Major: General Permit Covered Facility	Terminated; Compliance Tracking Off	Construction Stormwater	02/15/2022	N	18.3731	-65.9014
ICIS-NPDES	CWA	PRR10008F	Non-Major: General Permit Covered Facility	Terminated; Compliance Tracking Off	Construction Stormwater	02/15/2022	N	18.3731	-65.9014

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070568020	EXTENSION CANOVANAS PLAZA RIAL II	CARR. PR-185 KM 0.07, CANOVANAS, PR 00729	Canóvanas Municipio
ICIS-NPDES	CWA	PRR10008A	EXTENSION CANOVANAS PLAZA RIAL II	CARR. PR-185 KM 0.07, CANOVANAS, PR 00729	
ICIS-NPDES	CWA	PRR10008F	EXTENSION CANOVANAS PLAZA RIAL II	CARR. PR-185 KM 0.07, CANOVANAS, PR 00729	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRR10008A	No	09/30/2024	0	03/07/2025
CWA	PRR10008F	No	09/30/2024	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
CWA (Source ID: PRR10008A)		10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24
	Facility-Level Status	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit
	Quarterly Noncompliance Report History											
CWA (Source ID: PRR10008F)		10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24
	Facility-Level Status	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit	Terminated Permit
	Quarterly Noncompliance Report History											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100050414	Rio Grande de Loiza at mouth	BOCAFORMA CREEK	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PREE14A	RIO GRANDE DE LOIZA ESTUARY	Impaired - With Restoration Plan	PATHOGENS	--	Insufficient Information	--	Not Supporting	--

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings

DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	10,556
Population Density	3,425/sq.mi.
Housing Units in Area	4,150
Percent People of Color	100%
Households in Area	3,624
Households on Public Assistance	101
Persons With Low Income	5,803
Percent With Low Income	55%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.3731
Center Longitude	-65.9014
Total Area	3.121 sq.mi.
Land Area	99%

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	320 (3%)
Minors 17 years and younger	1,778 (17%)
Adults 18 years and older	8,779 (83%)
Seniors 65 years and older	1,879 (18%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,140 (30%)
African-American	2,045 (19%)
Hispanic-Origin	10,527 (100%)
Asian	16 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	13 (0%)
Other/Multiracial	2,825 (27%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	424 (5.51%)

Geography	
Water Area	1%
Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	637 (17.6%)
$15,000 - $25,000	533 (14.72%)
$25,000 - $50,000	1,070 (29.56%)
$50,000 - $75,000	593 (16.38%)
Greater than $75,000	787 (21.74%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
9th through 12th Grade	369 (4.79%)
High School Diploma	1,741 (22.62%)
Some College/2-year	1,021 (13.26%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,908 (37.78%)

Detailed Facility Report

Facility Summary

AMERICAN PROPERTIES CORP

PR-874 KM 1.1, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110007810495

EPA Region: 02

Latitude: 18.373481

Longitude: -65.900869

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	12/22/1998
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD987369675)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007810495					N	18.373481	-65.900869
RCRAInfo	RCRA	PRD987369675	Other	Inactive ( )			N	18.373481	-65.900869

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007810495	AMERICAN PROPERTIES CORP	PR-874 KM 1.1, CANOVANAS, PR 00729	Canóvanas Municipio
RCRAInfo	RCRA	PRD987369675	AMERICAN PROPERTIES CORP	STATE RD 874 KM 1.1, CANOVANAS, PR 00629	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRD987369675	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRD987369675)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	10,415
Population Density	3,379/sq.mi.
Housing Units in Area	4,078
Percent People of Color	100%
Households in Area	3,570
Households on Public Assistance	99
Persons With Low Income	5,690
Percent With Low Income	55%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.373481
Center Longitude	-65.900869
Total Area	3.121 sq.mi.
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	625 (17.52%)
$15,000 - $25,000	512 (14.35%)
$25,000 - $50,000	1,059 (29.68%)
$50,000 - $75,000	584 (16.37%)
Greater than $75,000	788 (22.09%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	313 (3%)
Minors 17 years and younger	1,778 (17%)
Adults 18 years and older	8,637 (83%)
Seniors 65 years and older	1,827 (18%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,106 (30%)
African-American	2,017 (19%)
Hispanic-Origin	10,386 (100%)
Asian	17 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	13 (0%)
Other/Multiracial	2,787 (27%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	420 (5.56%)
9th through 12th Grade	361 (4.78%)
High School Diploma	1,681 (22.24%)
Some College/2-year	1,004 (13.28%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,871 (37.98%)

19,21

Showing reports **1** to **2** of 2

Detailed Facility Report

Facility Summary

ALUMINUM EXTRUSSION CORP

PR-185 KM 0.65, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110007805688

EPA Region: 02

Latitude: 18.373702

Longitude: -65.899955

Locational Data Source: TRIS

Industries: Fabricated Metal Product Manufacturing

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	01/21/2004
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD090000068), Inactive Other, (PRN008011124)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): 00629LMNMP185RO

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details
Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007805688					N	18.373702	-65.899955
TRI	EP313	00629LMNMP185RO	Toxics Release Inventory	Last Reported for 1992			N	18.373702	-65.899955
RCRAInfo	RCRA	PRD090000068	Other	Inactive ( )			N	18.373702	-65.899955
RCRAInfo	RCRA	PRN008011124	Other	Inactive ( )			N	18.373702	-65.899955

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007805688	ALUMINUM EXTRUSSION CORP	PR-185 KM 0.65, CANOVANAS, PR 00729	Canóvanas Municipio
TRI	EP313	00629LMNMP185RO	ALUMINUM PROCESSING CORP	185 STATE RD KM 065, CANOVANAS, PR 00729	Canóvanas Municipio
RCRAInfo	RCRA	PRD090000068	ALUMINUM EXTRUSSION CORP	RD 185 KM 0.65, CANOVANAS, PR 00629	Canóvanas Municipio
RCRAInfo	RCRA	PRN008011124	PERFILES DE ALUMINIO	STATE RD 185 KM 0.65, CANOVANAS, PR 00729-1622	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
TRI	00629LMNMP185RO	3354	Aluminum Extruded Products
TRI	00629LMNMP185RO	3471	Plating And Polishing

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
TRI	00629LMNMP185RO	332813	Electroplating, Plating, Polishing, Anodizing, and Coloring
RCRAInfo	PRD090000068	331316	Aluminum Extruded Product Manufacturing

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRD090000068	No	03/08/2025	0	03/07/2025
RCRA	PRN008011124	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRD090000068)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											
RCRA (Source ID: PRN008011124)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	10,155
Population Density	3,294/sq.mi.
Housing Units in Area	3,950
Percent People of Color	100%
Households in Area	3,470
Households on Public Assistance	96
Persons With Low Income	5,462
Percent With Low Income	54%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.373702
Center Longitude	-65.899955
Total Area	3.121 sq.mi.
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	598 (17.25%)
$15,000 - $25,000	478 (13.79%)
$25,000 - $50,000	1,028 (29.66%)
$50,000 - $75,000	567 (16.36%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	306 (3%)
Minors 17 years and younger	1,781 (18%)
Adults 18 years and older	8,375 (82%)
Seniors 65 years and older	1,725 (17%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,053 (30%)
African-American	1,932 (19%)
Hispanic-Origin	10,126 (100%)
Asian	20 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	15 (0%)
Other/Multiracial	2,723 (27%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	403 (5.52%)
9th through 12th Grade	336 (4.6%)
High School Diploma	1,578 (21.6%)
Some College/2-year	976 (13.36%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,816 (38.54%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Greater than $75,000	795 (22.94%)

Detailed Facility Report

Facility Summary

ALUMINUM EXTRUSION CORPORATION

STATE ROAD 185 KM. 0.65, CANOVANAS MUNICIPALITY, PR 00729

FRS (Facility Registry Service) ID: 110071099921

EPA Region: 02

Latitude: 18.375556

Longitude: -65.898889

Locational Data Source: SEMS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

No data records returned

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110071099921					N	18.375556	-65.898889
SEMS	CERCLA	PRD090000068		NOT ON THE NPL			N	18.375556	-65.898889

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110071099921	ALUMINUM EXTRUSION CORPORATION	STATE ROAD 185 KM. 0.65, CANOVANAS MUNICIPALITY, PR 00729	Canóvanas Municipio
SEMS	CERCLA	PRD090000068	ALUMINUM EXTRUSION CORPORATION	STATE ROAD 185 KM. 0.65, CANOVANAS MUNICIPALITY, PR 00729	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed

No data records returned

Three-Year Compliance History by Quarter

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	9,501
Population Density	3,086/sq.mi.
Housing Units in Area	3,706
Percent People of Color	100%
Households in Area	3,253
Households on Public Assistance	96
Persons With Low Income	5,118
Percent With Low Income	54%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.375556
Center Longitude	-65.898889
Total Area	3.121 sq.mi.
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	578 (17.77%)
$15,000 - $25,000	441 (13.56%)
$25,000 - $50,000	962 (29.57%)
$50,000 - $75,000	519 (15.95%)
Greater than $75,000	753 (23.15%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	278 (3%)
Minors 17 years and younger	1,718 (18%)
Adults 18 years and older	7,784 (82%)
Seniors 65 years and older	1,556 (16%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,883 (30%)
African-American	1,789 (19%)
Hispanic-Origin	9,472 (100%)
Asian	22 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	16 (0%)
Other/Multiracial	2,581 (27%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	386 (5.71%)
9th through 12th Grade	316 (4.67%)
High School Diploma	1,421 (21.02%)
Some College/2-year	898 (13.28%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,616 (38.7%)

Detailed Facility Report

Facility Summary

PROJECT POUCH INC NSC PR INC

PR-185 KM 0.6, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110015588078

EPA Region: 02

Latitude: 18.374136

Longitude: -65.899812

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRN008012734)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110015588078					N	18.374136	-65.899812
RCRAInfo	RCRA	PRN008012734	Other	Inactive ( )			N	18.374136	-65.899812

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110015588078	PROJECT POUCH INC NSC PR INC	PR-185 KM 0.6, CANOVANAS, PR 00729	Canóvanas Municipio
RCRAInfo	RCRA	PRN008012734	PROJECT POUCH INC NSC PR INC	RD 185 KM 0.6, CANOVANAS, PR 00729	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRN008012734	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRN008012734)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	10,048
Population Density	3,261/sq.mi.
Housing Units in Area	3,912
Percent People of Color	100%
Households in Area	3,437
Households on Public Assistance	97
Persons With Low Income	5,412
Percent With Low Income	54%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.374136
Center Longitude	-65.899812
Total Area	3.121 sq.mi.
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	599 (17.43%)
$15,000 - $25,000	473 (13.76%)
$25,000 - $50,000	1,019 (29.65%)
$50,000 - $75,000	560 (16.29%)
Greater than $75,000	786 (22.87%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	300 (3%)
Minors 17 years and younger	1,769 (18%)
Adults 18 years and older	8,279 (82%)
Seniors 65 years and older	1,700 (17%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,027 (30%)
African-American	1,911 (19%)
Hispanic-Origin	10,019 (100%)
Asian	20 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	15 (0%)
Other/Multiracial	2,699 (27%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	403 (5.58%)
9th through 12th Grade	334 (4.63%)
High School Diploma	1,554 (21.53%)
Some College/2-year	964 (13.36%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,780 (38.51%)

22

Detailed Facility Report

Facility Summary

TANAMA FARMS

PR-185 KM 0.9 AGATA ST FINAL, CANOVANAS, PR 00729

FRS (Facility Registry Service) ID: 110012565795

EPA Region: 02

Latitude: 18.37413

Longitude: -65.89509

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRN008011173)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110012565795					N	18.37413	-65.89509
RCRAInfo	RCRA	PRN008011173	Other	Inactive ( )			N	18.371545	-65.900662

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110012565795	TANAMA FARMS	PR-185 KM 0.9 AGATA ST FINAL, CANOVANAS, PR 00729	Canóvanas Municipio
RCRAInfo	RCRA	PRN008011173	TANAMA FARMS	RD 185 KM 0.9 AGATA ST FINAL, CANOVANAS, PR 00729	Canóvanas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRN008011173	No	03/08/2025	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRN008011173)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	8,837
Population Density	2,859/sq.mi.
Housing Units in Area	3,346
Percent People of Color	100%
Households in Area	2,989
Households on Public Assistance	92
Persons With Low Income	4,345
Percent With Low Income	49%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.37413
Center Longitude	-65.89509
Total Area	3.121 sq.mi.
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	479 (16.02%)
$15,000 - $25,000	338 (11.3%)
$25,000 - $50,000	855 (28.6%)
$50,000 - $75,000	490 (16.39%)
Greater than $75,000	828 (27.69%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	260 (3%)
Minors 17 years and younger	1,807 (20%)
Adults 18 years and older	7,028 (80%)
Seniors 65 years and older	1,190 (13%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,860 (32%)
African-American	1,340 (15%)
Hispanic-Origin	8,808 (100%)
Asian	32 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	25 (0%)
Other/Multiracial	2,499 (28%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	308 (5.13%)
9th through 12th Grade	209 (3.48%)
High School Diploma	1,081 (17.99%)
Some College/2-year	824 (13.71%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,553 (42.49%)

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Property Details for SOLARES 1 y 2 DEL L-367-0-76 (SITE 23)

23

On this page:

- Profile Information
- Property Location
- Property Progress
- CAs Associated with this Property
- Assessment Activities at this Property
- Climate Adaption and Mitigation - Planning or Assessment
- Contaminants and Media
- Cleanup Activities
- Climate Adaption and Mitigation - Demolition or Cleanup
- Institutional & Engineering Controls
- Redevelopment and Other Leveraged Accomplishments
- Climate Adaption and Mitigation - Redevelopment
- Additional Property Attributes

Legal Notices <https://www.epa.gov/cleanups/cimc-legal-notices>

Profile Information

Property Alias	
Property Owner	**Government**
ACRES Property ID	**149761**
Property Address	**PR-185 Km. 0.9, Street No. 3, Industrial Park Pueblo Ward Canovanas, PR 00729**
Size	**4.35**
Parcel Numbers	
Latitude/Longitude	**18.372623 / -65.902493**
Congressional District	**1**
Property Contact	**P&#65533;z-Plaza, Lydia** **irizarryileana@hotmail.com** **787-256-6878**

Top of Pag

Property Location

Top of Pag

Property Progress

Assessment	☑
Clean Up	✗
Institutional Controls in Place	✗
Engineering Controls in Place	✗
Ready for Anticipated Use	✗
Redevelopment Underway	✗

Top of Pag

CAs Associated with this Property

CA Name	CA #	State	Type	Announcement Year
Canovanas, Municipality of	BF97243208	PR	Assessment	2008

Top of Pag

Assessment Activities at this Property

Activity	EPA Funding	Start Date	Completion Date	CA	Accomplishment Counted?	Counted When?
Phase I Environmental Assessment	$3,000.00	07/14/2011	12/09/2011	Canovanas, Municipality of	Y	FY12

Is Cleanup Necessary? **Unknown**
EPA Assessment Funding: **$3,000.00**

Leveraged Funding:
Total Funding: **$3,000.00**

Top of Pag

Climate Adaption and Mitigation - Planning or Assessment

There is no data for Climate Adaption and Mitigation - Planning or Assessment.

Top of Pag

Contaminants and Media

Contaminant Found
Petroleum Products
Media Affected
Soil

Remediating Action for Contaminants
NOT Cleaned up
Remediating Action for Media
NOT Cleaned up

Top of Pag

Cleanup Activities

There are no current cleanup activities.

Cleanup/Treatment Implemented:
Cleanup/Treatement Categories:
Addl Cleanup/Treatment info:
Address of Data Source:

Top of Pag

Climate Adaption and Mitigation - Demolition or Cleanup

There is no data for Climate Adaption and Mitigation - Demolition or Cleanup.

Top of Pag

Institutional and Engineering Controls

Indicate whether Institutional Controls are required	**U**
Categories of Controls	
Additional Institutional Controls Information	
Address of Data Source (URL if available)	
Are Institutional Controls in Place	**No**
Date Institutional Controls were put in place	
Indicate whether Engineering Controls are required	**U**
Categories of Controls	
Additional Engineering controls information	
Address of Data Source (URL if available)	
Indicate whether Engineering Controls are in place	**No**
Date Engineering Controls were put in place	

Top of Pag

Redevelopment and Other Leveraged Accomplishments

There are no current redevelopment activities.

Number of Redevelopment Jobs Leveraged:

Actual Acreage of Greenspace Created:

Leveraged Funding:

Top of Pag

Climate Adaption and Mitigation - Redevelopment

There is no data for Climate Adaption and Mitigation – Redevelopment

Top of Pag

Additional Property Attributes

Property Highlights	**Former Use: The Property has been a vacant lot covered with vegetation at least since 1937 until 2011, exce for the mechanical shop operation located at the east of the Property. The property is owned by the Puerto Rico Industrial Development Company (PRIDCO).**
Predominant Past Usage	**Greenspace (4.35)**
What types of funding are being used on this property?	**Hazardous**
State and Tribal Program Information	
Date No Further Action Letter Received	
Date Letter/Signed Report Received from a Qualified Professional	
Other Cleanup Documentation	

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24

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Property Details for Downtown's Old Dairy (Site 1-H)

On this page:

- Profile Information
- Property Location
- Property Progress
- CAs Associated with this Property
- Assessment Activities at this Property
- Climate Adaption and Mitigation - Planning or Assessment
- Contaminants and Media
- Cleanup Activities
- Climate Adaption and Mitigation - Demolition or Cleanup
- Institutional & Engineering Controls
- Redevelopment and Other Leveraged Accomplishments
- Climate Adaption and Mitigation - Redevelopment
- Additional Property Attributes

Legal Notices <https://www.epa.gov/cleanups/cimc-legal-notices>

Profile Information

Property Alias	**Site 1-H**
Property Owner	**Government**
ACRES Property ID	**239394**
Property Address	**Autonom&#65533;Street and Mu&#65533;oz Rivera Street corner CANOVANAS, PR 00729**
Size	**.12**
Parcel Numbers	**089-086-017-08-901**
Latitude/Longitude	**18.37868327 / -65.90159636**
Congressional District	**1**
Property Contact	**P&#65533;z-Plaza, Lydia** **irizarryileana@hotmail.com** **787-256-6878**

Top of Pag

Property Location

Top of Pag

Property Progress

Assessment
Clean Up
Institutional Controls in Place
Engineering Controls in Place
Ready for Anticipated Use
Redevelopment Underway

Top of Pag

CAs Associated with this Property

CA Name	CA #	State	Type	Announcement Year
Canovanas, Municipality of	BF97243208	PR	Assessment	2008

Top of Pag

Assessment Activities at this Property

Activity	EPA Funding	Start Date	Completion Date	CA	Accomplishment Counted?	Counted When?
Phase I Environmental Assessment	$4,731.00	11/15/2017	01/30/2018	Canovanas, Municipality of	Y	FY22

Is Cleanup Necessary? **No**
EPA Assessment Funding: **$4,731.00**

Leveraged Funding:
Total Funding: **$4,731.00**

Top of Pag

Climate Adaption and Mitigation - Planning or Assessment

There is no data for Climate Adaption and Mitigation - Planning or Assessment.

Top of Pag

Contaminants and Media

Contaminant Found
Unknown

Media Affected

Remediating Action for Contaminants

Remediating Action for Media

Top of Pag

Cleanup Activities

There are no current cleanup activities.

Cleanup/Treatment Implemented:
Cleanup/Treatement Categories:
Addl Cleanup/Treatment info:
Address of Data Source:

Top of Pag

Climate Adaption and Mitigation - Demolition or Cleanup

There is no data for Climate Adaption and Mitigation - Demolition or Cleanup.

Top of Pag

Institutional and Engineering Controls

Indicate whether Institutional Controls are required	**U**
Categories of Controls	
Additional Institutional Controls Information	
Address of Data Source (URL if available)	
Are Institutional Controls in Place	
Date Institutional Controls were put in place	
Indicate whether Engineering Controls are required	
Categories of Controls	
Additional Engineering controls information	
Address of Data Source (URL if available)	
Indicate whether Engineering Controls are in place	
Date Engineering Controls were put in place	

Top of Pag

Redevelopment and Other Leveraged Accomplishments

There are no current redevelopment activities.

Number of Redevelopment Jobs Leveraged:

Actual Acreage of Greenspace Created:

Leveraged Funding:

Top of Pag

Climate Adaption and Mitigation - Redevelopment

There is no data for Climate Adaption and Mitigation – Redevelopment

Top of Pag

Additional Property Attributes

Property Highlights	**Former Use: The history of the Subject Site occurs parallel to the development of the town around 1917 whe cattle rancher Jos&#65533;lores Mundo built his dairy and warehouse on the site. Later on, the structure became a apothecary, the municipal's bucher shop, and dwelling of the Mundo Pag&#65533;Family. The structure was abandoned in 1972.**
Predominant Past Usage	**Commercial (.12)**
What types of funding are being used on this property?	**Hazardous**
State and Tribal Program Information	
Date No Further Action Letter Received	
Date Letter/Signed Report Received from a Qualified Professional	
Other Cleanup Documentation	

Top of Pag

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Property Details for TWO ADJACENT ABANDONED RESIDENCES (SITE 9-H)

On this page:

- Profile Information
- Property Location
- Property Progress
- CAs Associated with this Property
- Assessment Activities at this Property
- Climate Adaption and Mitigation - Planning or Assessment
- Contaminants and Media
- Cleanup Activities
- Climate Adaption and Mitigation - Demolition or Cleanup
- Institutional & Engineering Controls
- Redevelopment and Other Leveraged Accomplishments
- Climate Adaption and Mitigation - Redevelopment
- Additional Property Attributes

Legal Notices <https://www.epa.gov/cleanups/cimc-legal-notices>

Profile Information

Property Alias	**SITE 9-H**
Property Owner	**Government**
ACRES Property ID	**239395**
Property Address	**#76 & # 78 Pepita Albandoz Street Can&#65533;vanas, PR 00729**
Size	**.12**
Parcel Numbers	
Latitude/Longitude	**18.378073174550153 / -65.89985847473146**
Congressional District	**1**
Property Contact	**P&#65533;z-Plaza, Lydia** **irizarryileana@hotmail.com** **787-256-6878**

Top of Pag

Property Location

Top of Pag

Property Progress

Assessment
Clean Up
Institutional Controls in Place
Engineering Controls in Place
Ready for Anticipated Use
Redevelopment Underway

Top of Pag

CAs Associated with this Property

CA Name	CA #	State	Type	Announcement Year
Canovanas, Municipality of	BF97243208	PR	Assessment	2008

Top of Pag

Assessment Activities at this Property

Activity	EPA Funding	Start Date	Completion Date	CA	Accomplishment Counted?	Counted When?
Phase I Environmental Assessment	$4,731.00	11/21/2017	01/31/2018	Canovanas, Municipality of	Y	FY22

Is Cleanup Necessary? **No**
EPA Assessment Funding: **$4,731.00**

Leveraged Funding:
Total Funding: **$4,731.00**

Top of Pag

Climate Adaption and Mitigation - Planning or Assessment

There is no data for Climate Adaption and Mitigation - Planning or Assessment.

Top of Pag

Contaminants and Media

Contaminant Found
Unknown

Media Affected

Remediating Action for Contaminants

Remediating Action for Media

Top of Pag

Cleanup Activities

There are no current cleanup activities.

Cleanup/Treatment Implemented:
Cleanup/Treatement Categories:
Addl Cleanup/Treatment info:
Address of Data Source:

Top of Pag

Climate Adaption and Mitigation - Demolition or Cleanup

There is no data for Climate Adaption and Mitigation - Demolition or Cleanup.

Top of Pag

Institutional and Engineering Controls

Indicate whether Institutional Controls are required	**U**
Categories of Controls	
Additional Institutional Controls Information	
Address of Data Source (URL if available)	
Are Institutional Controls in Place	
Date Institutional Controls were put in place	
Indicate whether Engineering Controls are required	
Categories of Controls	
Additional Engineering controls information	
Address of Data Source (URL if available)	
Indicate whether Engineering Controls are in place	
Date Engineering Controls were put in place	

Top of Pag

Redevelopment and Other Leveraged Accomplishments

There are no current redevelopment activities.

Number of Redevelopment Jobs Leveraged:

Actual Acreage of Greenspace Created:

Leveraged Funding:

Top of Pag

Climate Adaption and Mitigation - Redevelopment

There is no data for Climate Adaption and Mitigation – Redevelopment

Top of Pag

Additional Property Attributes

Property Highlights	**Former Use: The Subject Site has been used as residence for at least 45 years.**
Predominant Past Usage	**Residential (.12)**
What types of funding are being used on this property?	**Hazardous**
State and Tribal Program Information	
Date No Further Action Letter Received	
Date Letter/Signed Report Received from a Qualified Professional	
Other Cleanup Documentation	

Top of Pag

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26

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Property Details for ABANDONED GAS STATION (192) (SITE 1-P)

On this page:

- Profile Information
- Property Location
- Property Progress
- CAs Associated with this Property
- Assessment Activities at this Property
- Climate Adaption and Mitigation - Planning or Assessment
- Contaminants and Media
- Cleanup Activities
- Climate Adaption and Mitigation - Demolition or Cleanup
- Institutional & Engineering Controls
- Redevelopment and Other Leveraged Accomplishments
- Climate Adaption and Mitigation - Redevelopment
- Additional Property Attributes

Legal Notices <https://www.epa.gov/cleanups/cimc-legal-notices>

Profile Information

Property Alias	**Site 1-P**
Property Owner	**Private**
ACRES Property ID	**239399**
Property Address	**PALMER STREET (PR-9959) KM 1.1 CANOVANAS, PR 00729**
Size	**.32**
Parcel Numbers	**089-077-036-03-000**
Latitude/Longitude	**18.3807230 / -65.8979020**
Congressional District	**1**
Property Contact	**P&#65533;z-Plaza, Lydia** **irizarryileana@hotmail.com** **787-256-6878**

Top of Pag

Property Location

Top of Pag

Property Progress

Assessment
Clean Up
Institutional Controls in Place
Engineering Controls in Place
Ready for Anticipated Use
Redevelopment Underway

Top of Pag

CAs Associated with this Property

CA Name	CA #	State	Type	Announcement Year
Canovanas, Municipality of	BF97243308	PR	Assessment	2008

Top of Pag

Assessment Activities at this Property

Activity	EPA Funding	Start Date	Completion Date	CA	Accomplishment Counted?	Counted When?
Phase I Environmental Assessment	$4,731.00	11/03/2017	02/28/2018	Canovanas, Municipality of	Y	FY22

Is Cleanup Necessary? **Unknown**
EPA Assessment Funding: **$4,731.00**

Leveraged Funding:
Total Funding: **$4,731.00**

Top of Pag

Climate Adaption and Mitigation - Planning or Assessment

There is no data for Climate Adaption and Mitigation - Planning or Assessment.

Top of Pag

Contaminants and Media

Contaminant Found
Media Affected

Remediating Action for Contaminants
Remediating Action for Media

Top of Pag

Cleanup Activities

There are no current cleanup activities.

Cleanup/Treatment Implemented:
Cleanup/Treatement Categories:
Addl Cleanup/Treatment info:
Address of Data Source:

Top of Pag

Climate Adaption and Mitigation - Demolition or Cleanup

There is no data for Climate Adaption and Mitigation - Demolition or Cleanup.

Top of Pag

Institutional and Engineering Controls

Indicate whether Institutional Controls are required	**U**
Categories of Controls	
Additional Institutional Controls Information	
Address of Data Source (URL if available)	
Are Institutional Controls in Place	
Date Institutional Controls were put in place	
Indicate whether Engineering Controls are required	
Categories of Controls	
Additional Engineering controls information	
Address of Data Source (URL if available)	
Indicate whether Engineering Controls are in place	
Date Engineering Controls were put in place	

Top of Pag

Redevelopment and Other Leveraged Accomplishments

There are no current redevelopment activities.

Number of Redevelopment Jobs Leveraged:

Actual Acreage of Greenspace Created:

Leveraged Funding:

Top of Pag

Climate Adaption and Mitigation - Redevelopment

There is no data for Climate Adaption and Mitigation – Redevelopment

Top of Pag

Additional Property Attributes

Property Highlights	**Former Use: From the historical aerial images is observed that the Subject Site was developed between the decades of the 1960's and the 1970's; where soil movement is observed during the 1960's, however it is not clear the type of construction. However, the use of the property as a gas station takes place more or less in the late 70's with the Chevron Gasoline Trademark, then during the decade of the 80's with Gulf Gasoline.**
Predominant Past Usage	**Commercial (.32)**
What types of funding are being used on this property?	**Petroleum**
State and Tribal Program Information	
Date No Further Action Letter Received	
Date Letter/Signed Report Received from a Qualified Professional	
Other Cleanup Documentation	

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27

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Property Details for ABANDONED MACHINE SHOP, TIRE CENTER(SITE 1.2017-P)

On this page:

- Profile Information
- Property Location
- Property Progress
- CAs Associated with this Property
- Assessment Activities at this Property
- Climate Adaption and Mitigation - Planning or Assessment
- Contaminants and Media
- Cleanup Activities
- Climate Adaption and Mitigation - Demolition or Cleanup
- Institutional & Engineering Controls
- Redevelopment and Other Leveraged Accomplishments
- Climate Adaption and Mitigation - Redevelopment
- Additional Property Attributes

Legal Notices <https://www.epa.gov/cleanups/cimc-legal-notices>

Profile Information

Property Alias	**Site 1-2017-P**
Property Owner	**Private**
ACRES Property ID	**239408**
Property Address	**BETWEEN PALMER STREET (NORTH) AND PEPITA ALBANDOZ STREET (SOUTH) CANOVANAS, PR 00729**
Size	**.11**
Parcel Numbers	**089-077-046-17-001**
Latitude/Longitude	**18.3803350 / -65.8958520**
Congressional District	**1**
Property Contact	**P&#65533;z-Plaza, Lydia** **irizarryileana@hotmail.com** **787-256-6878**

Top of Pag

Property Location

Top of Pag

Property Progress

Assessment
Clean Up
Institutional Controls in Place
Engineering Controls in Place
Ready for Anticipated Use
Redevelopment Underway

Top of Pag

CAs Associated with this Property

CA Name	CA #	State	Type	Announcement Year
Canovanas, Municipality of	BF97243308	PR	Assessment	2008

Top of Pag

Assessment Activities at this Property

Activity	EPA Funding	Start Date	Completion Date	CA	Accomplishment Counted?	Counted When?
Phase I Environmental Assessment	$4,731.00	02/02/2018	02/28/2018	Canovanas, Municipality of	Y	FY22

Is Cleanup Necessary? **No**
EPA Assessment Funding: **$4,731.00**

Leveraged Funding:
Total Funding: **$4,731.00**

Top of Pag

Climate Adaption and Mitigation - Planning or Assessment

There is no data for Climate Adaption and Mitigation - Planning or Assessment.

Top of Pag

Contaminants and Media

Contaminant Found
Media Affected

Remediating Action for Contaminants
Remediating Action for Media

Top of Pag

Cleanup Activities

There are no current cleanup activities.

Cleanup/Treatment Implemented:
Cleanup/Treatement Categories:
Addl Cleanup/Treatment info:
Address of Data Source:

Top of Pag

Climate Adaption and Mitigation - Demolition or Cleanup

There is no data for Climate Adaption and Mitigation - Demolition or Cleanup.

Top of Pag

Institutional and Engineering Controls

Indicate whether Institutional Controls are required	**U**
Categories of Controls	
Additional Institutional Controls Information	
Address of Data Source (URL if available)	
Are Institutional Controls in Place	
Date Institutional Controls were put in place	
Indicate whether Engineering Controls are required	
Categories of Controls	
Additional Engineering controls information	
Address of Data Source (URL if available)	
Indicate whether Engineering Controls are in place	
Date Engineering Controls were put in place	

Top of Pag

Redevelopment and Other Leveraged Accomplishments

There are no current redevelopment activities.

Number of Redevelopment Jobs Leveraged:

Actual Acreage of Greenspace Created:

Leveraged Funding:

Top of Pag

Climate Adaption and Mitigation - Redevelopment

There is no data for Climate Adaption and Mitigation – Redevelopment

Top of Pag

Additional Property Attributes

Property Highlights	**Former Use: Historical aerial images demonstrate that the subject site was built between the 1967 and 1977 Prior to 1967 only the western portion of Jardines de Can&#65533;vanas was built. Currently the Palmer Street has many small business along its alignment, as well as churches and schools making it one of the main streets the Municipality.**
Predominant Past Usage	**Commercial (.11)**
What types of funding are being used on this property?	**Petroleum**
State and Tribal Program Information	
Date No Further Action Letter Received	
Date Letter/Signed Report Received from a Qualified Professional	
Other Cleanup Documentation	

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Appendix 7

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Caribbean Ecological Services
Field Office
P.O. Box 491
Boqueron, PR 00622

In Reply Refer To:
FWS/R4/CESFO/BKT/HUD

JAN 14 2013

Mr. Efrain Maldonado
Field Office Director
U.S. Department of Housing and Urban Development
235 Federico Costa Street, Suite 200
San Juan, Puerto Rico 00918

Re: Blanket Clearance Letter for Federally sponsored projects, Housing and Urban Development

Dear Mr. Maldonado:

The U.S. Fish and Wildlife Service (USFWS) is one of two lead Federal Agencies responsible for the protection and conservation of Federal Trust Resources, including threatened or endangered species listed under the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.) (ESA). In the U.S. Caribbean, the USFWS has jurisdiction over terrestrial plants and animals, the Antillean manatee and sea turtles when nesting. The National Marine Fisheries Service has jurisdiction over marine species, except for the manatee. The ESA directs all Federal agencies to participate in conserving these species. Specially, section 7 of the ESA requires Federal agencies to consult with the USFWS to ensure that actions they fund authorize, permit, or otherwise carry out will not jeopardize the continued existence of any listed species or adversely modify designated critical habitat. The USFWS issued regulations in 1986 detailing the consultation process. As part of this consultation process, the USFWS review development projects to assist Federal agencies on the compliance of the ESA.

The U.S. Department of Housing and Urban Development (HUD) typically allocate grant funds for rural and urban development projects. Obligations under the ESA, as well as the National Environmental Policy Act (NEPA), require HUD to perform consultation and an environmental impact review prior to the project's authorization. Primarily, these projects involve repair or reconstruction of existing facilities associated with developed land.

In order to expedite the consultation process, the Caribbean Ecological Services Field Office has developed this Blanket Clearance Letter (BCL) to cover for activities and projects that typically result in no adverse effects to federally-listed species under our jurisdiction. If projects comply with the project criteria discussed below, no further consultation with the USFWS is needed.

Project Criteria

1. Street resurfacing.
2. Construction of gutters and sidewalks along existing roads.
3. Reconstruction or emergency repairs of existing buildings, facilities and homes.
4. Rehabilitation of existing occupied single family homes, and buildings; provided that equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation and that the lighting associated to the new facilities is not visible directly or indirectly from a beach.
5. Demolition of dilapidated single family homes or buildings; provided that the demolition debris is disposed in certified receiving facilities; equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation.
6. Rebuilding of demolished single family homes or buildings, provided that the new construction is within the existing footprint of the previous structure and/or within pre-existing grassed or paved areas, and that the lighting associated to the new facilities are not visible directly or indirectly from a beach.
7. Activities within existing Right of Ways (ROWs) of roads, bridges and highways, when limited to actions that do not involve cutting native vegetation or mayor earth moving; and are not located within, or adjacent to, drainages, wetlands, or aquatic systems. These activities include the installation of potable water and sanitary pipelines.
8. Improvements to existing recreational facilities, including the installation of roofs to existing basketball courts, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach.
9. Construction of electric underground systems in existing towns and communities, provided that the property is not a wetland area and the lighting associated to the facilities are not visible directly or indirectly from the beach.
10. Construction of facilities on vacant properties covered with grasses in urban areas, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach.
11. Construction of houses, buildings or acquiring lands in urban areas covered by grass for relocation of low income families and/or facilities that have been affected by weather conditions.

Determination:

Based on the nature of the projects described above and habitat characteristics described on project criteria, we have determined that the actions and type of projects described above may be conducted within this BCL without adversely affecting federally-listed

species under our jurisdiction. Thus, consultation under Section 7 of the Endangered Species Act is not required.

In all situations, HUD, and the municipalities are expected to implement Best Management Practices, where applicable, to ensure that impacts from erosion and stream sedimentation are appropriately minimized.

The Service encourages your agency to enhance the conservation of our trust resources (i.e.; listed species, wetlands, aquatic habitats, migratory birds and marine mammals). We therefore, provide the following recommendations that have proven to help in this way.

Water Crossing Structures:

1. Use of bottomless culverts or single span bridges instead of traditional box or RCP culverts or any other water crossing structure that impacts the stream bottom, particularly in streams which support native fish. The use of bottomless culverts or a short span bridge would provide a more stable crossing and would not alter the stream habitat. However, if bottomless structures or bridges are not feasible due to cost or engineering constraints, we recommend the following criteria be used to maintain good habitat in the streams:

    a. The stream should not be widened to fit the bridge since this can lead to sedimentation during low flows and possible bank erosion during high flows. Rather, the bridge should be designed to fit the stream channel at the point of crossing. Culverts should be sized to carry natural bank full flow. Additional flow can be capture by culverts placed at a higher elevation so as not to impact bank full flows.
    b. Bridge abutments, wing walls or any other structures should not intrude into the active stream channel.
    c. All culvert footings must be countersunk into the stream channel at both the invert and outlet ends at a minimum of 10% of the culvert height. This will align the water crossing structure with the slope of the stream.
    d. Waterways must not be blocked as to impede the free movement of water and fish. Materials moved during construction, such as grubbing, earth fills, and earth cut materials must not be piled where they can fall back into the stream and block the drainage courses.
    e. Appropriate erosion and/or sedimentation controls measures are to be undertaken to protect water quality until riverbanks are re-vegetated. It has been our experience that appropriate erosion and/or sedimentation control measures are not implemented properly by project contractors. In order to function properly, silt fences need to be buried 6" (proper depth is marked by a line on the silt fence) and supported at regular intervals by wood stakes. For that reason we are recommending that

the enclosed drawing of proper silt fence installation is included in all final project construction plans.

f. Upon completion of a water crossing construction, any temporary fill, must be removed from the construction area and disposed in a landfill.

Limitations:

Actions that do not meet the above project criteria, such as actions requiring placement of fill, disturbance, or modification to land outside of an existing access road or ROW; actions that occur on vacant property harboring a wetland and/or forest vegetation; actions requiring excavation, clearing of native vegetation, or alteration of storm water drainage patterns; or actions that require lighting which can be directly or indirectly seen from a beach, must be individually coordinated through the Caribbean Ecological Services Field Office and will be evaluated on a case by case basis.

The Service reserves the right to revoke or modify this BCL if:

1. New information reveals that the categories of work covered in this BCL may affect listed or designated critical habitat in a manner, or to an extent, not previously considered.
2. The categories of work included in this BCL are subsequently modified to include activities not considered in this review.
3. New species are listed or critical habitat designated that may be affected.

It is our mission to work with others, to conserve, protect and enhance fish wildlife and plants and their habitats for the continuing benefit of our people.

To obtain additional information on threatened and endangered species, you may visit our website http://www.fws.gov/caribbean/ES where you will also find the Map of the Species by Municipality and the Map of Critical Habitat. The USFWS has also developed a web based tool called IPac. Please visit http://www.ecos.fws.gov/ipac and familiarize yourself with the features we offer. We encourage you to begin your project planning process by requesting an **Official Species List** for your individual project that will include all species that may occur in the vicinity of the action area and includes a map of the action area. The site will also identify designated critical habitat, or other natural resources of concern that may be affected by your proposed project. At this time, best management practices or conservation measures are not available at the site but we expect the site to continue growing in its offering.

These maps provide information on the species/habitat relations within a municipality and could provide the applicants an insight if the proposed action is covered under this BCL or may affect a species, thus requiring individual review.

If you have any additional question regarding this BCL, please do not hesitate to contact Marelisa Rivera, Deputy Field Supervisor, at 787-851-7297 extension 206.

Sincerely yours,

Edwin E. Muñiz
Field Supervisor

Enclosures (Fact Sheets)

cc: OCAM, San Juan
Office of Federal Funds, 78 Municipalities of Puerto Rico
AAA
PRFAA
DNER

US Fish and Wildlife Service

Ecological Services in the Caribbean

Caribbean Field Office

Project evaluation



Our mission is to conserve, protect and enhance fish and wildlife and their habitats through consultation, cooperation and communication for the continuing benefit of the American people.

Legal authorities:

- Endangered Species Act (ESA)
- Fish and Wildlife Coordination Act
- Migratory Bird Treaty Act
- Coastal Barriers Act

Roles and Responsibilities:

- Provide technical assistance to Federal and Commonwealth agencies to minimize possible impacts of land and water projects to our trust resources
  - *Wetlands and other aquatic habitats
  - *Endangered Species and their habitats
  - *Migratory Birds
  - *Critical Wildlife Areas
  - *Coastal Barriers
- Assist with ESA Section 7 compliance through informal and formal consultation processes

How do we assist others?

- Determine presence / absence of wetland resources, threatened and endangered species habitat, coastal barriers, important wildlife areas within the action area
- Evaluate possible direct, indirect and cumulative impacts
- Provide conservation recommendations to avoid, minimize and/or mitigate impacts
- General recommendations for habitat enhancement

Minimum requirements for the evaluation of projects:

- An 8.5 by 11 inch copy of the specific site location on a USGS topographic map (1:20,000) marked with an arrow (➡)
- Project description
- Aerial photo of the project site
- Latitude and Longitude (degrees, minutes and seconds or decimal degrees)
- Environmental Documents (EA and EIS)
- Specific studies (by qualified personnel)



For more information:

US Fish and Wildlife Service
Caribbean Field Office
Raod 301, Km. 5.1
Bo. Corozo
Boquerón, PR 00622
http://www.fws.gov
http://www.fws.gov/caribbean/es

US Fish and Wildlife Service

Caribbean Ecological Services Field Office

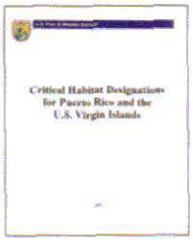
Endangered Species Lists Using Web-based Tools

The U.S. Fish and Wildlife Service's Caribbean Ecological Services Field Office (CESFO) provides technical assistance to private individuals and organizations, as well as Federal, state, and local agencies pursuant to the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.). To assist project sponsors or applicants with the process of determining whether a Federally-listed species and/or "critical habitat" may occur within their proposed project area, we have developed Web-based tools. These tools were developed primarily to assist Federal agencies that are consulting with us under Section 7(a)(2) of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

IPaC. The US Fish& Wildlife Service (USFWS) has a tool named IPaC. IPaC stands for Information, Planning, and Conservation. This system is designed for easy, public access to the natural resources information for which the USFWS has trust or regulatory responsibility. Examples include Threatened and Endangered species, migratory birds, National Refuge lands, Coastal Barrier Resource Units, and the management of invasive species. One of the primary goals of the IPaC system is to provide information in a manner that assists individuals in planning their activities within the context of natural resource conservation. The IPaC system also assists people through the various regulatory consultation, permitting and approval processes administered by the USFWS, helping achieve more effective and efficient results for both the project proponents and natural resources. Through IPaC, you can get a preliminary USFWS species list in addition to links to species life history information, the USFWS Migratory Bird program, and more. You can access IPaC at: http://ecos.fws.gov/ipac

CESFO List of Threatened & Endangered Species and Critical Habitat Designations: CESFO has developed another tool (Species Map) that can be used as a quick reference to find out where the Federally-listed species





are known to occur, as well as those likely to occur, in any given municipality in Puerto Rico and island in the U.S. Virgin islands. It identifies general areas where the species may be located. However, it does not represent the absolute distribution of the species and does not constitute a recommendation or comment issued by our agency in reference to a proposed project. This list represents the best available information regarding known or likely occurrences of Federally-listed species and is subject to change as new information becomes available. You can access this database at http://www.fws.gov/caribbean/es/PDF/Map/pdf



Be aware that Section 9 of the ESA prohibits unauthorized taking of listed species and applies to Federal and non-Federal activities. Under the Act, it is illegal for any person subject to the jurisdiction of the United States to take (includes harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect; or to attempt any of these), import or export, ship in interstate or foreign commerce in the course of commercial activity, or sell or offer for sale in interstate or foreign commerce any endangered fish or wildlife species and most threatened fish and wildlife species. It is also illegal to possess, sell, deliver, carry, transport, or ship any such wildlife that has been taken illegally. "Harm" includes any act which actually kills or injures fish or wildlife, and case law has clarified that such acts may include significant habitat modification or degradation that significantly impairs

essential behavioral patterns of fish or wildlife. For projects not authorized, funded, or carried out by a Federal agency, consultation with the Service pursuant to Section 7(a)(2) of the ESA is not required. However, no person is authorized to "take[1]" any listed species without appropriate authorizations from the Service. Therefore, we provide technical assistance to individuals and agencies to assist with project planning to avoid the potential for "take," or when appropriate, to provide assistance with their application for an incidental take permit pursuant to Section 10(a)(1)(B) of the ESA.

If the project is within the distribution of the species, additional information may be needed to determine the presence of habitat. In some cases, specialized surveys may be needed to determine the presence or absence of the species in a particular area.

For additional information on fish and wildlife resources or State-listed species, we suggest contacting the Puerto Rico Department of Natural and Environmental Resources and the U.S. Virgin Islands Department of Planning and Natural Resources.

For further assistance, please feel free to contact us at (787) 851-7297 or visit our Web page at www.fws.gov/caribbean/es if you need further assistance.

For further information visit our national websites at:
http://www.fws.gov
http://ecos.fws.gov

U.S. Fish & Wildlife Service

Consultations with Federal Agencies

Section 7 of the Endangered Species Act

The purposes of the Endangered Species Act are to provide a means for conserving the ecosystems upon which endangered and threatened species depend and a program for the conservation of such species. The ESA directs all Federal agencies to participate in conserving these species. Specifically, section 7 (a)(1) of the ESA charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies to ensure that their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats.



USGS

In response to requests for consultations from the U. S. Coast Guard with regard to manatees and sea turtles, the South Florida Office of the U. S. Fish and Wildlife Service has provided guidance about events such as firework displays, regattas, boat parades and races, and fishing tournaments.

How does the consultation process support the recovery of species and their ecosystems?

The Endangered Species Program of the U.S. Fish and Wildlife Service uses section 7 tools in partnership with other Service programs and other Federal agencies to collaboratively solve conservation challenges, as well as create opportunities, using section 7 consultations, to recover the ecosystems of listed species. Consultations also provide ways to implement recovery tasks by addressing threats to listed species that may result from Federal agency programs and activities.

What is the consultation process that occurs under section 7(a)(2)?

The provision under section 7 that is most often associated with the Service and other Federal agencies is section 7(a)(2). It requires Federal agencies to consult with the Service to ensure that actions they fund, authorize, permit, or otherwise carry out will not jeopardize the continued existence of any listed species or adversely modify designated critical habitats. The Service issued regulations in 1986 detailing the consultation process, and we have since completed a handbook describing the process in detail. The handbook is available on our web site at http://www.fws.gov/endangered/esa-library/pdf/esa_section7_handbook.pdf.

What is the Service doing to facilitate the consultation process?

Designing projects in ways that are compatible with the conservation needs of listed species and their ecosystems is among the most effective methods of ensuring a more rapid and efficient section 7 consultation process, as well as species' recovery. The Information, Planning, and Conservation System is an emerging tool for action agencies, their applicants, and other project proponents to use during the initial phases of project development and assessment. The system will allow for more effective integration of listed resource conservation needs and the eventual streamlining of section 7(a)(2) consultation.

How does a consultation get started?

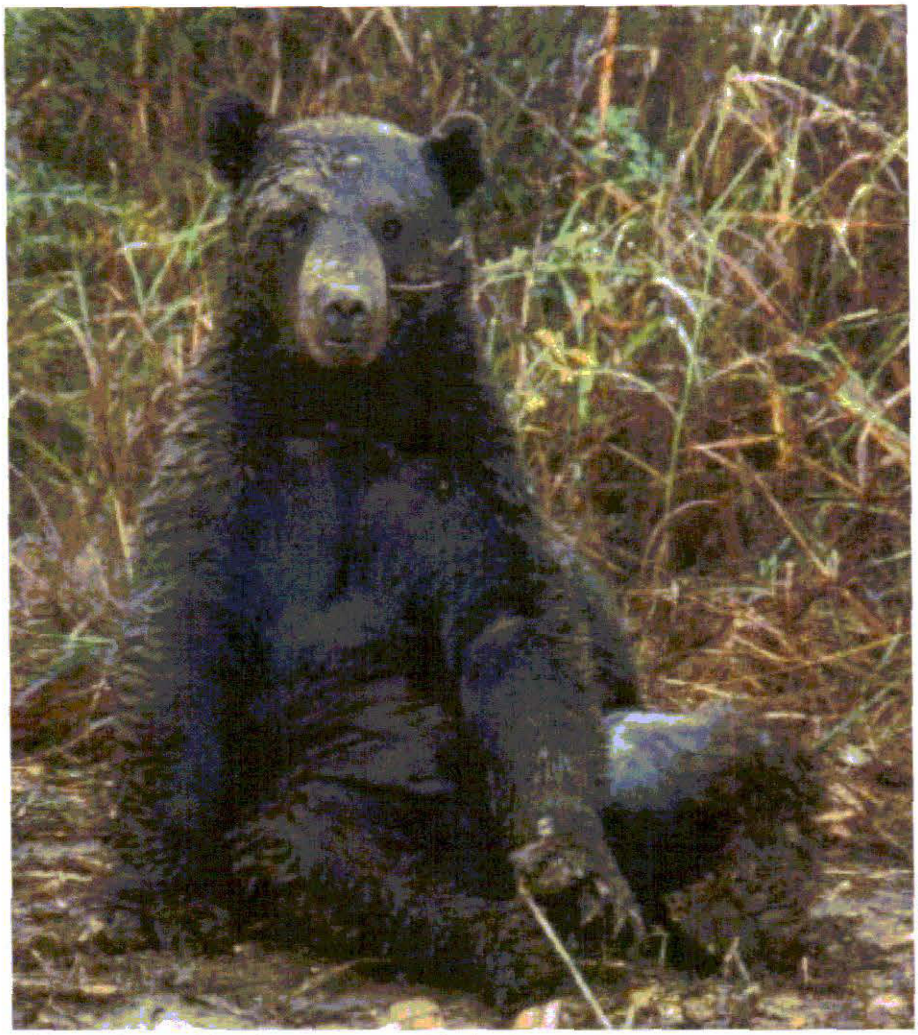
Early coordination is one of the most effective methods of (1) streamlining section 7 consultation, (2) reducing the need to make project modifications during the consultation process, and (3) improving the ability of section 7 to fulfill its role as a recovery tool. Federal agencies, applicants, and the Service engage in early coordination to develop methods of integrating proposed activities with the conservation needs of listed resources before the proposed actions are fully designed.

Before initiating an action, the Federal agency or its non-Federal permit applicant should coordinate with the Service as to the species that may be within their action area. If a listed species is present, the Federal agency must determine whether the project may affect it. If so, consultation may be required. If the action agency determines (and the Service agrees) that the project is not likely to adversely affect a listed species or designated critical habitat, and the Service concurs in writing, then the consultation (informal to this point) is concluded.

What happens if a Federal project may adversely affect a listed species?

If the Federal agency determines that a project is likely to adversely affect a listed species or designated critical habitat, the agency initiates formal consultation by providing information with regard to the nature of the anticipated effects. The ESA requires that consultation be completed within 90 days, and the regulations allow an additional 45 days for the Service to prepare a biological opinion. The analysis of whether or not the proposed action is likely to jeopardize the continued existence of the species or adversely modify designated critical habitat is contained in a biological opinion. If a jeopardy or adverse modification determination is made, the biological opinion must identify any reasonable and prudent alternatives that could allow the project to move forward.

The Service must anticipate any incidental take that may result from the proposed project and, provided that such take will not jeopardize the continued existence of the listed species, authorize that take in an incidental take statement. The latter contains clear terms and conditions designed to reduce the impact of the anticipated take to the species involved. The authorization of incidental take is contingent upon the Federal agency carrying out the terms and conditions. If the Service issues either a non-jeopardy opinion or a jeopardy opinion that contains reasonable and prudent alternatives, it may include an incidental take statement.



Dan Anderson/USFWS

This Louisiana black bear was one of the largest ever captured on Tensas River National Wildlife Refuge, weighing in at over 400 pounds. The bear was trapped using a leg-hold cable snare that does not injure the animal. The biological information obtained, including weight, sex, a tooth for aging, and other measurements, is part of the Service's ongoing research efforts to aid in the recovery of this threatened subspecies. Afterwards, the bear was released on site.

What is the consultation workload?

In Fiscal Year 2010, the Service assisted Federal agencies in carrying out their responsibilities under section 7 on more than 30,000 occasions. The vast majority of the workload was technical assistance to Federal agencies and informal consultations on actions that were not likely to adversely affect listed species or their designated critical habitat. A large percentage of projects, as initially planned, would have had adverse impacts to listed species, but were dealt with through informal consultation. In these situations, the Federal agency made changes to the project design so that adverse impacts to listed species were avoided.

What type of guidance is available for other Federal agencies?

Guidance is available on our section 7 web site at http://www.fws.gov/endangered/what-we-do/consultations-overview.html. Please call us at 703-358-2171 if you have any questions, or see our Endangered Species Program Contacts at http://www.fws.gov/endangered/regions/index.html to locate a Service office in your area.

U. S. Fish and Wildlife Service
Endangered Species Program
4401 N. Fairfax Drive, Room 420
Arlington, VA 22203
703-358-2171
http://www.fws.gov/endangered/

April 2011

Transmittal Letter

Based on the information provided, we determined the project proposed qualifies for the blanket clearance letter. Nevertheless, if the project is modified this office should be contacted concerning the need for the initiation of consultation under section 7 of Endangered Species Act of 1973.

Reviewer DAMARIS ROMAN RUIZ Digitally signed by DAMARIS ROMAN RUIZ Date: 2024.12.03 10:34:51 -04'00'

LOURDES MENA Digitally signed by LOURDES MENA Date: 2024.12.04 09:47:17 -04'00'

Caribbean ES Field Supervisor

Exhibit 7a

November 7, 2024

Caribbean Ecological Services Field Office
U.S. Fish and Wildlife Service
P.O. Box 491
Boquerón, Puerto Rico 00622
Email: caribbean@es@fws.gov

RE: USFWS Endangered Species Act Certifications – City Revitalization Program October 2024

We are submitting the following Self-Certifications for projects under the CDBG-DR City Revitalization Program. Attached are included the Self-Certifications that certify that the projects are in compliance and are not likely to adversely affect federally-listed species.

The following table includes the projects that are in compliance with the Blanket Clearance Letter for the Endangered Species act of 1973, as amended, and the Fish and Wildlife Coordination Act.

Project Number	Project Name
PR-CRP-000312	*Plaza de Recreo Juan F. Arroyo*
PR-CRP-000573	Restoration of Stairs (at Sector *El Cerro*) and Santiago Street
PR-CRP-000628	Arquitorium
PR-CRP-000650	Old Casino Revitalization: Activity Center and Art Exhibit
PR-CRP-000743	Luis A. Ferré Public Square Remodeling
PR-CRP-000774	*Rehabilitación de Estructura Existente para Facilidad de Colaboración, Conocimiento, Ideas e Innovación (Antes Hotel Café Central)*

For more information, please contact the Permits and Environmental Compliance Division at environmentcdbg@vivienda.pr.gov or at (787)274.2527 ext. 4320.

Sincerely,

Permits and Environmental Compliance Division
Disaster Recovery Office

Self-Certification

http://www.fws.gov/caribbean/ES/Index.html

Endangered Species Act Certification

The U.S. Fish and Wildlife Service, Caribbean Ecological Services Field Office developed a Blanket Clearance Letter in compliance with Endangered Species Act of 1973, as amended, and the Fish and Wildlife Coordination Act for federally funded projects.

The Service determined that projects in compliance with the following criteria are not likely to adversely affect federally-listed species.

The Puerto Rico Department of Housing (PRDOH) certifies that the following project ***Plaza de Recreo Juan F. Arroyo* (PR-CRP-000312),** consisting of the revitalization of the main plaza of Canóvanas (refers to the Project Description document to obtain more details) located at Palmer Street/PR-9959, Calderon Mújica Street Corner, Canóvanas, PR 00729 (18.379124, -65.901107), complies with:

Check	Project Criteria
☒	1. Street resurfacing.
☒	2. Construction of gutters and sidewalks along existing roads.
☐	3. Reconstruction or emergency repairs of existing buildings, facilities and homes.
☐	4. Rehabilitation of existing occupied single-family homes, and buildings; provided that equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation and that the lighting associated to the new facilities is not visible directly or indirectly from a beach.
☐	5. Demolition of dilapidated single-family homes or buildings; provided that the demolition debris is disposed in certified receiving facilities; equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation.
☐	6. Rebuilding of demolished single-family homes or buildings, provided that the new construction is within the existing footprint of the previous

	structure and/or within pre- existing grassed or paved areas, and that the lighting associated to the new facilities are not visible directly or indirectly from a beach.
☒	7. Activities within existing Right of Ways (ROWs) of roads, bridges and highways, when limited to actions that do not involve cutting native vegetation or mayor earth moving; and are not located within, or adjacent to, drainages, wetlands, or aquatic systems. These activities include the installation of potable water and sanitary pipelines.
☒	8. Improvements to existing recreational facilities, including the installation of roofs to existing basketball courts, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach.
☒	9. Construction of electric underground systems in existing towns and communities, provided that the property is not a wetland area and the lighting associated to the facilities are not visible directly or indirectly from the beach.
☐	10. Construction of facilities on vacant properties covered with grasses in urban areas, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach.
☐	11. Construction of houses, buildings or acquiring lands in urban areas covered by grass for relocation of low-income families and/or facilities that have been affected by weather conditions.

Angel G. López-Guzmán
Deputy Director
Permits and Environmental Compliance Division

Oct. 20, 2024
Date

Office of Disaster Recovery
Address: P.O. Box 21365 San Juan, PR 00928
Telephone and Ext: 787-274-2527 ext. 4320
Email: environmentcdbg@vivienda.pr.gov

Attachments:

1. Project Description (including SOW)
2. Location Map
3. Wetlands Map
4. Critical Habitat Map
5. IPAC Results

in.formation studio

a: 6777 Av. Isla Verde
Edificio IVM - Suite 221
Carolina, PR 00979
e: info@nformationstudio.com
i: landscape.architecture.product
o: 7 . 87 2 . 36 . 06 . 30
u: nformationstudio.com

September 23, 2024

Project Description

I. LOCATION & SITE DESCRIPTION

The main founding plaza of the Municipality of Canóvanas has an approximate area of two thousand and fourteen point nine five seven five (2,314.9575) square meters. It is located in flood zone "X (0.2% annual flood probability)", based on the panel: 72000C0395J of the base flood elevation map by the Planning Board of Puerto Rico. The project site is bounded by Luis Hernaiz Street on the west, Muñoz Rivera Street on the south, Palmer Street (PR-9959) on the north, and Calderón Mújica street on the east. The plaza belongs to the town of Canóvanas since its founding in 1909. The following images show the immediate context of the project site.

Luis Hernaiz Street



Nuestra Señora del Pilar church & school, east of project. In.formation Studio.

Calderón Mújica Street

in.formation studio



Medical offices, west of project. In.formation Studio.

Palmer Street (PR-9959)



Historic Public Transportation Station, north of project. In.formation Studio.

Muñoz Rivera Street



Mayor Building. In.formation Studio

II. EXISTING CONDITIONS

The following images show the existing conditions of the site at the date of this report.



Looking southeast. In.formation Studio.


Looking south. In.formation Studio.



Looking west. In.formation Studio.



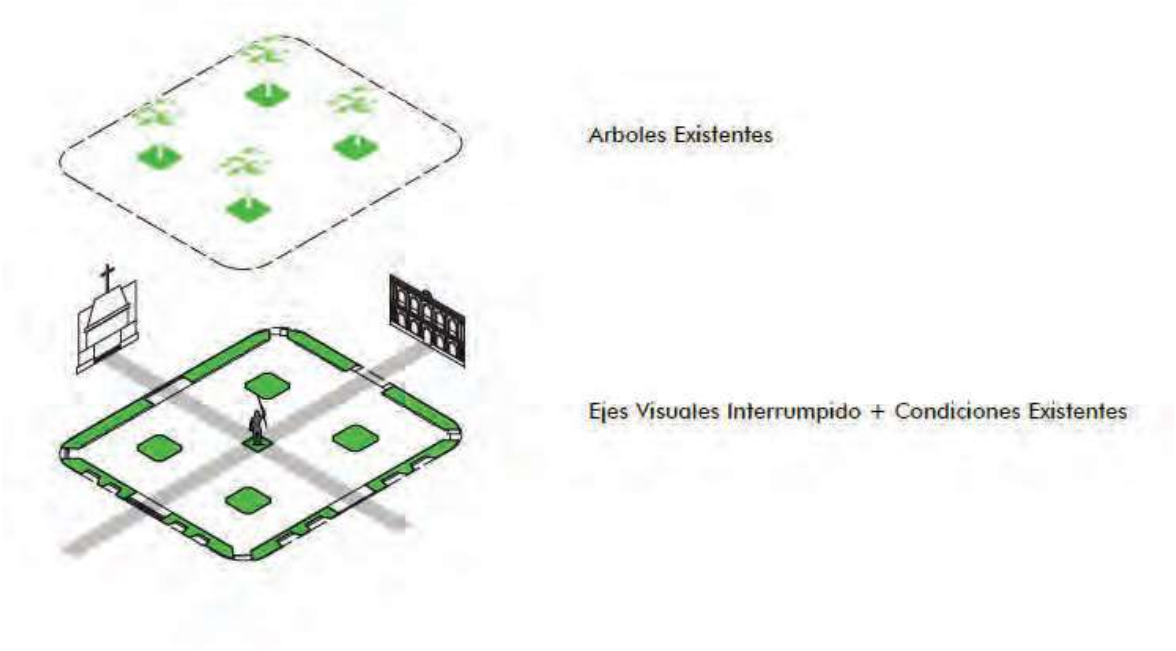
Looking northeast. In.formation Studio.

III. PROPOSAL

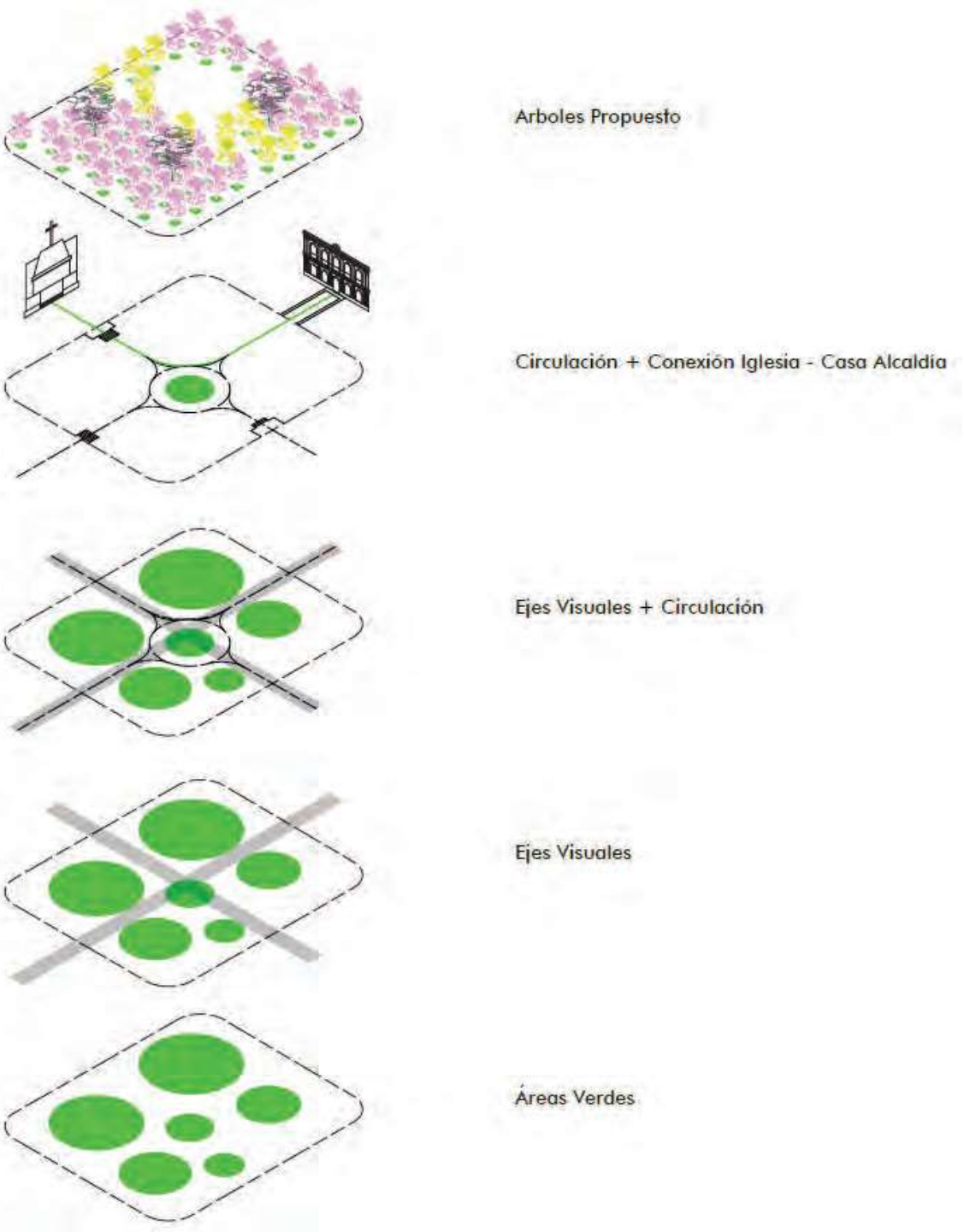
Design Strategies

The Project is located in flood zone “X”, justifying its elevated condition from street level. Currently, the plaza consists of less than 18% of green spaces, of which all are raised planting areas, reducing the possibility of water infiltration to subsoil. Our proposal recognizes the need for spaces with ecological and social value. We then dear ask, what can a plaza contribute to the urban center of Canóvanas?

Our first strategy was to introduce permeability and softness to the plaza through circular green spaces and reforestation strategies. These are distributed to align with traditional plaza axes as shown in the following diagrams.



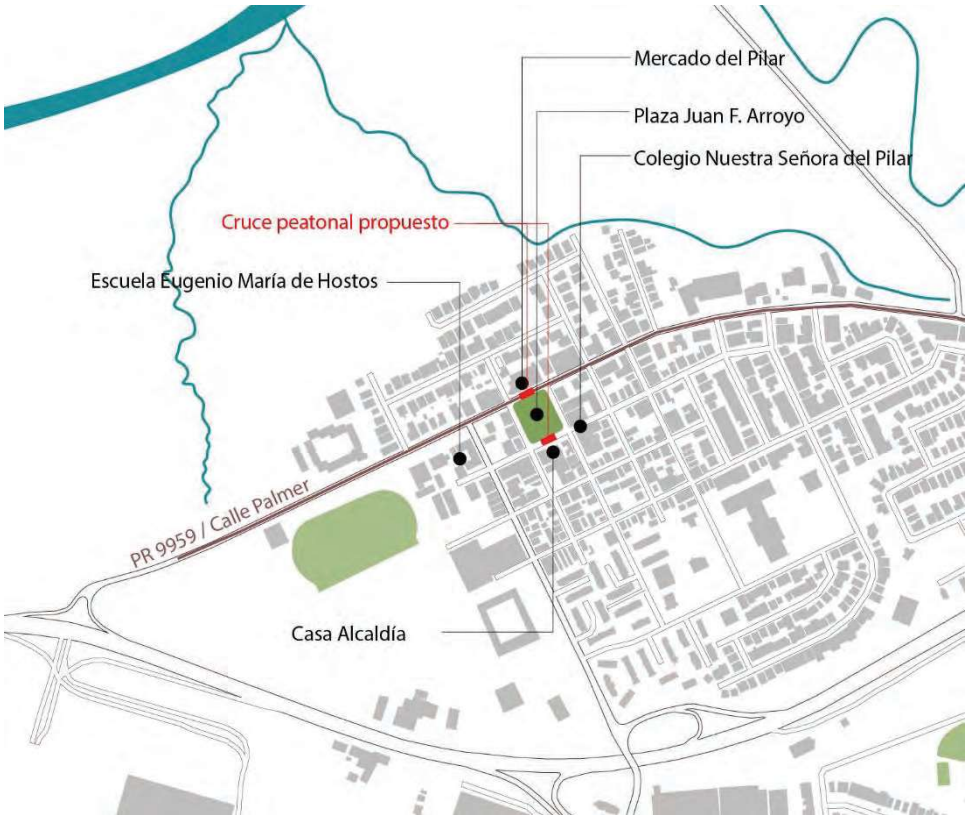
Existing Conditions. In.formation Studio.



Concept diagram. In.formation Studio.

Circulation & Access

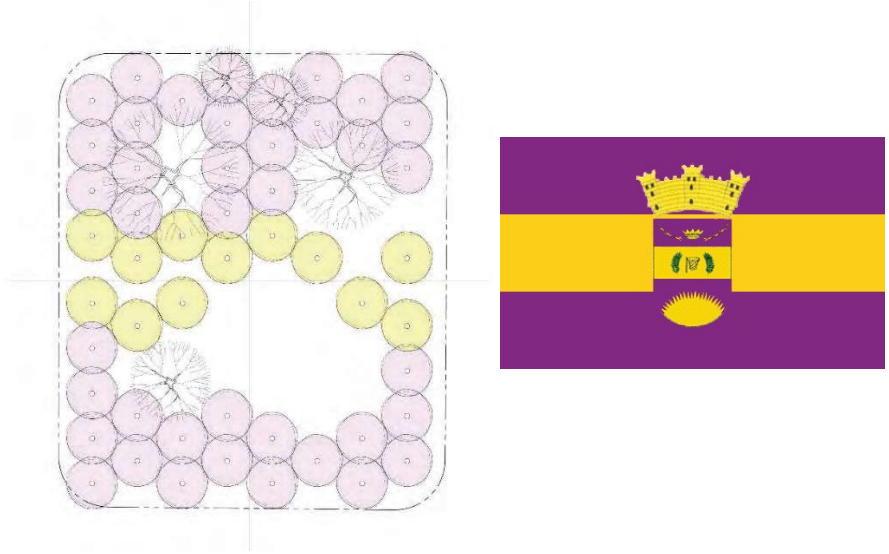
Being an elevated plaza, the existing entry points were kept. Floor surfaces no more than 5% slope run in the north-south direction providing easy access based on universal design principles. All other entry points are through stairs. Towards a future marketplace to the north, and toward the mayor building to the south, speed tables are proposed to favor pedestrian circulation in these important points of the town.



Location diagram Plaza Juan F. Arroyo showing nearby schools and proposed speed tables. In.formation Studio.

Trees / Natural Shade

Existing trees of the northeastern northwestern and southwestern quadrants are to remain. Among them, a grid of proposed trees are established, reducing heat, providing natural shade and returning the plaza to its original state as a green space. Vegetation and mounds will aid in reducing stormwater runoffs.



Tree distribution & color / Flag of Autonomous Municipality of Canóvanas. In.formation Studio.

Perspective Renderings



Towards Mayor Building. In.formation Studio.



Towards Del Pilar Church. In.formation Studio.



Gallery structure. In.formation Studio

IV. SCOPE OF WORK

The following is the scope of work developed per the design strategies previously explained.

Demolition:

- Removal of existing light posts.
- Relocation of hose bibs on plaza level, and fire hydrant on sidewalk level.
- Removal of existing benches and planters.
- Scarification and releveling of existing plaza concrete pavement.
- Removal of existing sidewalk and related items.

New Construction:

- Installation of urban furniture including benches, trash bins, and lighting systems.
- Resurfacing of existing plaza level with concrete pavers.
- Reconstruction of adjacent sidewalks.
- Construction of two speed tables (PR-9959 St., and Muñoz Rivera St.)
    - This will include resurfacing of the street at those specific locations.
- Installation of Gallery structure.
- Planting of new trees.
- Reconstruction of existing plaza's perimeter wall
- Electrical and plumbing work as required.

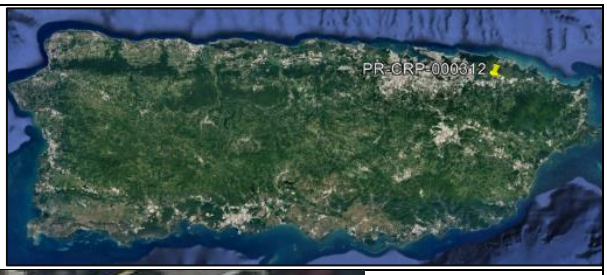
Kevin Rivera Samuel

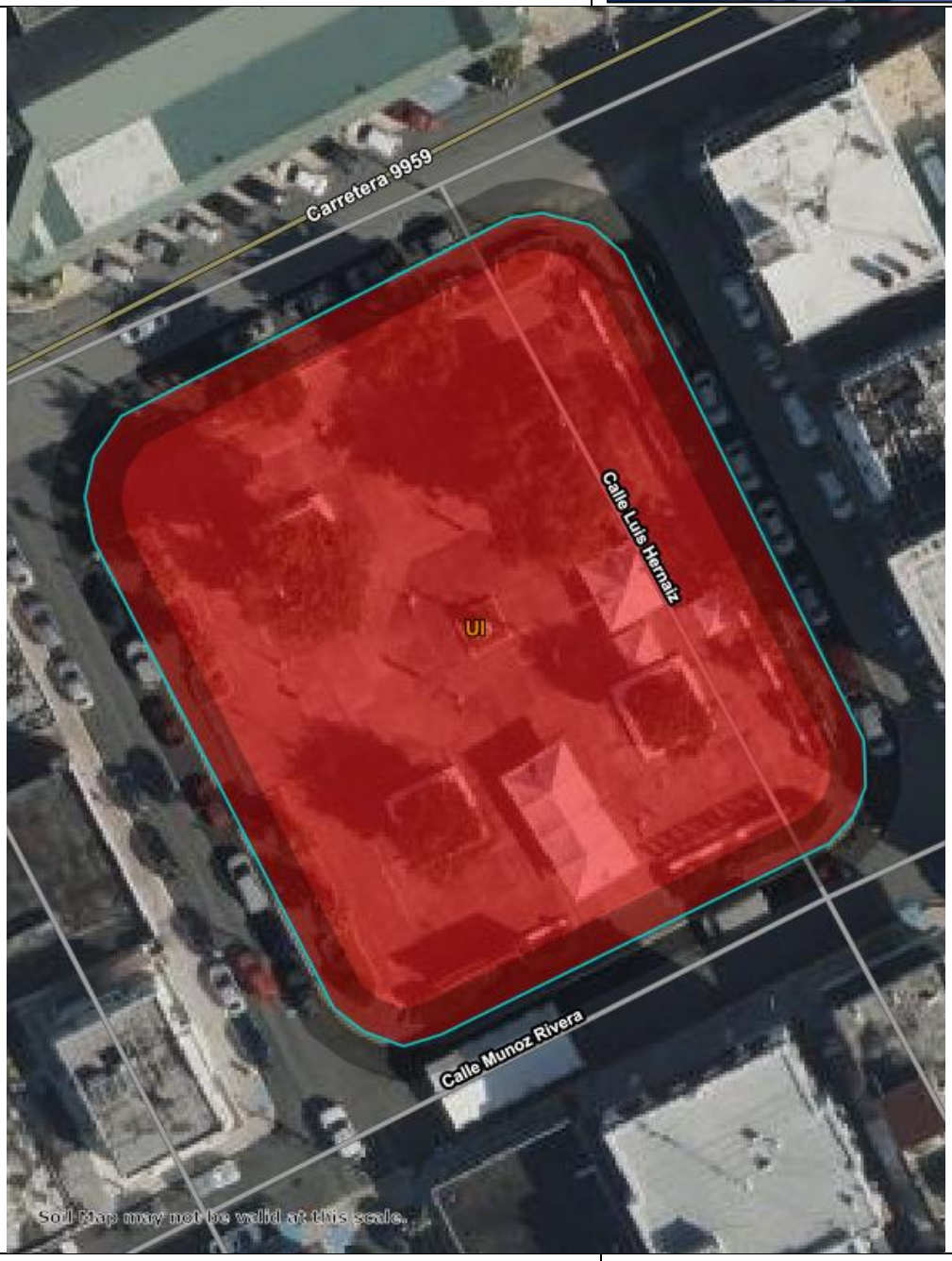
Kevin Rivera Samuel
Studio Director
In.formation Studio

Appendix 8

Farmland Classification Image – (PR-CRP-000312)
Plaza Juan F. Arroyo (PR-CRP-000312)

Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)





Legend:

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

Not prime farmland

Source: USDA WSS (https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx)

2020 Census Urban Areas Image – (PR-CRP-000312)
Plaza Juan F. Arroyo (PR-CRP-000312)

Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)





Legend:

- 1 Mile Buffer Zone
- Plaza Juan F. Arroyo
- Urban Areas

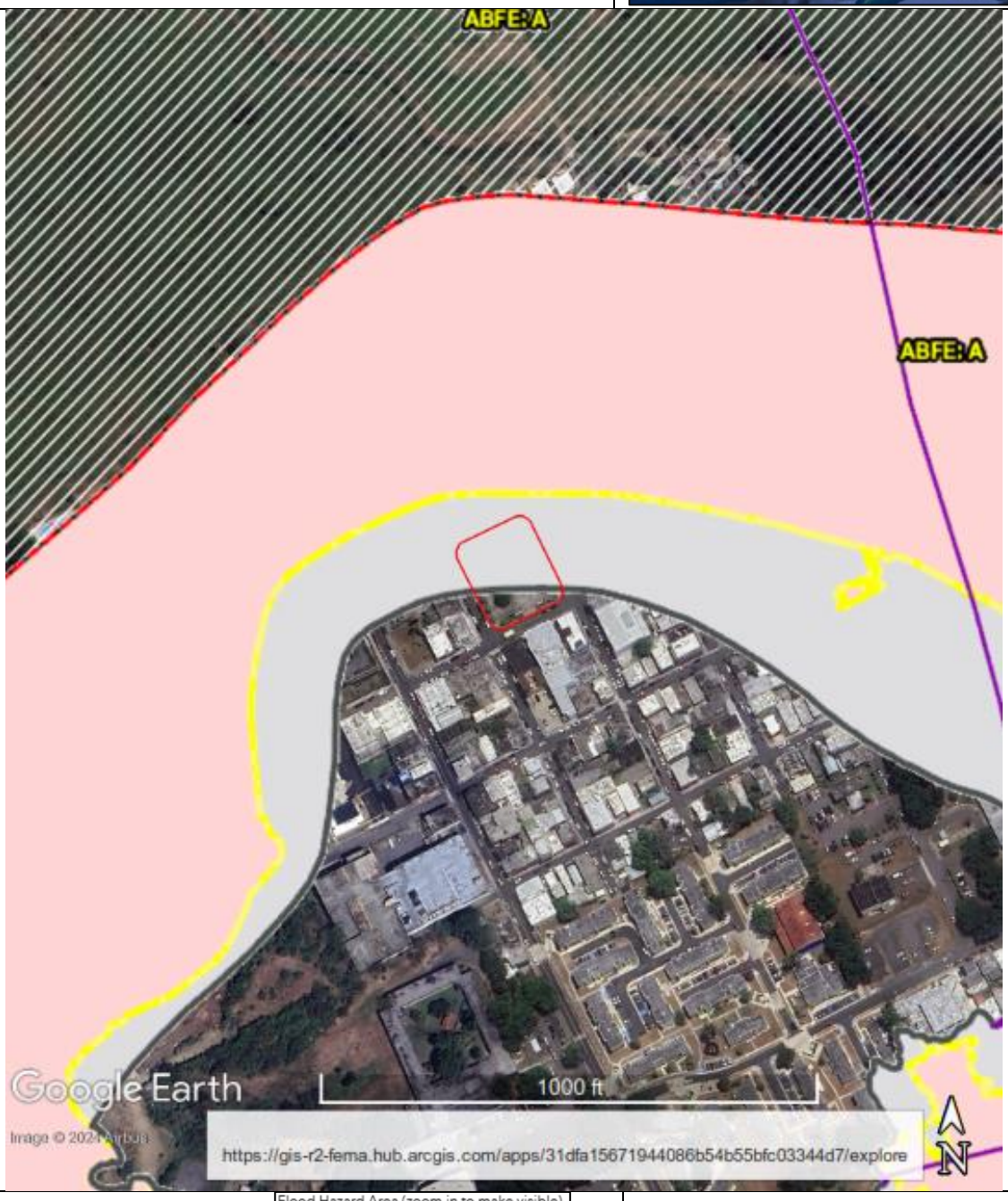
Source: 2020 Census (https://www.arcgis.com/apps/mapviewer/index.html?layers=10551da8fcd24062b1857473252b3df8)

Appendix 9

Advisory Base Flood Elevation Image – (PR-CRP-000312)
Plaza Juan F. Arroyo (PR-CRP-000312)

Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)





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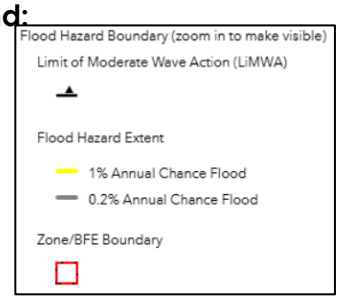
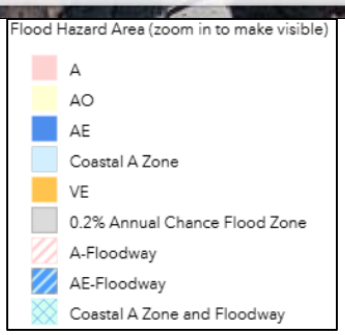




Source: FEMA Advisory Base Flood Maps (https://www.arcgis.com/apps/mapviewer/index.html?layers=10551da8fcd24062b1857473252b3df8)

EXECUTIVE ORDERS 11988 & 11990 – FLOODPLAIN MANAGEMENT & PROTECTION OF WETLANDS - EIGHT-STEP PROCESS U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT COMMUNITY DEVELOPMENT BLOCK GRANT – DISASTER RELIEF (CDBG-DR) PROGRAM

FLOODPLAIN MANAGEMENT 8-STEP DECISION-MAKING PROCESS

Project: "Plaza de Recreo Juan F. Arroyo" PR-CRP-000312, Municipality of Canóvanas, Puerto Rico

Decision Process for Executive Order 11988, as amended by Executive Order 13690 and, Executive Order 11990 as Provided by 24 CFR §55.20, as applicable.

Step 1: Determine whether the action is located within the Federal Flood Risk Management Standard (FFRMS) floodplain using the Climate-Informed-Science-Approach (CISA).

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has conducted an evaluation as required by Executive Order 11988, in accordance with HUD regulations at 24 CFR 55.20 in Subpart C - Procedures for Making Determinations on Floodplain Management and Wetlands Protection. The activity is funded under the City Revitalization Program, Community Development Block Grant – Disaster Recovery (CDBG-DR), Grant Number B-17-DM-72-0001 and B-18-DP-72-0001. The proposed project, PR-CPR-000312, is within a municipality that suffered damage due to Hurricanes Irma and Maria, and is located Calderon Mújica St., and Muñoz Rivera corner, Canóvanas PR 00729. Coordinates: Lat: 18.379124, Long: -65.901107, Cadastral Number 089-086-015-01-000. The project is located in a 500-year floodplain coastal valley. The proposed project is approximately 2,315 square meters (0.572 acres) and will include the replacement of lightning, installation of urban furniture, open gazebos for shading, improvements to the sidewalks and reforestation. Additionally, the project will be enhance plaza accessibility in compliance with the Americans with Disabilities Act (ADA). According to the Advisory Base Flood Elevation (ABFE) map, 0.46 acres of the project area (about 80%) are located within a shaded x (0.2%) flood zone. As the proposed activities will take place in previously developed spaces, no adverse effects on the floodplain area anticipated. The beneficial functions of the floodplain include the storage and discharge of floodwaters, and its intrinsic value is historic.

Step 2: Notify the public for early review of the proposal and involve the affected and interested public in the decision-making process.

No comments were received in the Permits and Environmental Compliance Division e-mail: comentariosambiental@vivienda.pr.gov, for the project "Plaza de Recreo Juan F. Arroyo" (PR-CRP-000312), as part of the CDBG-DR City Revitalization Program.

The Early Notice and Public Review of a Proposed Activity in a Federal Flood Risk Management Standard Designated Floodplain was published in the Primera Hora newspaper of Puerto Rico on May 9, 2025, with a comment period that concluded on May 27, 2025.

Step 3: Identify and evaluate practicable alternatives to locating the proposed action in the FFRMS floodplain or wetland.

The proposed activities will involve improvements of an existing developed parcel located in an urban area. The place is very accessible and have infrastructure (paved streets and sidewalks, potable water, sewer, electricity, telecommunications and municipal storm water system) available.

PRDOH has considered the following alternatives to minimize adverse impacts to natural, beneficial functions and intrinsic values of the floodplain:

Alternative 1: Conduct the proposed activities on the proposed parcel keeping the impervious surface area to a minimum. Any storm water discharge to municipal storm water system will be managed to avoid overloads of the existing municipal facilities and surrounding properties. The grant recipient will comply with all the current applicable laws, regulations and codes and will implement the best practices for the industry.

Alternative 2: The proposed project will not be developed and no work will be conducted at the proposed project parcel. The site may further deteriorate and become a public nuisance or hazardous place and the proposed community services would not be provided.

Step 4: Identify and evaluate the potential direct and indirect impacts associated with the occupancy or modification of the FFRMS floodplain the potential direct and indirect support of floodplain development that could result from the proposed action, including impacts related to future climate-related flood levels, sea level rise, and the related increased value of beneficial floodplain functions.

The proposed project is approximately 2,315 square meters (0.572 acres) and will include the replacement of lightning, installation of urban furniture, open gazebos for shading, improvements to the sidewalks and reforestation. Additionally, the project will be enhance plaza accessibility in compliance with the Americans with Disabilities Act (ADA). Potential adverse impacts from construction would be temporary and will be mitigated through the delimitation of construction area and the implementation of a sedimentation-Erosion prevention plans that will minimize disturbance throughout the construction period.

As the proposed activities will take place in previously developed spaces, no adverse effects on the floodplain area anticipated (Alternative 1). The city of Canóvanas is a member of the National Flood Insurance Program and any structure located in the flood zone must comply with the PR flood regulations. The functions and values of the floodplain, such as holding, conducting and discharge of storm water will not be adversely affected by the proposed activities.

The natural resources of the floodplain include water, biological, and societal resources. HUD requires projects located in the floodplain to maintain flood insurance for the life of the property. The municipality of Canóvanas will maintain flood insurance for all buildings and/or other insurable property in order to mitigate any effects of flooding. In addition to concerns for life and property, the municipality of Canóvanas considered the natural and beneficial values of the floodplain.

A landscape plan will be implemented to enhance the proposed green areas. There are no existing trees or palm at the parcel.

The Project will comply with the "Reglamento para el Control de la Contaminación por Ruido, el Reglamento de Estándares de Calidad de Agua, el Reglamento para el Control y la Prevención de la Contaminación Lumínica". To avoid adverse impacts to wildlife, low pressure bulbs will be selected as they are considered to have less effect on the sea turtle's orientation abilities. Besides, the proposed lighting fixtures will be oriented toward the floor, not toward the shore, and will be provided with visors.

The Project will comply with the "Reglamento para el Control de Contaminación Atmosférica", the "Reglamento para el Manejo de Desperdicios Sólidos No Peligrosos" and the "Reglamento para el Trámite de Permisos Generales".

The Project will comply with the Rule 3.4.1 ("Permiso único Incidental Operacional"), the Section 5.1.9.3 ("Manejo de Aguas Pluviales") and Section 5.1 .9.4 ("Obras Pluviales) of the "Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operación de Negocios (Regulation No. 9473, effective from June 16, 2023, adopted by the Puerto Rico Planning Board through Resolution JP-RP-41, from June 16, 2023)"

The final design will comply with the "Reglamento sobre Normas de Diseño, Criterios y Mantenimiento para Sistemas de Alcantarillados Pluviales en Puerto Rico (Planning Regulation Num. 40 from April 18, 2023)" and the Special Flood Hazard Areas Regulation (Regulation No. 13 effective from January 9, 2021) Eighth Revision (Regulation No. 9238 from December 9, 2020)".

Step 5: Where practicable, design or modify the proposed action to minimize the potential adverse impacts to lives, property, and natural values within the floodplain and to restore and preserve the values of the floodplain.

(a) Preserving Lives: In order to preserve lives, local law enforcement and the emergency broadcast system will implement an early warning system should flooding conditions arise. In addition to the warning system, law enforcement will develop an emergency evacuation and relocation plan. Any structure will also be marked with identification marks of past and estimated flooding and the interior common areas will display an evacuation plan to inform users on the location of the flood hazard area and evacuation plans.

(b) Preserving Property: In order to preserve property, flood insurance will also be acquired and maintained in order to mitigate possible flood damage on insurable property. The final design will comply with the "Reglamento sobre Normas de Diseño, Criterios y Mantenimiento para Sistemas de Alcantarillados Pluviales en Puerto Rico (Planning Regulation Num. 40 from April 18, 2023)" and the Special Flood Hazard Areas Regulation (Regulation No. 13 effective from January 9, 2021) Eighth Revision (Regulation No. 9238 from December 9, 2020)".

(c) Preserving Natural Values and Minimizing Impacts: The site design chosen in Alternative 1 is not expected to have significant adverse effects on the native vegetation or wildlife. All construction debris will be disposed at a certified dump site or at other authorized facility. The proposed project will be connected to the existing infrastructure systems which will reduce adverse impacts on the environment and will help preserve the present functions and values like water quality, erosion control and flora & fauna habitat in the site.

Step 6: Reevaluate the alternatives.

Conducting the proposed activities on the existing parcel, is expected to have none or minimum adverse impacts on the floodplain. The city of Canóvanas is a member of the National Flood Insurance Program and any structure located in the flood zone must comply with the PR flood regulations. No work will be executed outside the boundaries of the project's parcel. Any storm water discharge to municipal storm water system will be managed to avoid overloads of the existing facilities. The grant recipient will comply with all the current applicable laws, regulations and codes and will implement the best practices for the industry.

The natural resources of the floodplain include water, biological, and societal resources. HUD requires projects located in the floodplain to maintain flood insurance for the life of the property. The municipality of Canóvanas will maintain flood insurance for all buildings in order to mitigate any effects of flooding. In addition to concerns for life and property, the municipality of Canóvanas considered the natural and beneficial values of the floodplain.

Step 7: Determination of No Practicable Alternative to locating the proposal in the FFRMS floodplain or the wetland, publish

The no action alternative (Alternative 2) is not desirable because it will not allow for the enhancement of the public space and services and will propitiate the selected site to become hazardous for the community or to be developed in a less desirable use.

The project as designed will avoid/minimize adverse effects on floodplain functions and values. Additionally, steps will be taken in order to minimize risks to human life and property by designing evacuation plans, applying appropriate construction methods and maintaining a valid flood insurance policy. No adverse social impacts caused by the project are expected. On the contrary, there are many beneficial social impacts that the proposed project may provide such as enhanced cultural and recreational amenities, removal of architectonic barriers, landscape enhancement and ADA compliance features.

It is the municipality of Canóvanas determination that there is no practicable alternative for locating the project outside the flood zone. This is due to:

1) The parcel is already developed and its use will not be changed.
2) The proposed actions will not displace residents from their community
3) The People of Puerto Rico and the municipality of Canóvanas will be the owners of the proposed project site. The cost due to land acquisition will be part of the funds requested from HUD.
4) The proposed project, as designed, is not expected to have permanent adverse impacts on the floodplain functions and values as all the activities will be conducted inside an urban parcel.
5) The proposed project will improve existing site's conditions, and infrastructure.
6) The proposed project will enhance current recreational and cultural alternatives for the people of Canóvanas and visitors.
7) The proposed project will help to prevent the property to become a nuisance.

Step 8: Implement the Proposed Action

The municipality of Canóvanas will assure that this project is developed as described above and that it is appropriately executed and necessary language will be included in all contracts and/or agreements with participating parties. The municipality of Canóvanas will also take an active role in monitoring the construction process to ensure that no unnecessary impacts occur nor unnecessary risks are taken. The flood insurance requirement for the life any insurable property will provided and maintained by the municipality of Canóvanas.

ATTACHMENT I: LOCATION MAP



Noreste de Puerto Rico
Municipio Canóvanas
Barrio Pueblo



Casco Urbano

Plaza Pública Prof. Juan F. Arroyo



Plaza Pública Prof. Juan F. Arroyo

City Revitalization Program
CBDG-DR

Latitud: 18°22'44.8"N
Longitud: 65°54'3.37"W
Area: 2,314.1 m2
CRIM: 089-088-015-01
Plaza Pública Prof. Juan F. Arroyo

Calle Luis Muñoz Rivera, 00729,
Canovanas, Canóvanas,
PR Puerto Rico

Sheet No.
1

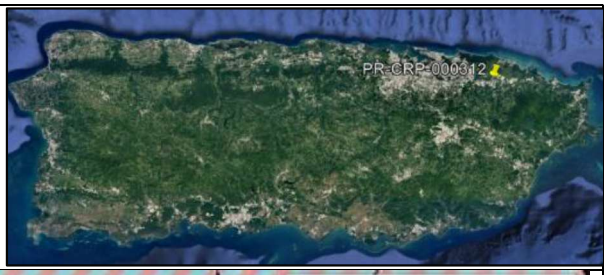
Referencias:

Drawn By: Joel Olmedo Alvarez
Checked by: Oficina de Planificación Municipio de Canóvanas
Date: abril 5, 2021

ATTACHMENT II: FLOOD MAPS

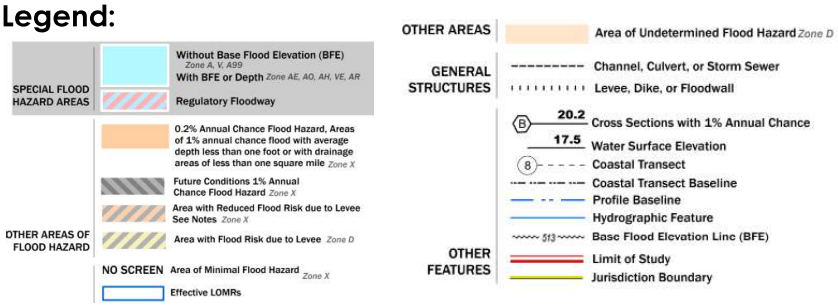
National Flood Hazard Layer Image – (PR-CRP-000312)
Plaza Juan F. Arroyo (PR-CRP-000312)

Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)





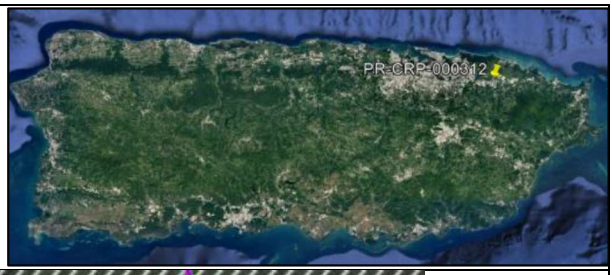
Legend:

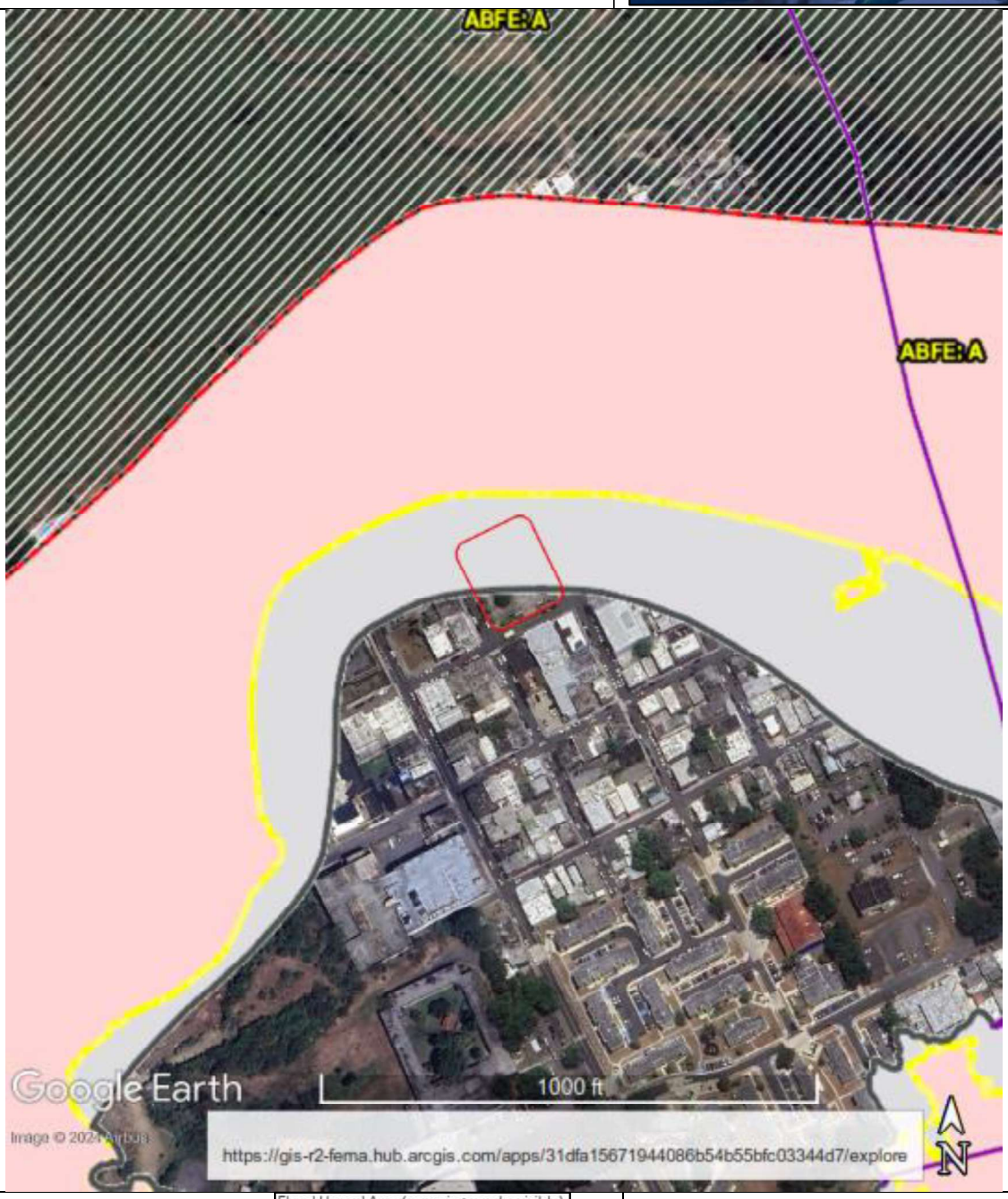


Source: FEMA National Flood Hazard Layer (https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd)

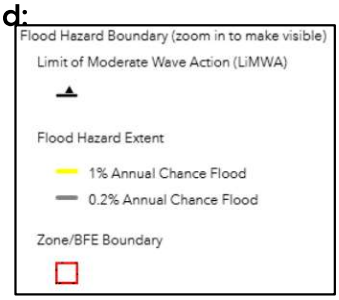
Advisory Base Flood Elevation Image – (PR-CRP-000312)
Plaza Juan F. Arroyo (PR-CRP-000312)

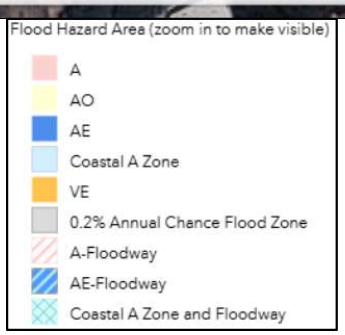
Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)





Legend:





Source: FEMA Advisory Base Flood Maps (https://www.arcgis.com/apps/mapviewer/index.html?layers=10551da8fcd24062b1857473252b3df8)

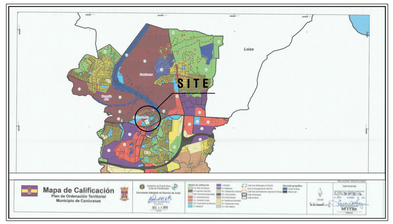
ATTACHMENT III: DESIGN PLANS



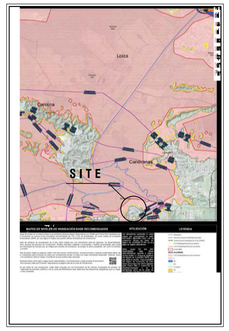
Project Image



Location Map



Zoning Map



Flood Map

Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

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Carolina, PR, 00979 - Office Tel: +1 (787) 236-0630
e-mail: info@hformationstudio.com

Julián Manríquez Botello
LIC: MXX DCCC
EXP: 18.X.2025

Cadastral No: 089-086-015-01

Drawing List

General

T-1	TITLE SHEET
L-001	SYMBOLS, LEGEND & ABBREVIATIONS
GN-1.0	GENERAL NOTES
GDN-1.0	GENERAL DEMOLITION NOTES
SY-1.0	LAND SURVEY AND TOPOGRAPHY

Civil

C-1.0	CIVIL GEOMETRY SITE PLAN
C-1.1	CIVIL DETAILS
C-2.0	PROPOSED GRADING SITE PLAN
C-2.1	STORM WATER DRAINAGE PLAN & DETAILS
C-3.0	TRAFFIC CONTROL PLAN & DETAILS
C-3.1	PEDESTRIAN CROSSWALK PLANS & DETAILS
C-3.2	SPEED TABLE PLANS & DETAILS
C-3.3	PAVEMENT JOINT LAYOUT PLAN & DETAILS
C-4.0	MAINTENANCE OF TRAFFIC (MOT) PLAN
C-4.1	MAINTENANCE OF TRAFFIC (MOT) PLAN
C-4.2	MOT NOTES &DETAILS
C-4.3	MOT NOTES & DETAILS
C-5.0	CES PLAN & DETAILS

Architecture

L-1.0	PLANTING LAYOUT PLAN & DETAILS
ED-1.0	EXISTING DEMOLITION PLAN & NOTES
ED-1.1	EXISTING DEMOLITION PLAN & NOTES CONT.
AS-1.0	PROPOSED SITE PLAN
A-1.0	PROPOSED FLOOR PLAN & DETAILS
A-1.1	PROPOSED FLOOR PLAN & DETAILS CONT.
A-1.2	DESCRIPTIVE GEOMETRY
A-1.3	DESCRIPTIVE GEOMETRY CONT.
A-1.4	DESCRIPTIVE GEOMETRY CONT.
A-1.5	SIDEWALK CORNER BLOWUP PLAN
A-1.6	SIDEWALK CORNER BLOWUP PLAN CONT.
A-2.0	GENERAL ELEVATIONS
A-3.0	GENERAL SECTIONS
A-4.0	STAIR PLANS & DETAILS
A-4.1	STAIR SECTIONS & DETAILS
A-5.0	GALLERY PLANS & DETAILS
A-5.1	GALLERY ELEVATIONS & SECTIONS
A-5.2	GALLERY UNFOLDED PLAN
A-5.3	GALLERY UNFOLDED LAYOUT CONT.
A-5.4	MODULE ASSEMBLY TYPES & DETAILS
A-5.5	MODULE ASSEMBLY TYPES & DETAILS CONT.
A-6.0	ELECTRICAL CLOSET PLANS & DETAILS
A-6.1	ELECTRICAL CLOSET PLANS & DETAILS CONT.
A-6.2	ELECTRICAL CLOSET PLANS & DETAILS CONT.
A-7.0	PAVER PATTERN LAYOUT PLAN & DETAILS
A-7.1	PAVER PATTERN LAYOUT PLAN & DETAILS CONT.
A-7.2	PAVER & DETAILS
A-7.3	PAVER INSTALLATION SEQUENCE
A-7.4	PAVER INSTALLATION SEQUENCE CONT.
A-8.0	PROPOSED LIGHTING LAYOUT PLAN, DETAILS & SCHEDULES

Structural

S-1.0	FOUNDATION PLAN
S-1.1	FOUNDATION PLAN
S-1.2	GALLERY FOUNDATION PLAN & DETAILS
S-1.3	FOUNDATION DETAILS
S-1.4	FOUNDATION DETAILS CONT.
S-2.0	GALLERY STRUCTURAL PLAN & DETAILS
S-3.0	STRUCTURAL NOTES & DETAILS
S-3.1	STRUCTURAL NOTES & DETAILS

Plumbing

P-1.0	PLUMBING DISTRIBUTION PLANS & DETAILS
P-2.0	PLUMBING NOTES & DETAILS

Electrical

E-1.0	PROPOSED LAYOUT PLAN
E-2.0	PROPOSED LIGHTING LAYOUT PLAN
E-3.0	PROPOSED POWER LAYOUT PLAN
E-4.0	LEGEND, NOTES, & SCHEDULES

Telecommunications

T-1.0	TTC SITE PLAN
T-2.0	TTC NOTES & DETAILS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica Esq. Calle Muñoz Rivera
Canovanas,PR 00729

ARCHITECT
XXX
XXX

CIVIL
JOG Engineering, Corp.
José O. González García, P.E.

STRUCTURAL
JOG Engineering, Corp.
José O. González García, P.E.

MECHANICAL A/C
XXX
XXX

PLUMBING
XXX
XXX

FIRE PROTECTION
XXX

ELECTRICAL
Requena & Asociados
Alfonso Lázaro, P.E.

Consultants

LANDSCAPE COMMUNICATIONS
XXX
XXX

ELECTRONIC/AUDIOVISUAL
XXX
XXX

THEATER/ACOUSTICAL
XXX
XXX

LIGHTING DESIGN
XXX
XXX

SECURITY
XXX
XXX

ENVIRONMENTAL / HAZARDOUS MATERIAL
XXX
XXX

DIGITAL FABRICATION
XXX
XXX

Specialty Consultants

BID SET January 10, 2025

Abbreviations

A-I		J-Z	
[E]	EXISTING	JAN	JANITOR
[N]	NEW	JT	JOINT
AB	ANCHOR BOLT	LAM	LAMINATE
ACT	ACCOUSTICAL CEILING TILE	LP	LOW POINT
ACCOUST	ACCOUSTICAL	LAV	LAVATORY
AFF	ABOVE FINISH FLOOR	MAX	MAXIMUM
AFFE	ABOVE FINISH FLOOR ELEVATION	MECH	MECHANICAL
AFFL	ABOVE FINISH FLOOR LEVEL	MH	MANHOLE
ALT	ALTERNATE	MIN	MINIMUM
ALUM	ALUMINUM	MO	MASONRY OPENING
APPROX	APPROXIMATE	MISC	MISCELLANEOUS
ARCH	ARCHITECTURAL	MTD	MOUNTED
ASPH	ASPHALT	MTL	METAL
BB	BOTTOM OF BEAM	NIC	NOT IN CONTRACT
BD	BOARD	NO	NUMBER
BLDG	BUILDING	NTS	NOT TO SCALE
BLKG	BLOCKING	OC	ON CENTER
BM	BEAM	OD	OUTSIDE DIAMETER
BOD	BOTTOM OF DECK	OH	OVERHEAD
BOS	BOTTOM OF SLOPE	OPNG	OPENING
BOT	BOTTOM	OPP	OPPOSITE
BT	BOTTOM CURB	PBC	PLUMBING CONTRACTOR
BS	BOTH SIDES	PL	PLATE
BW	BOTTOM WALL	PLAS LAM	PLASTIC LAMINATE
CB	CATCH BASIN	PLYWD	PLYWOOD
CJ	CONTROL JOINT	PNT	PAINT
CLG	CEILING	PR	PAIR
CL	CENTER LINE	PT	POINT OF TANGENCY
CLR	CLEAR	RAD	RADIUS
CMU	CONCRETE MASONRY UNIT	RD	ROOF DRAIN
COL	COLUMN	REINF	REINFORCED
CONC	CONCRETE	REQD	REQUIRED
CONT	CONTINUOUS	RESIL	RESILIENT
CONTR	CONTRACTOR	RM	ROOM
CPT	CARPET	RO	ROUGH OPENING
CT	CERAMIC TILE	RTU	ROOF TOP UNIT
CTR	CENTER	SHTG	SHEATHING
DBL	DOUBLE	SIM	SIMILAR
DET	DETAIL	SPECS	SPECIFICATIONS
DIA	DIAMETER	SQ	SQUARE
DN	DOWN	SS	STAINLESS STEEL
DR	DOOR	STA	STATION
DS	DOWN SPOUT	STD	STANDARD
DWG	DRAWING	STL	STEEL
EA	EACH	STRUCT	STRUCTURAL
EF	EACH FACE	SUSP CLG	SUSPENDED CEILING
EJ	EXPANSION JOINT	TBD	TO BE DETERMINED
ELC	ELECTRICAL CONTRACTOR	TBS	TO BE SELECTED
ELEC	ELECTRICAL	TOB	TOP OF BEAM
ELEV	ELEVATION (FACADE)	TOC	TOP OF CURB
EQ	EQUAL	TOPA	TOP OF PANEL
EQUIP	EQUIPMENT	TOP	TOP OF PARAPET
EXF	EXHAUST FAN	TOS	TOP OF STAIR
EXP	EXPANSION	TOST	TOP OF STRUCTURE
EXIST	EXISTING	TOW	TOP OF WALL
EW	EACH WAY	TYP	TYPICAL
EWC	ELECTRIC WATER COOLER	UNF	UNFINISHED
FD	FREE DISCHARGE (ROOF DRAIN)	UON	UNLESS OTHERWISE NOTED
FDN	FOUNDATION	VCT	VINYL COMPOSITE TILE
FFE	FINISH FLOOR ELEVATION	VIF	VERIFY IN FIELD
FH	FIRE HYDRANT	W/	WITH
FIN	FINISH (ED)	WD	WOOD
FLR	FLOOR		
FP	FIREPROOF		
FTG	FOOTING		
FURR	FURRING		
GA	GAUGE		
GALV	GALVANIZED		
GCC	GENERAL CONSTRUCTION CONTRACTOR		
GL	GLASS		
GRD	GRADE		
GYP	GYPSUM		
HAC	HEATING & A/C CONTRACTOR		
HB	HOSE BIB		
HC	HOLLOW CORE		
HDWD	HARDWOOD		
HM	HOLLOW METAL		
HORIZ	HORIZONTAL		
HP	HIGHT POINT		
HT	HEIGHT		
ID	INSIDE DIAMETER		
IDC	INSIDE DIMENSION CLEAR		
INSUL	INSULATION		
INT	INTERIOR		

Acronyms

SAD	SEE ARCHITECTURAL DRAWINGS
SSD	SEE STRUCTURAL DRAWINGS
SCD	SEE CIVIL DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SED	SEE ELECTRICAL DRAWINGS
SLD	SEE LANDSCAPE DRAWINGS
SD & TD	SEE DATA & TELECOMMUNICATION DRAWINGS

Symbols

NORTH ARROW

ELEVATION DESIGNATION / REFERENCED DRAWING — ELEVATION - EXTERIOR

SECTION DESIGNATION / REFERENCED DRAWING — GENERAL SECTION

PARTIAL OR WALL SECTION DESIGNATION / REFERENCED DRAWING — PARTIAL OR WALL SECTION

ELEVATION - INTERIOR

DETAIL DESIGNATION / REFERENCED DRAWING — DETAIL

DOOR DESIGNATION # / HARDWARE DESIGNATION # — DOOR DESIGNATION

WINDOW DESIGNATION

NOTE INDICATOR

DEMOLITION NOTE INDICATOR
A. ACCESSORIES/MISCELLANEOUS
C. CEILING
D. DOORS/FRAMES
F. FLOOR
M. MECHANINCAL/PLUMBING
P. PARTITIONS
W. WINDOWS

REVISION INDICATOR

ROOM NAME — SPACE IDENTIFICATION NAME

23 — SPACE DESIGNATION #

REF. CLG. WALL / FLOOR BASE — FINISHES KEY

1 — FIXTURE/EQUIPMENT IDENTIFIER

+14'-6" A.F.F.E. — ELEVATION - AT FINISH FLOOR LEVEL

+14'-0" A.F.E.E. — ELEVATION - AT CEILING LEVEL

1 / A-2.6 — DETAIL SECTION

CHANGE IN FLOOR FINISH

CHANGE OF FLOOR FINISH WHERE THRESHOLD OR SADDLE OCCURS

XX — STRUCTURAL AXIS

CHANGE IN FLOOR LEVEL

HIDDEN OUTLINE (SHOWING CONDITION BELOW, ABOVE, BEHIND OR BEYOND)

MATCH LINE

12% — SLOPE

130.6' — EXISTING SPOT ELEVATION

130.6' — PROPOSED SPOT ELEVATION

6" — DIMENSION - PRIMARY - TXT HT. 3/32" - & OFFSET 1/8"

6" — DIMENSION - SECONDARY - TXT HT. 3/64" - & OFFSET 1/32"

ANNOTATION ARROW

ANNOTATION DOT

CENTER LINE

BREAK LINE

Floor Plan

SCALE : 1/128" = 1'-0"

A-2.1

BID SET February 25, 2017

NOT FOR CONSTRUCTION

Legend

- EXISTING CONSTRUCTION TO REMAIN
- WALLS TO BE DEMOLISHED
- STRUCTURAL CONCRETE WALL
- CONCRETE BLOCK WALL
- GWB. PARTITION
- ELEMENTS TO BE REMOVED
- PROPERTY LINE

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON

PROFESSIONAL SEAL

Julián Manríquez Botello Puerto Rico — LIC: MXX DCCC III EXP: 10.X.2025

ARCHITECTURE - EXPERTISES + FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19882, CERTIFICO QUE ESTE PLANO ES PROFESIONAL QUE DISEÑÉ CONFECCIONÉ Y PREPARÉ ESTOS PLANOS, Y QUE ESTOS PLANOS Y ESPECIFICACIONES PARA LA CONSTRUCCIÓN QUE DESCRITO PLANOS Y ESPECIFICACIONES QUE EXISTEN CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O COMPETENTES PÚBLICOS CON JURISDICCIÓN SOBRE EL TIPO DE CONSTRUCCIÓN DESCRITO EN ESTOS PLANOS Y ESPECIFICACIONES. CUMPLIDO CON ALMENOS LOS REQUISITOS MÍNIMOS ESTABLECIDOS EN DICHOS CÓDIGOS Y REGLAMENTOS. EXCEPTO POR LA INDICACIÓN CONTRARIA EN LA LEY NUMERO 96 DEL 5 DE JULIO DE 1978, SEGÚN ENMENDADA, RECONOZCO QUE CUALQUIER ALTERACIÓN A ESTOS PLANOS SIN LA PARTICIPACIÓN DE UN ARQUITECTO O INGENIERO AUTORIZADO PUEDE CONSTITUIR UN DELITO MENOR. EL CUMPLIMIENTO DE ESTOS REGLAMENTOS, CÓDIGOS Y LEYES ES RESPONSABILIDAD DE LOS PROPIETARIOS, EMPLEADOS, O POR OTRAS PERSONAS QUE TENGAN EL CONTROL DE LA PROPIEDAD. ME HACEN RESPONSABLE POR LA DISCIPLINA PARA LA CUAL ESTOY CERTIFICADO. NO ME HAGO RESPONSABLE POR OTRAS DISCIPLINAS QUE NO SEAN LA MÍA. ESTOS PLANOS SON PROPIEDAD INTELECTUAL DE LA OFICINA DE ARQUITECTURA QUE LOS DISEÑÓ. EL USO NO AUTORIZADO, LA COPIA O LA REPRODUCCIÓN TOTAL O PARCIAL DE ESTOS PLANOS SIN EL CONSENTIMIENTO ESCRITO DEL ARQUITECTO QUE LOS DISEÑÓ CONSTITUYE UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR. TODOS LOS DERECHOS RESERVADOS. ESTE DISEÑO ES PROPIEDAD INTELECTUAL DE LA OFICINA DE ARQUITECTURA QUE LO DISEÑÓ. EL USO NO AUTORIZADO, LA COPIA O LA REPRODUCCIÓN TOTAL O PARCIAL DE ESTOS PLANOS SIN EL CONSENTIMIENTO ESCRITO DEL ARQUITECTO QUE LOS DISEÑÓ CONSTITUYE UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR. TODOS LOS DERECHOS RESERVADOS. ESTE DISEÑO ES PROPIEDAD INTELECTUAL DE LA OFICINA DE ARQUITECTURA QUE LO DISEÑÓ. EL USO NO AUTORIZADO, LA COPIA O LA REPRODUCCIÓN TOTAL O PARCIAL DE ESTOS PLANOS SIN EL CONSENTIMIENTO ESCRITO DEL ARQUITECTO QUE LOS DISEÑÓ CONSTITUYE UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR. TODOS LOS DERECHOS RESERVADOS.

STUDIO

h.formation
s t u d i o

landscape . architecture . product

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñoz, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Symbols, Legend, Abbreviations & Acronyms

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
2	krs	26.vi.2024

DESCRIPTIVE

L-001

BID SET January 10, 2025

General Notes

1.0 THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AT SITE AND NOTIFY, THE PROJECT ARCHITECT OR CONSTRUCTION REPRESENTATIVE OF ANY AND ALL DISCREPANCIES AND LIST ANY WORK NOT YET COMPLETED BEFORE STARTING WORK.

2.0 ALL WORK ON THIS PROJECT SHALL BE IN ACCORDANCE WITH ALL CODES, SUB-CODES AND BUILDING DEPARTMENTS HAVING JURISDICTION. GENERAL CONTRACTOR TO CONTACT LOCAL BUILDING OFFICIALS FOR SPECIFIC REQUIREMENTS FOR THIS PROJECT.

3.0 THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS FOR THE GENERAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS REQUIRED FOR THE WORK NOTED ON THESE PLANS AND SPECIFICATIONS.

4.0 BOTH THE OWNER'S GENERAL CONTRACTORS AND ALL SUBCONTRACTORS WORKING ON THIS PROJECT ARE RESPONSIBLE FOR CONTACTING THE PUBLIC UTILITY COMPANIES SUPPLYING UTILITIES TO THE AREA WHERE THE PROJECT IS LOCATED. IN ORDER TO VERIFY LOCATIONS OF UTILITIES, UNDERGROUND OR OVERHEAD, AND SECURE THE PROPER PROCEDURES WHILE WORKING ADJACENT TO, ABOVE OR NEAR SUCH UTILITIES TO AVOID ANY PROBLEMS WITH EXPLOSIONS, DISCONNECTIONS, REMOVALS, ETC.

5.0 THE GENERAL CONTRACTOR SHALL LAY OUT WORK AS SPECIFIED IN THE DRAWINGS AND SHALL BE HELD RESPONSIBLE FOR PROPER ESTABLISHMENT AND MAINTENANCE OF ALL LINES AND DIMENSIONS, BEFORE DOING ANY WORK. THIS GENERAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE SITE AND NOTIFY THE ARCHITECT, THE OWNER AND THE OWNER'S CONSTRUCTION REPRESENTATIVE OF ANY DISCREPANCIES VERBALLY AND THEN IN WRITING.

6.0 ALL CONTRACTORS SHALL BE BONDABLE, LICENSED CONTRACTORS POSSESSING GOOD LABOR RELATIONS AND MUST BE CAPABLE OF QUALITY WORKMANSHIP, IN HARMONY WITH OTHER CONTRACTORS WORKING ON THE PROJECT, THE OWNER TO BE NOTIFIED OF THE NAMES OF ALL POTENTIAL SUBCONTRACTORS PRIOR TO AWARDING BIDS.

7.0 PRIOR TO COMMENCEMENT OF ANY WORK, THE GENERAL CONTRACTOR SHALL CONTACT AND MEET WITH OWNER AND PROJECT MANAGEMENT REPRESENTATIVE FOR A PRE-CONSTRUCTION MEETING, AT WHICH TIME THE GENERAL CONTRACTOR WILL PRESENT TO ALL PARTIES A LIST OF NAMES, ADDRESSES, BUSINESS AND HOME TELEPHONE NUMBERS OF THE SUBCONTRACTORS FOR THIS PROJECT.

8.0 THE GENERAL CONTRACTOR, ALL SUBCONTRACTORS OR OUTSIDE SERVICES COMPLETING WORK ON THIS PROJECT SHALL COMPLY WITH ALL THE PROVISIONS OF O.S.H.A. (OCCUPATIONAL SAFETY AND HEALTH ACT).

9.0 THE GENERAL CONTRACTOR SHALL HAVE AT ALL TIMES, AT THE PREMISES, APPROVED WORKING DRAWINGS (IF APPLICABLE) AND BUILDING DEPARTMENT APPROVED PERMIT DRAWINGS.

10.0 ALL CLEARANCES OF PIPES AND DUCT WORK INSTALLED BY THE GENERAL CONTRACTOR OR SUBCONTRACTORS MUST BE MAINTAINED FOR ADEQUATE HEIGHTS REQUIRED FOR CEILING SYSTEM AND LIGHT FIXTURES.

11.0 THE CONTRACTORS AND SUBCONTRACTORS PARTICIPATING IN THE PERFORMANCE OF WORK SHALL REMOVE AND DISPOSE OF, AT LEAST ONCE A WEEK AND MORE FREQUENTLY AS MAY DIRECT, ALL DEBRIS AND RUBBISH CAUSED BY OR RESULTING FROM THE PERFORMANCE OF WORK AND, UPON COMPLETION THEREOF, REMOVE ALL TEMPORARY STRUCTURES, SURPLUS MATERIALS, DEBRIS AND RUBBISH OF ANY KIND THEREFROM DURING IN THE WORK AREA WHICH HAD BEEN BROUGHT IN OR CREATED BY THE CONTRACTOR AND SUBCONTRACTORS IN THE PERFORMANCE OF WORK. THIS CONTRACTOR MUST MAINTAIN A CLEAR PATH OF EGRESS FROM THE SITE FREE FROM TRASH AND RUBBISH AT ALL TIMES. ALL REMOVAL OF CONSTRUCTION DEBRIS TO AN APPROVED DUMPING SITE TO BE INCLUDED IN THE GENERAL CONTRACTOR'S WORK.

12.0 ALL FINISH AND EXPOSED WOOD SHALL RECEIVE A FIRE RETARDANT COATING OR TREATMENT IF REQUIRED BY CODE OR THE LOCAL FIRE MARSHALL. NO WOOD OR COMBUSTIBLE MATERIAL SHALL BE USED ABOVE THE SUSPENDED CEILING UNLESS NON-COMBUSTIBLE LUMBER IS USED AND IS SPECIFICALLY ALLOWED BY U.B.C, LOCAL BUILDING CODES, THE FIRE MARSHALL AND ALL AGENCIES HAVING JURISDICTION. IF FIRE TREATED WOOD IS REQUIRED FOR FIXTURING ITEMS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR EXECUTING THIS WORK AS PER BUILDING OFFICIALS' REQUIREMENTS. THE WOOD MUST BEAR THE U.L. APPROVAL AND MILL STAMP INDICATING IT WAS PROPERLY TREATED.

13.0 ALL EQUIPMENT, MILLWORK AND FIXTURES SUPPLIED BY OWNER TO BE UNLOADED, ASSEMBLED AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE REPRESENTATIVE.

14.0 ANY SUBSTITUTIONS OF FINISH MATERIALS MUST BE APPROVED BY THE ARCHITECT IN WRITING. GENERAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING TWO (2) SAMPLES OF EACH SUBSTITUTION.

15.0 EACH CONTRACTOR AND SUBCONTRACTOR PERFORMING WORK SHALL MAINTAIN CONTINUOUS PROTECTION OF ADJACENT PREMISES IN SUCH MANNER AS TO PREVENT ANY DAMAGE TO ADJACENT PROPERTY AND IMPROVEMENTS BY REASON OF THE PERFORMANCE OF WORK. EACH CONTRACTOR AND SUBCONTRACTOR SHALL PROPERLY PROTECT WORK WITH LIGHTS, GUARD RAILS, AND BARRICADES AND SECURE ALL PARTS THEREOF AGAINST STORM AND ACCIDENT.

16.0 WHEN BIDDING THIS PROJECT, EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND VERIFYING EXISTING CONDITIONS AS REFLECTED IN THESE CONTRACT DOCUMENTS. ANY EXTRA WORK REQUIRED BUT NOT INCLUDED IN THE DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY.

17.0 GENERAL CONTRACTORS AND ALL SUBCONTRACTORS ARE REQUIRED TO FURNISH THE MINIMUM COVERAGE AND LIMITS OF LIABILITY DESCRIBED ON THE CONTRACT DOCUMENTS.

18.0 GENERAL CONTRACTORS ARE REQUIRED TO FAMILIARIZE ALL PERSONS AND SUBCONTRACTORS WORKING ON THIS PROJECT WITH THESE GENERAL NOTES AND THE CONTRACT DOCUMENTS NOTED IN THESE DRAWINGS. GENERAL CONTRACTORS SHALL BE RESPONSIBLE FOR FULLY ACQUAINTING THEMSELVES WITH THE CONTENT AND SCOPE OF THESE SPECIFICATIONS, AND SPECIAL ATTENTION SHOULD BE GIVEN THE SPECIFICATIONS THROUGHOUT THE SPAN OF THIS PROJECT BY THESE GENERAL CONTRACTORS, SUPERVISORS AND SUBCONTRACTORS. AS THE STANDARD ESTABLISHED HEREIN SHALL BE APPLIED, WITH EMPHASIS TO ALL WORK, WORK DECLARED UNACCEPTABLE BY THE OWNER/ARCHITECT SHALL BE CORRECTED IN A MANNER AND TO A DEGREE OF QUALITY AS ACCEPTABLE BY THE OWNER.

19.0 THE GENERAL CONDITIONS OF THE "CONTRACT FOR CONSTRUCTION" DOCUMENT A-201, ISSUED BY THE AMERICAN INSTITUTE OF ARCHITECTS, 1981 EDITION, RELATES TO THE WORK OF THIS PROJECT AND IS HEREBY MADE A PART OF THESE DRAWINGS AS THOUGH FULLY CONTAINED IN THESE DRAWINGS. THE GENERAL CONTRACTORS AND ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY NUMBER OF COPIES OF DOCUMENT A-201, TO ACQUAINT HIMSELF WITH THE ARTICLES CONTAINED THEREIN AND TO REVIEW WITH ALL SUBCONTRACTORS, SUPPLIERS AND ANY OTHER PARTIES TO THE CONTRACT OR INDIVIDUALS OR AGENCIES ENGAGED ON THE WORK AS TO ITS CONTENTS.

20.0 ONLY THE CLIENT'S REPRESENTATIVE, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK, ALTER, ADD TO, OR DEDUCT FROM THE CONTRACT WORK. THE CONTRACT SUM SHALL BE ADJUSTED ACCORDINGLY, AND SUCH COSTS SHALL BE COMPETITIVE WITH LOCAL CONSTRUCTION COSTS.

21.0 AT THE TIME OF FINAL SUBMITTAL FOR ALL COSTS BY THE GENERAL CONTRACTOR TO THE OWNER, INCLUDING BASE BID, EXTRAS AND CREDITS, THE OWNER'S GENERAL CONTRACTOR'S SUBCONTRACTORS SHALL FURNISH TO THE OWNER A WRITTEN GUARANTEE STIPULATING THAT, AT NO ADDITIONAL COST TO THE OWNER CONTRACTOR, ANY DEFECTIVE WORK OR MATERIALS SHALL BE REPAIRED OR REPLACED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF WORK, UNLESS OTHERWISE NOTED.

22.0 NO EXTRAS FOR COSTS CAN BE AUTHORIZED UNLESS APPROVED IN WRITING BY THE ARCHITECT OR THE OWNER'S CONSTRUCTION REPRESENTATIVE. ANY ISSUES OF CREDITS TO BE CALCULATED BASED ON COMPETITIVE RATES AND EQUIPMENT'S COSTS APPROVED BY THE ARCHITECT.

23.0 FOR CLARIFICATION PURPOSES, CLIENT AND OWNER ARE THE SAME PARTY. GENERAL CONTRACTOR WILL BE REQUIRED TO HANDLE ALL WORK IN THESE DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE.

24.0 THE CONTRACTORS ARE REQUIRED TO HAVE ALL SUBCONTRACTORS REVIEW THESE ABOVE NOTES PRIOR TO BIDDING AND TO FOLLOW-UP AND EXECUTE AS WRITTEN.

25.0 THE DESIGN CONCEPT LEAVES ZERO OR MINIMAL CLEARANCE FOR ERROR IN REGARD TO LAYOUT; "HOLD DIMENSION" INDICATIONS ARE TO BE ADHERED TO AND THE CONTRACTOR IS TOTALLY RESPONSIBLE FOR ERROR OR OMISSION. ANY QUESTIONS RELATING TO DIMENSIONING ARE TO BE ADDRESSED TO THE ARCHITECT ONLY.

26.0 ALL PAYMENTS MADE TO THE GENERAL CONTRACTOR FOR THIS PROJECT ARE TO BE ALLOCATED FOR THIS PROJECT ONLY. FOR PAYMENTS TO SUBCONTRACTORS, MATERIAL SUPPLIERS AND AGENTS AUTHORIZED BY THE SPECIFIC CONTRACTOR TO PERFORM WORK OR SUPPLY MATERIALS TO THIS PROJECT ONLY, THE GENERAL CONTRACTORS ARE REQUIRED TO SUBMIT PARTIAL WAIVERS OF LIENS FOR THEIR WORK AS WELL AS SUBCONTRACTORS OR MATERIAL SUPPLIERS, UPON THE REQUEST OF THE CLIENT OR THE CLIENT'S ARCHITECT AND THE REQUEST FOR THE FINAL 10% RETENTION ON THIS PROJECT MUST INCLUDE SIGNED AND EXECUTED WAIVERS OF LIEN INDICATING 100% COMPLETION AND 100% PAYMENT IN FULL, BY ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS.

27.0 ALL EXITS SHALL BE UNOBSTRUCTED AT ALL TIMES, DURING CONSTRUCTION AND OCCUPANCY.

28.0 THE GENERAL CONTRACTOR, AT THE POINT OF "SUBSTANTIAL COMPLETION" AND "TURNOVER" MUST COMPLETE, AT GENERAL CONTRACTOR'S COST AND EXPENSE (FINAL PAYMENT CANNOT BE REQUESTED UNLESS ALL OF THIS WORK NOTED IS COMPLETED):
A) FINAL INSPECTIONS BY ALL BODIES HAVING JURISDICTION NECESSARY FOR FINAL COMPLETION, CERTIFICATE OF OCCUPANCY OR COMPLETION, WHICHEVER IS APPLICABLE.
B) FINALIZE ALL PUNCH LISTS AND/OR REQUIREMENTS, TO THE SATISFACTION OF BOTH THE ARCHITECT AND THE OWNER
C) FINALIZE CHANGES ON PLANS AND SPECIFICATIONS AND MARK ALL APPROVED BUILDINGS DEPARTMENT, FIRE MARSHALL AND OWNER CHANGES ON A SET OF COPIES FOR BOTH OWNER ARCHITECT AND FORWARD SUCH INFORMATION TO BOTH PARTIES VIA COURIER. MARKUPS SHALL BE COMPLETED USING A CLOUD PROCEDURE WITH A MAGIC MARKER TO EASILY DISTINGUISH CHANGES FROM ORIGINAL WORK.

29.0 IF THE OWNER OR ARCHITECT DO NOT MAKE REPEATED SITE VISITS CONTINUALLY OR AT ALL, THE GENERAL CONTRACTOR IS NOT RELIEVED OF ANY RESPONSIBILITY OR DUTIES INVOLVED IN THIS CONSTRUCTION WORK.

30.0 THE CONSTRUCTION DRAWINGS LISTED ON THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BASED ON THE BEST INFORMATION AVAILABLE DURING PREPARATION OF PLANS. IN THE EVENT THAT PROBLEMS ARISE DURING THE COURSE OF THE PROJECT, DUE TO UNKNOWN SITE CONDITIONS OR CODE AND REQUIREMENTS (IF ANY) THAT CONFLICT WITH DRAWINGS, THE GENERAL CONTRACTOR SHALL INFORM THE ARCHITECT IMMEDIATELY.

31.0 THE PROPER RECEIPT OF ALL NEW MATERIALS AND EQUIPMENT AT THE JOB SITE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, AND/OR HIS/HER SUBCONTRACTORS (IF ANY). SECURE AND SAFE STORAGE OF ALL NEW AND EXISTING MATERIALS AND EQUIPMENT TO REMAIN (IF ANY) WILL BE PROVIDED BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR TO IMMEDIATELY ADVISE CONSTRUCTION DEPT. OF ALL DAMAGED OR DEFICIENT SHIPMENTS OF MATERIALS AND EQUIPMENT, WHETHER SUPPLIED BY TENANT OR DIRECTLY BY CONTRACTOR OR HIS/HER SUPPLIERS. GENERAL CONTRACTOR TO COMPLETE AND SUBMIT ALL NECESSARY PAPERWORK AND ARRANGE INSPECTIONS OF DAMAGED GOODS AS PER TENANT CONSTRUCTION DEPT. REQUIREMENTS.

32.0 THE GENERAL CONTRACTOR IS REQUIRED TO ADHERE TO ALL NEW REQUIREMENTS, STATED OR NOT ON THESE PLANS AND SPECIFICATIONS, FOR THE LATEST A.D.A. LAW EFFECTIVE JANUARY 26, 1992. THIS LAW IS A CIVIL RIGHTS LAW AND THE EXCLUSION OF REQUIREMENTS BY THE LOCAL CODE OFFICIALS DOES NOT RELIEVE THE TENANT OR THE TENANT'S CONTRACTOR OF ADHERING TO THE NECESSARY WORK, EITHER DURING CONSTRUCTION OR AFTER OCCUPANCY.

33.0 QUALITY STANDARDS: ALL SUCH WORK SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER AND SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION THEREOF. GENERAL CONTRACTOR SHALL REQUIRE ANY PERSON PERFORMING ANY SUCH WORK TO GUARANTEE THE SAME TO BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND MATERIALS FOR ONE (1) YEAR FROM THE DATE OF COMPLETION THEREOF. OWNER SHALL ALSO REQUIRE ANY SUCH PERSON TO BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR WITHOUT ADDITIONAL CHARGE, OF ANY AND ALL WORK DONE OR FURNISHED BY OR THROUGH SUCH PERSON, WHICH SHALL BECOME DEFECTIVE WITHIN ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION OF THE WORK. ANY CORRECTION OF SUCH WORK SHALL INCLUDE, WITHOUT ADDITIONAL CHARGE, ALL EXPENSES AND DAMAGES IN CONNECTION WITH SUCH REMOVAL, REPLACEMENT OR REPAIR OF ANY PART OF THE WORK WHICH MAY BE DAMAGED OR DISTURBED THEREBY. ALL WARRANTIES OR GUARANTEES AS TO MATERIALS OR WORKMANSHIP ON OR WITH RESPECT TO OWNER'S WORK SHALL BE CONTAINED IN THE CONTRACT OR SUBCONTRACT WHICH SHALL INURE TO THE BENEFIT OF OWNER, AND CAN BE DIRECTLY ENFORCED BY HIM/HER. GENERAL CONTRACTOR TO HAVE THIS CLAUSE IN EVERY SUBCONTRACTOR AGREEMENT FOR THE PROJECT AND IF SUCH CLAUSE IS NOT INCLUDED, IT WILL NOT RELIEVE THE GENERAL CONTRACTOR OF THE REQUIREMENTS OR WORK STATED HEREIN.

34.0 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT, UNLESS CONTRACT DOCUMENTS GIVE OTHER SPECIFIC INSTRUCTIONS CONCERNING THESE MATTERS. SEE AIA DOCUMENT A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRICTION, ARTICLE 3, SECTION 3.3.1 (1987 EDITION)

35.0 THE ARCHITECT SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT FOR CONSTRUCTION.

36.0 THE GENERAL CONTRACTOR AND/OR HIS/HER SUBCONTRACTOR IS TO COMPLETE ALL FINISHES AS PER PLANS AND SPECIFICATIONS. THE FINISHES NOTED MAY FOR VARIOUS REASONS BE CHANGED BASED ON AVAILABILITY AND/OR APPROVAL OF DIFFERENT MANUFACTURES AND/OR HIS/HER SUBCONTRACTOR WILL BE REQUIRED TO ADHERE TO THE EXACT SPECIFICATION ON DRAWINGS, BASED ON THE TYPE OF SUBSTRATE AND/OR THE SUBSTRATE PREPARATION, AND CORRECT APPLICATION AND/OR NECESSARY WORK FOR PROPER ADHESION AND/OR EXPANSION/CONTRACTION OF THE FINISH MATERIAL OR SUCH SUBSTRATE.

37.0 IF THERE IS A DISCREPANCY BETWEEN A SMALLER DETAIL OR PLAN REGARDING INFORMATION, SIZING, MEASURING, ETC., AND A LARGER DETAIL OR PLAN, THE GENERAL CONTRACTOR AND/OR THE SUBCONTRACTOR WORKING ON THE DETAIL/PLAN IS TO CONTACT THE ARCHITECT OR THE ARCHITECT'S REPRESENTATIVE PRIOR TO STARTING THAT PARTICULAR WORK.

38.0 THE CONSTRUCTION DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONDITIONS, ETC.) REFER TO EXISTING CONDITIONS AT THE SITE AT THE TIME THE DOCUMENT'S PRODUCTION COMMENCED. THE ARCHITECTS ARE NOT RESPONSIBLE FOR ANY ADDITIONAL DESIGN WORK RELATED TO DAMAGE, ALTERATIONS, OR CONSTRUCTION WORK PERFORMED ON SITE AFTER MENTIONED DATE.

39.0 WORDS "SUPPLY", "INSTALL", "PROVIDE", "REPLACE", ETC, REFER TO NEW MATERIALS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AS PART OF THE CONSTRUCTION CONTRACT. UNLESS SPECIFIED OTHERWISE ON INSTALLATION DETAILS WHERE NOT ALL MATERIALS OR PROCEDURES ARE SPECIFIED, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PARTS AND SHALL CARRY ON ALL STANDARD GOOD CONSTRUCTION PRACTICE METHODS.

40.0 ALL METAL, CONCRETE, CONCRETE COMPOSITE, GYPSUM BOARD, MASONRY, WOOD AND OTHER MATERIAL INTERIOR AND EXTERIOR SURFACES, EITHER NEW OR EXISTING, EXCLUDING DOOR AND WINDOW HARDWARE, ACOUSTIC CEILINGS, FLOOR FINISHES, CERAMIC TILES AND GLASS SURFACES, SHALL BE PAINTED ACCORDING TO PAINT SPECIFICATIONS. THIS INCLUDES ALL CEILINGS, WALLS, RAILINGS, HANDRAILS, PARAPETS, GATES, FIXED GRILLES, DOORS, DOOR FRAMES, WINDOWS, ETC, CLEAN AND PREPARE ALL SURFACES AS PER PAINT SPECIFICATIONS BEFORE APPLYING NEW PAINT, THE ARCHITECT SHALL SUBMIT THE COLOR SCHEMES.

41.0 ACCESS TO THE PROJECT SHALL BE COORDINATED WITH OWNER BEFORE CONSTRUCTION COMMENCEMENT. CONSTRUCTION SITE ACCESS SHALL BE CONTROLLED BY THE CONTRACTOR AND ALL HIS EMPLOYEES SHALL BE DULY IDENTIFIED.

42.0 THE CONTRACTOR SHALL MAINTAIN A GRAPHIC AND WRITTEN RECORD OF ALL CHANGES IN THE DRAWINGS TO SUBMIT TO THE OWNER AT THE END OF THE CONSTRUCTION.

43.0 THE ARCHITECT HAS THE PRERROGATIVE OF CHARGING A FEE OF $125.00 PER HOUR FOR THE REVISION OF SUBSTITUTIONS PRESENTED BY THE CONTRACTOR DURING THE BID OR CONSTRUCTION PERIODS.

44.0 THE CONTRACTOR SHALL TAKE INTO ACCOUNT ALL PRECAUTIONS NOT TO DAMAGE EXISTING TREES AND/OR PLANTS TO REMAIN.

45.0 ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AIR CONDITIONING AND STRUCTURAL EQUIPMENT AND/OR INSTALLATION DETAIL SHALL BE INCLUDED IN THE BASE BID EVEN THOUGH THEY ONLY APPEARS ON ARCHITECTURAL DRAWINGS (AND NOT ON ELECTRICAL, STRUCTURAL, MECHANICAL OR CIVIL DRAWINGS) OR ON ELECTRICAL, STRUCTURAL, MECHANICAL OR CIVIL DRAWINGS (AND NOT ON ARCHITECTURAL DRAWINGS). THE CONTRACTOR SHALL VERIFY THE DRAWINGS BEFORE SUBDIVIDING THE DRAWING SETS FOR SUBCONTRACTOR QUOTATIONS.

46.0 THE CONTRACTOR SHALL INSTALL SIGNS FOR THE HANDICAPPED ON WALLS NEXT TO RAMPS, COMPLYING WITH THE ADA CODE. SUBMIT SAMPLE FOR THE ARCHITECT'S APPROVAL.

47.0 ALL MATERIAL SPECIFIED MUST BE INSTALLED OR APPLIED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

48.0 THE CONSTRUCTOR MUST SUBMIT FINISH SAMPLES FOR THE ARCHITECT'S APPROVAL.

49.0 ALL CONCRETE, CONCRETE BLOCK WALLS & CEILINGS TO BE PLASTERED, UNLESS OTHERWISE NOTED.

50.0 THIS IS A PUBLIC BID THEREFORE WHENEVER AND WHEREVER ON THIS PLANS REFERENCE IS MADE TO A SPECIFIC PRODUCT BRAND OR SUPPLIER THE GENERAL CONTRACTOR SHALL UNDERSTAND THAT AN EQUAL OR SIMILAR MATERIAL OR COMPONENT CAN BE SUBMITTED FOR EVALUATION AND POSSIBLE APPROVAL OR DISAPPROVAL OF THE ARCHITECT.

51.0 CONSTRUCTION TIME & REQUIREMENT FOR THIS PROJECT REFER TO CONTRACT DOCUMENTS.

52.0 CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE STREETS, SIDEWALKS AND BUILDING AREAS TO FAMILIARIZE WITH THE EXTENT OF EXISTING ELEMENTS TO BE DEMOLISHED AND REMOVED. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING ALL DEMOLISHED MATERIALS AND EQUIPMENT AWAY FROM THE SITE AT NO COST TO THE OWNER.

53.0 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO ACTUAL CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES, ERRORS OR OMISSIONS, SO THAT PROPER CORRECTIONS ARE MADE. ALL CHANGES AND REVISIONS TO THE EXTENT OF WORK WILL BE AT NO EXTRA COST TO THE OWNER.

54.0 THE CONTRACTOR SHALL COORDINATE OR VERIFY THE LOCATION OF EXISTING UTILITIES, SUCH AS TELEPHONE, ELECTRICAL CONDUITS, SANITARY, WATER AND STORM SEWER LINES. PRIOR TO PROCEED WITH ANY EXCAVATION OR CONSTRUCTION, IN CASE OF INTERFERENCE WITH EXISTING CONDITION, THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER AT NO COST TO THE OWNER.

55.0 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTIONS TO EXISTING UTILITIES, SUCH US TELEPHONE, ELECTRICAL CONDUITS, SANITARY, WATER AND STORM SEWER LINES WITH NO EXPOSED ENDS, UNLESS OTHERWISE NOTED.

56.0 ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.

57.0 PROVISIONS FOR DETAIL, NOT SPECIFICALLY DRAWN, SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH ACI 318 BUILDING CODE AND/OR CLARIFIED WITH THE DESIGNER.

58.0 ALL DETAILING AND CONSTRUCTION TO BE MADE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE" (ACT 315), "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACT 318) AND ALL OTHER AMERICAN CONCRETE INSTITUTE STANDARDS AND RECOMMENDATIONS FOR ACCEPTABLE PRACTICES.

59.0 IN CASE OF DOUBT IN THE INTERPRETATION OF ALL ASPECT IN THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATIONS, THE DESIGNER SHALL BE CONSULTED.

60.0 THE CONTRACTOR SHALL REPAIR, CLEAN, AND RESTORED TO FINISHED GRADE, AS REQUIRED ALL CURBS, SIDEWALKS AND AREAS AFFECTED DURING THE CONSTRUCTION OPERATION, DUE TO THE MOVEMENT OF HEAVY EQUIPMENT OR THE TEMPORARY STOCKING OF CONSTRUCTION MATERIALS, AT NO ADDITIONAL COST TO THE OWNER, IN ORDER TO MINIMIZE DAMAGE. THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER AND LIMIT TO A MINIMUM THE USE OF AREAS FOR SITE MOVEMENT AND STORAGE OF MATERIALS AND EQUIPMENT.

61.0 CONTRACTOR SHALL REMOVE FROM THIS SITE SCRAP MATERIAL OR ANY OTHER ELEMENT DISCARDED WITHIN THE PROJECT. THIS MAY REQUIRE INSPECTION, HANDLING AND/OR DISPOSAL AT CONTRACTOR OWN EXPENSE.

62.0 THE CONTRACTOR IS ADVISED TO INSPECT THE SITE PRIOR TO HIS BIDDING TO ASCERTAIN THE EXTENT OF WORK REQUIRED IN THE DEMOLITION AND REMOVAL OF EXISTING STRUCTURES AND/OR ELEMENTS.

63.0 DURING DEMOLITION AND CONSTRUCTION WORK, INCLUDING EXCAVATIONS, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES, SUCH AS: SANITARY, WATER AND STORM SYSTEMS BUILDING CONNECTIONS, AND UNDERGROUND ELECTRICAL FACILITIES, ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR WITHIN 12 HOURS OF ITS OCCURRENCE AT NO COST ADDITIONAL COMPENSATION.

64.0 WHERE REQUIRED, CONCRETE WATER VALVE BOXES, CATCH BASINS AND MANHOLES SHALL BE RAISED OR LOWERED TO MATCH PROPOSED GRADING AND PROVIDED NEW COVER, STANDARD GRATING, OR STANDARD MANHOLE COVER, MANHOLES OR VALVE BOXES HIGHER THAN THE PROPOSED GRADING MAY REMAIN UNALTERED IF DRAINAGE IS NOT IMPAIRED.

65.0 CONSTRUCT WHEEL CHAIR RAMPS AT CORNER WHERE SIDEWALK IS REPLACED OR NEW SIDEWALK INSTALLED.

65.0 THE MAXIMUM CONTROL JOINT SPACING AT CURB AND SIDEWALK IS 3 METERS, JOINT MUST BE 0.003 METERS WIDE.

67.0 FORMS SHALL BE OF METAL AND SHALL EXTEND FOR THE FULL DEPTH OF THE CONCRETE. WOODEN FORMS MAY BE USED, WHEN AUTHORIZED BY THE ENGINEER, ON SHORT RADIUS CURVES SUCH AS AT STREET INTERSECTIONS AND AT SUCH OTHER LOCATIONS FOR WHICH CURVED METAL FORMS MAY NOT BE AVAILABLE. ALL FORMS SHALL BE FREE FROM WARP AND OF SUFFICIENT STRENGTH TO RESIST THE PRESSURE OF THE CONCRETE WITHOUT DISPLACEMENT. BRACING AND STAKING OF FORMS SHALL BE SUCH THAT THE FORMS OF REMAIN IN BOTH HORIZONTAL AND VERTICAL ALIGNMENT UNTIL THEIR REMOVAL. ALL FORMS SHALL BE CLEANED AND COATED WITH AN APPROVED FORM RELEASE AGENT OR FORM OIL BEFORE CONCRETE IS PLACED. DIVIDER PLATES SHALL BE OF METAL. FORMS SHALL CONFORM TO THE SPECIFIED RADIUS WHEN PLACED ON CURVES.

68.0 WHERE EXISTING SIDEWALK IS BEING RECONSTRUCTED AND WHERE NEW SIDEWALK IS BEING BUILT ALONG LOCAL ROADS, THE CONTRACTOR SHALL INSTALL CURB AND GUTTER TYPE AS SPECIFIED AND AS SHOWN IN PLANS.

69.0 SAW CUT SHALL BE MADE AT THE BOUNDARIES OF EXISTING ASPHALT OR CONCRETE PAVEMENT AND A NEW OR EXISTING SIDEWALK TO BE RECONSTRUCTED AT LEAST 2 INCHES DEEP.

Notes:

1.0 Do not scale dimensions from drawings, Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS		
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NO. #	DATE	ISSUING REASON

PROFESSIONAL SEAL

julián manriquez bottello
LIC: MXX DCCC III
EXP: 10.X.2025
PUERTO RICO

IDENTIFICATION - COPYRIGHTS + FIRM NAME

YO, JULIÁN MANRIQUEZ BOTTELLO, LICENCIA 19802, CERTIFICO QUE SOY EL PROPIETARIO DE LOS DISEÑOS CONTENIDOS Y PREPARADOS EN ESTOS PLANOS Y QUE ESTOS SON LOS PLANOS FINALES APROBADOS. CERTIFICO QUE ESTOS SON LOS ÚNICOS PLANOS Y COPIAS FINALES Y OFICIALES CON LOS CUALES SE HA SOMETIDO LA SOLICITUD DE PERMISO DE CONSTRUCCIÓN ANTE LA OFICINA DE GERENCIA PARA EL DESARROLLO DEL MERCADO INMOBILIARIO (OGPE) Y QUE CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES EN LAS AGENCIAS, CORPORACIONES PÚBLICAS Y CON LOS GOBIERNOS MUNICIPALES CON JURISDICCIÓN SOBRE EL PROYECTO. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LA NORMATIVA VIGENTE EN LA MATERIA DE ACCESIBILIDAD PARA PERSONAS CON IMPEDIMENTOS, INCLUYENDO LA LEY NÚMERO 44 DE 2 DE JULIO DE 1985, SEGÚN ENMENDADA, LA LEY NÚMERO 119 DE 29 DE JUNIO DE 1977, SEGÚN ENMENDADA, Y CUALQUIER OTRA LEY APLICABLE. ASIMISMO, CERTIFICO QUE HE REVISADO LA LEY NÚMERO 96 DE 29 DE JUNIO DE 1988, SEGÚN ENMENDADA, CONOCIDA COMO LA LEY UNIFORME DE DESALOJOS SUMARIOS DE PROPIEDAD MUEBLE, Y QUE LOS PLANOS Y ESPECIFICACIONES CUMPLEN C

tres pulgadas = un pie

pulgada y media = un pie

una pulgada = un pie

media pulgada = un pie

un cuarto de pulgada = un pie

un octavo de pulgada = un pie

un dieciseis de pulgada = un pie

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General Demolition Notes

ALL INFECTION CONTROL CRITERIA AS SPECIFIED IN SECTION 01 00 00 - GENERAL REQUIREMENTS - SHALL BE ADHERED TO DURING ALL PHASES OF THE PROJECT.

1. THE DEMOLITION DRAWINGS FOR ARCHITECTURAL AND ENGINEERING WORK HAVE BEEN PREPARED USING "MEASURED DRAWINGS/AS-DESIGNED" DOCUMENTS PROVIDED BY THE OWNER. NEITHER THE OWNER NOR THE ARCHITECT WARRANT THESE TO BE "AS-BUILT" DOCUMENTS, AND ACTUAL CONDITIONS MAY VARY. THE DEMOLITION WORK INDICATED IS INTENDED TO SHOW THE GENERAL SCOPE OF THE DEMOLITION WORK AND IN NO WAY RELIEVES THE CONTRACTOR FROM PERFORMING ANY AND ALL DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
2. DEMOLITION NOTES INDICATED ON DRAWINGS MAY NOT BE ALL INCLUSIVE. REMOVE ALL ITEMS REQUIRED FOR RECONSTRUCTION ACTIVITIES.
3. VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE ARCHITECT IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
4. ALL STRUCTURAL ELEMENTS SHALL BE PROTECTED DURING DEMOLITION & THROUGHOUT CONSTRUCTION.
5. ALL DEMOLISHED MECHANICAL AND ELECTRICAL ITEMS SHALL BE REMOVED INCLUDING MAIN RUNS AND SERVICE LINES TO SOURCE. ALL SYSTEM LINES ARE NOT SHOWN ON CONSTRUCTION DOCUMENTS.
6. ALL WALLS, SUB-STRUCTURAL FRAMES, PARTITIONS, EQUIPMENT, ETC. INDICATED BY DASHED LINES (----) SHALL BE REMOVED. ALL MECHANICAL, ELECTRICAL, PLUMBING AND OTHER SERVICES WHICH ARE CONTAINED IN THE AREA TO BE REMOVED SHALL ALSO BE REMOVED OR REROUTED. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH NEW CONSTRUCTION BEFORE STARTING DEMOLITION.
7. AFTER REMOVAL OF EXISTING FLOOR FINISH, CONCRETE FLOOR SHALL BE GROUND SMOOTH AND LEVELED BEFORE INSTALLATION OF NEW FINISH PER ROOM FINISH SCHEDULE. AT DISSIMILAR FLOOR ELEVATIONS, FEATHER SELF-LEVELING UNDER-LAYMENT COMPOUND TO EACH FLOOR ELEVATION AND GRIND SMOOTH. AT DISSIMILAR FLOOR MATERIALS, AND/OR AT JUNCTIONS BETWEEN NEW AND EXISTING FLOORS, PROVIDE APPROPRIATE TRANSITION STRIP.
8. WHERE EXISTING DOORS, DOOR FRAMES, EQUIPMENT, PORTIONS OF WALLS AND PARTITIONS ARE REQUIRED TO BE REMOVED FOR THE COMPLETION OF THE WORK, EXERCISE CAUTION TO AVOID DISRUPTING SURROUNDING MATERIALS. SALVAGE EXISTING MATERIALS AS MUCH AS POSSIBLE FOR REUSE IN PATCHING SURROUNDING FINISHES WHEN APPROVED BY THE OWNER'S REPRESENTATIVE OR INDICATED ON CONSTRUCTION DRAWINGS.
9. WHERE REMOVAL OF EXISTING WALLS, PARTITIONS, EQUIPMENT, ETC. DISRUPTS EXISTING ELECTRICAL, MECHANICAL AND PLUMBING SERVICES, MAKE PERMANENT (OR IF NECESSARY, PROPER TEMPORARY) CONNECTIONS TO RESTORE AFFECTED SERVICES TO ORIGINAL CONDITION IN AREAS NOT SCHEDULED FOR DEMOLITION AND REMODELING.
10. REPAIR ANY DAMAGE TO ITEMS INDICATED TO REMAIN AS A RESULT OF DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. SEE SITE, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
11. ERECT AND MAINTAIN TEMPORARY CONSTRUCTION BARRIERS. COORDINATE LOCATIONS WITH CONSTRUCTION DOCUMENTS, PROJECT PHASING, ARCHITECT AND OWNER'S REPRESENTATIVE.
12. MAINTAIN CLEAR EXIT PATHS DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
13. UTILITIES/MEDICAL SYSTEM SHUTDOWNS (INCLUDING MEDICAL GASES) SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE, PER THE SPECIFICATIONS.
14. PRIOR TO MOBILIZATION, OR WORK COMMENCEMENT, THE CONTRACTOR SHALL COMMUNICATE IN WRITING THE PRESENCE/ABSENCE OF ASBESTOS OR LEAD IN ANY PART OF THE EXISTING STRUCTURE.
15. THE CONTRACTOR IS RESPONSIBLE FOR ASBESTOS ABATEMENT AND SHALL COORDINATE SUCH ABATEMENT WITH DEMOLITION WORK.
    A. THE OWNER BELIEVES THAT A CERTAIN AMOUNT OF THE EXISTING TILE HAS ASBESTOS-BASED MASTIC.
    B. THE OWNER BELIEVES THAT EXISTING LEAD BASED PAINT MAY BE PRESENT IN HE EXISTING STRUCTURE.
16. ALL DEMOLITION WORK SHALL BE PERFORMED WITH "DUE CARE AND DILIGENCE" SO AS TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH COULD NOT BE PREDETERMINED UNTIL DEMOLITION WAS STARTED. ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A LOCATION DIFFERENT FROM FLOOR TO FLOOR, ETC., OR ARE UNIDENTIFIED, SHALL BE REPORTED TO THE ARCHITECT BEFORE REMOVAL FOR FINAL DISPOSITION.
17. REMOVE PORTIONS OF EXISTING CONSTRUCTION AS DRAWN AND PATCH TO MATCH ADJACENT CONSTRUCTION. PATCH TO MATCH ADJACENT SURFACES OF EXISTING WALLS AND FLOORS IN ALL AREAS REQUIRED DUE TO THE REMOVAL OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT OR FIXTURES. NEW WORK SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED.
18. WHERE DEMOLITION WORK UNCOVERS OR LEAVES OPENINGS IN PARTITIONS OR INCOMPLETE PARTITIONS, EXTEND, RESTORE, AND/OR CLOSE OPENING IN PARTITION AS INDICATED AND/OR AS REQUIRED TO MAINTAIN FIRE RATINGS. MATCH EXISTING CONSTRUCTION, U.N.O., WITHIN THE LIMITS AND TOLERANCES FOR MATERIALS AS SPECIFIED OR RECOMMENDED BY THE MANUFACTURER. REFINISH SURFACES TO ALIGN FLUSH WITH EXISTING.
19. WHERE DEMOLITION WORK OR RELOCATION OF EXISTING ITEMS LEAVES UNFINISHED SURFACES AND/OR SUBSTRATES, CUT AND PATCH AS REQUIRED TO RESTORE SUBSTRATE AND/OR FINISH MATERIAL EVEN AND FLUSH WITH ADJOINING SURFACES. TEXTURE AND REFINISH TO MATCH EXISTING UNLESS NOTED OTHERWISE.
20. APPLY SELF-LEVELING COMPOUND TO FLOORING WHERE CMU WALLS ARE DEMOLISHED. GRIND FLOOR PRIOR TO APPLYING SELF-LEVELING COMPOUND IF REQUIRED TO ALLOW FOR LEVEL FLOOR SURFACE.
21. WHERE DEMOLITION OR RELATED WORK LEAVES FLOOR SURFACES WITH IMPERFECTIONS OR NOT LEVEL TO TOLERANCES SPECIFIED FOR NEW WORK, PROVIDE SELF-LEVELING UNDERLAYMENT.
22. REMOVAL OF EXISTING FIXTURES AND EQUIPMENT WILL REQUIRE ISOLATING THE PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. INSTALL NEW ISOLATION VALVES WHERE REQUIRED FOR COMPLETION OF WORK.
23. REMOVAL OF EXISTING PLUMBING FIXTURES AND EQUIPMENT, ETC. WILL REQUIRE CAPPING AND SEALING EXISTING MAINS OR BRANCHES AS NECESSARY AND REQUIRED TO ALLOW THE REMAINING SYSTEMS TO FULLY OPERATE WITHOUT DEGRADATION. CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK, AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK. REFER TO GENERAL CONDITIONS AND DIVISION 1 SECTIONS IN THE SPECIFICATIONS.
24. ALL DRAINED PIPING RISERS AND MAINS SHALL BE REFILLED WITH PROPER FLUID AND PROPERLY VENTED BY THE CONTRACTOR, ONCE NEW WORK HAS BEEN INSTALLED.
25. CEILINGS WHICH ARE IN CONFLICT WITH NEW WORK SHALL BE REMOVED OR RELOCATED ALONG WITH ALL MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS. COORDINATE WITH GENERAL CONTRACTOR THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILINGS, WALLS, ETC. AS REQUIRED FOR THE SPECIFIC WORK.
26. EXISTING PIPING AND EQUIPMENT, ETC., NOT TO BE UTILIZED IN THE COMPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED AS REQUIRED. ALL ENDS OF DISCONTINUED PIPING SHALL BE CAPPED IN THE NEAREST WALL, CEILING OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. OPENINGS LEFT IN WALLS, CEILINGS, ETC., WHERE EQUIPMENT AND PIPE, ETC., ARE REMOVED AND NOT REPLACED, SHALL BE PATCHED NEATLY WITH SIMILAR MATERIAL TO ADJACENT CONSTRUCTION. REFER TO DRAWINGS DELINEATING NEW WORK FOR ADDITIONAL INFORMATION REGARDING SYSTEMS OR PORTIONS OF SYSTEMS WHERE USE IS TO BE DISCONTINUED.
27. WHEREVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC., ARE REQUIRED TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGARS, BRACING, FOUNDATION, ETC. AFTER REMOVAL, AFFECTED CONSTRUCTION AND SURFACES, SUCH AS FLOORS ,WALLS, BASES, AND CEILINGS, SHALL BE FINISHED TO MATCH ADJACENT SURFACES UNLESS OTHERWISE NOTED.
28. EXISTING PIPING, FIXTURES AND EQUIPMENT THAT ARE NOT TO BE REUSED SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE OWNER IF THEY WISH TO RETAIN OWNERSHIP OF SAME. IF NOT, EQUIPMENT SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AS SOON AS PRACTICAL AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
29. ALL CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
30. WHERE EXISTING PIPING AND EQUIPMENT, ETC., THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.
31. PORTIONS OF EXISTING SYSTEMS MAY BE SHOWN FOR CLARITY EVEN THOUGH IT MAY NOT BE NECESSARY TO MODIFY OR REVISE THEM. ALL EXISTING SYSTEMS ARE SHOWN BASED ON ORIGINAL OR REMODEL BUILDING DRAWINGS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.
32. ALL WORK MUST BE COORDINATED AND SCHEDULED WITH THE OWNER AND OCCUPANTS OF THIS BUILDING SO AS TO PROVIDE THE LEAST AMOUNT OF DISRUPTION OF BUILDING ACTIVITIES AS POSSIBLE.
33. ALL ACCESSIBLE ABANDONED PIPING AND DUCTWORK SHALL BE REMOVED AND PROPERLY DISPOSED OF.
34. CONTRACTOR SHALL REPAIR ALL SURFACES TO LIKE NEW AFTER TEMPORARY WALLS AND DOORS HAVE BEEN REMOVED.

Demolition Keynotes

Accessories/Miscellaneous

- A1 REMOVE AND DISPOSE OF EXISTING TOILET
- A2 REMOVE AND DISPOSE OF EXISTING COUNTERTOP, SHELVING, AND WORKSTATION
- A3 REMOVE AND DISPOSE OF EXISTING CANOPY AND RELATED ITEMS

Ceiling

- C1 REMOVE AND DISPOSE OF EXISTING CEILING SYSTEM.
- C2 REMOVE AND DISPOSE OF EXISTING TRACKS.
- C3 REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURES.

Doors and Frames

- D1 REMOVE AND DISPOSE OF EXISTING DOOR, FRAME, HARDWARE AND SIDELIGHT.
- D2 REMOVE AND DISPOSE OF EXISTING SLIDING DOOR, FRAME, HARDWARE AND RELATED ITEMS.
- D3 REMOVE AND DISPOSE OF EXISTING BI-FOLDING DOOR, FRAME, HARDWARE AND RELATED ITEMS.
- D4 NOT USED.

Floor

- F1 REMOVE AND DISPOSE OF EXISTING FLOOR COVERING TO SLAB.
- F2 REMOVE AND DISPOSE OF EXISTING CONCRETE WALKWAY/ STOOP.
- F3 REMOVE AND DISPOSE OF EXISTING RECESSED WALK OFF FLOOR MAT AND FLOOR COVERING LEVEL RECESS WITH SELF LEVELING UNDER-LAYMENT COMPOUND.
- F4 REMOVE AND DISPOSE OF EXISTING..
- F5 REMOVE AND DISPOSE OF EXISTING..

Mechanical/Plumbing

- M1 REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE (UTILITY SINK, FLOOR DRAIN, WATER CLOSET, URINAL, SHOWER AND/OR LAVATORY), RE: MEP.
- M2 NOT USED.
- M3 REMOVE AND DISPOSE OF EXISTING FIN TUBE RADIATOR, RE: MEP.
- M4 REMOVE AND DISPOSE OF EXISTING FAN COIL UNIT HEATER, RE: MEP.
- M5 NOT USED.

Partitions

- P1 REMOVE AND DISPOSE OF EXISTING MASONRY PARTITION AND RELATED ITEMS.
- P2 REMOVE AND DISPOSE OF EXISTING STUD PARTITION AND RELATED ITEMS.
- P3 REMOVE AND DISPOSE OF EXISTING STUD PARTITION/ FURRING AND RELATED ITEMS AROUND COLUMN. STEEL COLUMN SHALL REMAIN.
- P4 REMOVE AND DISPOSE OF EXTERIOR WALL SYSTEM AND RELATED ITEMS.
- P5 NOT USED.

Protection Notes

1. GENERAL: CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION TO REMAIN AS REQUIRED TO PREVENT DAMAGE. ALL EXISTING MATERIALS, SURFACES, EQUIPMENT, ETC. DAMAGED DURING THE WORK SHALL BE REPAIRED TO THE OWNER'S REPRESENTATIVE SATISFACTION OR REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER. PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO THE START OF ALL DEMOLITION, AND MAINTAINED THROUGHOUT CONSTRUCTION AS NEEDED.
2. COORDINATE LOCATION AND TYPE OF ALL PROTECTION BARRIERS WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
3. PROVIDE FLOOR PROTECTION COVERINGS AS REQUIRED TO PREVENT DAMAGE TO EXISTING FLOOR COVERINGS AND FINISHES TO REMAIN THROUGHOUT ALL CONSTRUCTION AND DEMOLITION ACTIVITY.
4. EXISTING EMERGENCY EXITS MUST BE MAINTAINED ACCESSIBLE DURING THE PERIOD OF CONSTRUCTION
5. CONTRACTOR SHALL SEAL ALL DOOR OPENINGS AND HVAC OPENINGS IN ALL AREAS OF DEMOLITION AND CONSTRUCTION PRIOR TO CUTTING, SANDING, ETC. TO PREVENT DUST MIGRATION TO ADJACENT ROOMS.
6. CONTRACTOR SHALL PROVIDE TEMPORARY WEATHER PROTECTION FOR ALL EXTERIOR OPENINGS WHERE DOORS, WINDOWS, LOUVERS, ROOF HATCHES AND ROOF EQUIPMENT OPENINGS ARE REMOVED OR WHERE NEW EXTERIOR OPENINGS ARE INSTALLED UNTIL PERMANENT ITEMS OR WEATHER PROTECTION ARE INSTALLED.
7. CONTRACTOR SHALL PROVIDE PROTECTION TO EXISTING PLANTS AND NEW PLANTINGS FROM PHYSICAL INJURY, ROOT ZONE COMPACTION AND OTHER RELATED DISTURBANCES DURING PERIODS OF CONSTRUCTION.
8. PROTECTIVE MATERIAL SHALL NOT RESTRICT THE AMOUNT OF AIR NOR MOISTURE NEEDED FOR THE ROOT ZONE WITHIN THE DRIPLINE AREA OF THE PLANT.

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL



CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

YO, JULIÁN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA. RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPe. THIS DRAWING AND ITS CONTENTS ARE THE INTELLECTUAL PROPERTY OF IN.FORMATION STUDIO LLC, AND SHALL BE USED AS A REFERENCE DOCUMENTS AND WORKING INSTRUMENT ONLY BY AUTHORIZED PERSONNEL AND FOR THE SPECIFIC PROJECT HEREIN DESIGNED. ANY TOTAL, PARTIAL REPRODUCTION OR USE OF SAID DOCUMENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT THE WRITTEN CONSENT AND SHALL BE RETURNED TO IN.FORMATION STUDIO.

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PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

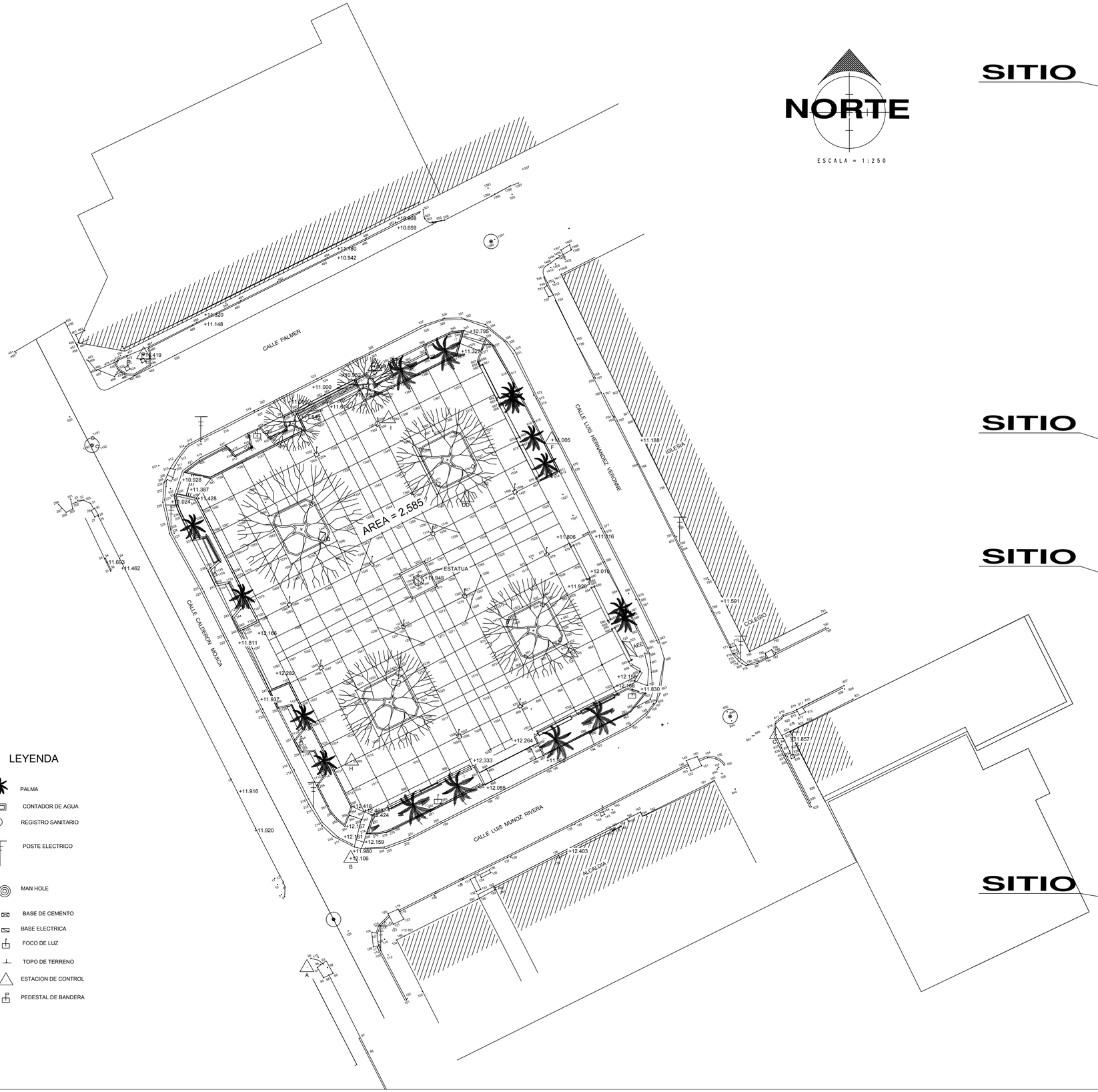
General Demolition & Protection Notes

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #: 22-03
PROJECT PHASE: Construction Docs - 100%
SHEET #: 4
DRAWN BY: krs
DATE: 26.vi.2024
DISCIPLINE: GDN-1.0

BID SET January 10, 2025



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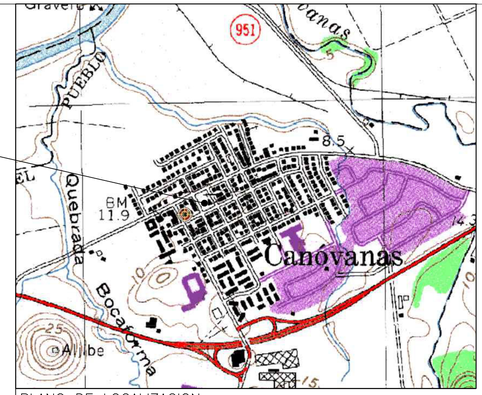

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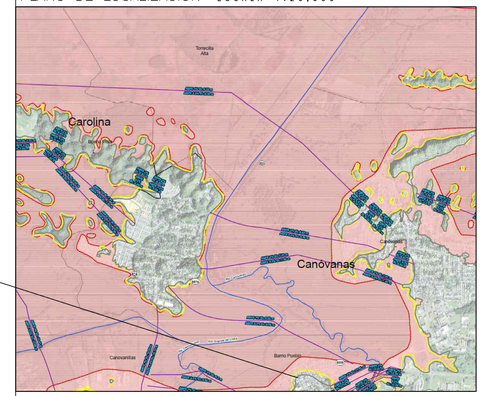

MAPA DE INUNDABILIDAD NO A ESCALA

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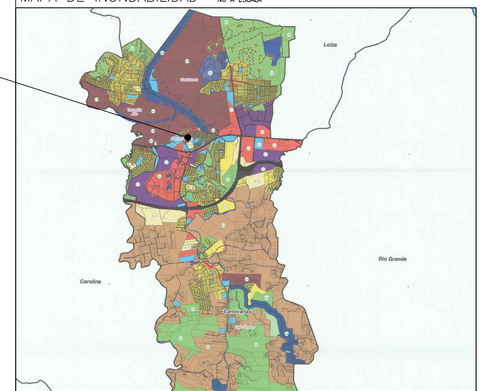
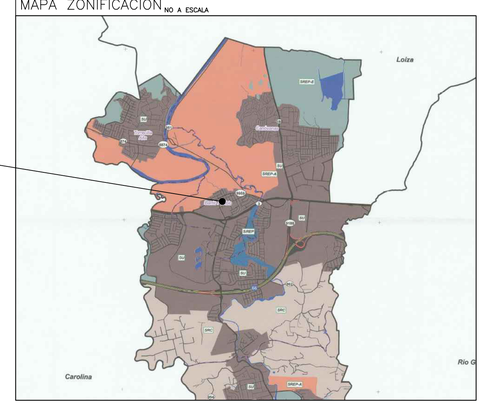


MAPA ZONIFICACION NO A ESCALA

SITIO



MAPA CALIFICACION NO A ESCALA

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R.M.F.I.

DANIEL GOMEZ MARRERO
AGRIMENSOR LICENCIADO
LIC. # 7792
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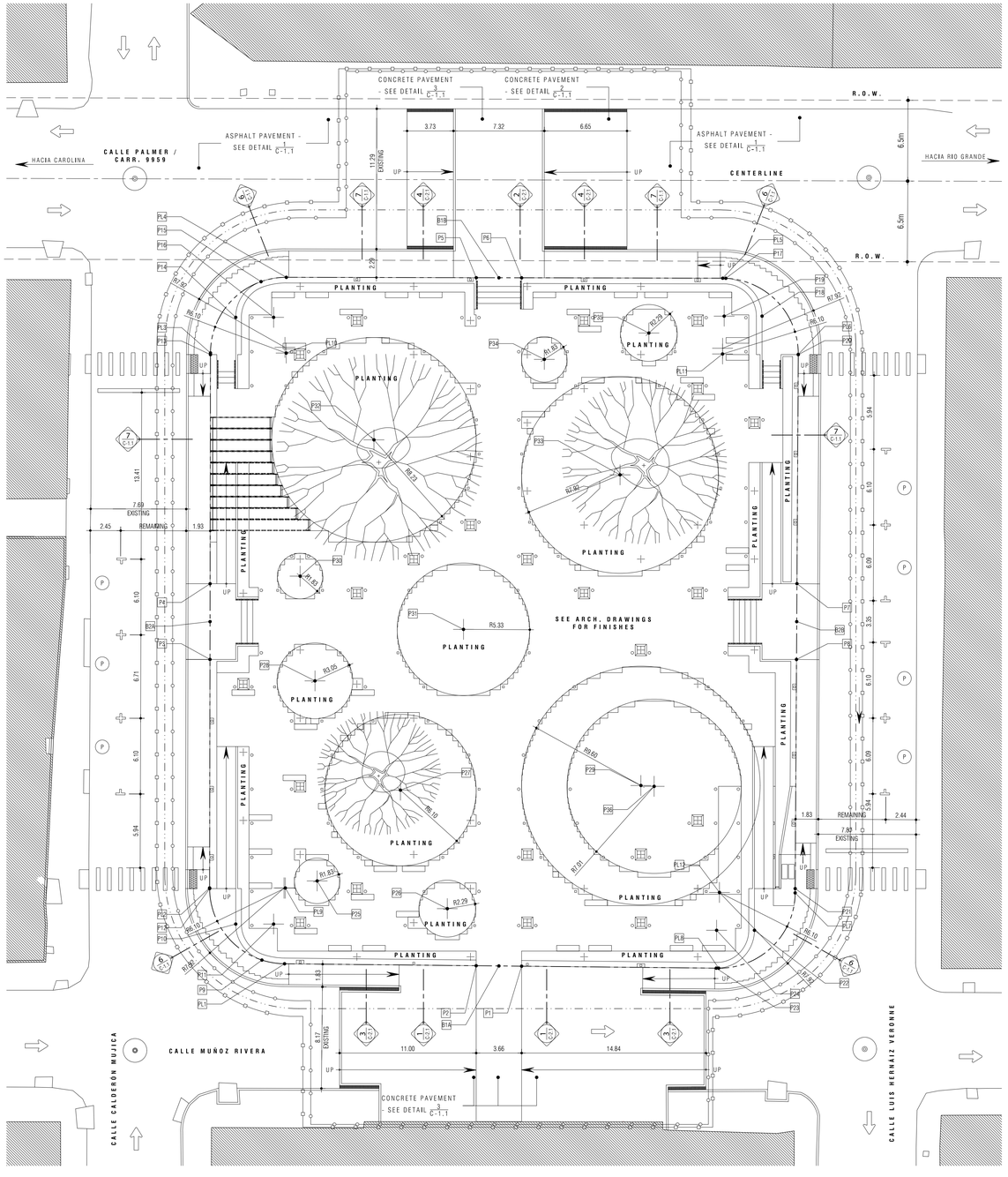
EN SU SELLO PROFESIONAL Q
ESTE PLANO, CERTIFICA QUE SOY EL PROFESIONAL QUE DISEÑO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIEN CERTIFICA QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLAN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DESPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS CON JURISDICCION, RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE CORROBORE POR LA VIA JUDICIAL, HAYA SIDO PRODUCIDO, POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO VINCULADOS A TRAVES MIO A ESTE PROYECTO ME HARAN RESPONSABLES ANTE LA OGPE Y OTRAS AUTORIDADES COMPETENTES DE AQUELLAS ACCIONES DISCIPLINARIAS QUE CORRESPONDAN, INCLUYENDO, PERO SIN LIMITARSE, A LA TERMINACION DE LA PARTICIPACION EN LOS PROCEDIMIENTOS DE CERTIFICACION PROFESIONAL EN LA OGPE.

NINGUNA DECLARACION AQUI SUSCRITA POR MI ME EXIME DEL DERECHO A QUE SE TRAMITE CUALQUIER RECLAMACION EN MI CONTRA SIGUIENDO EL DEBIDO PROCESO DE LEY.

DWG. TITLE

PLANO DE MENSURA
PLAZA JUAN F. ARROYO
CANOVANA PUERTO RICO

FILE
DRAWN BY: ARIEL SANTIAGO
REVISED BY: DANIEL GOMEZ
PLOT SCALE: 1 = 250
DATE: FEBRERO 2023
POJECT NUM



Geometry Site Plan

SCALE : 1 = 200

LEGEND

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- PROPOSED TREE
- EXISTING TRAFFIC FLOW
- EXISTING PARKING TO REMAIN
- EXISTING MANHOLES TO REMAIN

COORDINATES			
POINT	NORTH	EAST	DESCRIPTION
PL1	260455.9251	255621.4083	PROPERTY LINE
PL2	260458.6276	255613.2604	PROPERTY LINE
PL3	260497.0252	255593.7859	PROPERTY LINE
PL4	260505.2204	255596.4675	PROPERTY LINE
PL5	260521.0967	255627.8029	PROPERTY LINE
PL6	260518.3936	255636.0062	PROPERTY LINE
PL7	260479.6830	255655.4475	PROPERTY LINE
PL8	260471.4683	255652.7105	PROPERTY LINE
PL9	260461.3850	255618.6971	PROPERTY LINE CORNER RADIUS CENTER
PL10	260499.7826	255599.2227	PROPERTY LINE CORNER RADIUS CENTER
PL11	260515.6588	255630.5581	PROPERTY LINE CORNER RADIUS CENTER
PL12	260478.9283	255649.9993	PROPERTY LINE CORNER RADIUS CENTER
B1A	260463.5997	255636.8641	CONSTRUCTION NORTH-SOUTH AXIS BASELINE
B1B	260512.9040	250611.7315	CONSTRUCTION NORTH-SOUTH AXIS BASELINE
B2A	260477.7415	255603.5662	CONSTRUCTION EAST-WEST AXIS BASELINE
B2B	260499.1737	255645.6539	CONSTRUCTION EAST-WEST AXIS BASELINE
P1	260464.4131	255638.5021	PLAZA ENTRY
P2	260462.7863	255635.2260	PLAZA ENTRY
P3	260475.0231	255604.9449	PLAZA ENTRY
P4	260480.4598	255602.1875	PLAZA ENTRY
P5	260512.1275	255610.1001	PLAZA ENTRY
P6	260513.7805	255613.3628	PLAZA ENTRY
P7	260501.8978	255644.2865	PLAZA ENTRY
P8	260496.4496	255647.0213	PLAZA ENTRY
P9	260455.363878	255619.649498	PERIMETER
P10	260456.991327	255616.457189	PERIMETER
P11	260458.37445	255619.173303	PERIMETER RADIUS CENTER
P12	260458.577114	255613.286297	PERIMETER
P13	260496.903961	255593.846399	PERIMETER
P14	260500.50231	255594.30015	PERIMETER
P15	260503.988308	255594.80986	PERIMETER
P16	260501.985433	255597.016264	PERIMETER RADIUS CENTER
P17	260521.205375	255628.028833	PERIMETER
P18	260519.815228	255632.00957	PERIMETER
P19	260518.432105	255629.293456	PERIMETER RADIUS CENTER
P20	260518.378748	255636.013678	PERIMETER
P21	260479.969672	255655.294061	PERIMETER
P22	260475.4940	255653.8951	PERIMETER
P23	260471.3809	255652.5346	PERIMETER
P24	260474.1109	255651.7190	PERIMETER RADIUS CENTER
P25	260463.059279	255620.721159	PLANTING AREA RADIUS CENTER
P26	260465.823408	255631.070595	PLANTING AREA RADIUS CENTER
P27	260472.611269	255623.38198	PLANTING AREA RADIUS CENTER
P28	260477.325999	255613.258809	PLANTING AREA RADIUS CENTER
P29	260481.740833	255640.483879	PLANTING AREA RADIUS CENTER
P30	260484.292036	255608.369633	PLANTING AREA RADIUS CENTER
P31	260486.444315	255622.031784	PLANTING AREA RADIUS CENTER
P32	260496.767135	255608.686813	PLANTING AREA RADIUS CENTER
P33	260503.245029	255627.820941	PLANTING AREA RADIUS CENTER
P34	260508.759363	255617.969614	PLANTING AREA RADIUS CENTER
P35	260514.46999	255624.506208	PLANTING AREA RADIUS CENTER
P36	260482.1634	255641.4686	STAGE RADIUS CENTER

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

NO. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

Yo, José O. González García, Ricencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, juntas reglamentadoras y corporaciones públicas concernientes. También certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la reforma por la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1976, según enmendada, en cuanto a cualquier declaración falsa o fabricación de los hechos que se haya hecho por error, desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, no hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

IDENTIFICACIÓN - CERTIFICATE / FIRM NAME

YO, JULIÁN MARRAQUÍZ BOTELLO, LICENCIA 19882, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE LA MATERIA. ASIMISMO, CERTIFICO QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REFORMA POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 14 DE 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REFORMA DEL PROCESO DE OBRAS PÚBLICAS". CUALQUIER DECLARACIÓN FALSA O FABRICACIÓN DE LOS HECHOS QUE SE HAYA HECHO POR ERROR, DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, NO HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

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Carolina, PR. 00979 - Office Tel. +1 (787) 236-0939
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Civil Geometry Site Plan

CLIENT

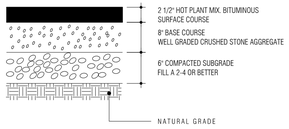
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
6	krs / 10.v.2023

DESCRIPTION

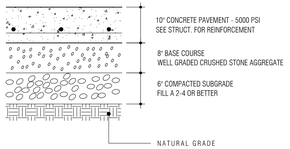
C-1.0

BID SET January 10, 2025



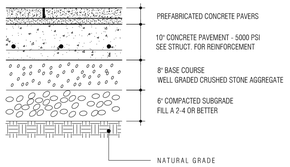
Asphalt Pavement Detail - Heavy Duty (Typ) 1

NOT TO SCALE C-1.1



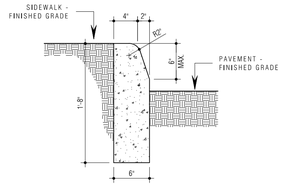
Concrete Pavement Detail - Heavy Duty (Typ) 2

NOT TO SCALE C-1.1



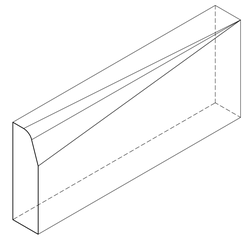
Concrete Pavement Detail With Concrete Paver Overlay (Typ) 3

NOT TO SCALE C-1.1



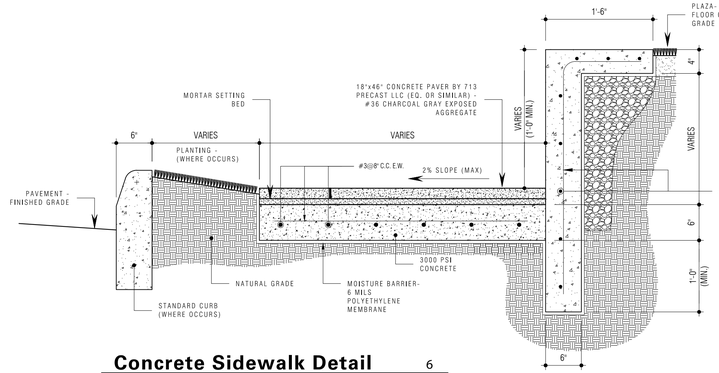
Standard Curb 4

SCALE : 1" = 1'-0" C-1.1



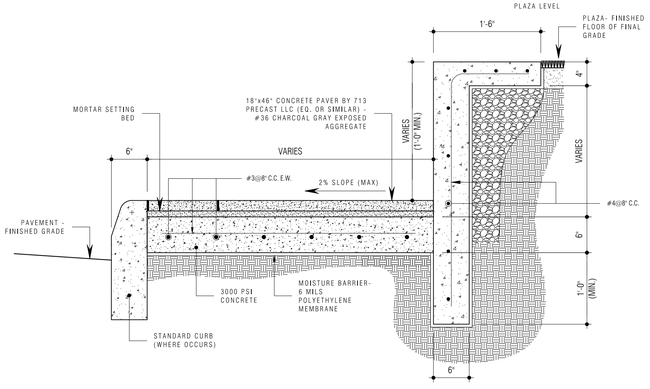
Curb Type 1 - Transition 5

NOT TO SCALE C-1.1



Concrete Sidewalk Detail 6

SCALE : 1" = 1'-0" C-1.1



Concrete Sidewalk Detail 7

SCALE : 1" = 1'-0" C-1.1

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSE O. GONZALEZ INGENIERO LICENCIADO LIC. #6588 PUERTO RICO

IDENTIFICACION - CERTIFICATE - FIRM NAME

Yo, José O. González García, Ingeniero 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras o corporaciones públicas concernientes a este certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la reglamentación por la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1976, según enmendada, bajo las que cualquier declaración falsa o fabricación de los hechos que se haya incurrido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

YO, JOSÉ O. MARRERO BOTELLO, LICENCIA 19802, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS, CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE EL PROYECTO. TAMBIÉN CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CON LA ORDEN ADMINISTRATIVA OGPE-OA-2019-DIS-00004 DEL 14 DE MAYO DE 2019 PARA LA IMPLEMENTACIÓN DE LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REGLAMENTACIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 84 DEL 6 DE JULIO DE 2018, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REGLAMENTACIÓN POR LA INDUSTRIA PUERTORRIQUEÑA". RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FABRICACIÓN DE LOS HECHOS QUE SE HAYA INCURRIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

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4777 Ave. Isla Verde, Edificio Isla Verde Mall - Suite 331 Carolina, PR. 00979 - Office Tel. +1 (787) 236-0939 e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Civil Details

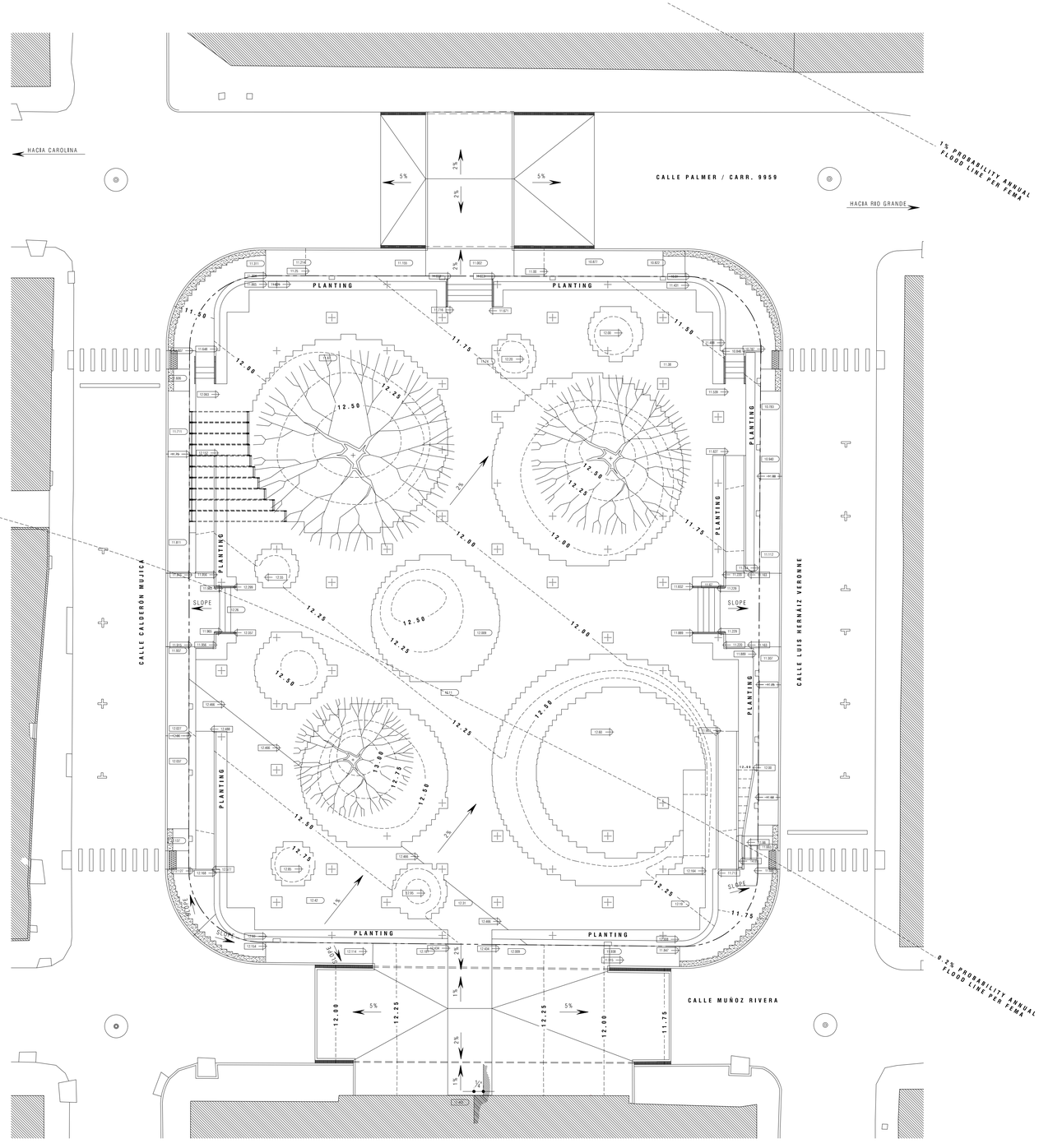
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET # / DESCRIPTION	DRAWN BY / DATE
7	krs / 26.vi.2024

C-1.1

BID SET January 10, 2025



Proposed Grading Site Plan

SCALE : 1/16" = 1'-0"

Legend

- XX% — SLOPE DIRECTION AND INCLINATION
- RUNOFF FLOW
- XXX.XX — EXISTING SPOT ELEVATION
- XXX.XX — PROPOSED SPOT ELEVATION
- XX.XX — CONTOUR
- PROPERTY LINE
- PROPOSED TREE LOCATION MARK
- EXISTING MANHOLES TO REMAIN

Notes:

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2.0 All dimensions are in feet and inches, unless noted otherwise.

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

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CERTIFICACIÓN - ESPAÑOL / FIRM NAME

YO, JULIÁN MARRIQUEZ BOTELLO, LICENCIA 19862, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO ESTRICTAMENTE CON LO DISPUESTO EN LA LEY NÚMERO 144-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REFORMA POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚM. 99 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, ENTIENDO QUE CUALQUIER DECLARACIÓN FALSA O FABRICACIÓN DE LOS HECHOS QUE SE HAYA REALIZADO CON DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPe.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Proposed Grading Site Plan

CLIENT

Municipality of Canóvanas - Hon. Lorna J. Soto

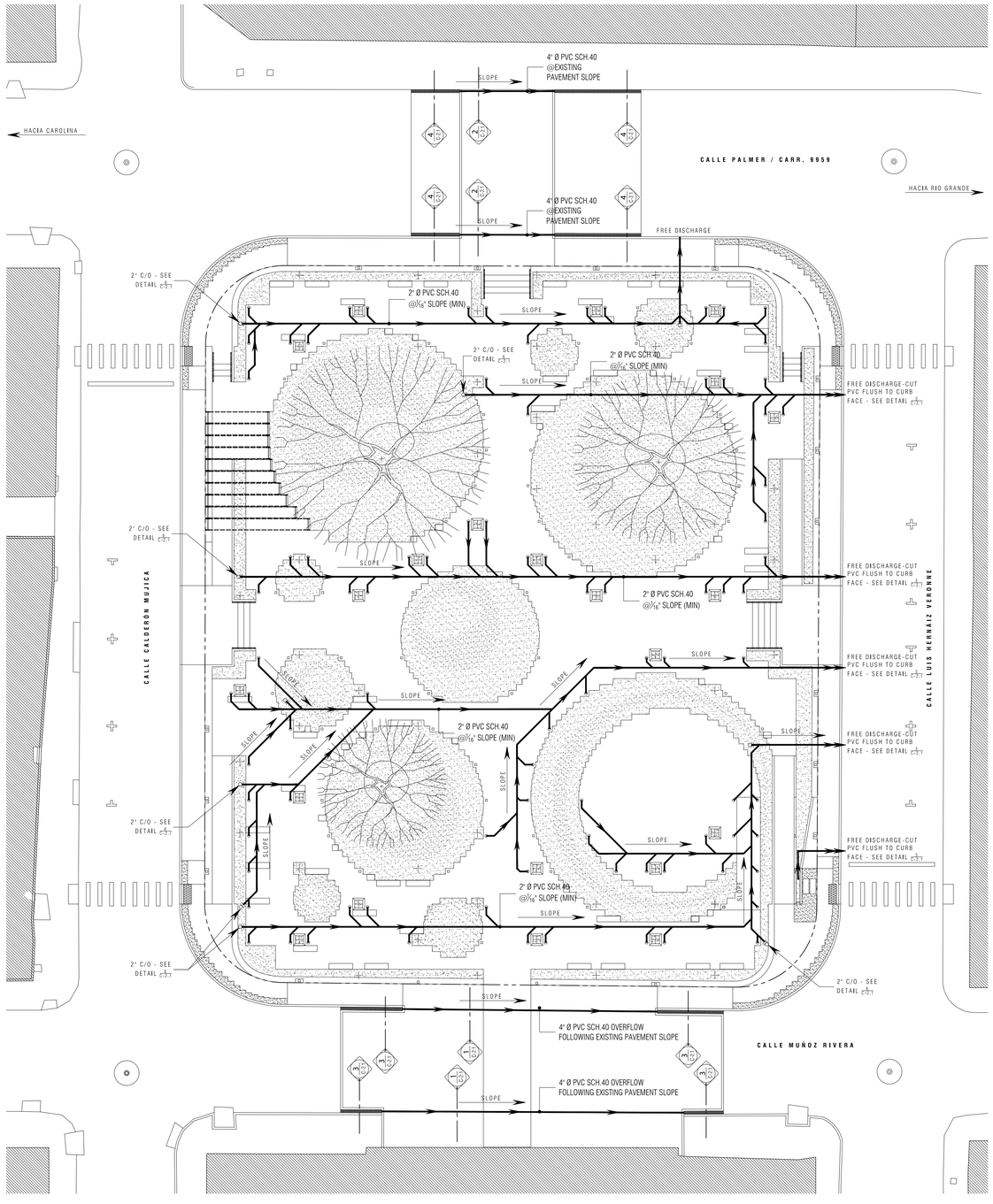
PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
8	krs	26.vi.2024

DISCIPLINE

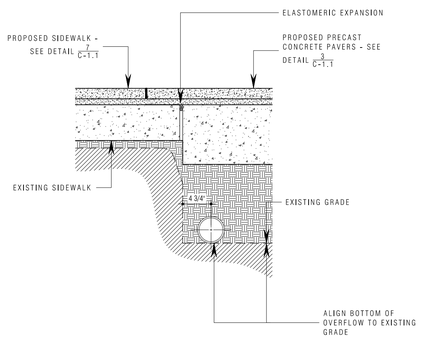
C-2.0

BID SET January 10, 2025



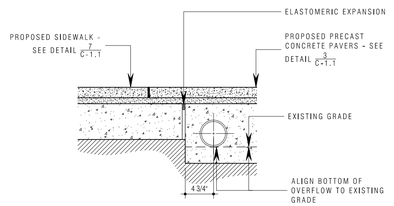
Storm Water Drainage Plan

SCALE : 1/16" = 1'-0"



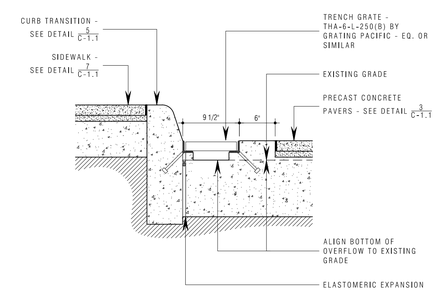
Speed Table Trench Drainage Detail 1

SCALE : 1" = 1'-0" C-2.1



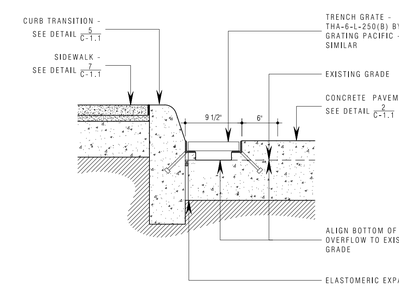
Speed Table Trench Drainage Detail 2

SCALE : 1" = 1'-0" C-2.1



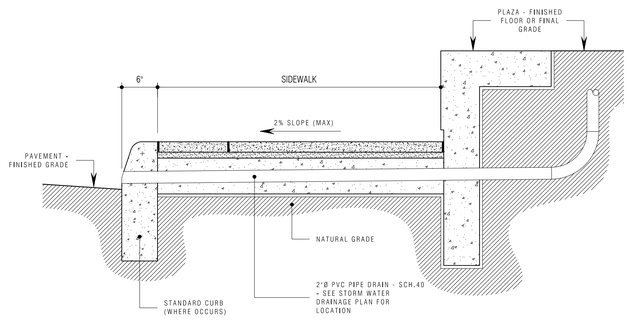
Speed Table Trench Drainage Detail 3

SCALE : 1" = 1'-0" C-2.1



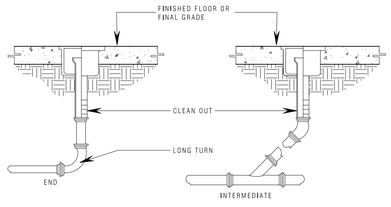
Speed Table Trench Drainage Detail 4

SCALE : 1" = 1'-0" C-2.1



Free Discharge at Curb Detail 5

NOT TO SCALE C-2.1



Clean Out Detail (Typ) 6

NOT TO SCALE C-2.1

Legend

- STORM DRAIN LINE
- C.O. CLEAN OUT PLUG
- C.O. CLEAN OUT FLUSH WITH WALL
- C.O. CLEAN OUT FLUSH WITH FLOOR OR FINISH GRADE
- IN-GROUND LIGHT FIXTURE

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REVISIONS		
-	-	-
NO. #	DATE	ISSUING REASON

PROFESSIONAL SEAL

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CERTIFICACION / CERTIFICATE / FIRM NAME

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

SHEET TITLE

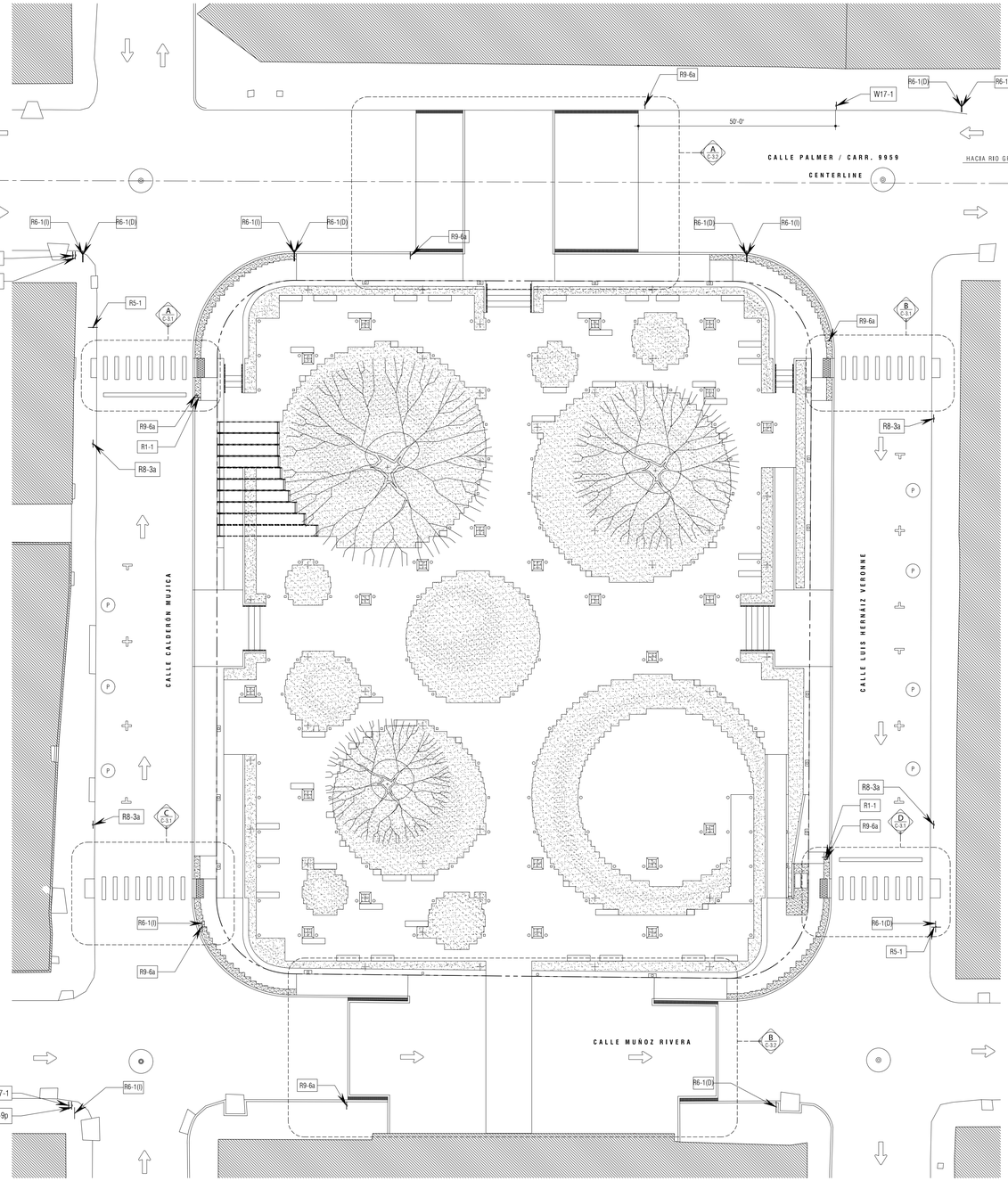
Storm Water Drainage Plan & Details

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03
PROJECT PHASE Construction Docs - 100%
SHEET # 9
DRAWN BY krs
DATE 26.vi.2024
DISCIPLINE

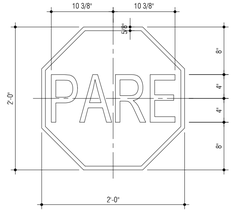
C-2.1

BID SET January 10, 2025



Traffic Control Plan

SCALE : 1 = 200



R1-1 (Minimo)

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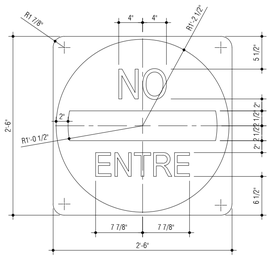

R5-1 (Normal)

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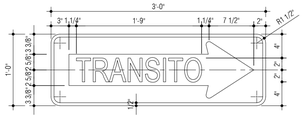
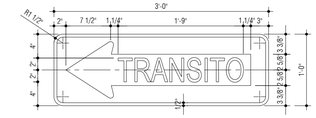


R6-1 (D)

SCALE : 1" = 1'-0"



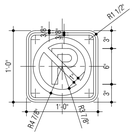
R6-1 (I)

SCALE : 1" = 1'-0"



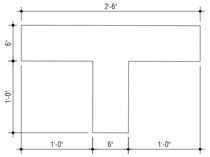
R9-6a (PR)

SCALE : 1" = 1'-0"



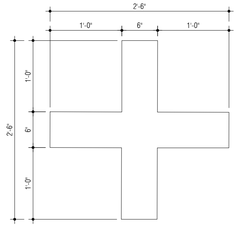
R8-3a

SCALE : 1" = 1'-0"



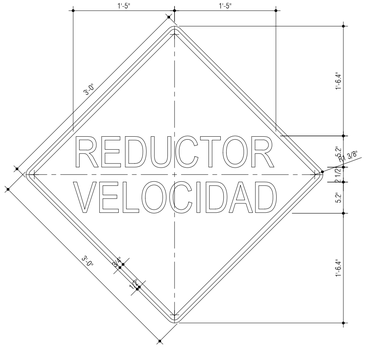
Parking End Marking

SCALE : 1" = 1'-0"



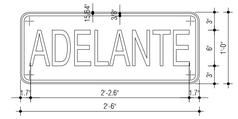
Intermediate Parking Marking

SCALE : 1" = 1'-0"



W17-1

SCALE : 1" = 1'-0"



W16-9p

SCALE : 1" = 1'-0"

Notes

1. UNLESS OTHERWISE SHOWN, DIMENSIONS ARE IN METERS.
2. BEGIN ALL LANE LINE MARKING AT STOP LINE, CROSSWALK, OR NOSE OF MEDIAN UNLESS OTHERWISE NOTED ON PLANS.
3. DIMENSIONS SHOWN ARE STANDARD UNLESS OTHERWISE SHOWN ON PLANS.
4. STOP LINE SHALL BE PAINTED AS AN ADDITION TO A STOP SIGN OR SIGNAL.
5. CURB SHALL BE PAINTED YELLOW AT INTERSECTION AS FOLLOWS: 6 METERS FROM THE TANGENT CURB IN CASE OF NON-SIGNALIZED INTERSECTION, & 10 METERS IN CASE OF SIGNALIZED INTERSECTION.
6. ALL PAVEMENT MARKINGS AT INTERSECTIONS SHALL BE PROVIDED UP TO 50 METERS AWAY FROM THE STOP LINE AT EACH APPROACH.
7. ALL PAVEMENT MARKINGS SHALL BE YELLOW OR WHITE IN COLOR AND SHALL BE MADE OF REFLECTIVE THERMOPLASTIC PAINT. MARKINGS VISIBLE ONLY TO TRAFFIC PROCEEDING IN THE WRONG DIRECTION SHALL BE RED.
8. WORD AND SYMBOL MARKINGS SHALL BE WHITE IN COLOR AND SHALL BE PLACED COINCIDENT WITH THE LONGITUDINAL CENTER OF EACH RESTRICTED LANE OR AS SHOWN ON THE PLANS.
9. WHERE SYMBOL ARROWS ARE USED TO CONVEY A MANDATORY MOVEMENT, LANE-USE ARROW PAVEMENT MARKINGS SHALL BE USED AND SHALL BE ACCOMPANIED BY STANDARD SIGNS AND THE WORD MARKING ONLY.
10. ALL THERMOPLASTIC PAVEMENT MARKINGS, INCLUDING WORDS AND SYMBOLS, SHALL HAVE AN AVERAGE THICKNESS ABOVE THE PAVEMENT LEVEL OF 120 THOUSANDS OF AN INCH. THE MINIMUM THICKNESS ABOVE THE PAVEMENT LEVEL SHALL BE 100 THOUSANDS OF AN INCH, AND THE MAXIMUM THICKNESS ABOVE THE PAVEMENT LEVEL SHALL NOT EXCEED 130 THOUSANDS OF AN INCH.
11. THE AUTHORITY WILL MEASURE THE THICKNESS OF THE THERMOPLASTIC MARKINGS ABOVE THE PAVEMENT AREA AT THE EDGE OF THE PAVEMENT MARKINGS AND COMPUTE THE AVERAGE THICKNESS.
12. THE AUTHORITY, IN ITS JUDGEMENT, MAY REJECT AND REQUIRE THE REMOVAL AND REPLACEMENT OF PAVEMENT MARKINGS DUE TO EXCESSIVE THICKNESS OR THICKNESS VARIABILITY.

Legend

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TRAFFIC FLOW
- PROPOSED DETOUR
- XX-X (X) — TRAFFIC SIGN TYPE
- TRAFFIC SIGN
- P — PARKING SPACE
- EXISTING MANHOLES TO REMAIN

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA — INGENIERO LICENCIADO — LIC. #6588 — PUERTO RICO

IDENTIFICACION - CERTIFICATE / FIRM NAME

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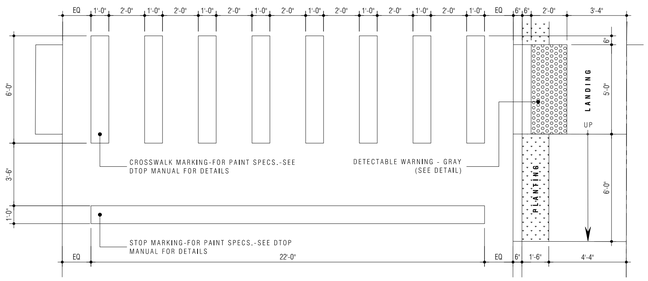
YO, JULIEN MARRIQUEZ BOTELLO, LICENCIA 19882, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS, CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PUBLICAS CON JURISDICCION. ASIMISMO CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LA NORMATIVA DE ACCESIBILIDAD VIGENTE. ADEMAS CERTIFICO QUE EN LA PREPARACION DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CON LA LEY NUMERO 96 DEL 5 DE JULIO DE 2019, CONOCIDA COMO LA "LEY PARA LA RECONSTRUCCION DE LA INDUSTRIA PUERTORRIQUEÑA" Y

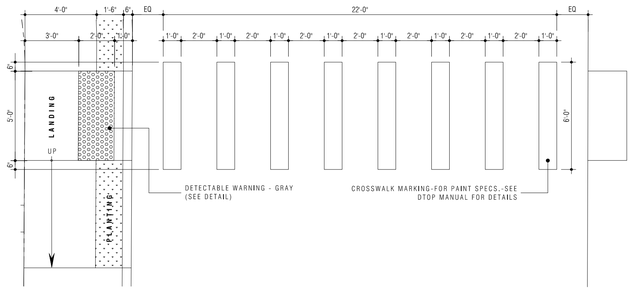


Blow-Up Plan

SCALE : ¼" = 1'-0"

A

C-3.1

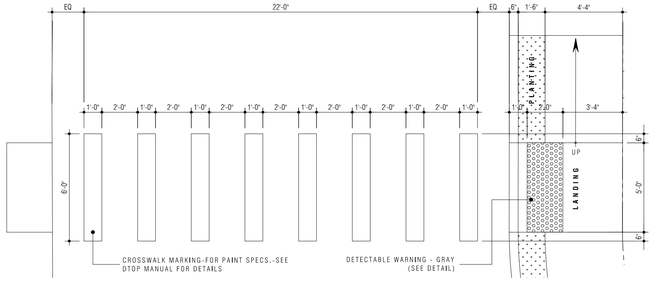


Blow-Up Plan

SCALE : ¼" = 1'-0"

B

C-3.1

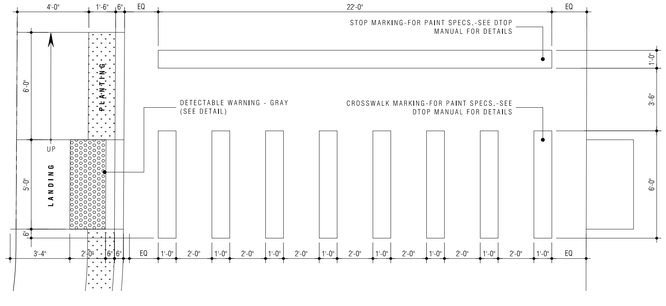


Blow-Up Plan

SCALE : ¼" = 1'-0"

C

C-3.1

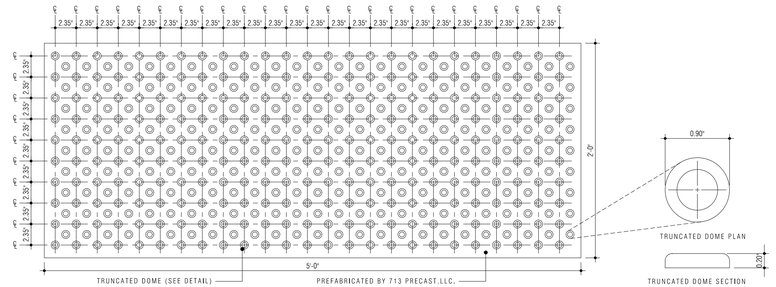


Blow-Up Plan

SCALE : ¼" = 1'-0"

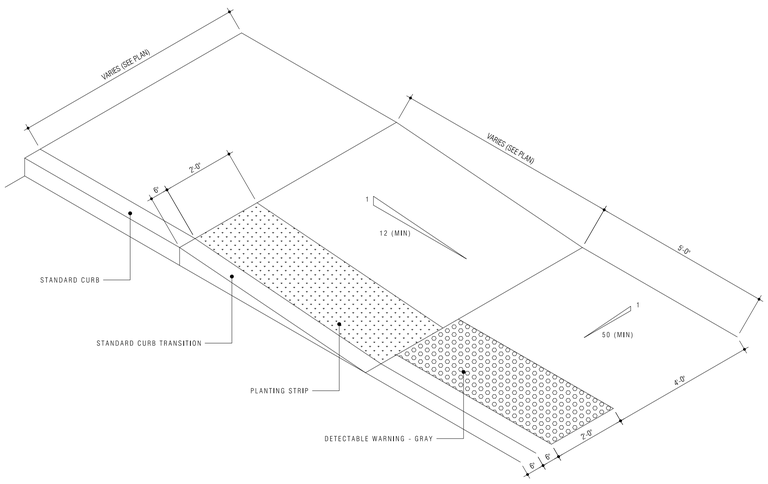
D

C-3.1



Detectable Warning Field with Truncated Domes

SCALE : 1 ½" = 1'-0"



Parallel Curb Ramp Axonometric

NOT TO SCALE

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

IDENTIFICACION - CERTIFICATE / FIRM NAME

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YO, JOSÉ O. GONZÁLEZ GARCÍA, RCM# 11882, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y ORDENANZAS MUNICIPALES VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS CONCERNIENTES. TAMBIÉN CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO ESTRICTAMENTE CON LO DISPUESTO EN LA LEY NÚMERO 14 DE 6 DE JULIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA PROFESIÓN DE INGENIERÍA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 99 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, RESPECTO A QUE CUALQUIER DECLARACIÓN FALSA O FABRICACIÓN DE LOS HECHOS QUE SE HAYA HECHO EN EL MISMO DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Pedestrian Crosswalks Plans & Details

CLIENT

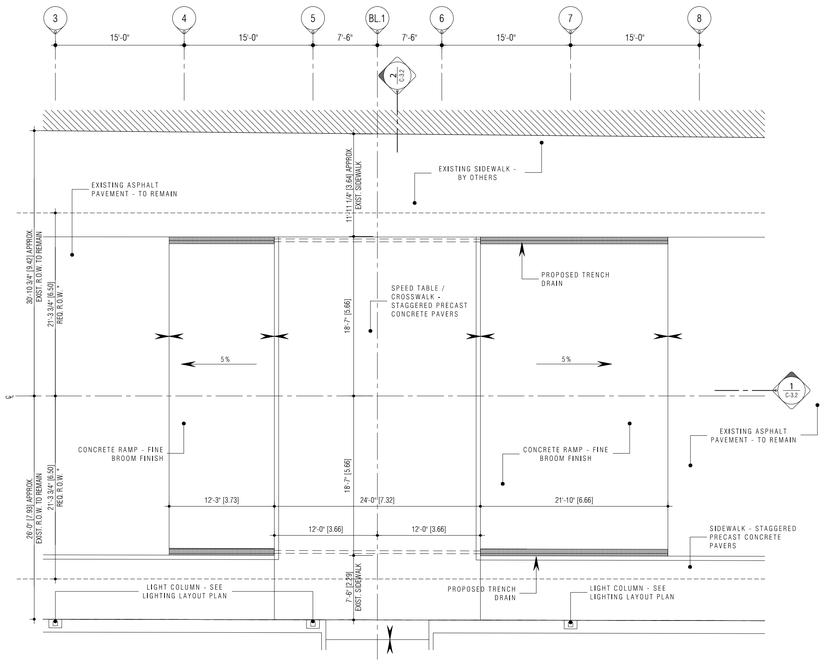
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
11	krs / 26.vi.2024

DESCRIPTION

C-3.1

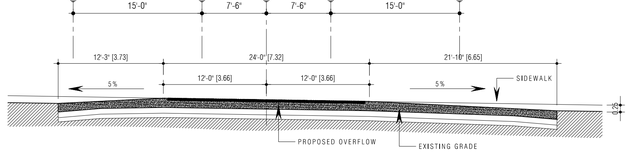
BID SET January 10, 2025



PR-9959 Proposed Speed Table + Pedestrian Crossing - Plan

SCALE : 1 = 100

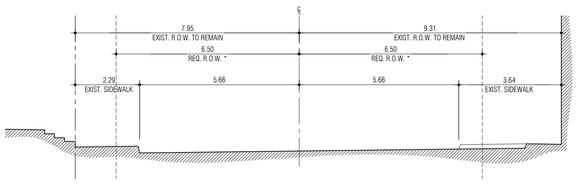
A
C-3.2



PR-9959 Proposed Speed Table + Pedestrian Crossing - Section

SCALE : 1 = 100

1
C-3.2

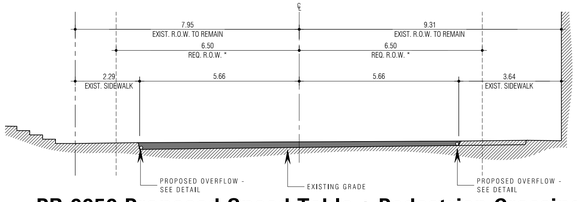


PR-9959 Existing Conditions - Section

SCALE : 1 = 100

2
C-3.2

NOTE :
* REQUIRED RIGHT OF WAY AS PER NOTE (A) IN *"GUÍA DE SECCIONES TÍPICAS PARA LAS CARRETERAS ESTATALES"*.



PR-9959 Proposed Speed Table + Pedestrian Crossing - Section

SCALE : 1 = 100

2'
C-3.2

NOTE :
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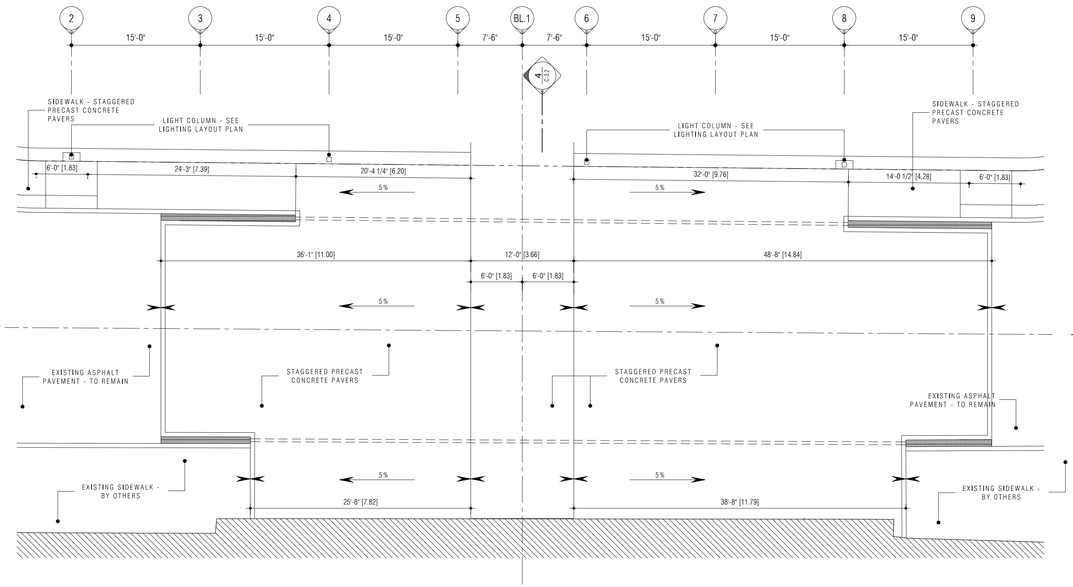
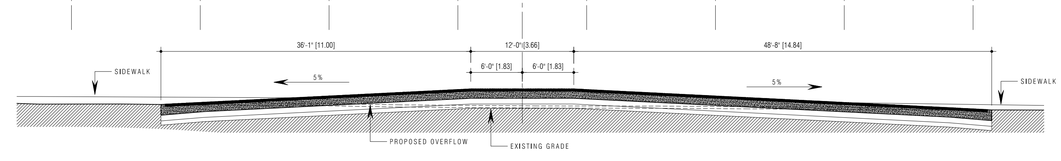


Calle Muñoz Rivera Proposed Speed Table + Pedestrian Crossing - Plan

SCALE : 1 = 100

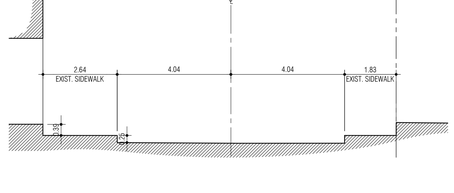
B
C-3.2



Calle Muñoz Rivera Proposed Speed Table + Pedestrian Crossing - Section

SCALE : 1 = 100

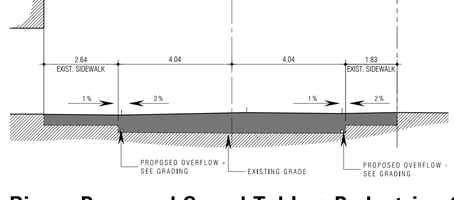
3
C-3.2



Calle Muñoz Rivera Existing Conditions - Section

SCALE : 1 = 100

4
C-3.2



Calle Muñoz Rivera Proposed Speed Table + Pedestrian Crossing - Section

SCALE : 1 = 100

4'
C-3.2

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REVISIONS

REV. #	DATE	ISSUING REASON
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PROFESSIONAL SEAL

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e-mail: info@formationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

CIVIL SUB-CONSULTANT

Speed Table Plans & Details

CLIENT

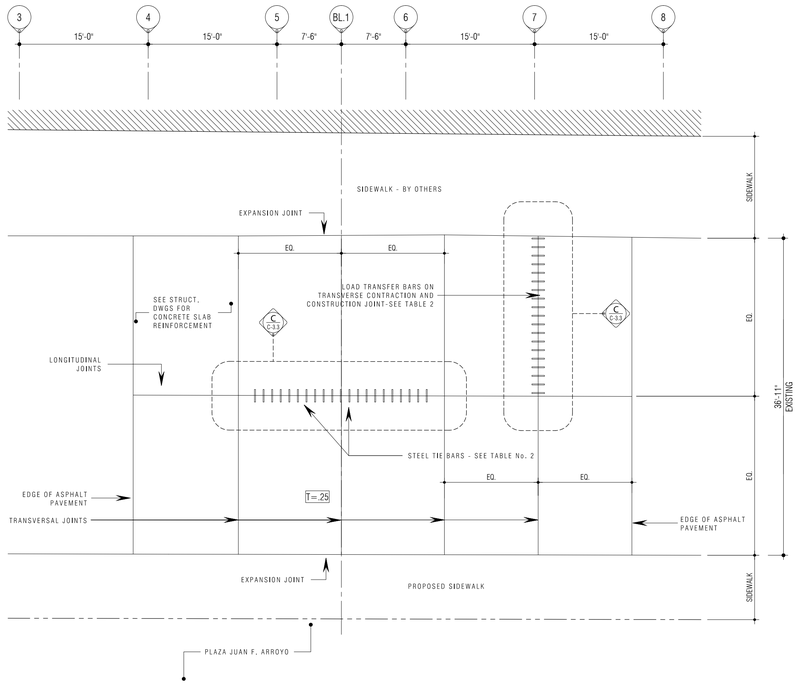
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
12	krs / 26.vi.2024

DESCRIPTION

C-3.2

BID SET January 10, 2025

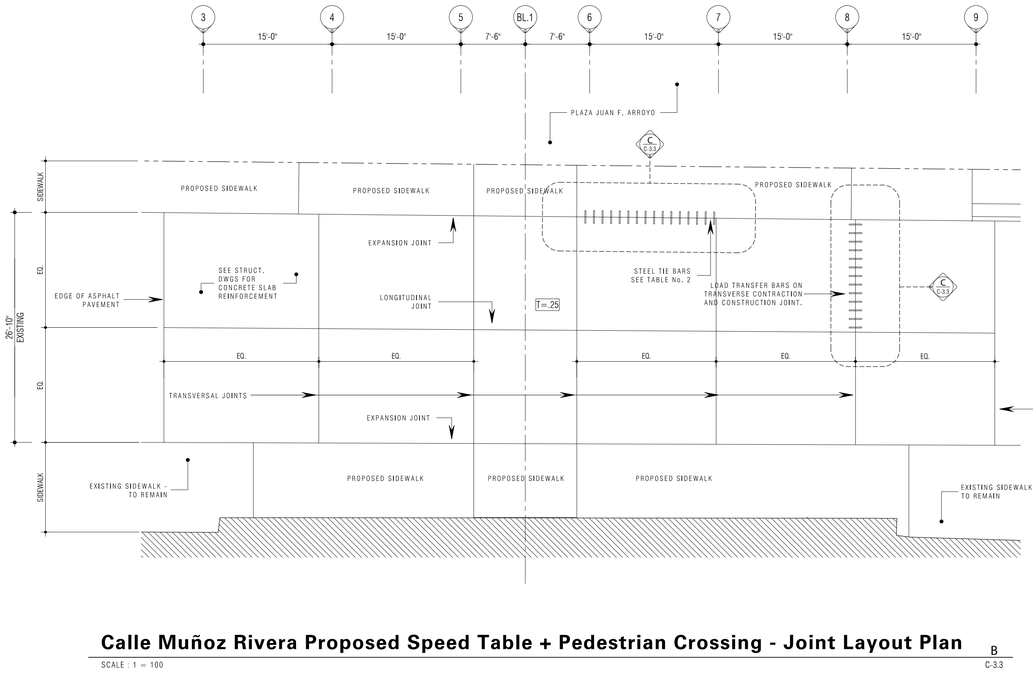


PR-9959 Proposed Speed Table + Pedestrian Crossing - Joint Layout Plan

A

SCALE : 1 = 100

C-3.3

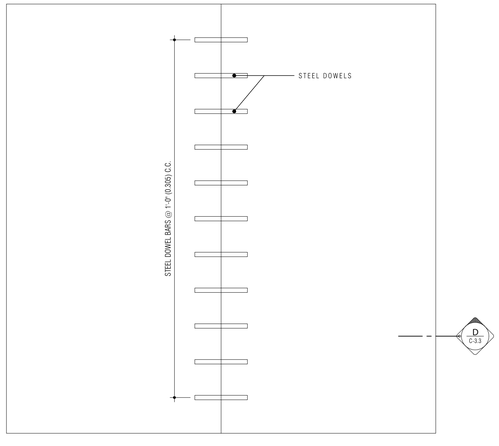


Calle Muñoz Rivera Proposed Speed Table + Pedestrian Crossing - Joint Layout Plan

B

SCALE : 1 = 100

C-3.3

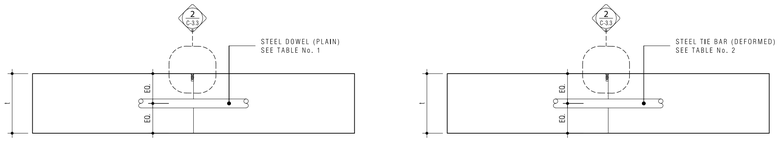


Contraction and Construction Joints Detail

C

NOT TO SCALE

C-3.3

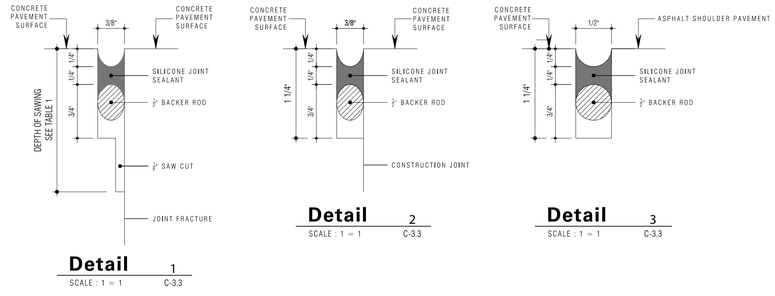


Concrete Pavement Joints

D

NOT TO SCALE

C-3.3



Detail 1

SCALE : 1 = 1 C-3.3

Detail 2

SCALE : 1 = 1 C-3.3

Detail 3

SCALE : 1 = 1 C-3.3

Notes

1. UNLESS OTHERWISE SPECIFIED, TRANSVERSE JOINTS SHALL BE SPACED 6.0 FROM EACH OTHER.
2. DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

TABLE 1

STEEL DOWEL (EPOXY COATED, PLAIN OR DEFORMED) AND DEPTH OF JOINTS SAW

PAVEMENT THICKNESS METERS	DOWEL BAR DIAMETER (INCHES)	DOWEL LENGTH (METERS)	DOWEL SPACING (METERS)	DEPTH OF JOINT SAW CUT METERS (MIN.)
0.200	1-3/8"	0.45	0.305	0.07
0.250	1-1/2"	0.45	0.305	0.08
0.350	1-5/8"	0.45	0.305	0.10

TABLE 2

TIE BAR (EPOXY COATED, DEFORMED)

TYPE AND GRADE OF STEEL	WORKING STRESS PSI	EXISTING PAVEMENT THICKNESS (METERS)	NO. 5 BARS			
			MINIMUM OVERALL LENGTH (INCHES)	LANE WIDTH METERS		
				3.05	3.35	3.65
				MAXIUM SPACING INCHES		
GRADE 60 BILLET STEEL	30,000	0.20	30	48	48	48
	30,000	0.25	30	48	48	48
	30,000	0.35	30	48	48	40

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA — INGENIERO LICENCIADO — LIC. #6588 — PUERTO RICO

CERTIFICACION - CERTIFICATE - FIRM NAME

Yo, José O. González García, Rúbrica 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras y corporaciones públicas concernientes. También certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido en todo lo concerniente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la profesión de la industria puertorriqueña" y con la ley núm. 99 de 6 de julio de 1978, según enmendada, entendiendo que cualquier declaración falsa o fabricación de los hechos que se haya realizado en mi desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

YO, JOSÉ O. GONZÁLEZ GARCÍA, RÚBRICA 6588, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE LOS MISMOS. También certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido en todo lo concerniente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la profesión de la industria puertorriqueña" y con la ley núm. 99 de 6 de julio de 1978, según enmendada, entendiendo que cualquier declaración falsa o fabricación de los hechos que se haya realizado en mi desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Pavement Joint Layout Plan & Details

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03

PROJECT PHASE Construction Docs - 100%

SHEET # 13

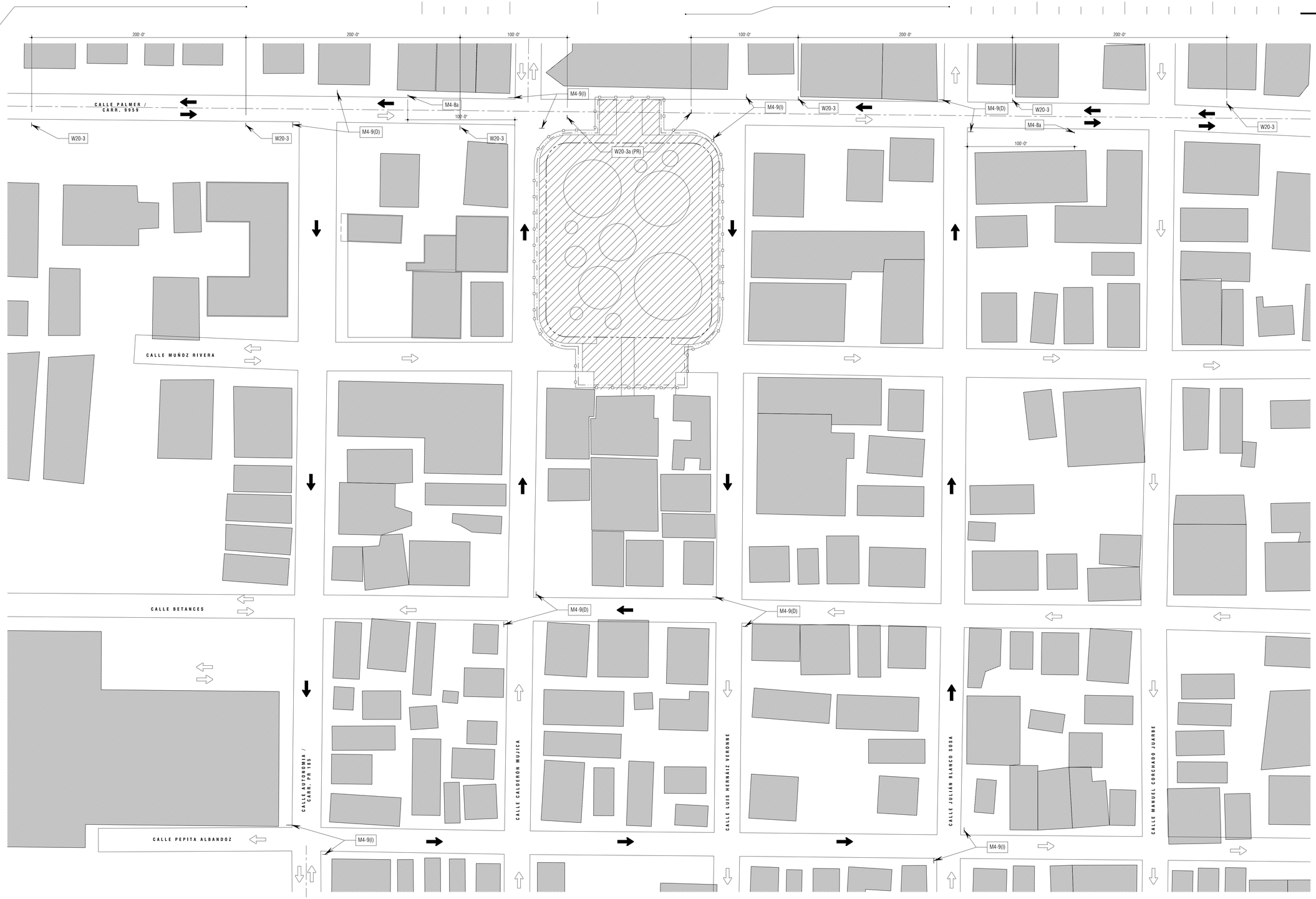
DRAWN BY krs

DATE 26.vi.2024

DISCIPLINE

C-3.3

BID SET January 10, 2025



Maintenance of Traffic (MOT) Plan

SCALE : 1 = 500

NOTE:

1. DETOUR MOT PLAN TO BE USED ONLY DURING CONSTRUCTION OF SPEED TABLE LOCATED ON PR-9959 (CALLE PALMER) & CALLE MUÑOZ RIVERA.

Legend

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- CHANNELING DEVICE
- TRAFFIC SIGN
- FLAGGER
- EXISTING TRAFFIC FLOW
- PROPOSED DETOUR
- XX-X (X) TRAFFIC SIGN TYPE
- WORK AREA

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS			
REV. #	DATE	ISSUING REASON	

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

CERTIFICACIÓN - CERTIFICATE - FIRMA AGAVE

Yo, José O. González García, licencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó los planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, juntas reglamentadoras y corporaciones públicas concernientes. También certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la ley 144-2004, según enmendada, conocida como la "ley para la protección por la industria puertorriqueña" y con la ley núm. 99 de 6 de julio de 1978, según enmendada, entendiendo que cualquier declaración falsa o fabricación de los hechos que se haya realizado a base de desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

YO, JOSÉ O. GONZÁLEZ GARCÍA, MAYAGÜEZ, BOTELLO, LICENCIA 19802, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS, ASIMISMO CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS CONCERNIENTES. TAMBIÉN CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA PROTECCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚM. 99 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, ENTENDIENDO QUE CUALQUIER DECLARACIÓN FALSA O FABRICACIÓN DE LOS HECHOS QUE SE HAYA REALIZADO A BASE DE DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

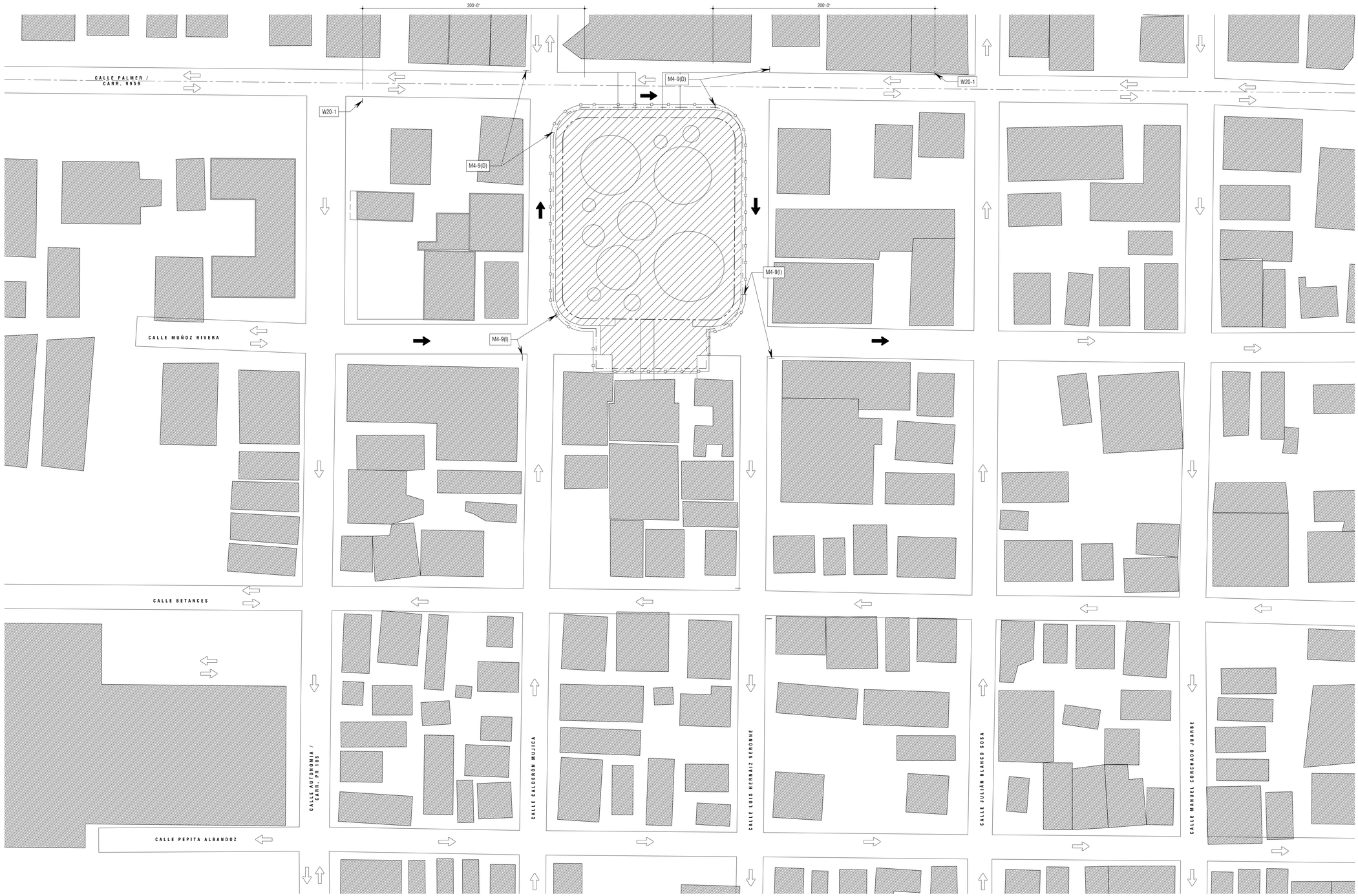
Maintenance of Traffic (MOT) Plan

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03
PROJECT PHASE Construction Docs - 100%
SHEET # 14
DRAWN BY krs
DATE 26.vi.2024
DISCIPLINE

C-4.0

BID SET January 10, 2025



Maintenance of Traffic (MOT) Plan

SCALE : 1 = 500

NOTES:

1. PLAN TO BE USED DURING CONSTRUCTION ACTIVITIES WITHIN PROPERTY LINES & ADJACENT SIDEWALKS.
2. DETOUR TO BE IMPLEMENTED ONLY DURING CONSTRUCTION OF SPEED TABLE IN CALLE MUÑOZ RIVERA.

Legend

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- CHANNELING DEVICE
- TRAFFIC SIGN
- FLAGGER
- EXISTING TRAFFIC FLOW
- PROPOSED DETOUR
- XX-X (X) TRAFFIC SIGN TYPE
- WORK AREA

BID SET January 10, 2025

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSÉ O. GONZÁLEZ INGENIERO LICENCIADO LIC. #6588 PUERTO RICO

CERTIFICATION - COPYRIGHTS + FIRM NAME

Yo, José O. González García, Ricenia 6589, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras y corporaciones públicas concernientes. También certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido estrictamente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la profesión y por la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1976, según enmendada, y reconozco que cualquier declaración falsa o fabricación de los hechos que se haya realizado con conocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

YO, JOSÉ O. GONZÁLEZ GARCÍA, RICENIA 6589, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS CONCERNIENTES. TAMBIÉN CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO ESTRICTAMENTE CON LO DISPUESTO EN LA LEY 14-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA PROFESIÓN Y POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚM. 96 DE 6 DE JULIO DE 1976, SEGÚN ENMENDADA, Y RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FABRICACIÓN DE LOS HECHOS QUE SE HAYA REALIZADO CON CONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Maintenance of Traffic (MOT) Plan

CLIENT: Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03

PROJECT PHASE: Construction Docs - 100%

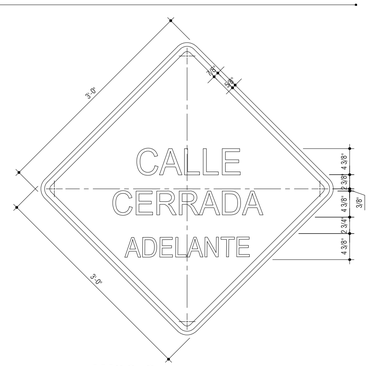
SHEET # 15

ISSUED BY krs

DATE 26.vi.2024

DISCIPLINE

C-4.1



W20-3

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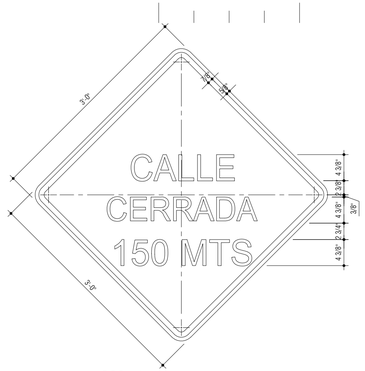

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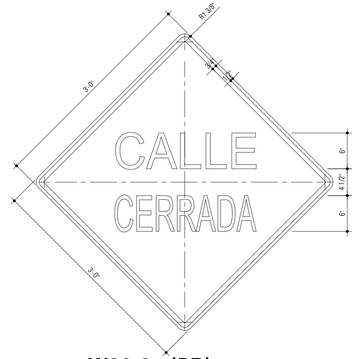

W20-3a (PR)

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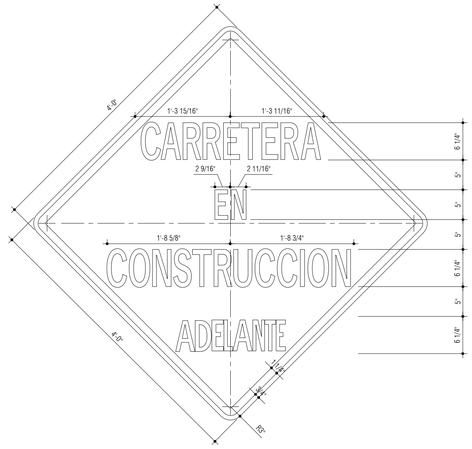


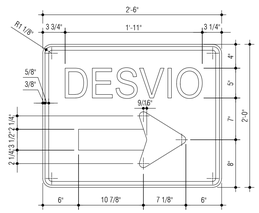
W20-1

SCALE : 1" = 1'-0"



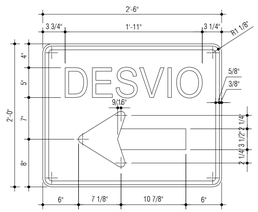
M4-8a

SCALE : 1"=1'-0"



M4-9 (D)

SCALE : 1"=1'-0"



M4-9 (I)

SCALE : 1"=1'-0"

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSÉ O. GONZÁLEZ
INGENIERO
LICENCIADO
LIC. #6588
PUERTO RICO

CERTIFICACION - CERTIFICATE / FIRM NAME

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e-mail: info@formationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G.
ENGINEERING CORP.

DWG. TITLE

Maintenance of Traffic Notes & Details

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03

PROJECT PHASE Construction Docs - 100%

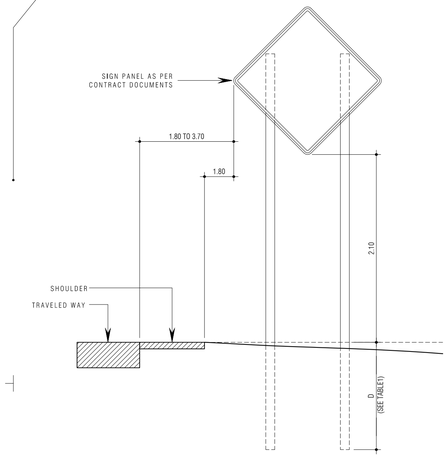
SHEET # 16

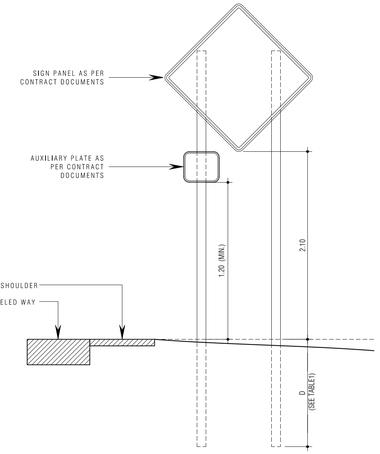
DRAWN BY krs

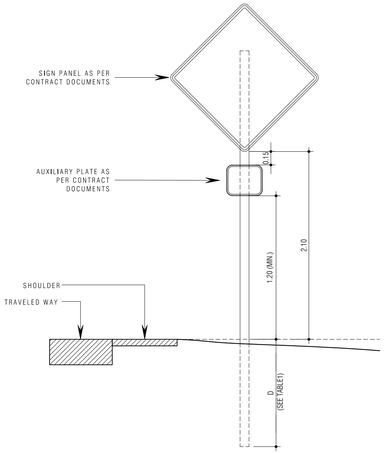
DATE 26.vi.2024

DISCIPLINE

C-4.2



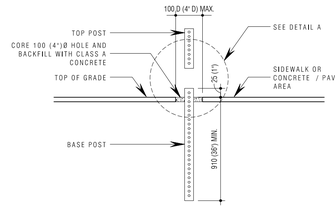




Fixed Roadway Signs - Rural Area

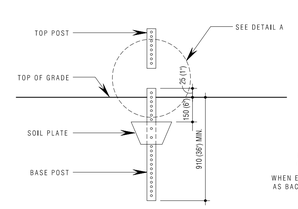
NOT TO SCALE

TABLE 1							
WOOD POST SIZE		D		HOLE DIAMETER		MAXIMUM SIGN PANEL AREA (SQUARE METERS)	
MT. X MT.	IN. X IN	MT.	IN.	MT.	IN.	1 POST	2 POST
0.10 X 0.10	4 X 4	1.2	4	NONE REQUIRED		1.0	2.0
0.10 X 0.15	4 X 6	1.2	4	0.04	1.5	N/A	3.0
0.15 X 0.15	6 X 6	1.5	5	0.05	2.0	N/A	4.5
0.15 X 0.20	6 X 8	1.5	5	0.07	3.0	N/A	8.0



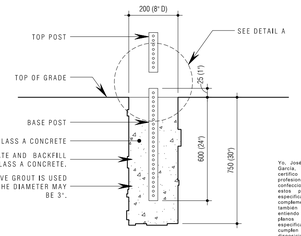
Sidewalk or Concrete

NOT TO SCALE



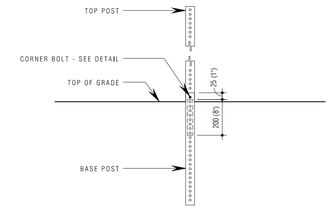
Natural Soil

NOT TO SCALE



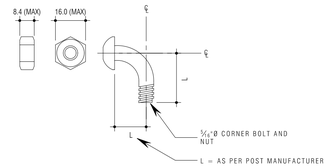
Rock Condition

NOT TO SCALE



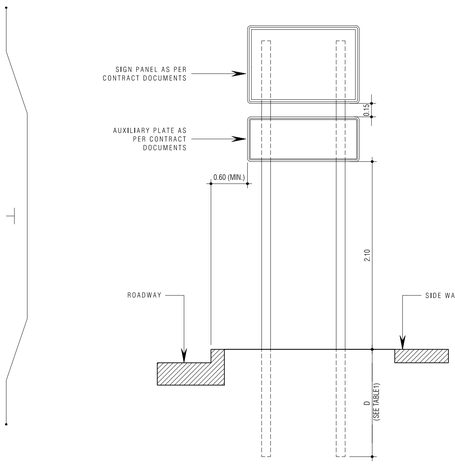
Detail A - Top to Base Post Connection

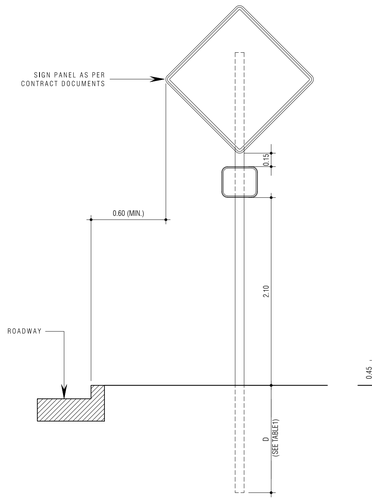
NOT TO SCALE

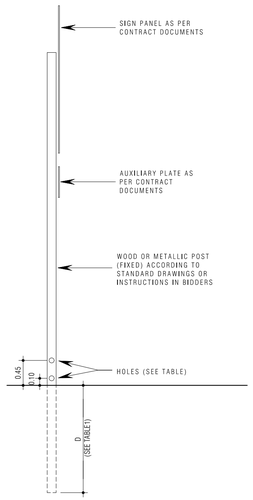


Top to Base Post Fastener

NOT TO SCALE







Fixed Roadway Signs - Urban Area

NOT TO SCALE

Notes

1.0 UNLESS OTHERWISE SHOWN, DIMENSIONS ARE IN METERS.

2.0 MOUNT SIGNS THAT ARE WIDER THAN 0,90M OR LARGER THAN 1 SQUARE METER ON TWO POSTS. SEE TABLE 1.

3.0 ALL LUMBER DIMENSIONS ARE NOMINAL.

4.0 THE CONTRACTOR MAY SUBMIT, FOR APPROVAL BY ENGINEER / ARCHITECT, ALTERNATE TEMPORARY SIGN MOUNTING WHICH FULLY COMPLIES WITH NCHRP 350 TL-3.

5.0 FOR POSTS GREATER THAN 0,10 X 0,10, CONTRACTOR SHALL SUBMIT BREAKAWAY SUPPORT DETAIL TO ENGINEER/ARCHITECT PRIOR TO INSTALLATION.

6.0 PORTABLE SIGNS MAY BE MOUNTED LOWER THAN FIXED SIGNS WHEN APPROVED BY ENGINEER/ARCHITECT.

7.0 MOUNTING FOR PORTABLE SIGNS SHALL HOLD THE SIGN FACE IN A VERTICAL PLANE.

8.0 FOR SIGNS REQUIRING POSTS 0,15 X 0,15 AND GREATER, SIGNS ARE CONSIDERED TO BE NON-BREAKAWAY IF MULTIPLE POST ARE REQUIRED AND THE POSTS CANNOT BE SPACED AT A MINIMUM OF 2,1 METERS APART. DO NOT PLACE HOLES IN POST OF NON-BREAKAWAY SIGNS.

9.0 SIGN MOUNTED ON PORTABLE SUPPORTS SHALL NOT BE USED FOR A DURATION OF MORE THAN THREE DAYS.

10.0 THE BACKGROUND FOR CONSTRUCTION WARNINGS SIGNS SHALL BE FLUORESCENT ORANGE COLOR ACCORDING TO SUPPLEMENTAL SPECIFICATION 638-2.02.

11.0 THE FINAL LOCATION OF TEMPORARY TRAFFIC SIGNS SHALL BE AS DIRECTED BY ENGINEER/ARCHITECT CONSIDERING OPTIMUM VISIBILITY AND, SAFETY IN THE EXISTING FIELD CONDITIONS.

12.0 THE CONTRACTOR SHALL USE APPROPRIATE SIZE DRIVE CAP TO DRIVE POST.

13.0 FOR SIDEWALK OR CONCRETE PAVED AREA, THE CONTRACTOR SHALL CORE SIDEWALKS SLAB 4" Ø AND BACKFILL WITH CLASS A CONCRETE AS A SUBSIDIARY OBLIGATION.

14.0 FOR ROCK CONDITION, THE CONTRACTOR SHALL EITHER EXCAVATE (8" DIAMETER HOLE) AND BACKFILL WITH CLASS A CONCRETE OR EXCAVATE (3" DIAMETER HOLE) AND BACKFILL WITH EXPANSIVE GROUT AS A SUBSIDIARY OBLIGATION.

15.0 THE CORNER BOLT SHALL BE THE ONE PROVIDED BY THE POST MANUFACTURER AND APPROVED BY FHWA AS A RESULT OF NCHRP 350 COMPLIANCE TESTING.

16.0 STEEL POST SHALL CONFORM TO THE REQUIREMENTS OF ASTM A499, GRADE 60 OR MARION STEEL COMPANY GRADE SP-80.

17.0 AFTER FABRICATION, POST SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111 (ASTM A123).

18.0 THE BASE POST MAY HAVE SLOTTED HOLE 9.5MM X 13MM FOR THE FIRST AND FIFTH HOLE.

19.0 REFLECTIVE SHEETING USED ON ALL SIGNS SHALL CONFORM TO ASTM D4956, TYPE III. THE BACKING SHALL BE CLASS 1 OR 2.

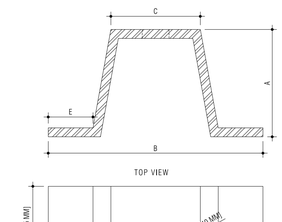
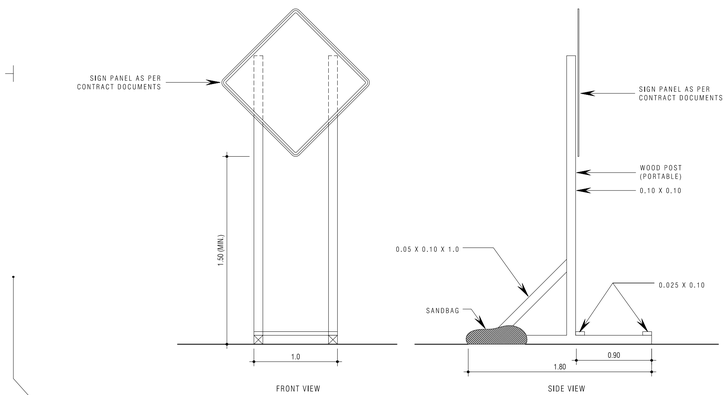


TABLE 2							
WEIGHT		NOMINAL DIMENSIONS					
				A	B	C	E
LB/FT	2	IN		1.45 - 1.55	3.00 - 3.15	1.25 - 1.30	0.62 - 0.67
KG/M	3	MM		37 - 38.5	77.5 - 78.5	31.75 - 32.5	15.8 - 17.0

Steel Flanged Channel - Top or Base Post

NOT TO SCALE



Portable Signs

NOT TO SCALE

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 In formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

CERTIFICACION - CERTIFICATE - FIRM NAME

Yo, José O. González García, Ingeniero 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras y corporaciones públicas que aplican a mi especialidad certifico, además, que en la preparación de estos planos y especificaciones se no ha violado ninguna ley con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la reglamentación por la industria puertorriqueña" y con la ley núm. 99 de 6 de julio de 1978, según enmendada, respecto a que cualquier declaración falsa o fabricación de los hechos que se haya incurrido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, no hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

YO, JOSÉ O. GONZÁLEZ GARCIA, INGENIERO LICENCIADO, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS QUE APLICAN A MI ESPECIALIDAD. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE NO HA VIOLADO NINGUNA LEY CON LO DISPUESTO EN LA LEY 14-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REGLAMENTACIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 99 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, RESPECTO A QUE CUALQUIER DECLARACIÓN FALSA O FABRICACIÓN DE LOS HECHOS QUE SE HAYA INCURRIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, NO HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

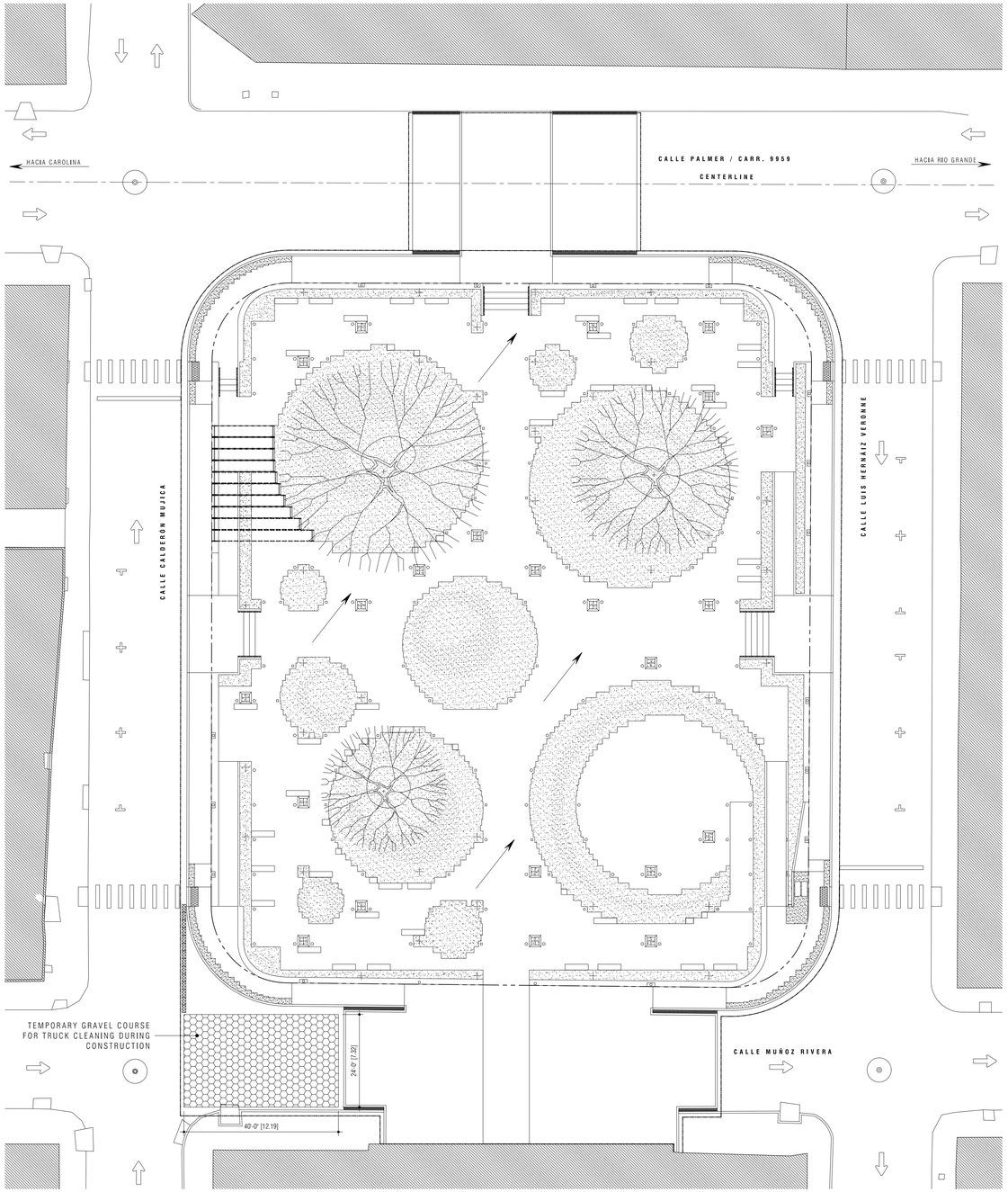
Maintenance of Traffic Notes & Details

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03
PROJECT PHASE Construction Docs - 100%
SHEET # 17
DRAWN BY krs
DATE 26.vi.2024
DISCIPLINE

C-4.3

BID SET January 10, 2025



CES Plan

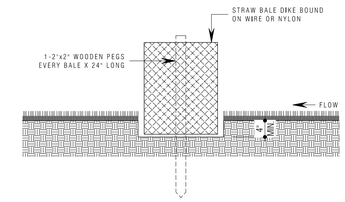
SCALE : 1 = 200

Legend

- PROPERTY LINE
- EXISTING TRAFFIC FLOW
- TEMPORARY GRAVEL COURSE FOR TRUCK CLEANING DURING CONSTRUCTION
- BALE ROW - STAKED/PEGGED TO GROUND - SEE DETAIL FOR PROPER ANCHORING
- TOPSOIL STOCK PILE AREA
- STRAW BALE DIKE AROUND OUTLET
- SILT FENCE
- XX-X APPROXIMATE BORING LOCATION AS PER SUB-SOIL STUDY
- ARROW INDICATES RUN-OFF FLOW

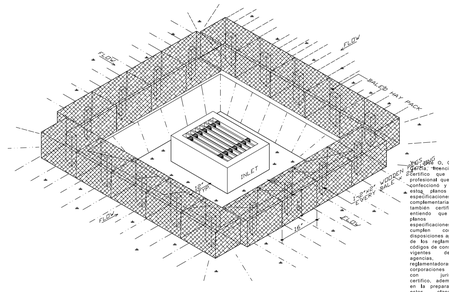
Sediment Control Notes

1. CONTRACTOR SHALL CONSTRUCT DITCHES, SWALES AND BERMS FOR CONTROLLING EROSION AND SEDIMENT POLLUTION DURING CONSTRUCTION.
2. NO FILL SHALL BE LEFT UNSTABLE MORE THAN THIRTY DAYS, NOR STORED WITHOUT COMPACTION.
3. SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED AS NECESSARY TO ASSURE IT IS FREE FROM DEBRIS OR MUD IN ORDER TO GUARANTEE ITS GOOD PERFORMANCE DURING CONSTRUCTION.
4. NO FILL SHALL BE STORED IN PROJECT FOR MORE THAN SEVEN DAYS.
5. ALL TUCKS AND EQUIPMENT WHEELS HALL BE CLEANED, AT CLEANING AREA. BEFORE LEAVING THE PROJECT.
6. THE PROJECT SHALL HAVE ONE EXIT ONLY, DURING AND AFTER CONSTRUCTION.
7. ALL PERMANENT SLOPES SHALL BE SODDED AS SOON AS POSSIBLE.
8. CONTRACTOR SHALL SPRAY WITH WATER (TWICE DAILY) ALL BARE GROUND THROUGHOUT PROJECT.
9. PREVENTIVE SEDIMENTATION WORKS SHALL BE PERFORMED PRIOR TO EARTH MOVEMENT ACTIVITIES.
10. FOR ADDITIONAL INFORMATION ON SEDIMENT CONTROL DURING CONSTRUCTION, REFER TO THE 'CES PLAN' PROPOSAL.
11. SEDIMENT SHALL BE REMOVED AFTER ACCUMULATED TO HALF THE DESIGN DEPTH OF THE TRAP. SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA.
12. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
13. THE PROJECT ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY.
14. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ON TO PUBLIC R/W WHEN NEEDED. WASHING SHALL BE DONE ON AREA DESIGNATED FOR TRUCK CLEANING.
15. EACH BALE SHALL BE EMBEDDED IN HE SOIL A MINIMUM OF 4".
16. BALES SHALL BE SECURELY ANCHORED IN PLACE WITH WOODEN STAKES DRIVEN THROUGH THE BALES.
17. BALES SHALL BE REMOVED AFTER PROJECT COMPLETION SO AS TO BLOCK STORM FLOW DRAINAGE.
18. FINAL LOCATION OF EROSION & SEDIMENT CONTROL TO BE COORDINATED BY ARCHITECT AND CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.



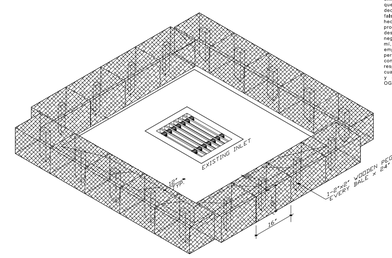
Bales Hay Embedding Detail

NTS



Straw Bale Dike Sediment Trap Det. - Proposed Inlets

NTS



Straw Bale Dike Sediment Trap Det. - Existing Inlets

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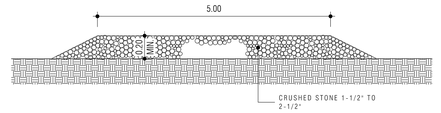
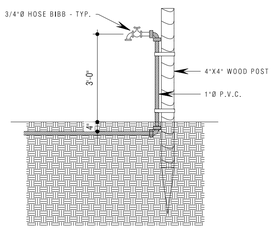


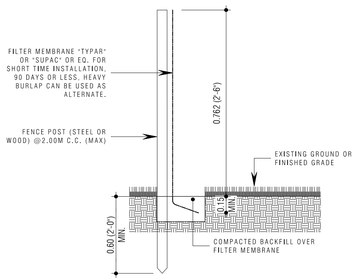
Truck Washing Facilities

NTS



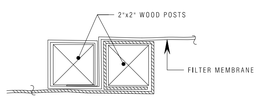
Hose Bibb Det.

NTS



Silt Fence Detail

NTS



Silt Screen to Wood Post Detail

Notes:

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4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSE O. GONZALEZ INGENIERO LICENCIADO LIC. #6588 PUERTO RICO

CERTIFICACION - CERTIFICATE / FIRM NAME

YO, JOSE O. GONZALEZ CINTRON, mayor de edad, Ingeniero Licenciado, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIEN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS VIGENTES DE LAS AGENCIAS, JUNTAS, REGLAMENTADORAS Y CORPORACIONES PUBLICAS QUE REGLAMENTAN EL EJERCICIO PROFESIONAL DE LA INGENIERIA EN PUERTO RICO, CERTIFICO, ADEMAS, QUE EN LA PREPARACION DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CON LO DISPUESTO EN LA LEY NUMERO 84 DE 26 DE JULIO DE 1976, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA PROTECCION DE LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 99 DE 6 DE JULIO DE 1978, SEGUN ENMENDADA, POR LO QUE NO SOMETO NINGUNA DECLARACION FALSA O FABRICACION DE LOS HECHOS QUE SE HAYA CONSIGNADO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPe.

YO, JOSE O. GONZALEZ CINTRON, MAYOR DE EDAD, INGENIERO LICENCIADO, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS, TAMBIEN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS VIGENTES DE LAS AGENCIAS, JUNTAS, REGLAMENTADORAS Y CORPORACIONES PUBLICAS QUE REGLAMENTAN EL EJERCICIO PROFESIONAL DE LA INGENIERIA EN PUERTO RICO, CERTIFICO, ADEMAS, QUE EN LA PREPARACION DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CON LO DISPUESTO EN LA LEY NUMERO 84 DE 26 DE JULIO DE 1976, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA PROTECCION DE LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 99 DE 6 DE JULIO DE 1978, SEGUN ENMENDADA, POR LO QUE NO SOMETO NINGUNA DECLARACION FALSA O FABRICACION DE LOS HECHOS QUE SE HAYA CONSIGNADO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPe.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

CIVIL / MEP / FP

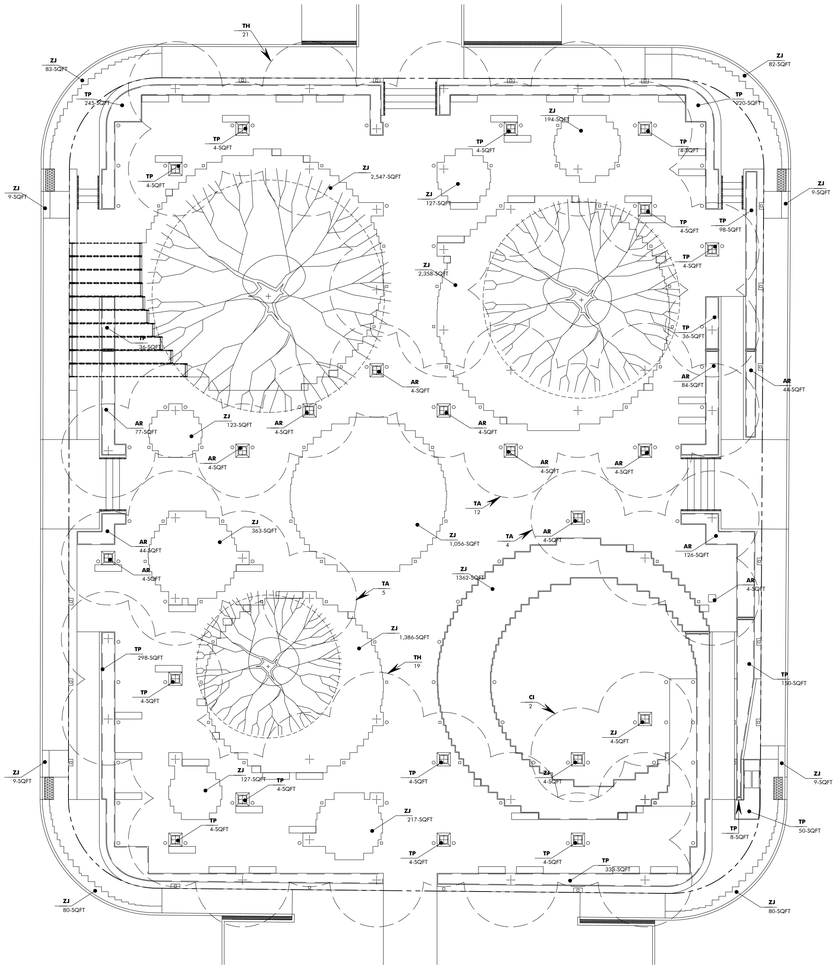
CES Plan & Details

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03
PROJECT PHASE Construction Docs - 100%
SHEET # 18
DRAWN BY krs
DATE 26.vi.2024
DISCIPLINE

C-5.0

BID SET January 10, 2025

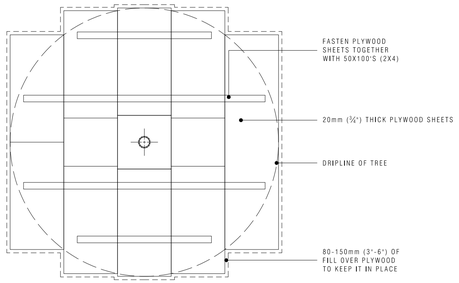


Planting Layout Plan

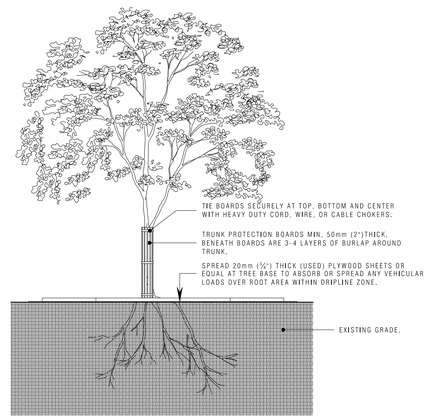
SCALE : 1/16" = 1'-0"

A

L-1.0



Plan



Section

Tree Protection (Typ)

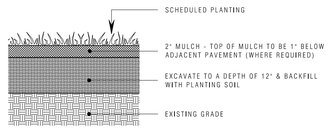
NOT TO SCALE

1

L-1.0

NOTES:

1. USE THIS DETAIL WHERE USE OF PROTECTIVE FENCING DOES NOT ALLOW FOR SUFFICIENT CONSTRUCTION MANEUVERING ROOM.
2. REMOVE ALL CHOKERS, BOARDS, ROPES, FILL AND PLYWOOD IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION. IF CONSTRUCTION TIME IS EXTENDED, DO NOT ALLOW THESE MATERIALS TO STRANGULATE TREE OR DAMAGE BARK.
3. IF LOWER LIMBS INTERFERE WITH WORK, TIE UP WITH HEAVY DUTY JUTE CORD.
4. TIE UP LIMBS IN WARM WEATHER IF POSSIBLE.
5. ADJUST HEIGHT OF PROTECTIVE BOARDS TO PREVENT ANTICIPATED DAMAGE BY EQUIPMENT.



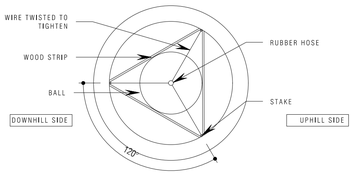
Ground Cover (Typ)

NOT TO SCALE

2

L-1.0

PLANTING SCHEDULE								
CATEGORY	KEY	BOTANICAL NAME	COMMON NAME	QUANTITY	AREA (FT^2)	MATURE SIZE / SHAPE	SPACING	SIZE / ROOT
EXISTING TREES	FT	FICUS TRIGONATA	JAGUEY BLANCO, BLACK FIG	3	N/A	60' H x 60' W	AS SHOWN	N/A
TREES	CI	CALOPHYLLUM INOPHYLLUM	MARIA TREE, BEAUTY LEAF	2	N/A	60' H X 30' W	AS SHOWN	15 GAL - 10' HT / BALLED & BURLAPPED
	TA	TABEBUIA AUREA	YELLOW POUI, YELLOW TABEUIA	21	N/A	30' H - IRREGULAR	AS SHOWN	15 GAL - 8' HT / BALLED & BURLAPPED
	TH	TABEUIA HETEROPHYLLA	ROBLE BLANCO, WHITE CEDAR	39	N/A	40' H - UP RIGHT, IRREGULAR	AS SHOWN	15 GAL - 8' HT / BALLED & BURLAPPED
GROUND COVER	AR	ARACHIS REPENS	MANI, ORNAMENTAL PEANUT	N/A	450	6" H - BROAD SPREADING	1'-0" C.C.	4" POT - FULLY ROOTED / SPRIGGED
	TP	TRADESCANTIA PALLIDA	PURPLE HEART, SANGUINARIA	N/A	1,500	1' H	1'-0" C.C.	4" POT - FULLY ROOTED/FULL
	ZJ	ZOYSIA JAPONICA	MEYER ZOYSIA GRASS	N/A	10,250	N/A	N/A	SODDED

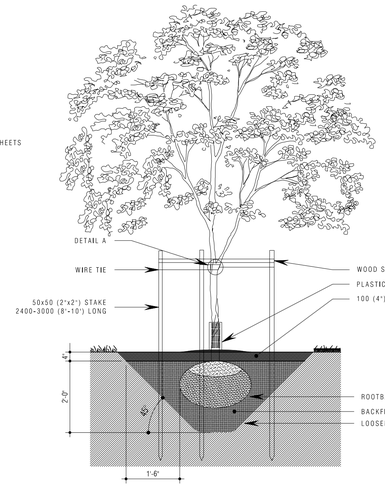


Staking for Special Conditions Plan

NOT TO SCALE

3

L-1.0

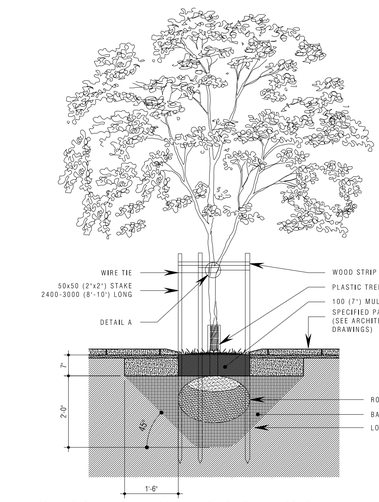


Staking for Special Conditions

NOT TO SCALE

4

L-1.0



Staking for Special Conditions

NOT TO SCALE

5

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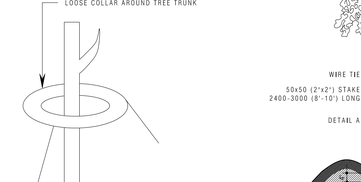
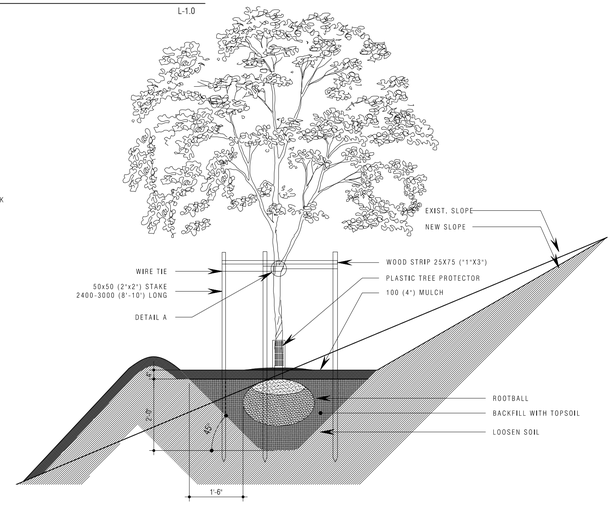


Detail A

NOT TO SCALE



Staking for Special Conditions

NOT TO SCALE

6

L-1.0

Planting Notes

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.
2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS.
3. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HASBEEN FINISHED AND APPROVED BY THE PROJECT ARCHITECT OR EQUAL.
5. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
6. ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT TIME OF PLANTING.
7. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
8. THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR EQUAL.
9. ALL PLANT MATERIAL SHALL BE SELECTED AT THE NURSERIES BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
10. ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT WITHIN 24 HOURS AFTER PLANTING, IN TEMPERATE ZONES. ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT AT THE BEGINNING OF THEIR FIRST WINTER.
11. ALL PLANTS SHALL BE INSTALLED AS PER DETAILS AND THE CONTRACT SPECIFICATIONS.
12. ALL PLANTS AND STAKES SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.
13. THE LANDSCAPE CONTRACTOR SHALL PROVIDE FILL AS PER THE CONTRACT SPECIFICATIONS.
14. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING, ALL PLANTS SHALL THEN BE WATERED WEEKLY, IF NECESSARY, DURING THE FIRST GROWING SEASON.
15. THE LANDSCAPE CONTRACTOR SHALL REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
16. MULTIPLE STEMMED DECIDUOUS TREES OVER 4FT. IN HEIGHT SHALL BE STAKED WITH 2 STAKES IN SUCH A MANNER AS TO STABILIZE 2 MAINSTEMS.
17. THE WOOD STAKES SHALL BE CONSTRUCTION GRADE, ROUGH OR DRESSED, OF SOUND WOOD, DECAY RESISTANT, AND OF THE SIZE INDICATED IN THIS DRAWING.
18. THE WIRE TIES SHALL BE 12 OR 14 GAUGE GALVANIZED WIRE, AND BE PROVIDED WITH A ONE FOOT PIECE OF RUBBER HOSE PLACED TO PREVENT INJURY TO THE BARK.
19. TREE WRAPPING SHALL BE PLACED AROUND ALL TRUNKS OF DECIDUOUS TREES TWO OR MORE INCHES IN CALIPER. TREE WRAPPING SHALL EXTEND FROM GROUND LINE TO 50(2") ABOVE THE FIRST BRANCH, EACH TURN OF WRAPPING MATERIAL SHALL OVERLAP ½ THE WIDTH OF PREVIOUS TURN END WITH JUTE AT TOP, MIDDLE AND BOTTOM.
20. THE DIAMETER OF ALL PLANT PITS SHALL BE AT LEAST 2 OR 3 TIMES GREATER THAN THE BALL DIAMETER FOR BARE ROOT PLANTS. LOCATE THE ROOT BALL ON SOLID SOIL AND NOT LOOSE BACKFILL.
21. THE PIT DEPTHS SHALL COMPLY WITH THE REQUIREMENT OF THE STANDARD SPECIFICATION 625- PLANTING.
22. MULCH SHALL BE APPLIED AROUND ALL PLANT TO MINIMUM DEPTH OF 100 MM (4") OVER ENTIRE PLANT PIT. AGED SHREDDED HARDWOOD BARK, LICORICE ROOT OR AGED WOOD CHIPS CAN BE USED. ANY MULCH CONTAINING PRESERVATIVES IS UNACCEPTABLE.
23. BACKFILL WITH NATIVE SOIL UNLESS CONSIDERED UNSUITABLE IN THAT CASE FILL PIT WITH GOOD QUALITY TOPSOIL.
24. THE ENTIRE AREA OF THE PLANTING PITS SHALL BE GRADED SO THAT THE MAXIMUM SLOPE DOES NOT EXCEED 10:1 IN ANY DIRECTION.
25. TREES SHALL NOT BE PLANTED WITHIN THE CLEAR ZONE.
26. BACKFILL, TOP SOIL, CABLE OR WIRE TIES, RUBBER HOSES, STAKES AND PITS WILL BE CONSIDERED A SUBSIDIARY OBLIGATION.
27. THE CONTRACT UNIT PRICE FOR EACH OF THE PARTICULAR PAY ITEMS COVERED UNDER THE STANDARD SPECIFICATION 825-PLANTING WILL CONSTITUTE FULL COMPENSATION FOR INCIDENTALS NECESSARY TO COMPLETE THIS WORK.
28. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
29. ON SLOPES STEEPER THAN 3:1, THE FRONT CENTER OF THE PIT SHALL BE MODIFIED TO INCLUDE A "V" CUT THE FULL DEPTH OF THE PIT. THE PIT SHALL BE DUG 2" DEEPER AND BACKFILLED WITH 2" MATERIAL A+2+4 GRAVEL, DAYLIGHTED TO THE SLOPE FACE, AND CONVERED WITH FILTER FABRIC PRIOR TO BACKFILLING WITH SOIL MIXTURE.

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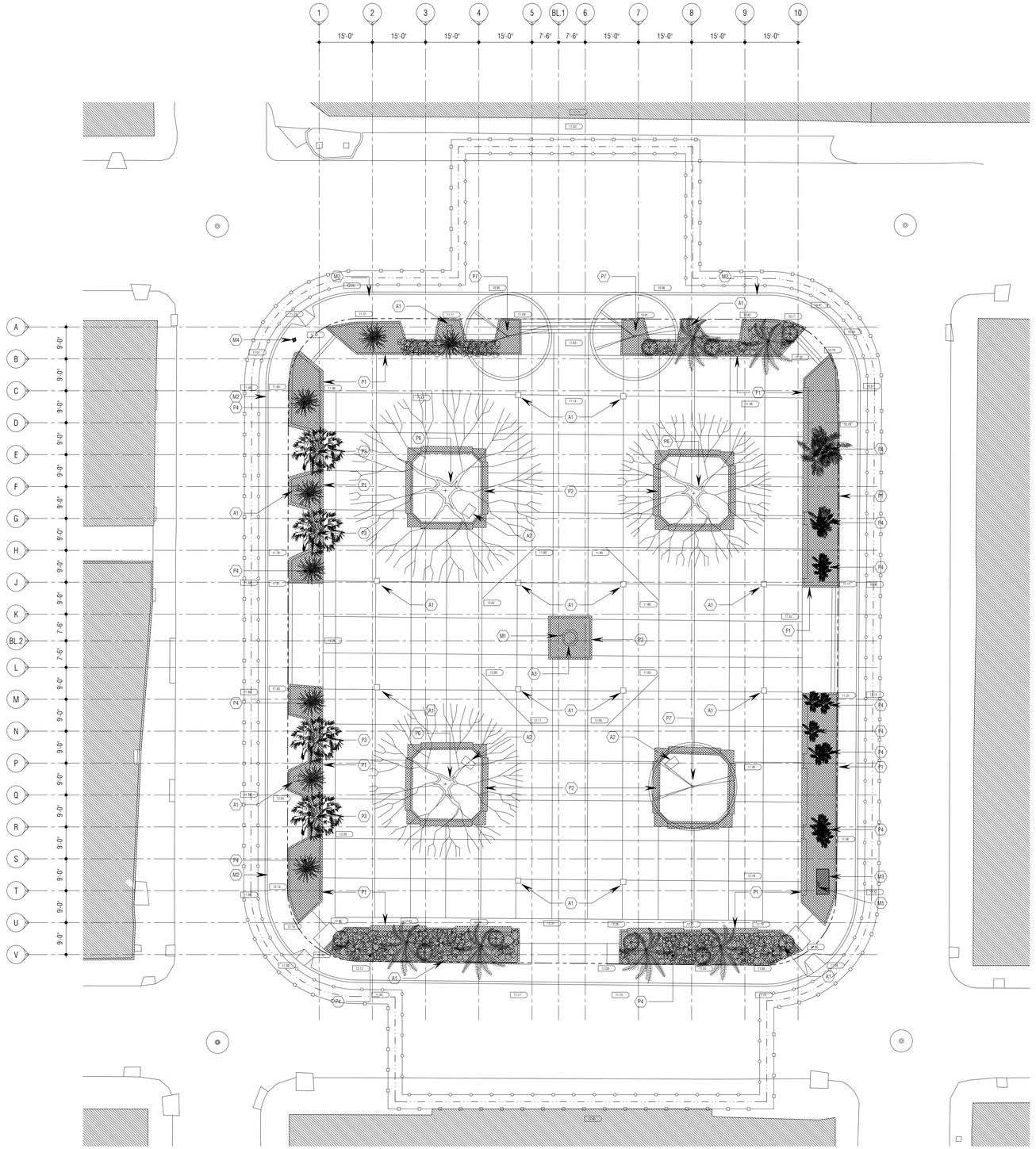
REVISIONS		
REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL



IDENTIFICACION - CERTIFICATE - FIRMA NUMBER

YO, JULIÁN MANRIQUEZ BOTELLO, LICENCIA 19802, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES, QUE SOMETO PARA SU APROBACIÓN. CERTIFICO QUE ENTIENDO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN QUE RIGEN LAS AGENCIAS, RAMOS, PÚBLICOS CON JURISDICCIÓN SOBRE ESTE TRABAJO. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LA NORMATIVA VIGENTE. ASIMISMO, CERTIFICO QUE EMPLEARÉ, O FUI CONTRATADO POR LA INDIVIDUO, EMPLEADOS, O FIRMA QUE TENGA EL CONOCIMIENTO NECESARIO PARA LLEVAR A CABO LA LABOR DE MANERA SEGURA Y QUE CUMPLE CON LA NORMATIVA VIGENTE. NO SHALL, EN LA MEDIDA DE MI CONOCIMIENTO, LOS PLANOS Y ESPECIFICACIONES INCLUYEN CUALQUIER DISEÑO ILEGAL, NO SHALL, EN LA MEDIDA DE MI CONOCIMIENTO, LOS PLANOS Y ESPECIFICACIONES INCLUYEN CUALQUIER DISEÑO QUE INFRINJA LOS DERECHOS DE AUTOR DE OTRA PERSONA. FIRMA DE LA PERSONA QUE RECONOCIDO DU CUALQUIER DISEÑO QUE INFRINJA LOS DERECHOS DE AUTOR DE OTRA PERSONA. FIRMA DE LA PERSONA QUE OBTENIDO O POR NEGLIGENCIA, EMPLEADOS, O POR OTRO MEDIO, ME HACEN, ME PODRÍA LE SE DISCIPLINA RIA POR LA JUNTA EXAMINADORA DE INGENIEROS, ARQUITECTOS Y AGRIMENSORES DE PUERTO RICO. ESTUDIO LLC



Existing & Demolition Plan

SCALE : 1/16" = 1'-0"

Legend

- EXISTING CONSTRUCTION TO REMAIN
- WALL/OPENINGS TO BE DEMOLISHED
- STRUCTURAL/REINFORCED CONCRETE WALL
- CONCRETE BLOCK WALL
- GWB. PARTITION
- ELEMENTS TO BE REMOVED
- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- EXISTING TREE - CUT & DISPOSE

Demolition Keynotes

Accessories/Miscellaneous

- A1 REMOVE AND DISPOSE OF EXISTING LIGHT POST.
- A2 REMOVE AND DISPOSE OF BRASS PLAQUES.
- A3 REMOVE & RELOCATE CANOVANAX SCULPTURE.

Floor

- F1 REMOVE AND DISPOSE OF EXISTING SIDEWALK SLAB.
- F2 REMOVE AND DISPOSE OF EXISTING CONCRETE PAVEMENT.
- F3 REMOVE AND DISPOSE OF EXISTING BRASS JOINTS.
- F4 REMOVE AND DISPOSE OF EXISTING CONCRETE STAIRS AND RAMPS.
- F5 REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.

Electrical/Mechanical/Plumbing

- M1 REMOVE & RELOCATE HOSEBIB.
- M2 REMOVE ELECTRICAL POLE & BURY ALL ELECTRICAL LINES.
- M3 REMOVE AND DISPOSE OF EXISTING CONCRETE STRUCTURE & ELECTRICAL PANEL.
- M4 EXISTING FIRE HYDRANT TO BE RELOCATED
- M5 EXISTING LUMA ENERGY METER TO REMAIN

Planters/Partitions/Walls

- P1 REMOVE AND DISPOSE OF EXISTING PLANTER AND RELATED ITEMS.
- P2 REMOVE AND DISPOSE OF EXISTING PLANTER AND RELATED ITEMS.
- P3 REMOVE AND PREPARE TREE/PALM TREE TO BE RELOCATED.
- P4 REMOVE AND DISPOSE OF PLANT MATERIAL; BUSHES AND PALM TREES.
- P5 EXISTING TREE TO BE RELOCATED
- P6 EXISTING TREE TO REMAIN
- P7 EXISTING TREE TO BE REMOVED

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez botello PUERTO RICO
LIC: MXX DCCC III
EXP: 10.X.2025

CERTIFICACION / CERTIFICATE / FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19802, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y QUE LOS MISMOS CUMPLEN CON LA LEY NÚM. 144 DE 10 DE AGOSTO DE 1995, CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O CUMPLIDO CON JURISDICCIÓN SOBRE LA MATERIA. TAL(ES) PLANOS Y ESPECIFICACIONES CUMPLIDO CA ALMACENES RACIÓN DE CONSTRUCCIÓN, EMBARGADA, CANCELADA O CUMPLIDO LA "LEY PARA LA REFORMA POR LA INDUSTRIA DE LA CONSTRUCCIÓN EN PUERTO RICO" Y SUS REGLAMENTOS. ESTOS PLANOS NO SERÁN UTILIZADOS PARA LA CONSTRUCCIÓN HASTA QUE EL PROFESIONAL QUE LOS DISEÑÓ, CONFECCIONÓ O PREPARÓ HAYA SOMETIDO EL FORMULARIO DE CERTIFICACIÓN DE CUMPLIMIENTO CON EL REGLAMENTO CONSTRUCCIÓN DE PUERTO RICO. ESTE FORMULARIO DEBERÁ SER ACOMPAÑADO POR EL FORMULARIO DE CERTIFICACIÓN DE CUMPLIMIENTO DEL PROPIETARIO DE LA OBRA. NO SE PODRÁ UTILIZAR ESTOS PLANOS SIN EL CUMPLIMIENTO DE ESTE REQUISITO. ESTOS PLANOS NO SERÁN UTILIZADOS PARA LA CONSTRUCCIÓN HASTA QUE EL PROPIETARIO DE LA OBRA HAYA SOMETIDO EL FORMULARIO DE CERTIFICACIÓN DE CUMPLIMIENTO CON EL REGLAMENTO CONSTRUCCIÓN DE PUERTO RICO. ESTE FORMULARIO DEBERÁ SER ACOMPAÑADO POR EL FORMULARIO DE CERTIFICACIÓN DE CUMPLIMIENTO DEL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ O PREPARÓ ESTOS PLANOS.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Existing & Demolition Plan

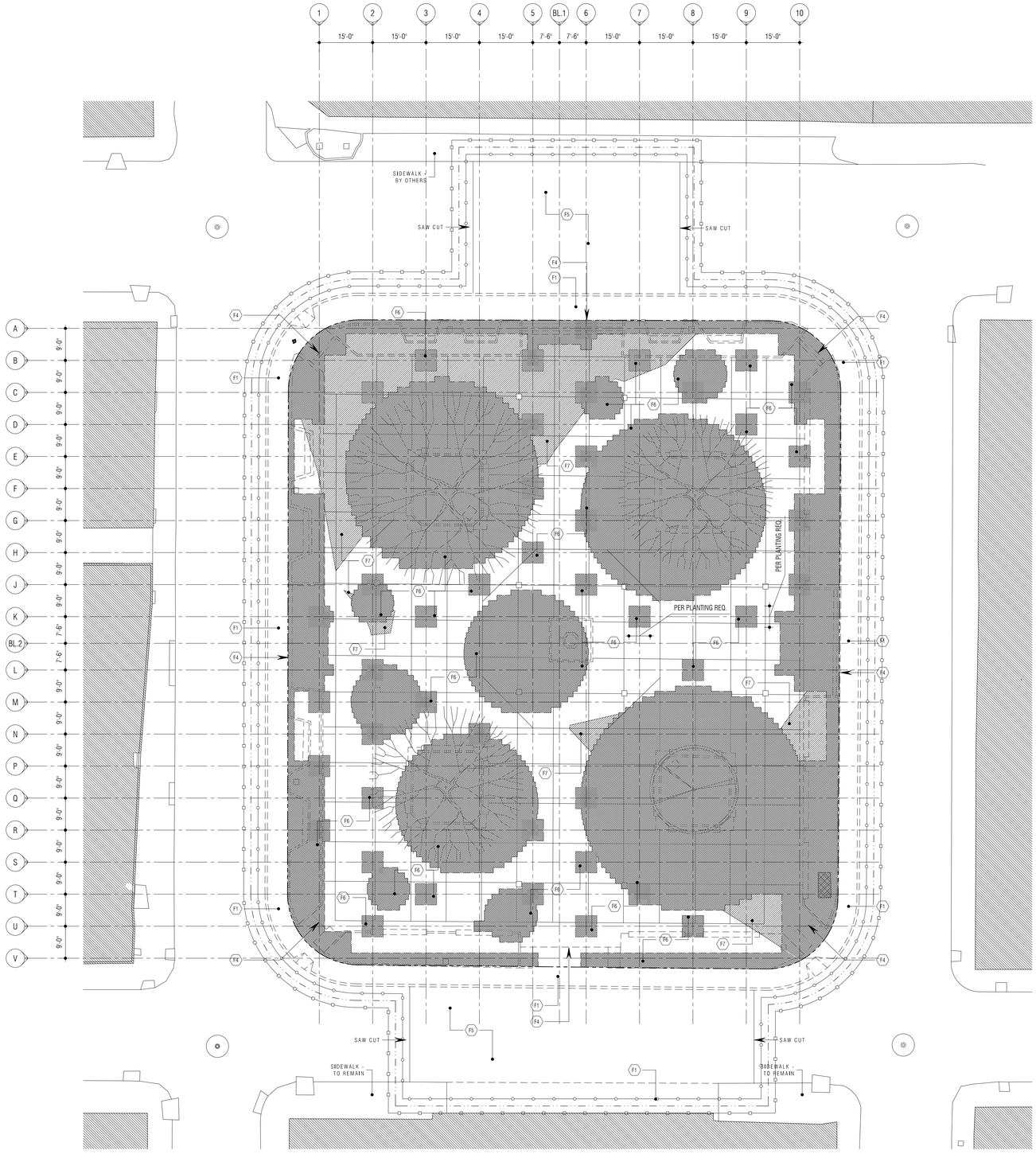
CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET # 20	DRAWN BY krs · DATE 26.vi.2024

SHEET NAME

ED-1.0

BID SET January 10, 2025



Existing & Demolition Plan

SCALE : 1/16" = 1'-0"

Legend

- EXISTING FLOOR TO BE SCARIFIED
- EXISTING FLOOR TO BE DEMOLISHED
- ELEMENTS TO BE REMOVED
- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT

Floor

- F1 REMOVE AND DISPOSE OF EXISTING SIDEWALK SLAB.
- F2 REMOVE AND DISPOSE OF EXISTING CONCRETE PAVEMENT.
- F3 REMOVE AND DISPOSE OF EXISTING BRASS JOINTS.
- F4 REMOVE AND DISPOSE OF EXISTING CONCRETE STAIRS AND RAMPS.
- F5 REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT. PREPARE AREA FOR NEW CONCRETE PAVEMENT.
- F6 REMOVE AND DISPOSE OF ALL EXISTING CONSTRUCTION MATERIAL. REVEAL NATIVE SOIL & PREPARE FOR NEW PLANTING. SEE PLANTING LAYOUT PLAN & DETAILS.
- F7 ESTIMATED AREA TO BE SCARIFIED & LEVELED TO F.F.E. MINUS (3) THREE INCHES. SEE GRADING PLAN FOR F.F.E.

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL



IDENTIFICACIÓN - CERTIFICATE / FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19862, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y QUE LOS MISMOS CUMPLEN CON LA LEY NÚMERO 144 DE 10 DE JULIO DE 1969, CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O COMPAÑÍAS PÚBLICAS CON JURISDICCIÓN SOBRE LA MATERIA QUE AQUÍ SE TRATA. Y, FINALMENTE, CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LA NUEVA LEY DE CONSTRUCCIÓN SISMORRESISTENTE, LEY NÚMERO 313 DE 24 DE DICIEMBRE DE 2020, SEGÚN ENMENDADA. POR LA PRESENTE ACEPTO LA RESPONSABILIDAD QUE CONLLEVA LA LEY NUMERO 96 DEL 5 DE JULIO DE 1994, SEGÚN ENMENDADA, QUE IMPONE LA RESPONSABILIDAD DE RECONOCER SU CUALQUIER ACCIÓN U OMISIÓN EN EL EJERCICIO DE SU PROFESIÓN QUE CONSTITUYA CULPA CRASA O DOLO QUE CAUSE DAÑOS A TERCEROS EN EL DISEÑO Y FISCALIZACIÓN DE OBRAS DE CONSTRUCCIÓN EMPLEADOS, O POR OTRAS PERSONAS CON LAS QUE ME HAYA RELACIONADO PROFESIONALMENTE. DISCIPLINA: ARQUITECTURA

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Existing & Demolition Plan

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

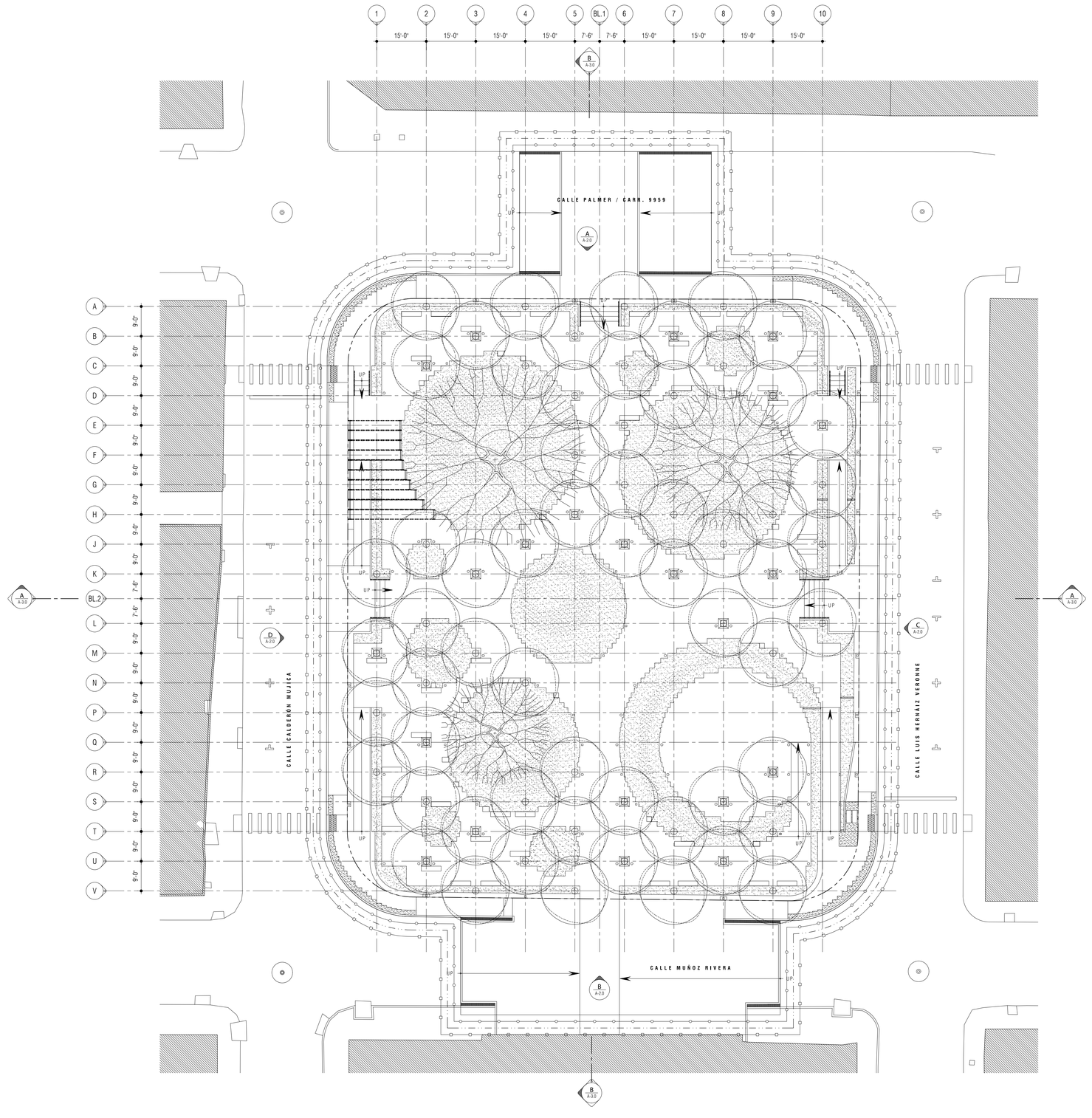
PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET NO.	DRAWN BY	DATE
21	krs	26.vi.2024

DRAWING

ED-1.1

BID SET January 10, 2025



Proposed Site Plan

SCALE : 1/16" = 1'-0"

LEGEND

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- PROPOSED TREE

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REVISIONS

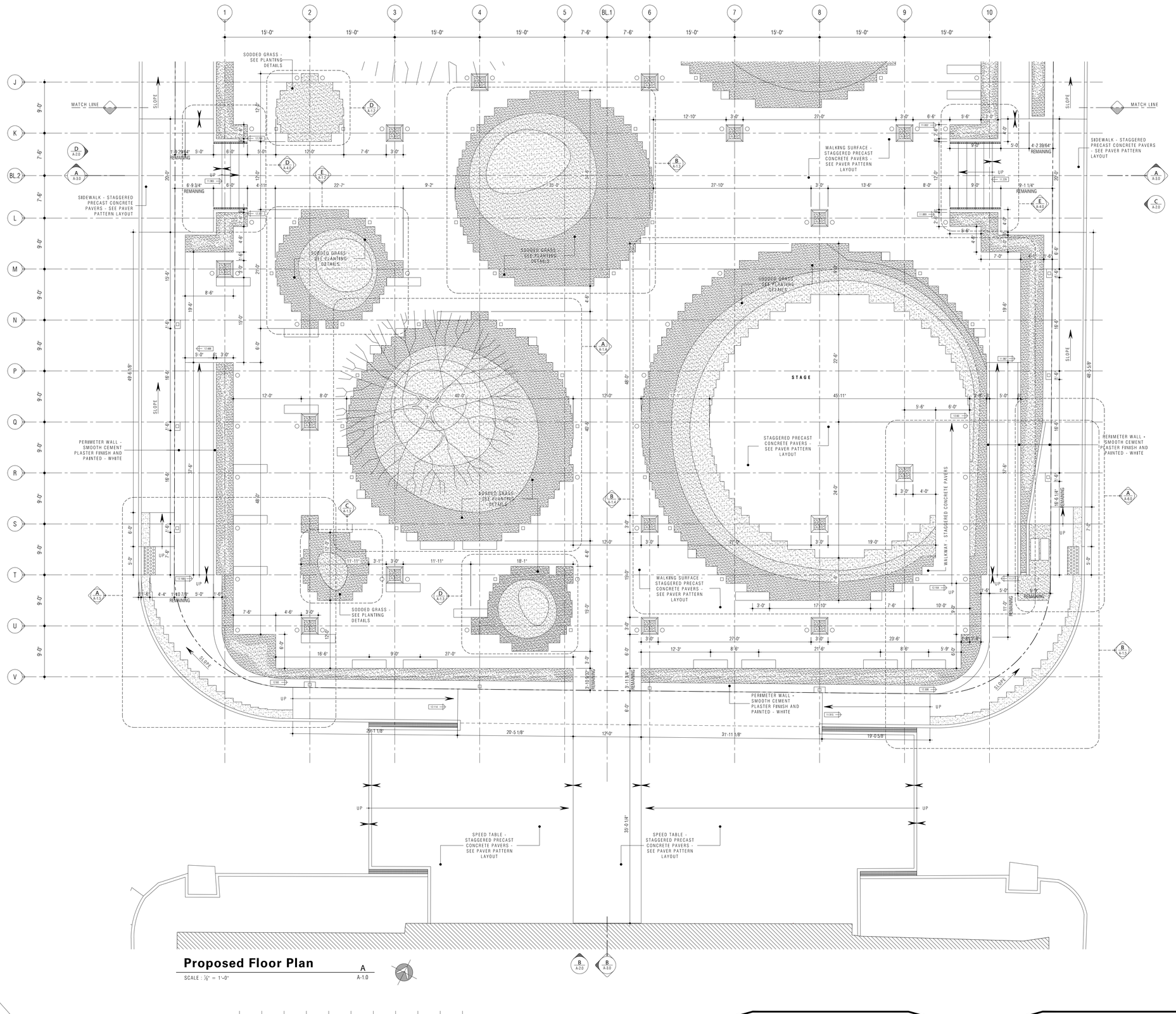
REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez botello PUERTO RICO
LIC: MXX DCCC III
EXP: 18.X.2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19862, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES, QUE CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O CUMPLIDO CA ALMENOS EL 70% DE LOS ESTOS PLANOS Y ESPECIFICACIONES



Proposed Floor Plan

SCALE : ¼" = 1'-0"

A-1.0

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REVISIONS

NO. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

Julián Manríquez Bottello Puerto Rico
LIC. MXX DCCC III
EXP: 10.X.2025

IDENTIFICACION - COPYRIGHTS / FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTTELLO, LICENCIA 19882, CERTIFICO QUE CON EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS DE CONSTRUCCIÓN, HE CUMPLIDO CON TODAS LAS CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPE- CACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O COMPO- NENTES APLICABLES DEL PROYECTO. TOTAL.

RACIÓN DE CUMPLIDO CON LA NORMATIVA VIGENTE. CONSTRUCCIÓN. CONSULTA LA "LEY ORIA PARA PODER OBTENER LA LICENCIA DE CONSTRUCCIÓN. DE HACER PRO- CON LA SOLICITUD DE LICENCIA PARA CONSTRUCCIÓN. PERSONAS QUE DESEEN CONSTRUIR. DE LICENCIADOR DE LICENCIA. DE LICENCIA. TUAL PROP- EDIFICIO. ESTE DOCUMENTO NO PUEDE SER USADO PARA OTRO PROPÓSITO QUE NO SEA EL ESPECIFICADO AQUÍ. ESTE DOCUMENTO NO PUEDE SER USADO PARA OTRO PROYECTO QUE NO SEA EL ESPECIFICADO AQUÍ. ESTE DOCUMENTO NO PUEDE SER USADO PARA OTRO PROYECTO QUE NO SEA EL ESPECIFICADO AQUÍ.

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4777 Av. Isla Verde, Edificio Isla Verde Mall - Suite 321
Carolina, PR. 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Proposed Floor Plan

Key Map

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03
PROJECT PHASE Construction Docs - 100%
SHEET # 23
DRAWN BY krs
DATE 26.vi.2024

DRAWING
A-1.0

BID SET January 10, 2025

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL



IDENTIFICACION - COPYRIGHTS - FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19862, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y QUE LOS MISMOS FUERON CONFECCIONADOS BAJO MI CRITERIO Y QUE CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES EN LAS AGENCIAS, JUNTAS, REGLAMENTACIONES Y CÓDIGOS PÚBLICOS CON JURISDICCIÓN SOBRE LA OBRA. FIRMADO EN SAN JUAN, PUERTO RICO, HOY DÍA [illegible] DE [illegible] DE 2024. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LA NUEVA CONSTRUCCIÓN PROPUESTA PARA LA DIVERSIDAD FUNCIONAL EN EL HOGAR, SEGÚN LA LEY NÚMERO 96 DEL 5 DE JULIO DE 1985, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA PERSONAS CON IMPEDIMENTOS" DE PUERTO RICO Y EL REGLAMENTO PARA FACILITAR EL ACCESO A LAS PERSONAS CON IMPEDIMENTOS DE CUALQUIER TIPO, EDAD O CONDICIÓN FÍSICA. ASIMISMO, RECONOZCO QUE CUALQUIER CAMBIO QUE SE HAGA A ESTOS PLANOS SIN MI CONSENTIMIENTO O POR ESCRITO PUEDE CAUSAR QUE LOS MISMOS NO CUMPLAN CON LA LEY 168 DE 30 DE AGOSTO DE 2000, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA EL CUIDADO DEL ANCIANO EN PUERTO RICO" Y LA LEY NÚMERO 238 DEL 31 DE AGOSTO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "CARTA DE DERECHOS DEL PACIENTE". ADEMÁS, RECONOZCO QUE CUALQUIER CAMBIO QUE SE HAGA A ESTOS PLANOS SIN MI CONSENTIMIENTO O POR ESCRITO PUEDE CAUSAR QUE LOS MISMOS NO CUMPLAN CON LA LEY NÚMERO 119 DEL 29 DE JUNIO DE 1961, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA EL CUIDADO DEL NIÑO EN PUERTO RICO" Y LA LEY NÚMERO 427 DEL 21 DE SEPTIEMBRE DE 2000, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA EL CUIDADO DEL NIÑO EN PUERTO RICO". ASIMISMO, RECONOZCO QUE CUALQUIER CAMBIO QUE SE HAGA A ESTOS PLANOS SIN MI CONSENTIMIENTO O POR ESCRITO PUEDE CAUSAR QUE LOS MISMOS NO CUMPLAN CON LA LEY NÚMERO 51 DEL 7 DE JUNIO DE 1996, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA EL CUIDADO DEL NIÑO EN PUERTO RICO". ASIMISMO, RECONOZCO QUE CUALQUIER CAMBIO QUE SE HAGA A ESTOS PLANOS SIN MI CONSENTIMIENTO O POR ESCRITO PUEDE CAUSAR QUE LOS MISMOS NO CUMPLAN CON LA LEY NÚMERO 51 DEL 7 DE JUNIO DE 1996, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA EL CUIDADO DEL NIÑO EN PUERTO RICO".

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

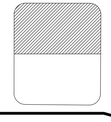
Proposed Floor Plan

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #: 22-03
PROJECT PHASE: Construction Docs - 100%
SHEET #: 24
DRAWN BY: krs
DATE: 26.vi.2024
DISCIPLINE

A-1.1

Key Map

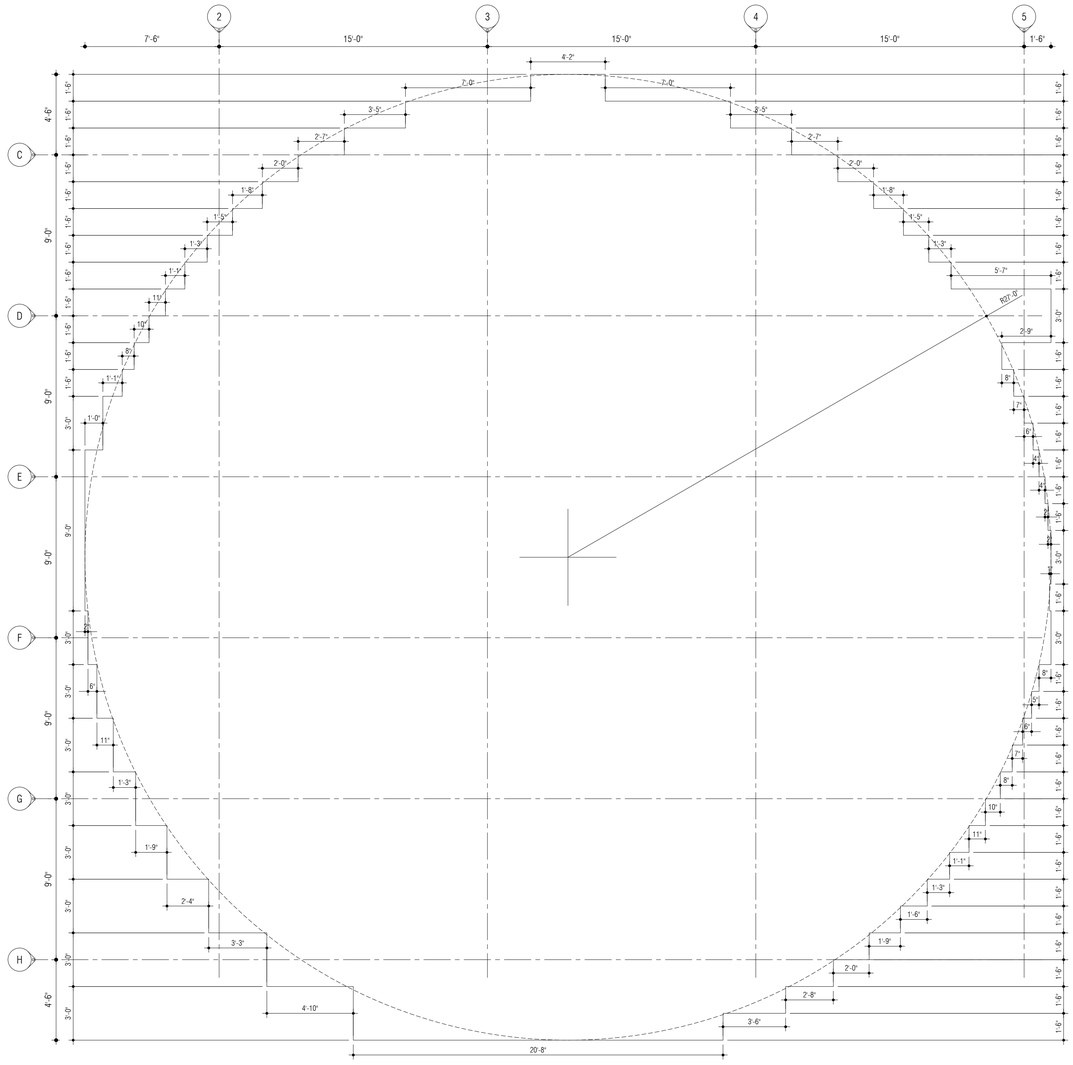


BID SET January 10, 2025

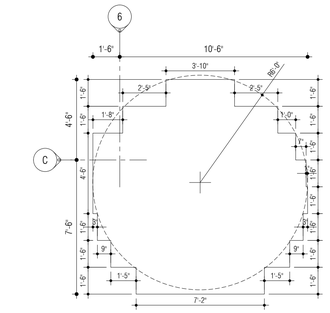
Proposed Floor Plan

SCALE : 1/8" = 1'-0"

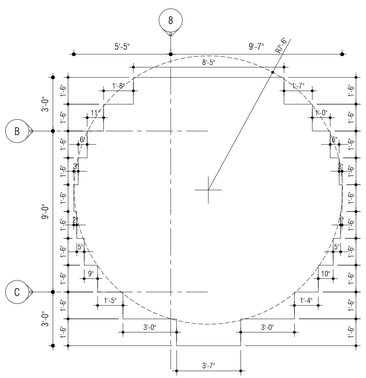
A-1.1



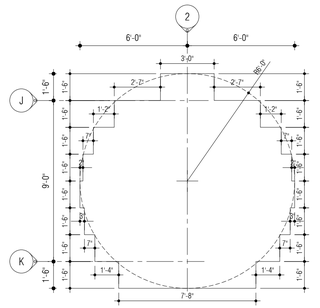
Descriptive Geometry A
SCALE : ¼" = 1'-0" A-1.2



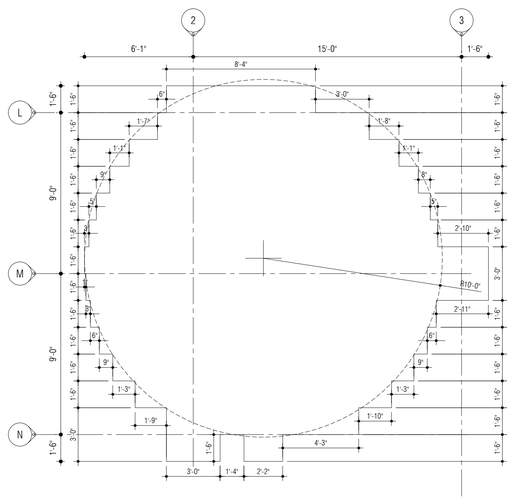
Descriptive Geometry B
SCALE : ¼" = 1'-0" A-1.2



Descriptive Geometry C
SCALE : ¼" = 1'-0" A-1.2



Descriptive Geometry D
SCALE : ¼" = 1'-0" A-1.2



Descriptive Geometry E
SCALE : ¼" = 1'-0" A-1.2

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez botello PUERTO RICO
LIC: MXX DCCC III
EXP: 10.X.2025

IDENTIFICATION - SIGNATURES - FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19802, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y QUE LA INFORMACIÓN CONTENIDA EN ESTOS PLANOS Y PARA LA CUAL FUERON HECHOS, CERTIFICO QUE EXISTEN QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O CUMPLIMIENTO APLICABLES. RACIONES PÚBLICAS CON JURISDICCIÓN SOBRE DICHOS PLANOS Y ESPECIFICACIONES. CUMPLIDO CON ALMENOS LOS REQUISITOS MÍNIMOS ESTABLECIDOS. CERTIFICO QUE LA INFORMACIÓN POR LA INCLUIDA EN ESTOS PLANOS Y ESPECIFICACIONES HA SIDO RECONOCIDO DU CUALQUIER MANERA, EXCEPTO CUANDO EXPRESAMENTE SE INDIQUE LO CONTRARIO O POR RESULTADO DE MI, MIS AGENTES O EMPLEADOS, O POR OTRAS CONSIDERACIONES CON MI CONOCIMIENTO. ME HACEN RESPONSABLE POR LA INFORMACIÓN INCLUIDA EN ESTOS PLANOS Y ESPECIFICACIONES. ACEPTO NO SER RESPONSABLE POR LA DISCIPLINA NI POR LA INFORMACIÓN QUE NO SEA DE MI RESPONSABILIDAD DIRECTA. ESTUDIO LLC. NO SHALL BE HELD RESPONSIBLE FOR ANY DEFF. R ACT INSACION, OMISSION, OR OTHER MISTAKES CONTAINED IN THESE PLANS AS REFERENCE DOCUMENTS. ANY CHANGE BY ANY OTHER PARTY WITHOUT WRITTEN PERMISSION FROM THIS OFFICE WILL VOID THIS CERTIFICATION. NORMAL INSTRUMENT OF SERVICE. THIS PROJECT HEREIN IS THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. © 2022 DOCUMENT CONTENT, TOTAL OR PARTIAL REPRODUCTION OF SAID DOCUMENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT WRITTEN PERMISSION. DERECHOS RESERVADOS. TODOS LOS DERECHOS RESERVADOS.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Descriptive Geometry

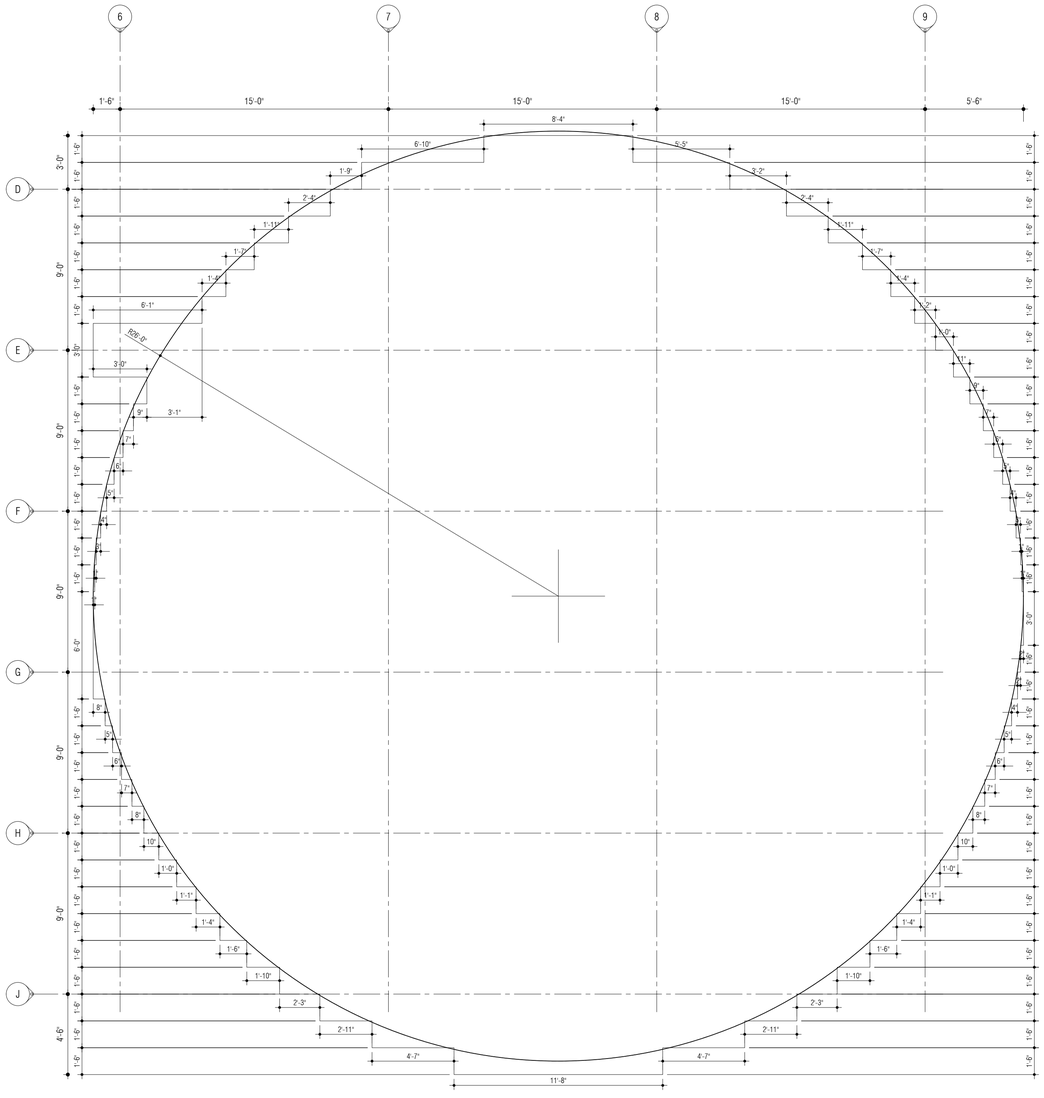
CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
25	krs / 26.vi.2024

DESCRIPTIVE

A-1.2

BID SET January 10, 2025

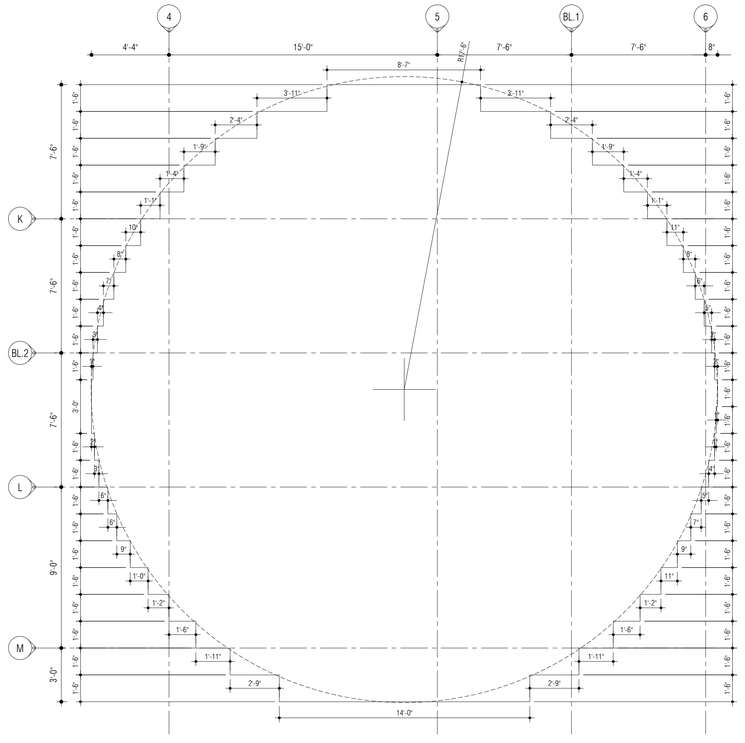


Descriptive Geometry

SCALE : 1/4" = 1'-0"

A

A-1.3

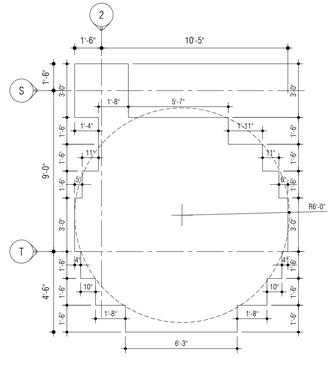


Descriptive Geometry

SCALE : 1/4" = 1'-0"

B

A-1.3

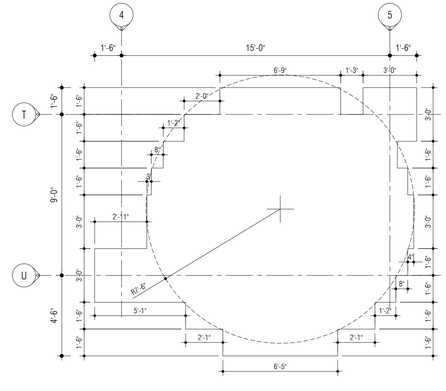


Descriptive Geometry

SCALE : 1/4" = 1'-0"

C

A-1.3



Descriptive Geometry

SCALE : 1/4" = 1'-0"

D

A-1.3

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez bottello
LIC: MXX DCCC III
EXP: 10.X.2025

IDENTIFICATION - COPYRIGHTS + FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTTELLO, LICENCIA 19862, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. POR LO TANTO, CERTIFICO QUE ESTOS PLANOS SOMETIDOS, CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPE- CACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O CUMPLI- RACIONES PÚBLICAS CON JURISDIC- CIÓN SOBRE ESTOS PLANOS Y ESPECIFICA- CIONES SE HA CUMPLIDO CA ALMENTE CON LA "LEY DE DERECHOS DE AUTOR Y DERECHOS CONEXOS DE 1988", SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE DERECHOS DE AUTOR DE 1976", SEGÚN ENMENDADA, QUE ENTRÓ EN VIGOR EL 1 DE ENERO DE 1978. NINGUNA PERSONA PUEDE COPIAR, REPRODUCIR O UTILIZAR EN FORMA ALGUNA NINGUNA PARTE DE ESTOS PLANOS SIN EL CONSENTIMIENTO POR ESCRITO DE in.formation studio. CUALQUIER USO NO AUTORIZADO DE ESTOS PLANOS SERÁ PERSEGUIDO POR LA LEY. EL USO NO AUTORIZADO INCLUYE, PERO NO SE LIMITA A, LA REPRODUCCIÓN, MODIFICACIÓN, DISTRIBUCIÓN O USO COMERCIAL DE ESTOS PLANOS SIN EL CONSENTIMIENTO EXPRESO Y POR ESCRITO DE in.formation studio. EL INCUMPLIMIENTO DE ESTE AVISO DE DERECHOS DE AUTOR PUEDE RESULTAR EN ACCIONES LEGALES, INCLUIDAS, PERO NO LIMITADAS A, MEDIDAS CAUTELARES, DAÑOS Y PERJUICIOS Y HONORARIOS DE ABOGADOS. AL UTILIZAR ESTOS PLANOS, USTED ACEPTA CUMPLIR CON TODAS LAS LEYES DE DERECHOS DE AUTOR APLICABLES Y RECONOCE QUE CUALQUIER INFRACCIÓN PUEDE CAUSAR DAÑOS IRREPARABLES A in.formation studio. GRACIAS POR RESPETAR LOS DERECHOS DE PROPIEDAD INTELECTUAL DE in.formation studio. © 2024 in.formation studio. TODOS LOS DERECHOS RESERVADOS. ESTE DOCUMENTO Y SU CONTENIDO SON PROPIEDAD EXCLUSIVA DE in.formation studio. ESTÁ PROHIBIDA LA REPRODUCCIÓN, DISTRIBUCIÓN O USO NO AUTORIZADO DE ESTE DOCUMENTO SIN EL CONSENTIMIENTO POR ESCRITO DE in.formation studio. EL INCUMPLIMIENTO DE ESTA PROHIBICIÓN PUEDE RESULTAR EN ACCIONES LEGALES, INCLUIDAS, PERO NO LIMITADAS A, MEDIDAS CAUTELARES, DAÑOS Y PERJUICIOS Y HONORARIOS DE ABOGADOS. AL UTILIZAR ESTE DOCUMENTO, USTED ACEPTA CUMPLIR CON TODAS LAS LEYES DE DERECHOS DE AUTOR APLICABLES Y RECONOCE QUE CUALQUIER INFRACCIÓN PUEDE CAUSAR DAÑOS IRREPARABLES A in.formation studio. GRACIAS POR RESPETAR LOS DERECHOS DE PROPIEDAD INTELECTUAL DE in.formation studio.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

SHEET TITLE

Descriptive Geometry Cont.

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03

PROJECT PHASE Construction Docs - 100%

SHEET # 26

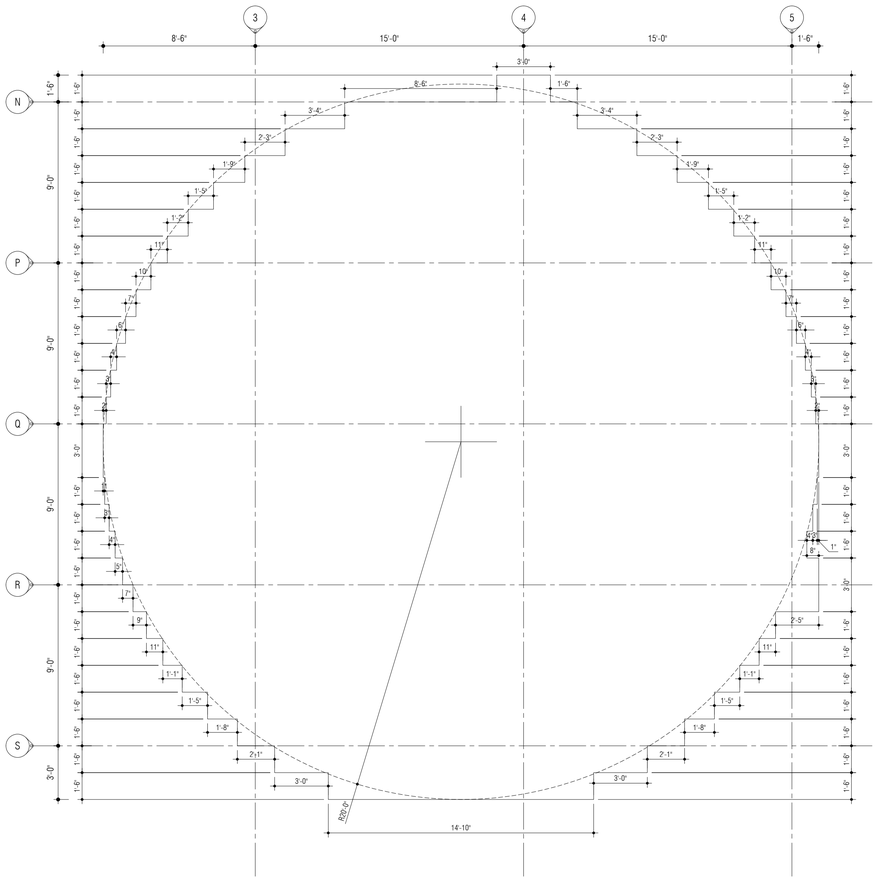
DRAWN BY krs

DATE 26.vi.2024

DISCIPLINE

A-1.3

BID SET January 10, 2025

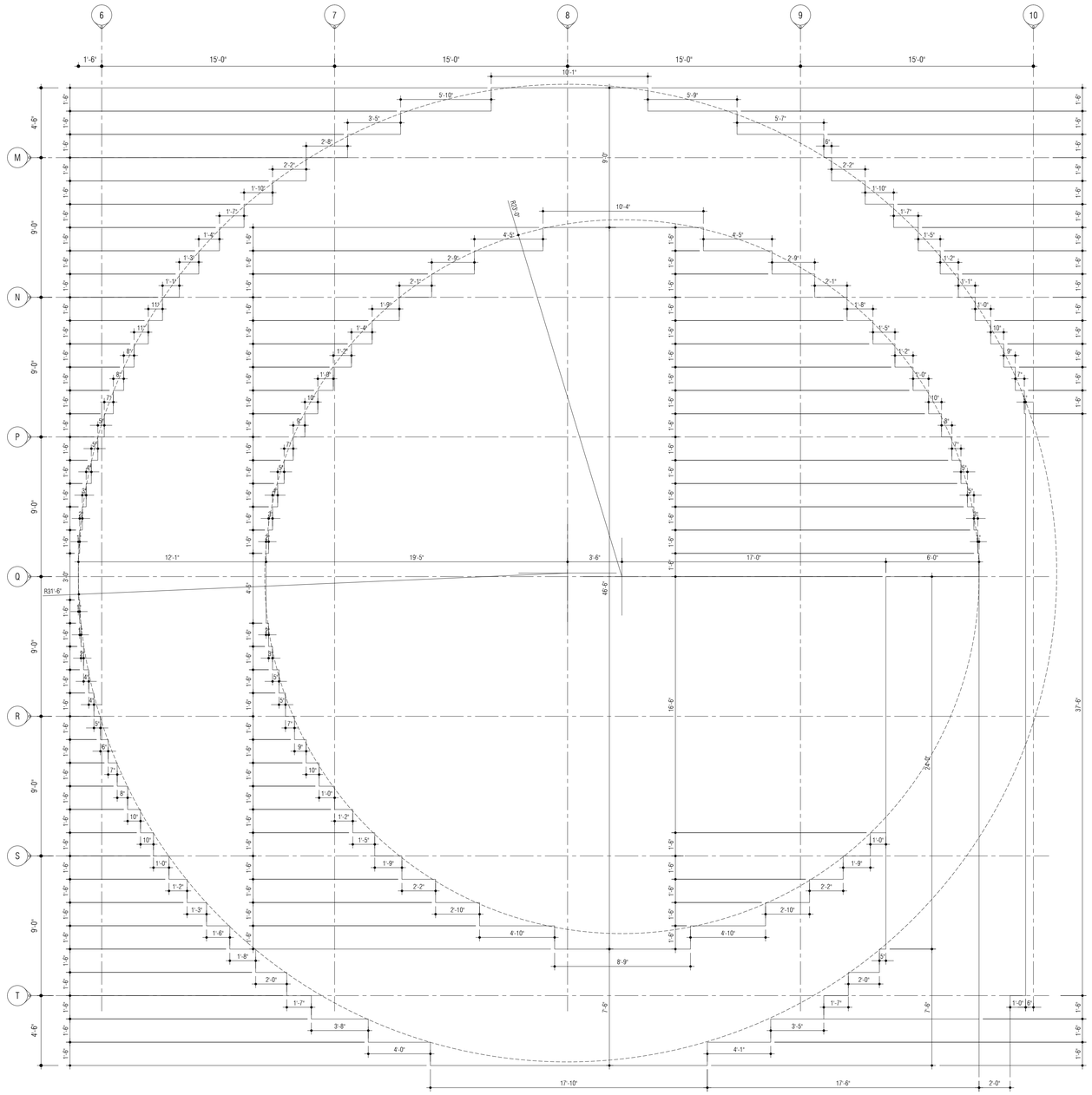


Descriptive Geometry

SCALE : ¼" = 1'-0"

A

A-1.4



Descriptive Geometry

SCALE : ¼" = 1'-0"

B

A-1.4

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez botello PUERTO RICO

LIC: MXX DCCC III
EXP: 10.X.2025

IDENTIFICACION - COPYRIGHTS + FIRM NAME

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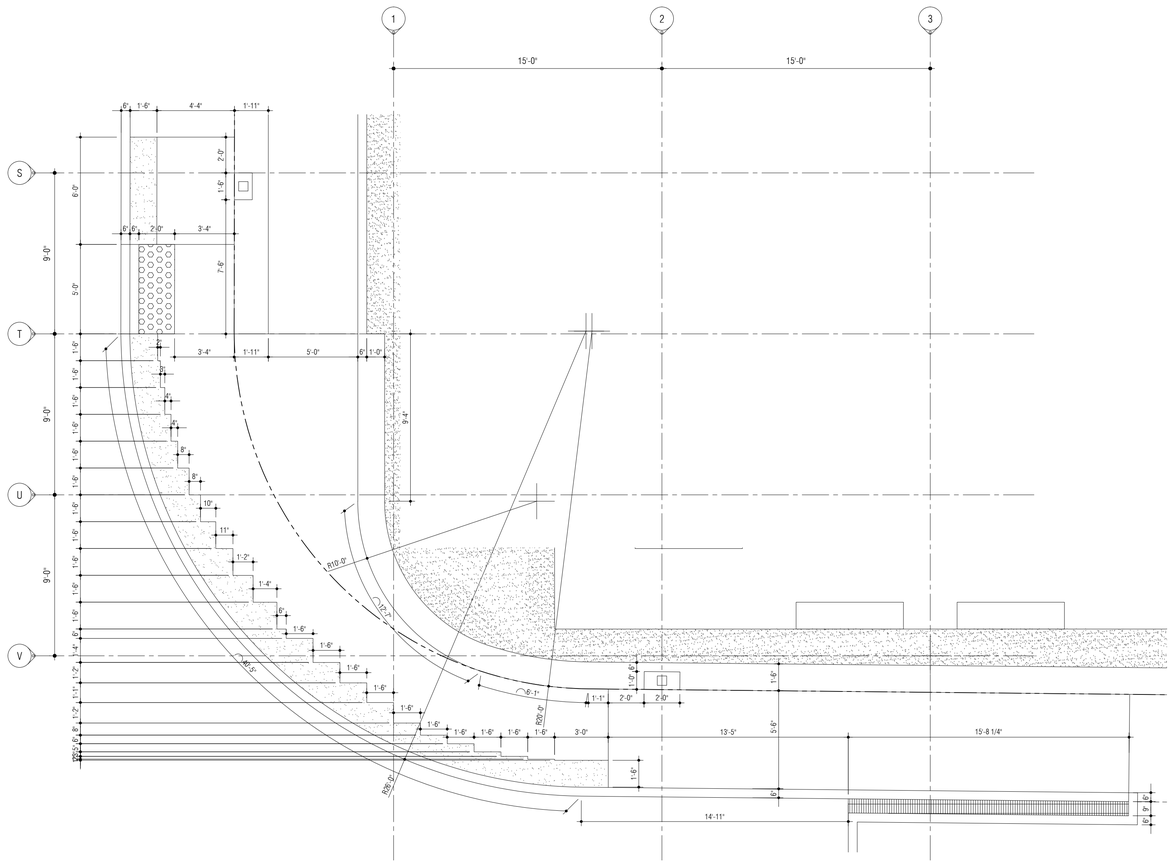
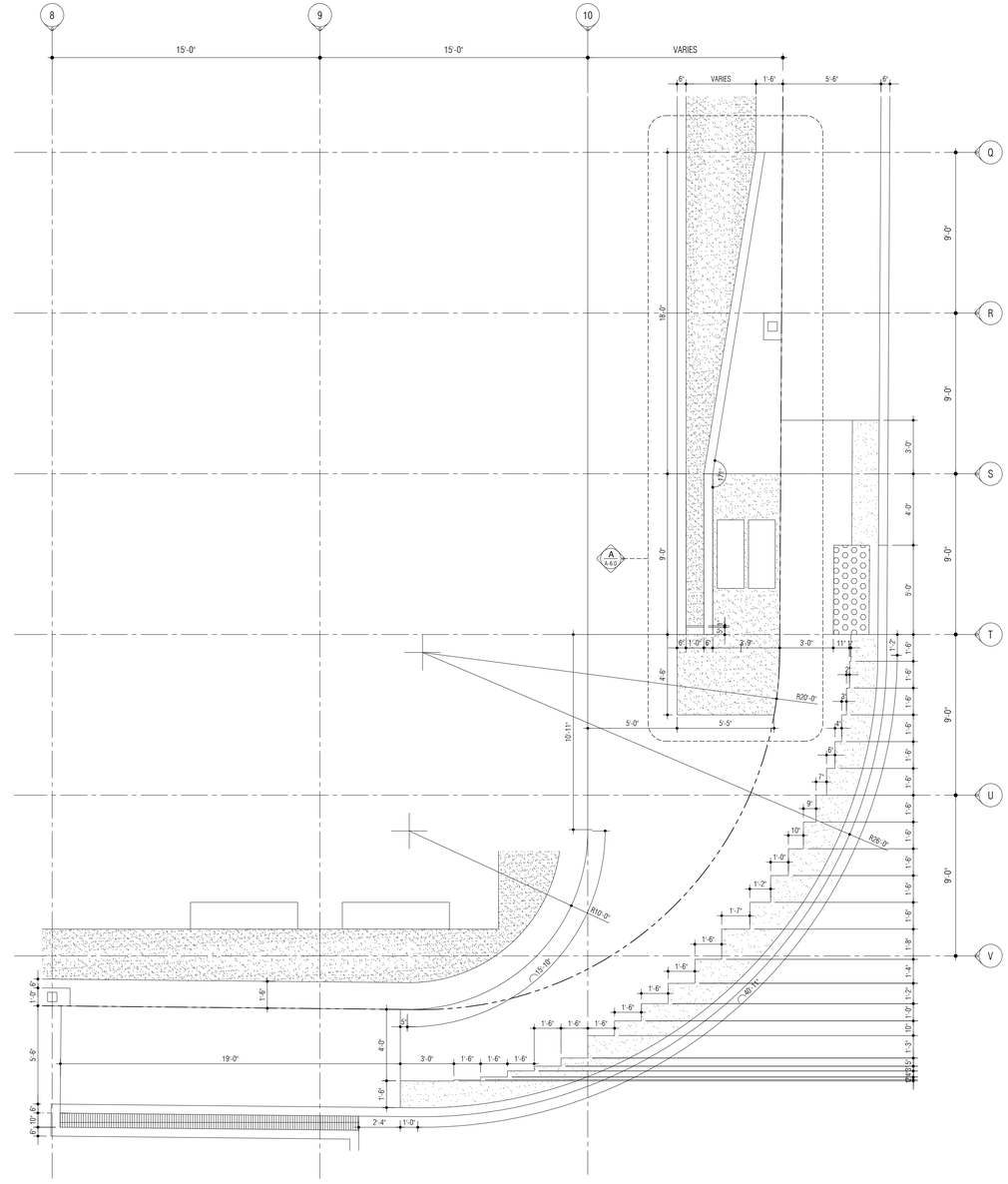


Blow-Up Plan

SCALE : ¼" = 1'-0"

A
A-1.5



Blow-Up Plan

SCALE : ¼" = 1'-0"

B
A-1.5

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez botello Puerto Rico
LIC: MXX DCCC III
EXP: 10.X.2025

IDENTIFICACION - CERTIFICATE / FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19802, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CERTIFICANDO Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES, Y QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O COMPAÑÍAS PÚBLICAS CON JURISDICCIÓN SOBRE LA OBRA. POR TAL MOTIVO, ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LA NORMATIVA VIGENTE APLICABLE.

EN SU CONSECUENCIA, CERTIFICO QUE LA INVERSIÓN POR LA INDUSTRIA EN LA OBRA Y CON LA LEY NUMERO 96 DEL 5 DE JULIO DE 1975, SEGÚN ENMENDADA, RECONOCIDO DU CUALQUIER DERECHO DE AUTOR QUE PUEDA EXISTIR SOBRE LOS PLANOS Y ESPECIFICACIONES, EL MISMO QUEDA POR LA PRESENTE CEDIDO A FAVOR DEL DUEÑO DE LA OBRA, SUS SUCESORES Y CESIONARIOS, SIN LIMITACIÓN ALGUNA. EL DISEÑADOR RECONOCE QUE LOS PLANOS Y ESPECIFICACIONES NO SERÁN UTILIZADOS POR EL DUEÑO DE LA OBRA O POR CUALQUIER OTRA PERSONA EN EXTENSIONES DE LA OBRA O EN OTRAS OBRAS, EXCEPTO POR ACUERDO ESCRITO CON EL DISEÑADOR, SIN LA DEBIDA ADAPTACIÓN POR PARTE DEL DISEÑADOR, SIN LA CORRESPONDIENTE RETRIBUCIÓN Y SIN LA DEBIDA AUTORIZACIÓN POR ESCRITO DEL DISEÑADOR.

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Carolina, PR. 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

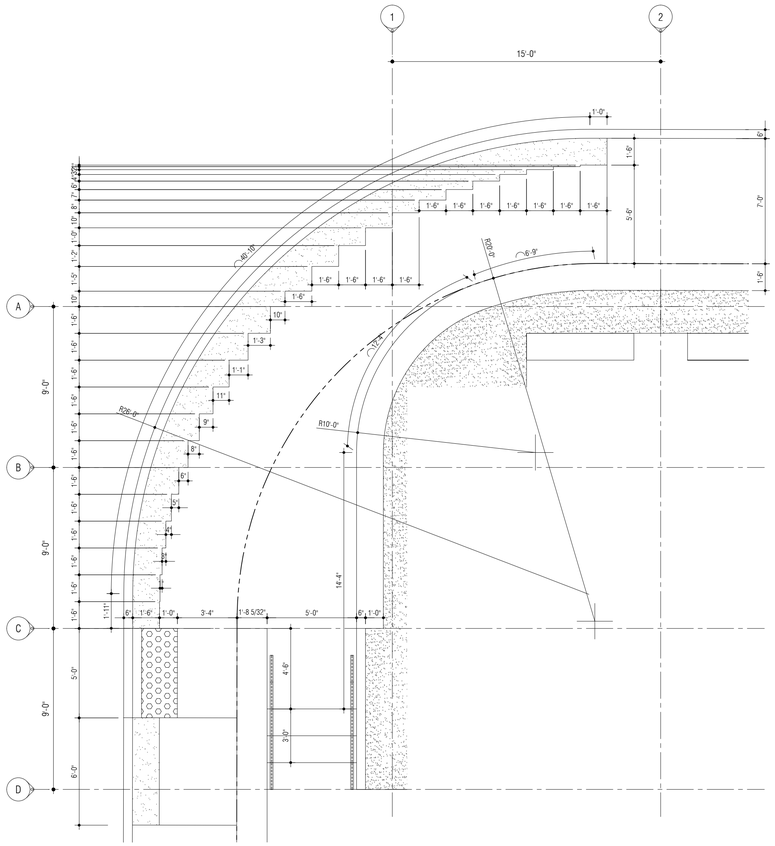
Sidewalk Corner - Blow-Up Plan

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #: 22-03
PROJECT PHASE: Construction Docs - 100%
SHEET #: 28
DRAWN BY: krs
DATE: 26.vi.2024
DISCIPLINE

A-1.5

BID SET January 10, 2025

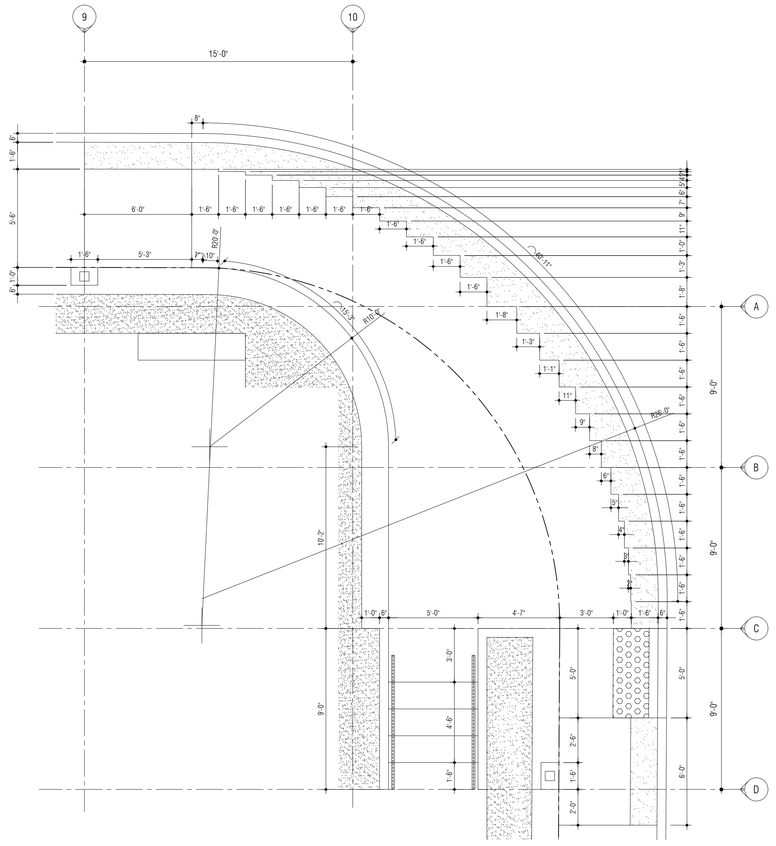


Blow-Up Plan

SCALE : ¼" = 1'-0"

A

A-1.6



Blow-Up Plan

SCALE : ¼" = 1'-0"

B

A-1.6

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez botello Puerto Rico

LIC: MXX DCCC III
EXP: 10.X.2025

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñoz, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Sidewalk Corner - Blow-Up Plan Cont.

CLIENT

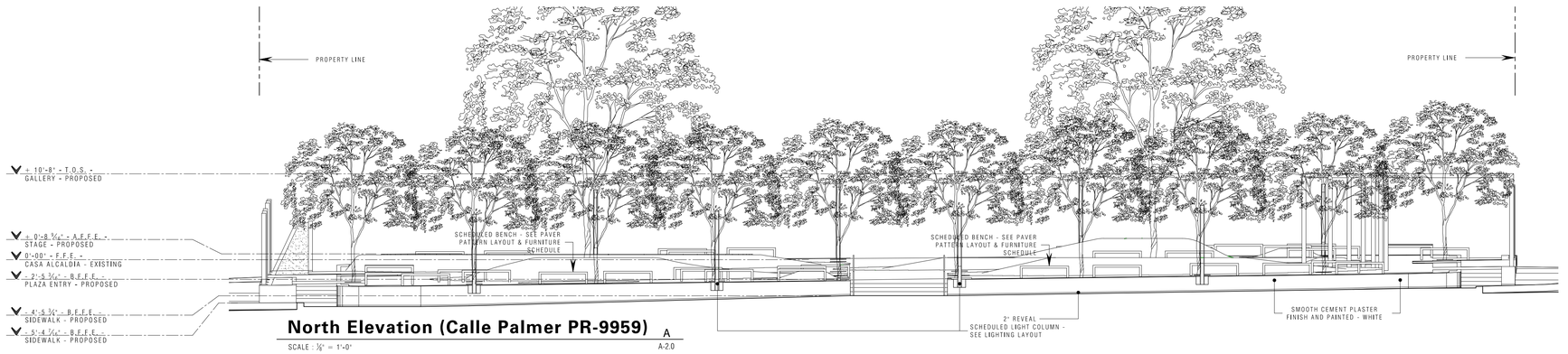
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
29	krs / 26.vi.2024

DISCIPLINE

A-1.6

BID SET January 10, 2025

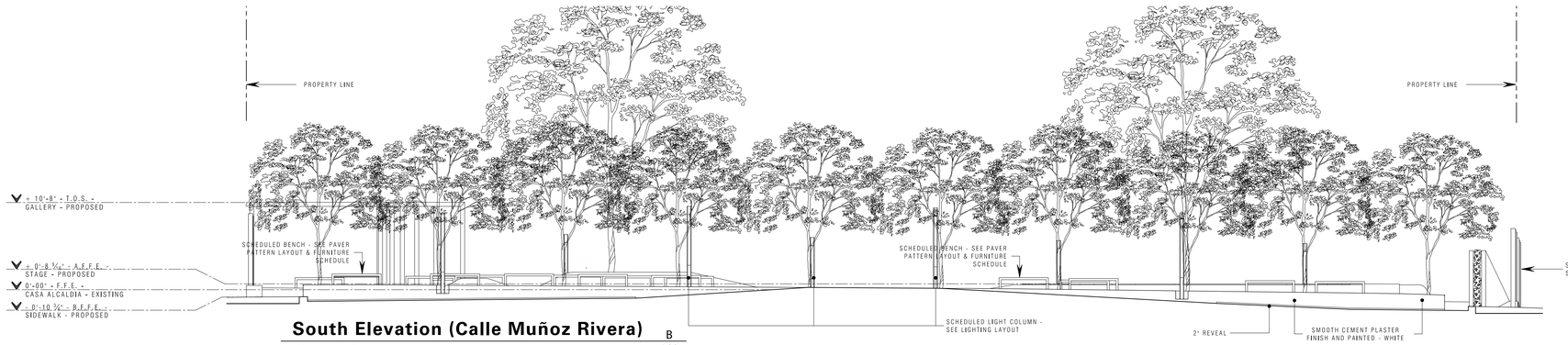


North Elevation (Calle Palmer PR-9959)

A

SCALE : 1/8" = 1'-0"

A-2.0



South Elevation (Calle Muñoz Rivera)

B

SCALE : 1/8" = 1'-0"

A-2.0



East Elevation (Calle Luis Hernaiz)

C

SCALE : 1/8" = 1'-0"

A-2.0



West Elevation (Calle Calderon Mujica)

D

SCALE : 1/8" = 1'-0"

A-2.0

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

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EXP: 18.X.2025

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Elevations

CLIENT

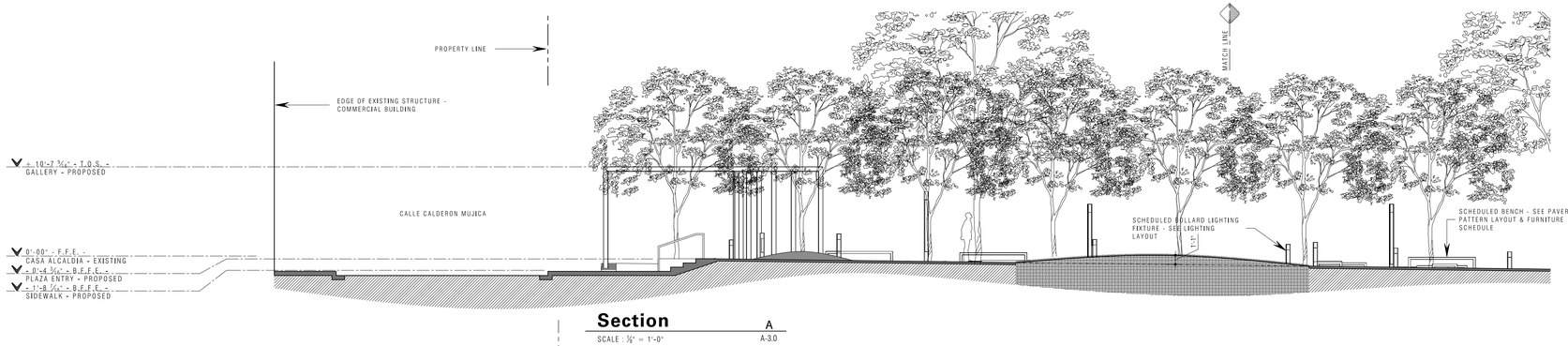
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
30	krs / 26.vi.2024

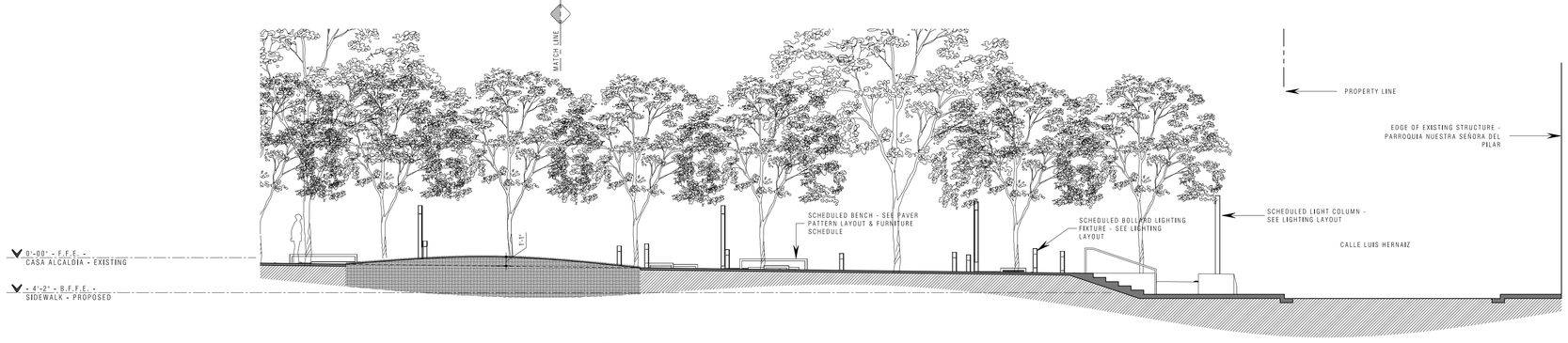
DISCIPLINE

A-2.0

BID SET January 10, 2025



Section A
SCALE : ⅛" = 1'-0" A-3.0



Section A
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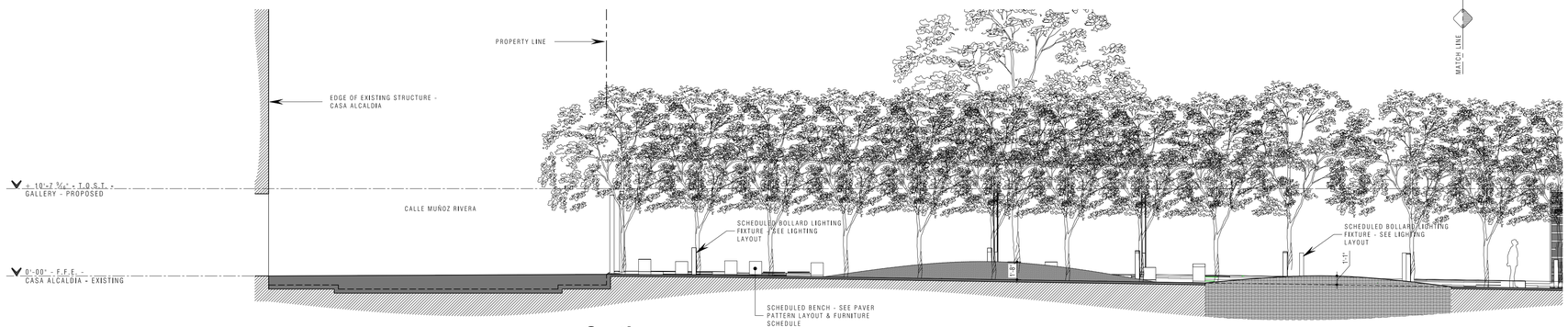
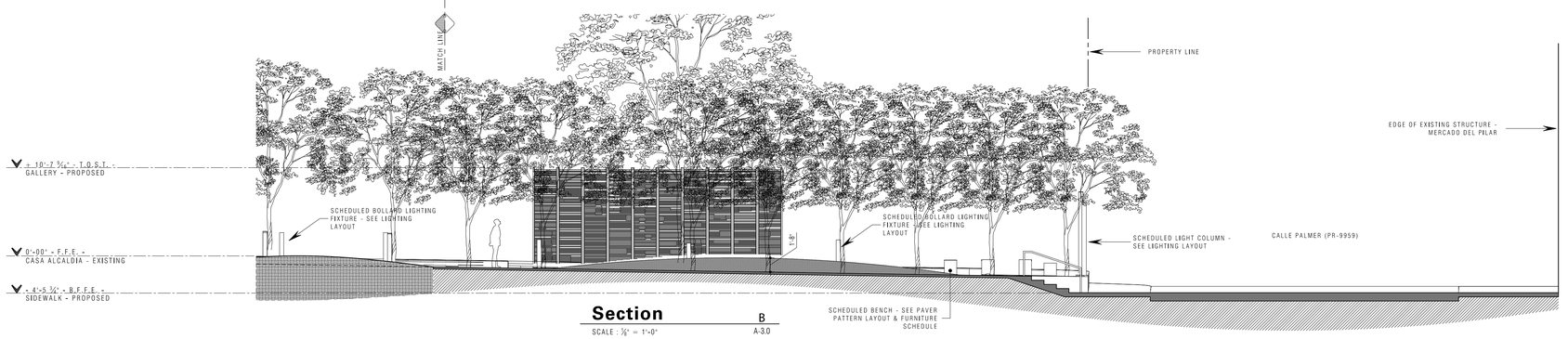


Section B
SCALE : ⅛" = 1'-0" A-3.0



Section B
SCALE : ⅛" = 1'-0" A-3.0

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REVISIONS

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PROFESSIONAL SEAL

julián manríquez botello Puerto Rico
LIC: MXX DCCC III
EXP: 10.X.2025

IDENTIFICACION - CERTIFICATE - FIRM NAME

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Sections

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

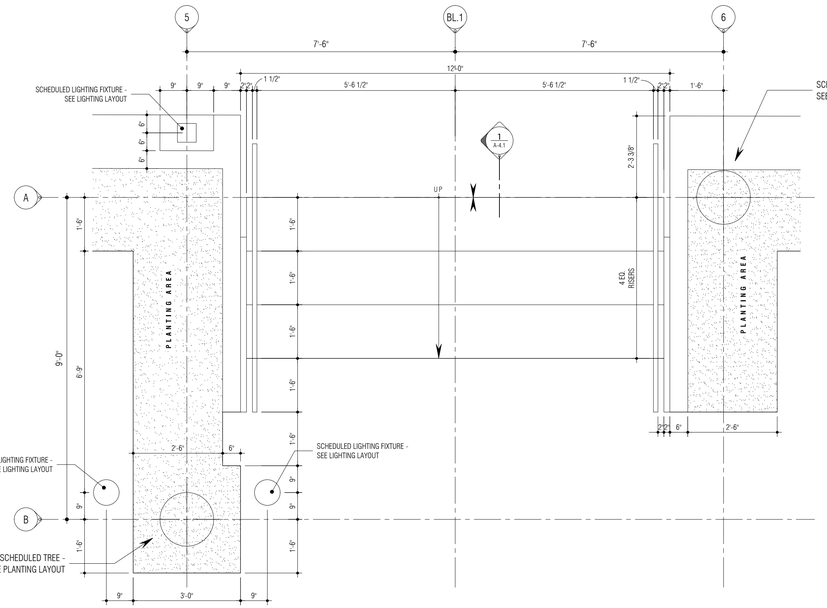
PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
31	krs	26.vi.2024

DISCIPLINE

A-3.0

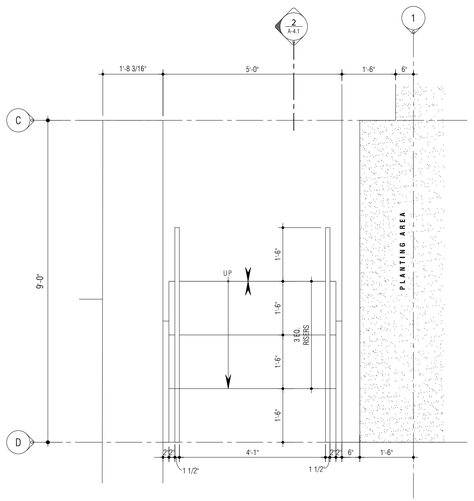
BID SET January 10, 2025



Stair - Plan

SCALE : ½" = 1'-0"

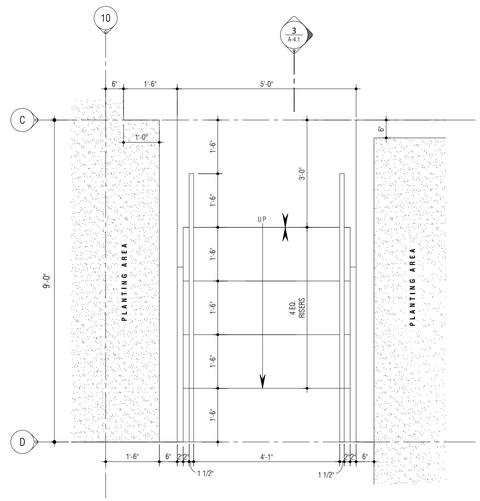
A
A-4.0



Stair - Plan

SCALE : ½" = 1'-0"

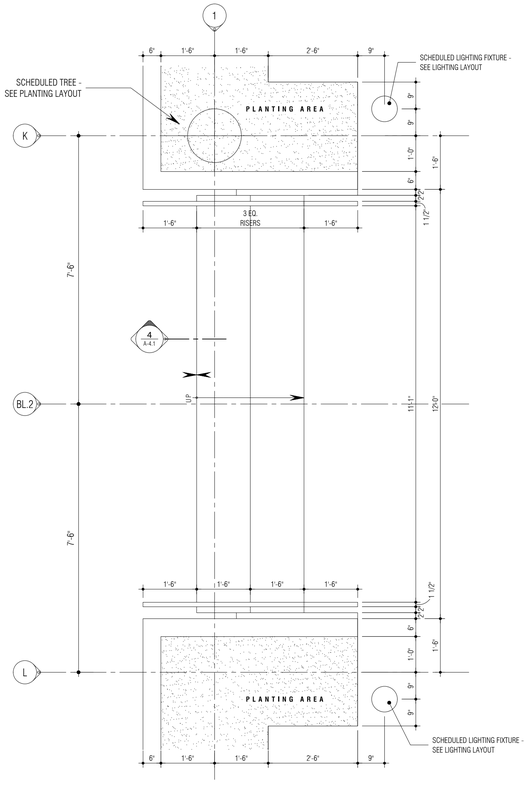
B
A-4.0



Stair - Plan

SCALE : ½" = 1'-0"

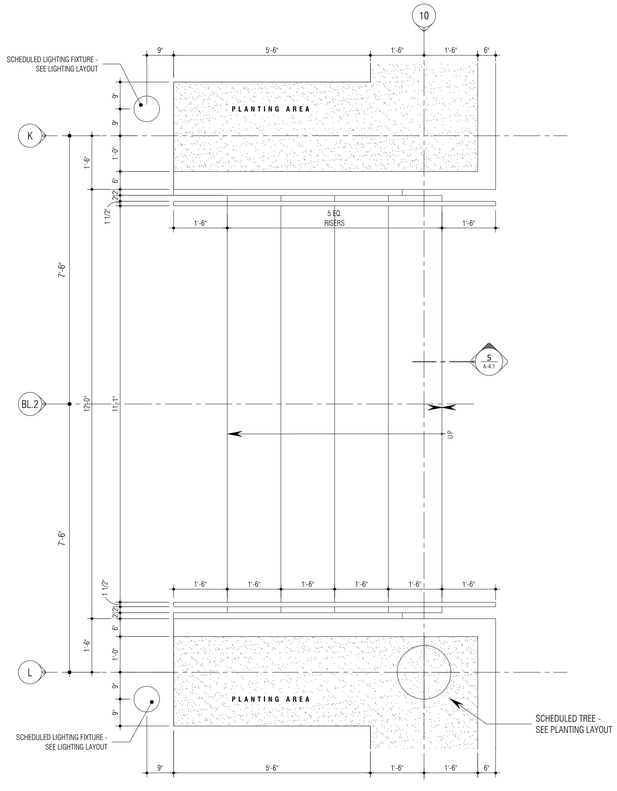
C
A-4.0



Stair - Plan

SCALE : ½" = 1'-0"

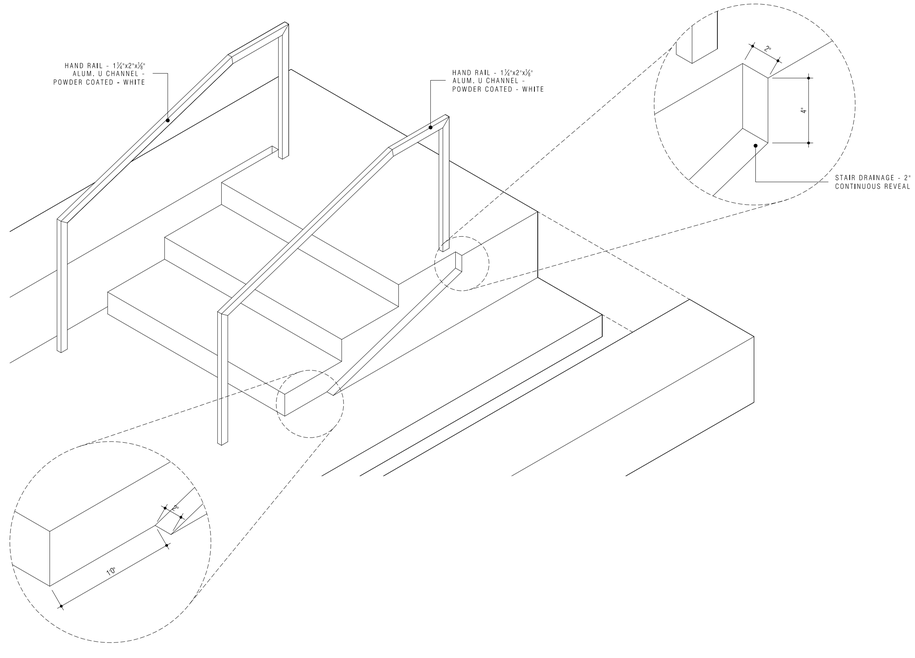
D
A-4.0



Stair - Plan

SCALE : ½" = 1'-0"

E
A-4.0



Stair Drainage - Axo

NOT TO SCALE

6
A-4.0

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REVISIONS

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PROFESSIONAL SEAL

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julián manriquez botello puerto rico
LIC: MXX DCCC III
EXP: 10.X.2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Stairs Plans & Details

CLIENT

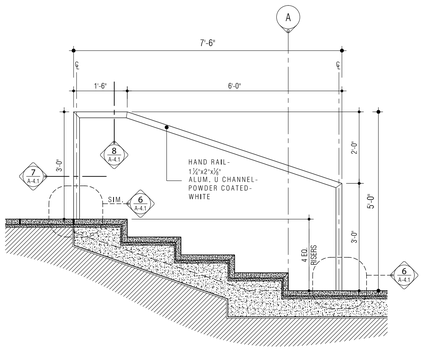
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
32	krs/rdc 26.vi.2024

DISCIPLINE

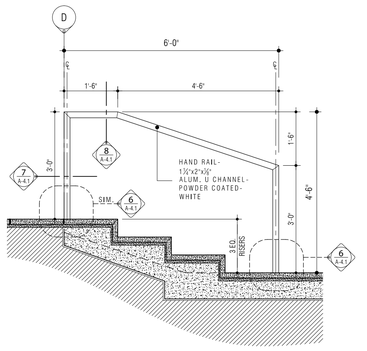
A-4.0

BID SET January 10, 2025



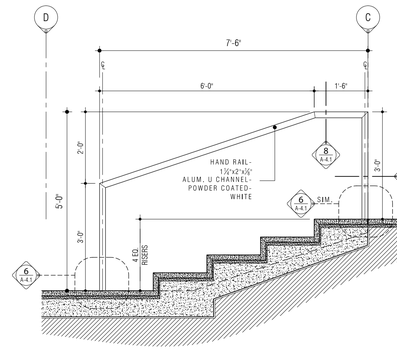
Stair - Section 1

SCALE : ½" = 1'-0" A-4.1



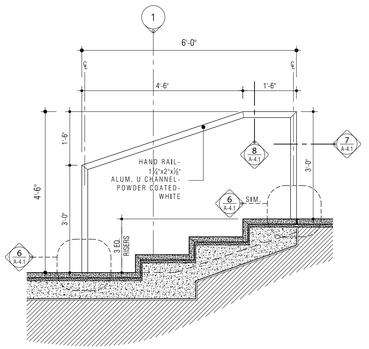
Stair - Section 2

SCALE : ½" = 1'-0" A-4.1



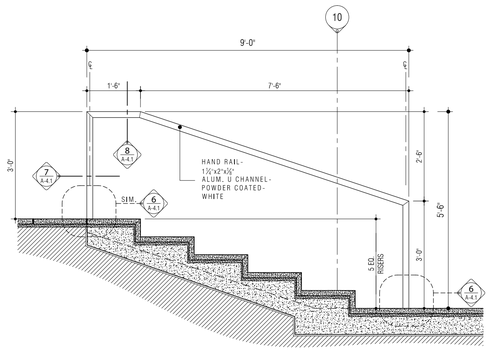
Stair - Section 3

SCALE : ½" = 1'-0" A-4.1



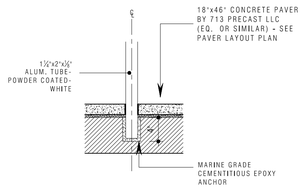
Stair - Section 4

SCALE : ½" = 1'-0" A-4.1



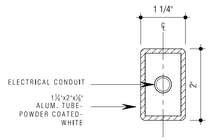
Stair - Section 5

SCALE : ½" = 1'-0" A-4.1



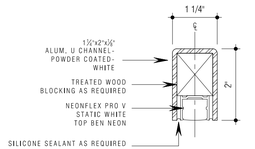
Detail 6

SCALE : 1" = 1'-0" A-4.1



Detail 7

SCALE : 6" = 1'-0" A-4.1



Detail 8

SCALE : 6" = 1'-0" A-4.1

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REVISIONS

REV. #	DATE	ISSUING REASON
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PROFESSIONAL SEAL

julián manríquez bottello Puerto Rico
LIC: MXX DCCC III
EXP: 10.X.2025

IDENTIFICACION - COPYRIGHTS / FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19892, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. CERTIFICO QUE ESTOS PLANOS CUMPLEN CON LAS ORDENANZAS. CERTIFICO QUE ESTOS PLANOS SON EXACTOS. PLANOS Y COPIAS. CADENAS CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE. DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O COMPAÑÍAS. RACIONES, PÚBLICOS, CON JURISDICCIÓN. TIPO. DE CONSTRUCCIÓN. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LA NORMAS DE DISEÑO SÍSMICO. CUALQUIER MODIFICACIÓN A LA LEY NUMERO 96 DEL 5 DE JULIO DE 1975, RECONOCIDO DU CUALQUIER OTRO DERECHO DE AUTOR. A. C. CAMBIO(S) O FIN NEGLIGENCIA. D. EMPLEADOS, O POR OTRAS ME HACEN, RE PONSA LE M. DISCIPLINA INA PARA LA. OTORGADO, O PARA OTORGAR LLE. NO SPHILL. MINTS. ONAL BY. ONAL BY. DA TE. DE LOS DOCU-MENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT WRITTEN CONSENT AND S ALL BE RETURNED TO H.FORMATION STUDIO

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e-mail: info@formationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

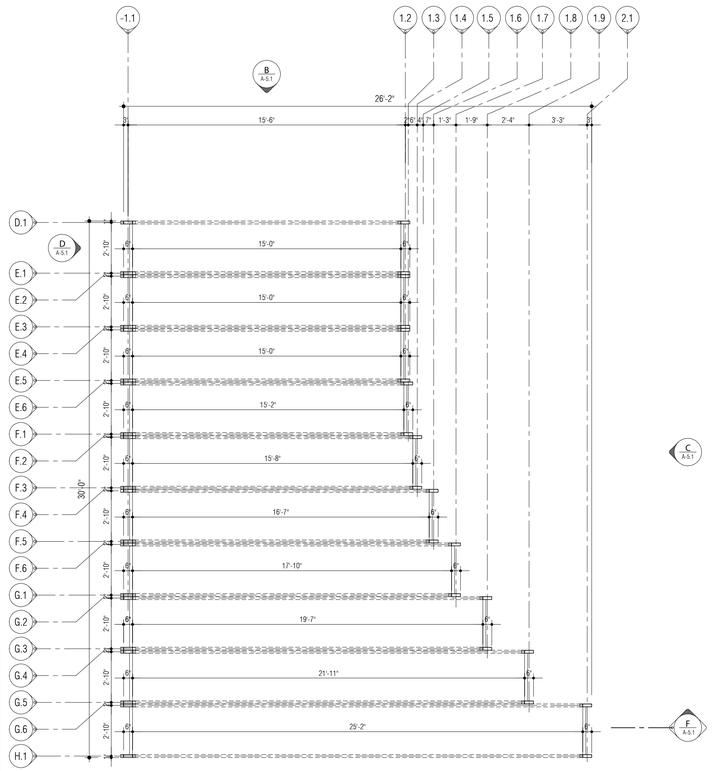
Stairs Section & Details

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03
PROJECT PHASE Construction Docs - 100%
SHEET # 33
DRAWN BY krs/rdc
DATE 26.vi.2024
DISCIPLINE

A-4.1

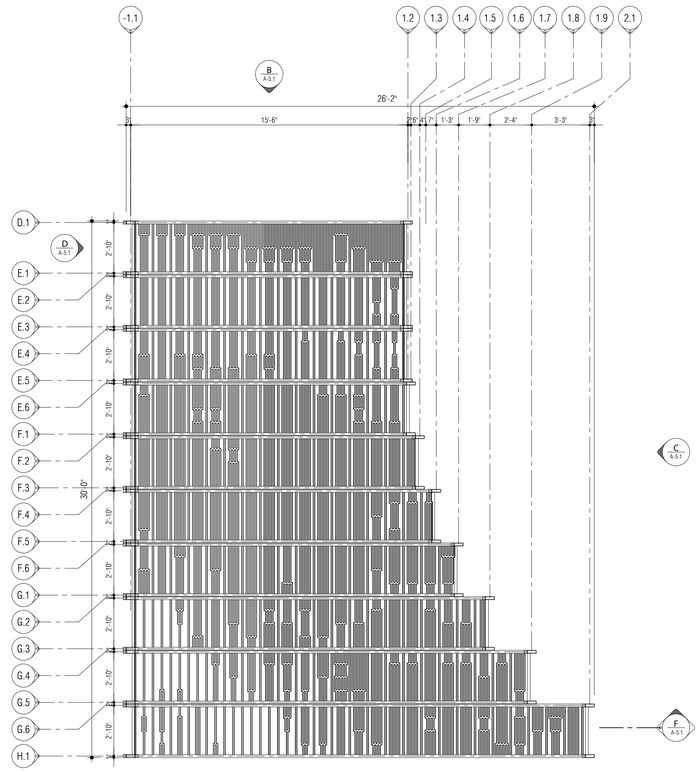
BID SET January 10, 2025



Gallery - Layout Plan

SCALE : ¼" = 1'-0"

A
A-5.0



Gallery - Reflected Ceiling Plan

SCALE : ¼" = 1'-0"

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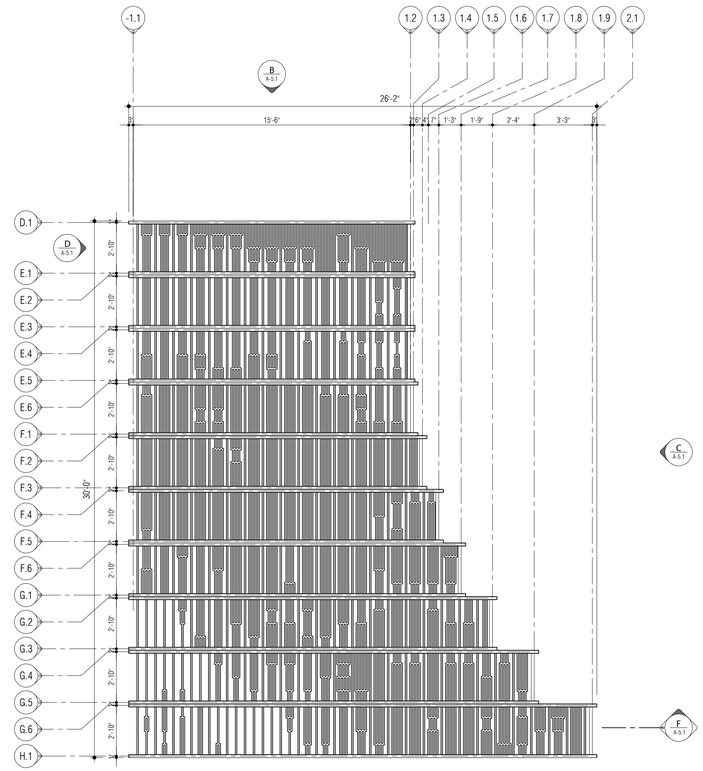
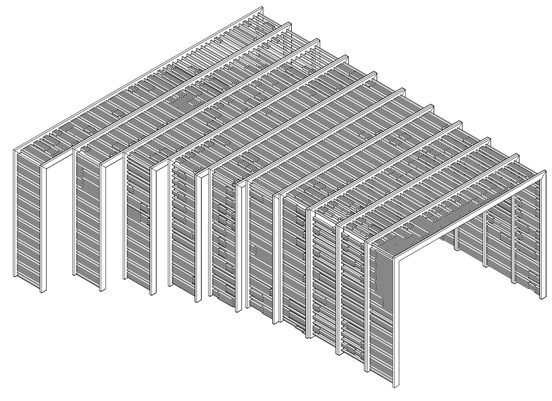


Gallery - Roof Plan

SCALE : ¼" = 1'-0"

C
A-5.0



Gallery - Axon

NOT TO SCALE

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez botello puerto rico
LIC: MXX DCCC III
EXP: 10.X.2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19882, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y/O ESPECIFICACIONES TÉCNICAS, POR LO TANTO, CERTIFICO QUE ESTOS DOCUMENTOS CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O COMPAÑÍAS PÚBLICAS CON JURISDICCIÓN SOBRE EL PROYECTO. DE IGUAL MANERA, CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LA NORMATIVA DE DISEÑO PARA LA INMERSIÓN POR LA INDUSTRIA DE LA CONSTRUCCIÓN EN LA LEY NUMERO 96 DEL 5 DE JULIO DE 1985, SEGÚN ENMENDADA. ASIMISMO, RECONOZCO QUE CUALQUIER ALTERACIÓN A ESTOS PLANOS Y/O ESPECIFICACIONES SIN MI CONSENTIMIENTO O SIN VERIFICACIÓN, IMPLICARÁ QUE OTRAS PERSONAS ASUMEN LA RESPONSABILIDAD DE LOS MISMOS Y RELEVO DE MI RESPONSABILIDAD PROFESIONAL.

I, JULIÁN MANRÍQUEZ BOTELLO, LICENSE 19882, CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED / CONFECTIONED / PREPARED THESE PLANS AND / OR TECHNICAL SPECIFICATIONS, THEREFORE, I CERTIFY THAT THESE DOCUMENTS COMPLY WITH THE PROVISIONS OF THE REGULATIONS AND CONSTRUCTION CODES IN FORCE OF THE AGENCIES, BOARDS, REGULATIONS OR PUBLIC COMPANIES WITH JURISDICTION OVER THE PROJECT. IN THE SAME WAY, I CERTIFY THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH THE DESIGN REGULATIONS FOR THE IMMERSION BY THE CONSTRUCTION INDUSTRY IN LAW NUMBER 96 OF JULY 5, 1985, AS AMENDED. I RECOGNIZE THAT ANY ALTERATION TO THESE PLANS AND / OR SPECIFICATIONS WITHOUT MY CONSENT OR WITHOUT VERIFICATION, WILL IMPLY THAT OTHER PEOPLE ASSUME THE RESPONSIBILITY OF THE SAME AND RELIEF OF MY PROFESSIONAL RESPONSIBILITY.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

OWN. TITLE

Gallery Layout Plans & Details

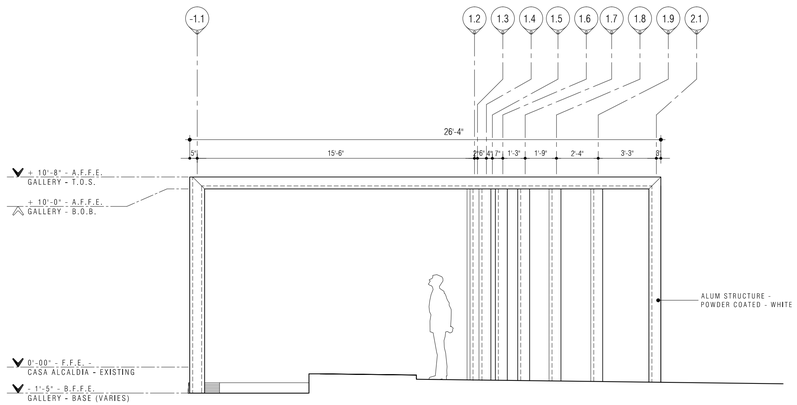
CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
34	krs/rdc 26.vi.2024

DISCIPLINE

A-5.0

BID SET January 10, 2025



Gallery - Elevation

SCALE : ¼" = 1'-0"

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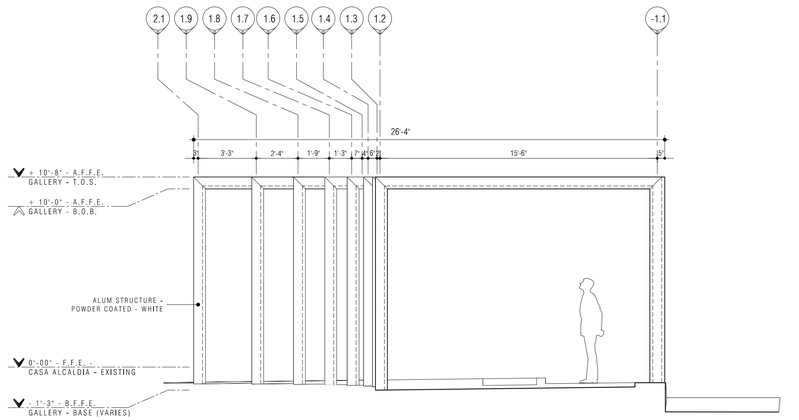
A-5.1



Gallery - Elevation

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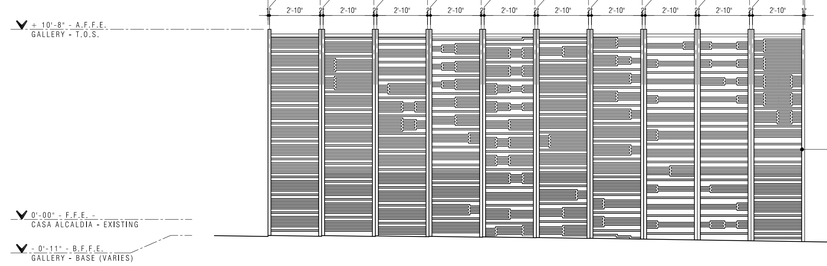
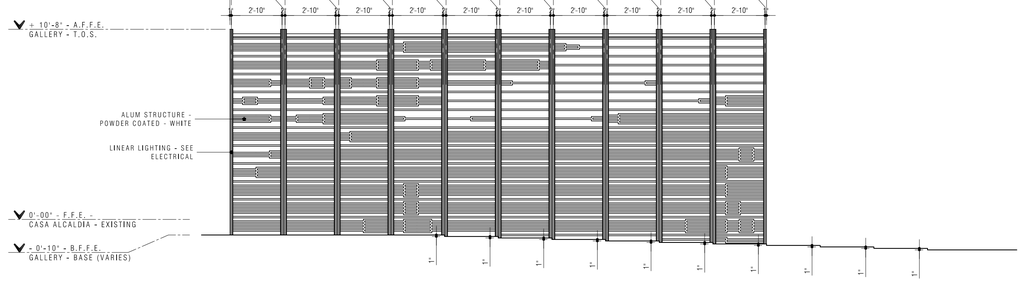


Gallery - Elevation

SCALE : ¼" = 1'-0"

C

A-5.1

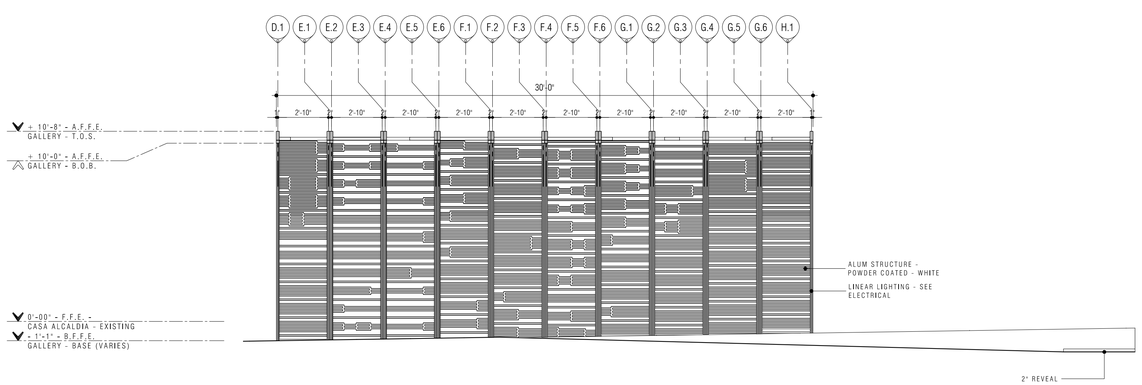


Gallery - Elevation

SCALE : ¼" = 1'-0"

D

A-5.1

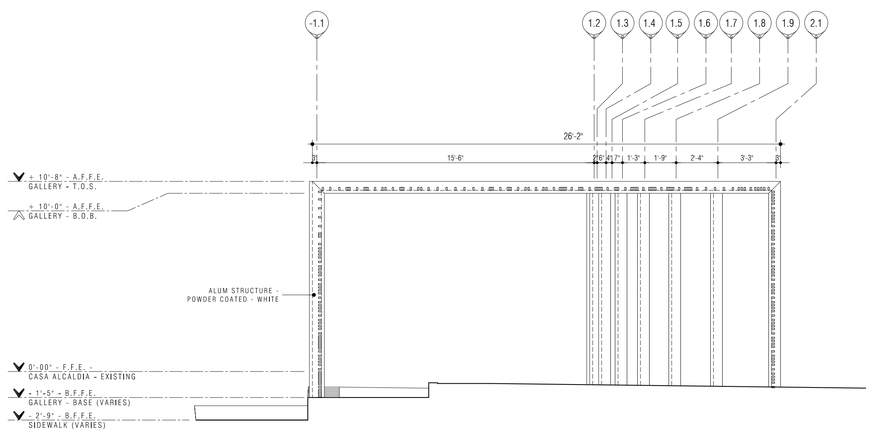


Gallery - Section

SCALE : ¼" = 1'-0"

E

A-5.1



Gallery - Section

SCALE : ¼" = 1'-0"

F

A-5.1

Notes:

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4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL



IDENTIFICACION - COPYRIGHTS / FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19882, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO CONFECCIONO Y PREPARO ESTOS PLANOS Y QUE LOS MISMOS CUMPLEN CON LAS NORMAS CONTENIDAS EN LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES EN LAS AGENCIAS, JUNTAS REGLAMENTADORAS O COMPAÑÍAS PÚBLICAS CON JURISDICCIÓN SOBRE LA MATERIA. DE NACERSE NECESARIO, ESTOS PLANOS Y ESPECIFICACIONES CUMPLIDO CON ALMENOS LOS REQUISITOS MÍNIMOS ESTABLECIDOS. CUALQUIER MODIFICACIÓN, OMISIÓN O ENMIENDA HECHA A ESTOS PLANOS SIN LA AUTORIZACIÓN POR LA ARQUITECTO QUE LOS PREPARÓ, LIBERA AL MISMO DE CUALQUIER RESPONSABILIDAD QUE SE DERIVE DE LA MISMA Y CON LA LEY NUMERO 96 DEL 5 DE JULIO DE 1988, SEGÚN ENMENDADA. A TAL EFECTO RECONOCE DICHA LEY Y SE COMPROMETE A CUMPLIR CON LA MISMA EN TODO MOMENTO. CUALQUIER PERSONA QUE COPIE O UTILICE ESTOS PLANOS SIN EL CONSENTIMIENTO DE LA FIRMA QUE LOS PREPARÓ, SIN LA AUTORIZACIÓN POR ESCRITO DE LA MISMA, MEDIANTE EL PAGO DE LOS HONORARIOS PROFESIONALES CORRESPONDIENTES, SERÁ EMPLEADOS, O POR OTRAS PERSONAS QUE NO SEAN LOS EMPLEADOS DE LA FIRMA QUE LOS PREPARÓ, SERÁ RESPONSABLE ANTE LA MISMA POR VIOLACIÓN DE LOS DERECHOS DE AUTOR Y PODRÁ SER OBLIGADO A PAGAR LOS DAÑOS Y PERJUICIOS QUE SE OCASIONEN A LA FIRMA QUE LOS PREPARÓ, INCLUYENDO HONORARIOS DE ABOGADO Y COSTAS DE LITIGACIÓN. NO SE PERMITE EL USO DE ESTOS PLANOS EN OBRAS QUE NO HAYA SIDO CONTRATADA LA FIRMA QUE LOS PREPARÓ, A MENOS QUE SE HAYA PAGADO LA TOTALIDAD DE LOS HONORARIOS PROFESIONALES CORRESPONDIENTES A DICHAS OBRAS. EL USO NO AUTORIZADO DE ESTOS PLANOS CONSTITUIRÁ UNA VIOLACIÓN A LA LEY FEDERAL DE DERECHOS DE AUTOR (TITULO 17 DEL CÓDIGO DE LOS ESTADOS UNIDOS) Y PODRÁ CONLLEVAR LA IMPOSICIÓN DE DAÑOS ESTATUTARIOS DE HASTA $150,000 POR CADA OBRA INFRINGIDA INTENCIONALMENTE, MÁS HONORARIOS DE ABOGADO Y COSTAS DE LITIGACIÓN. CUALQUIER USO NO AUTORIZADO CONLLEVARÁ ACCIONES LEGALES CIVILES Y CRIMINALES. AL ACEPTAR ESTOS PLANOS PARA REVISIÓN, CONSTRUCCIÓN O CUALQUIER OTRO PROPÓSITO, USTED ACEPTA Y RECONOCE QUE HA LEÍDO Y ENTENDIDO ESTA NOTA Y ACEPTA SUJETARSE A LOS TÉRMINOS Y CONDICIONES AQUÍ ESTABLECIDOS. CUALQUIER USO DE ESTOS PLANOS CONSTITUIRÁ EVIDENCIA DE QUE USTED ACEPTA Y RECONOCE LO ANTES EXPUESTO.

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e-mail: info@formationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Gallery Elevations & Sections

CLIENT

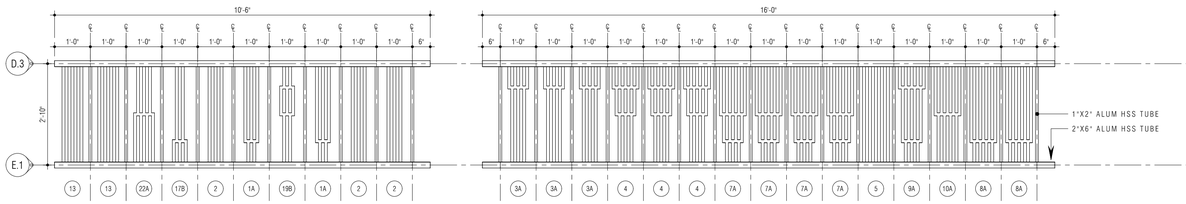
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
35	krs/rdc 26.vi.2024

DESCRIPTION

A-5.1

BID SET January 10, 2025



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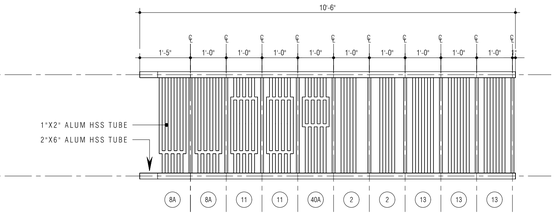

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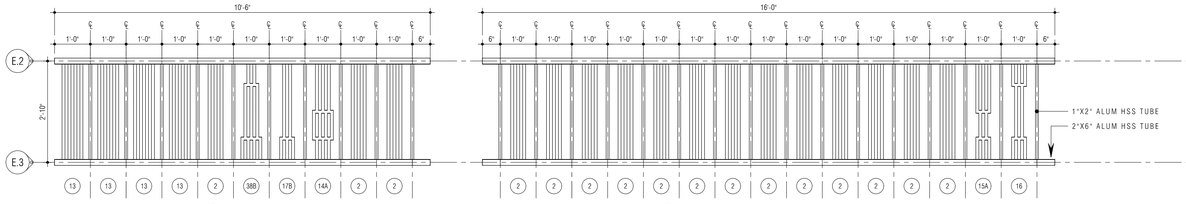

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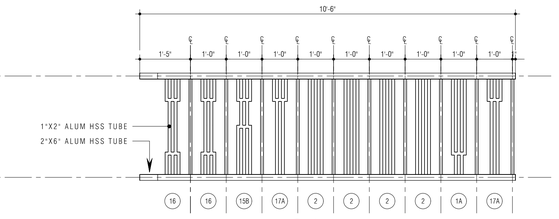

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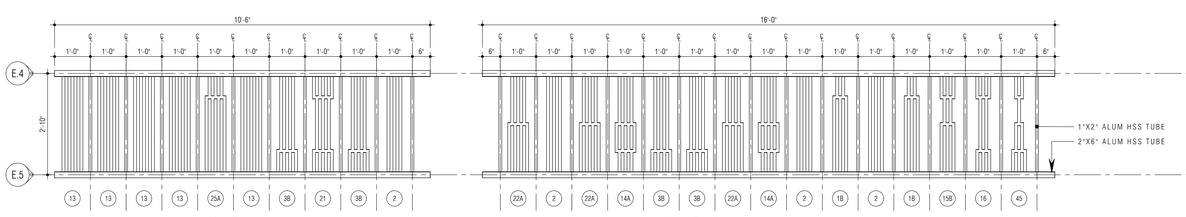

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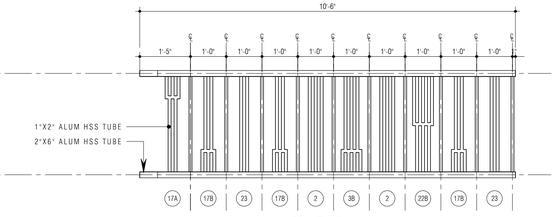

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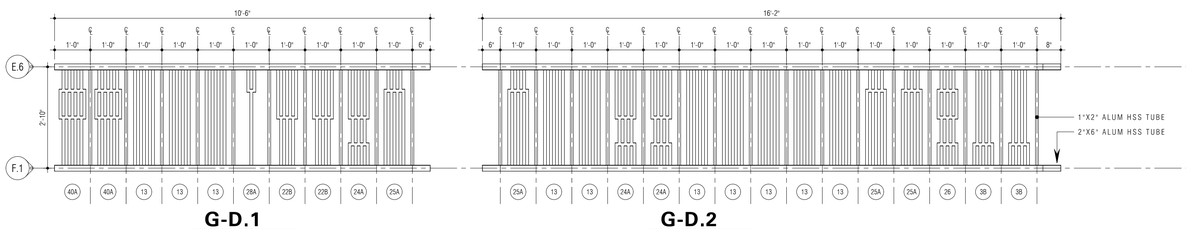

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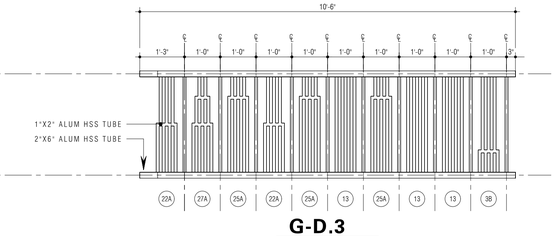

G-D.3

Gallery - Unfolded Layout

SCALE : ½ " = 1'-0" A-5.2

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REVISIONS

REV. #	DATE	ISSUING REASON
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PROFESSIONAL SEAL

julián manriquez bottello puerto rico
LIC: MXX DCCC III
EXP: 10.X.2025

CERTIFICACION - COPYRIGHTS + FIRM NAME

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e-mail: info@formationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Gallery - Unfolded Plan

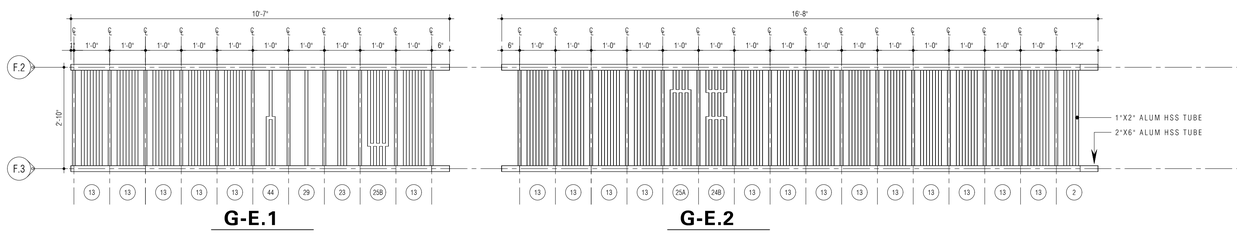
CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
36	krs/rdc 26.vi.2024

DISCIPLINE

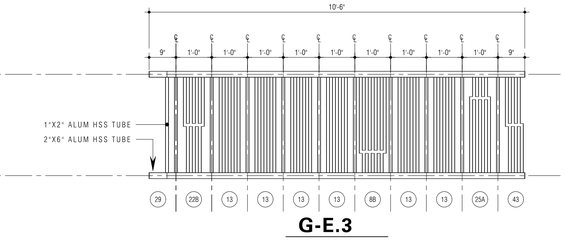
A-5.2

BID SET January 10, 2025



G-E.1

G-E.2



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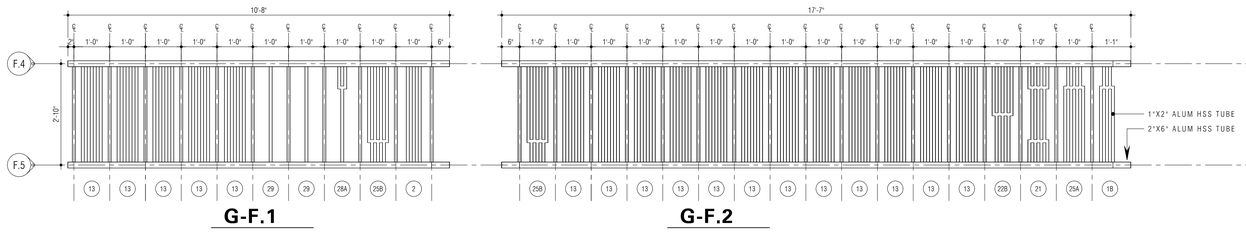

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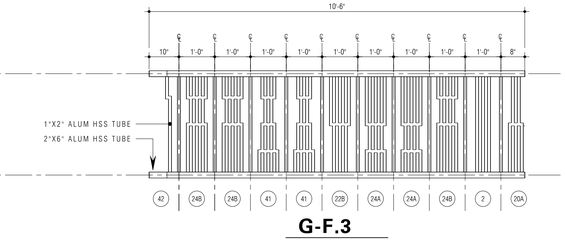
G-F.2



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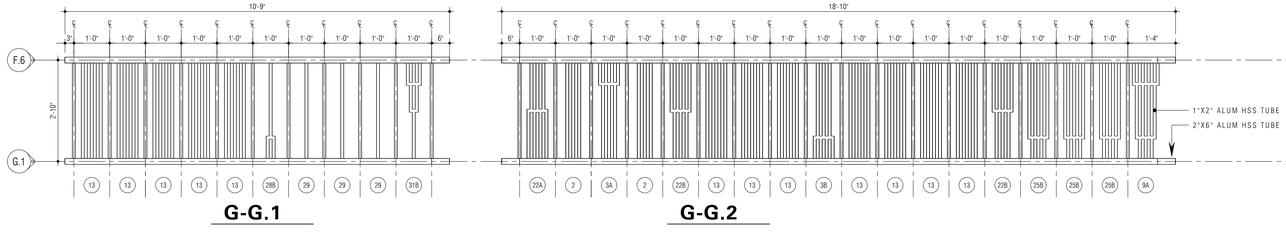
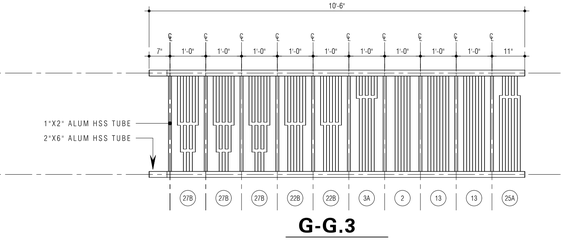
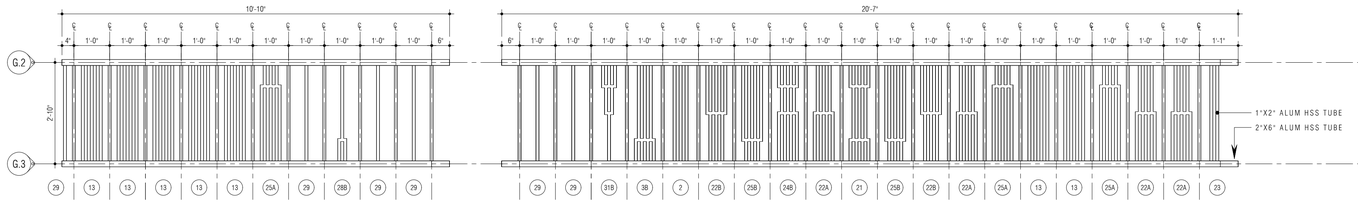


G-G.1

G-G.2

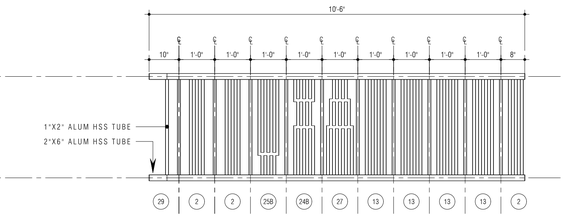


G-G.3

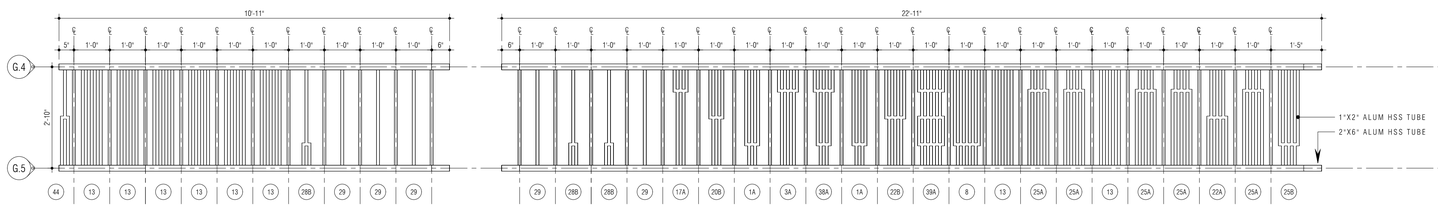


G-H.1

G-H.2

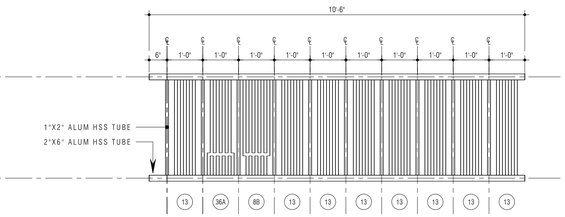


G-H.3

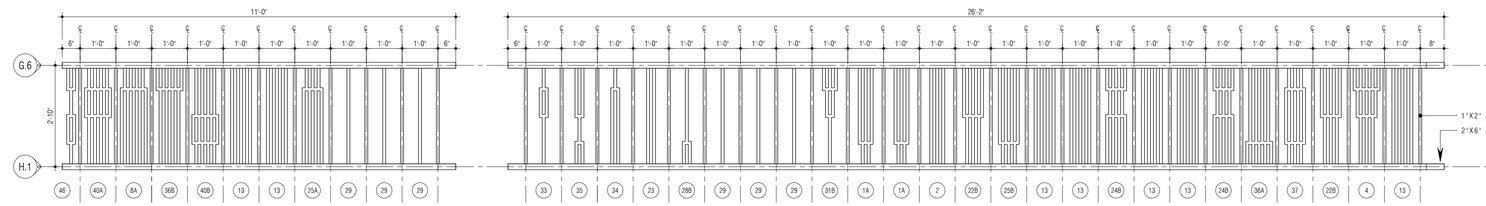


G-J.1

G-J.2

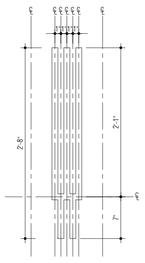


G-J.3



G-K.1

26'-2"
6" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0



Type 1A

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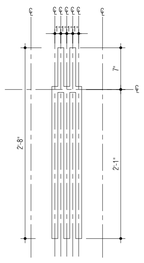
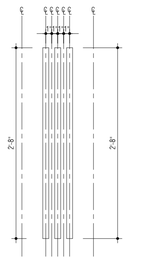
QUANTITY: 7



Type 1B

SCALE : 1 " = 1'-0"
QUANTITY: 3



Type 2

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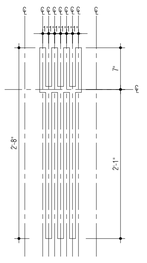

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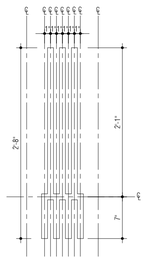

Type 3B

SCALE : 1 " = 1'-0"
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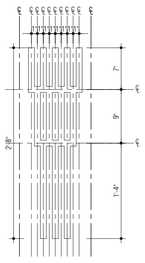

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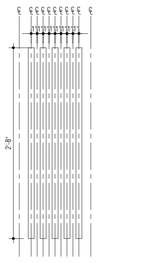

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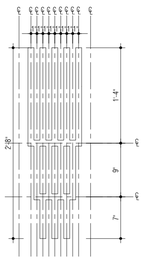
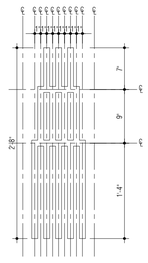
SCALE : 1 " = 1'-0"
QUANTITY: 1



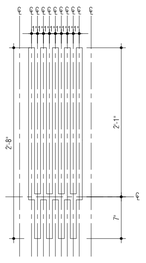
Type 7A

SCALE : 1 " = 1'-0"
QUANTITY: 3



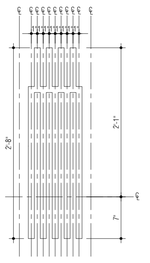
Type 7B

SCALE : 1 " = 1'-0"
QUANTITY: 1



Type 8A

SCALE : 1 " = 1'-0"
QUANTITY: 4



Type 8B

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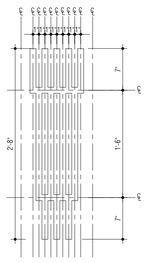

Type 9A

SCALE : 1 " = 1'-0"
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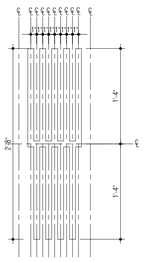

Type 10A

SCALE : 1 " = 1'-0"
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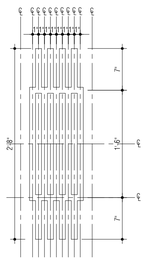
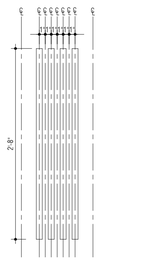


Type 11

SCALE : 1 " = 1'-0"
QUANTITY: 2



Type 13

SCALE : 1 " = 1'-0"
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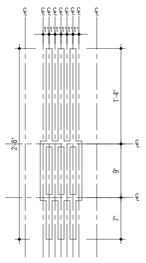
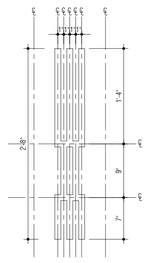


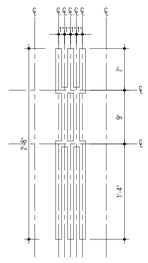
Type 14A

SCALE : 1 " = 1'-0"
QUANTITY: 3



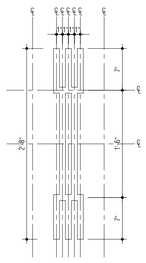
Type 15A

SCALE : 1 " = 1'-0"
QUANTITY: 1



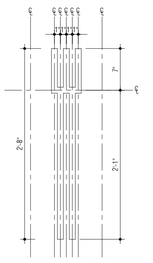
Type 15B

SCALE : 1 " = 1'-0"
QUANTITY: 2



Type 16

SCALE : 1 " = 1'-0"
QUANTITY: 4



Type 17A

SCALE : 1 " = 1'-0"
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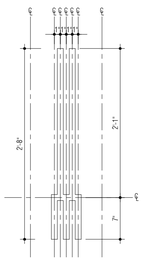
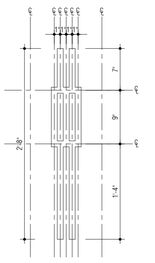


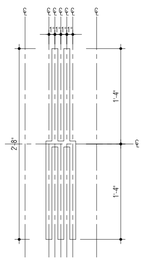
Type 17B

SCALE : 1 " = 1'-0"
QUANTITY: 5



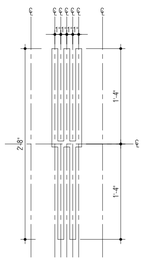
Type 19B

SCALE : 1 " = 1'-0"
QUANTITY: 1



Type 20A

SCALE : 1 " = 1'-0"
QUANTITY: 1



Type 20B

SCALE : 1 " = 1'-0"
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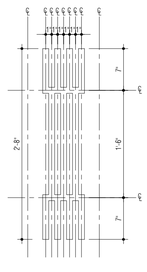
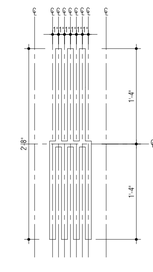


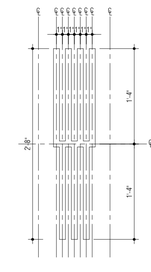
Type 21

SCALE : 1 " = 1'-0"
QUANTITY: 3



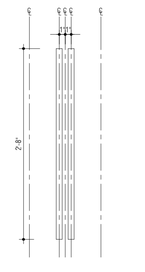
Type 22A

SCALE : 1 " = 1'-0"
QUANTITY: 13



Type 22B

SCALE : 1 " = 1'-0"
QUANTITY: 14



Type 23

SCALE : 1 " = 1'-0"
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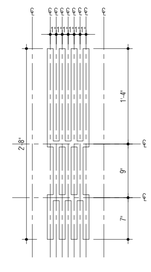

Type 24A

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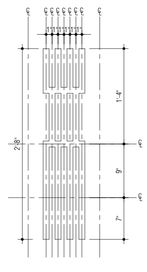

Type 24B

SCALE : 1 " = 1'-0"
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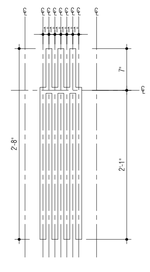

Type 25A

SCALE : 1 " = 1'-0"
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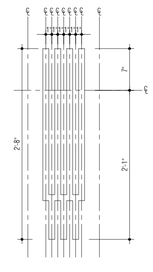

Type 25B

SCALE : 1 " = 1'-0"
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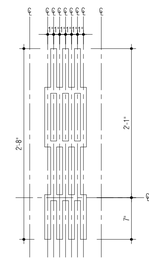

Type 26

SCALE : 1 " = 1'-0"
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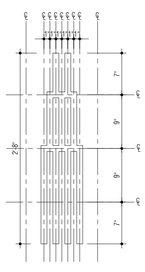

Type 27A

SCALE : 1 " = 1'-0"
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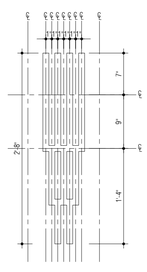

Type 27B

SCALE : 1 " = 1'-0"
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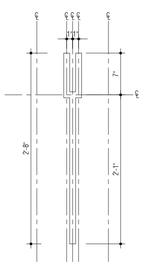

Type 28A

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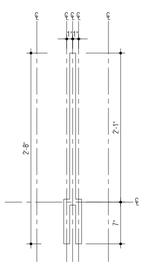

Type 28B

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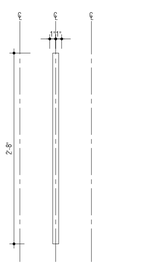

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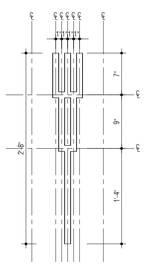

Type 31B

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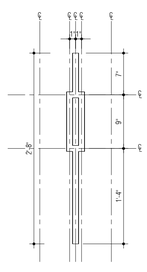


Type 33

SCALE : 1 " = 1'-0"
QUANTITY: 1

Type 34

SCALE : 1 " = 1'-0"
QUANTITY: 1

Type 35

SCALE : 1 " = 1'-0"
QUANTITY: 1

Type 36A

SCALE : 1 " = 1'-0"
QUANTITY: 2

Type 36B

SCALE : 1 " = 1'-0"
QUANTITY: 1

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

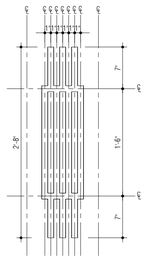
REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

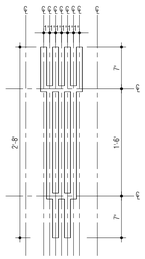
CERTIFICACION / CERTIFICATE / FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19802, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. I, JULIÁN MANRÍQUEZ BOTELLO, LICENSE 19802, CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED, PREPARED AND MADE THESE PLANS. CERTIFICO QUE ESTOS PLANOS SE HICIERON Y ESTÁN HECHOS DE ACUERDO CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE. I CERTIFY THAT THESE PLANS WERE AND ARE MADE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CONSTRUCTION REGULATIONS AND CODES IN FORCE. JUNTAS REGLAMENTADORAS O COMPETENTES. REGIONES, PÚBLICAS O PRIVADAS. CUMPLIDO CON LA NORMATIVA VIGENTE. I HAVE COMPLIED WITH THE CURRENT REGULATIONS. CUMPLIDO CON LAS NORMAS DE CONSTRUCCIÓN VIGENTES. I HAVE COMPLIED WITH THE CURRENT CONSTRUCTION STANDARDS. CUMPLIDO CON LA NORMATIVA VIGENTE. I HAVE COMPLIED WITH THE CURRENT REGULATION



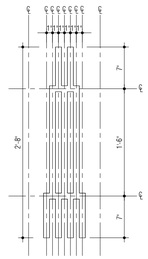
Type 37

SCALE : 1 " = 1'-0"
QUANTITY: 1



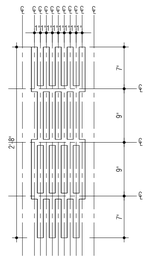
Type 38A

SCALE : 1 " = 1'-0"
QUANTITY: 1



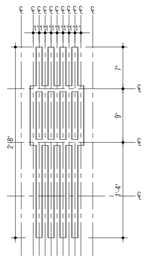
Type 38B

SCALE : 1 " = 1'-0"
QUANTITY: 1



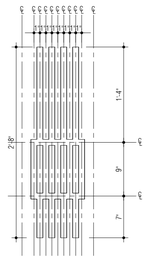
Type 39A

SCALE : 1 " = 1'-0"
QUANTITY: 1



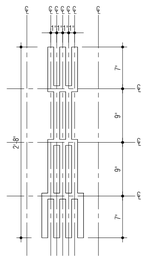
Type 40A

SCALE : 1 " = 1'-0"
QUANTITY: 4



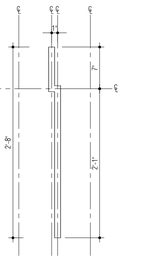
Type 40B

SCALE : 1 " = 1'-0"
QUANTITY: 1



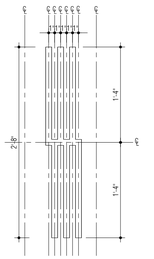
Type 41

SCALE : 1 " = 1'-0"
QUANTITY: 2



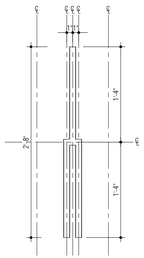
Type 42

SCALE : 1 " = 1'-0"
QUANTITY: 1



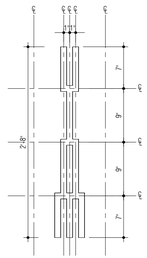
Type 43

SCALE : 1 " = 1'-0"
QUANTITY: 1



Type 44

SCALE : 1 " = 1'-0"
QUANTITY: 2



Type 45

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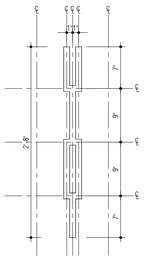
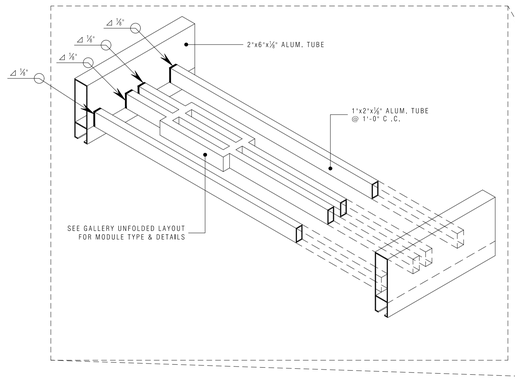
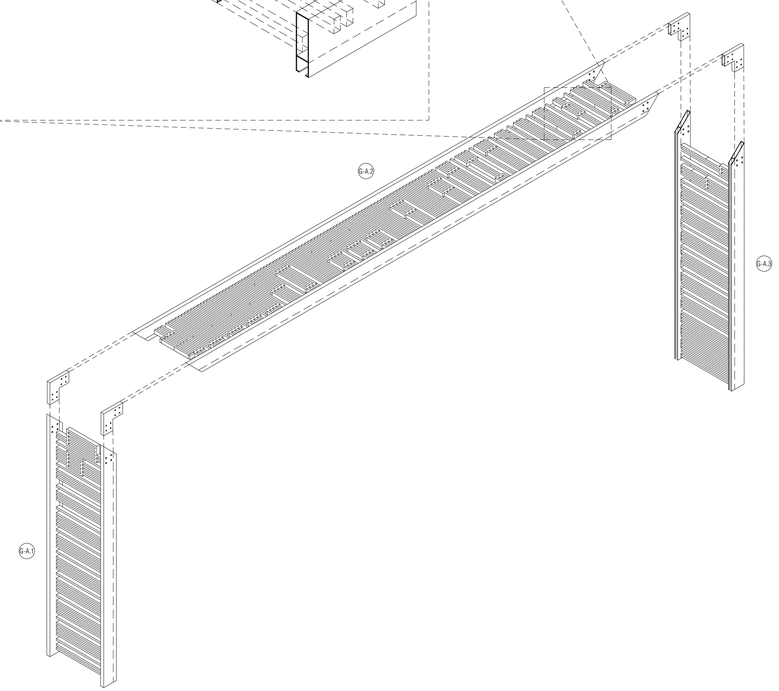
QUANTITY: 1



Type 46

SCALE : 1 " = 1'-0"
QUANTITY: 1





Gallery - Assembly Axon

NOT TO SCALE

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

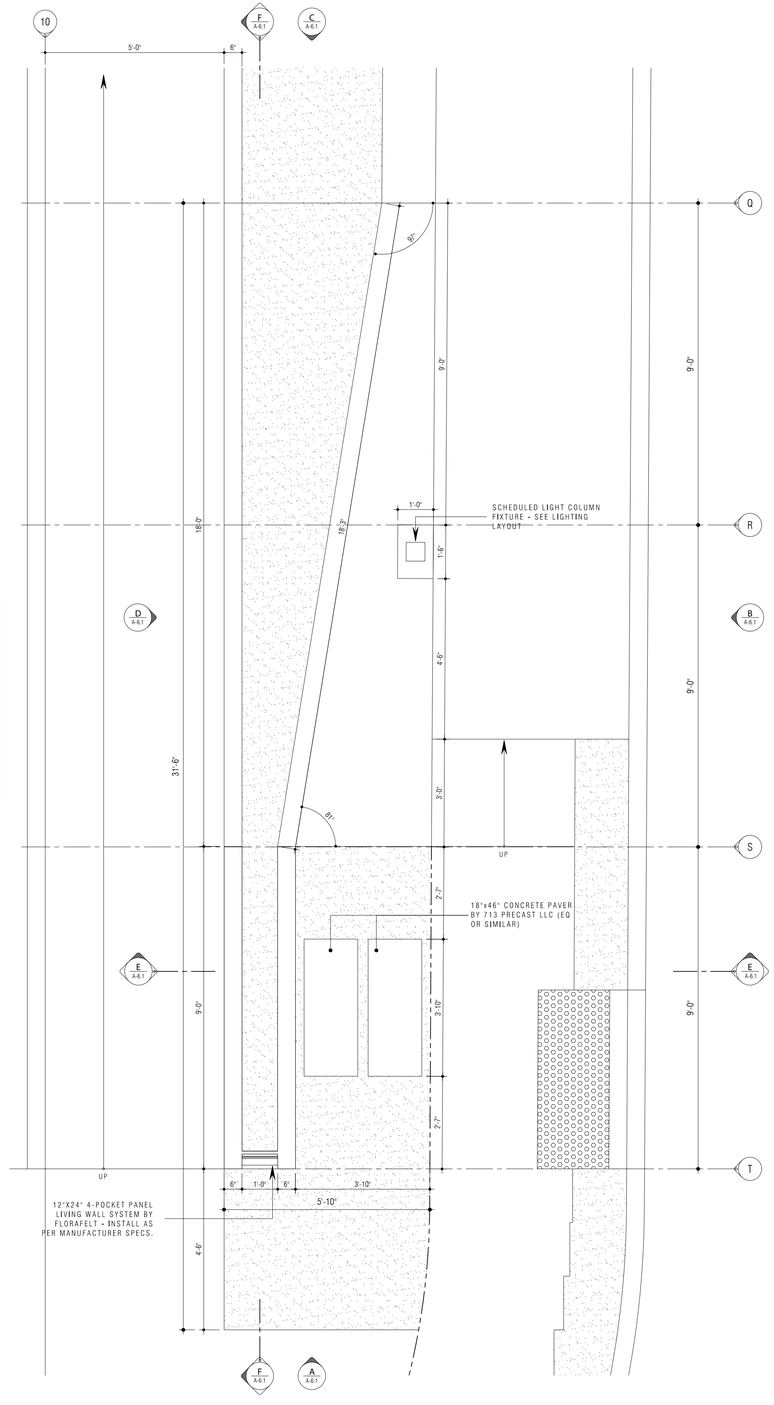
REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL



IDENTIFICACION - COPYRIGHTS / FIRM NAME

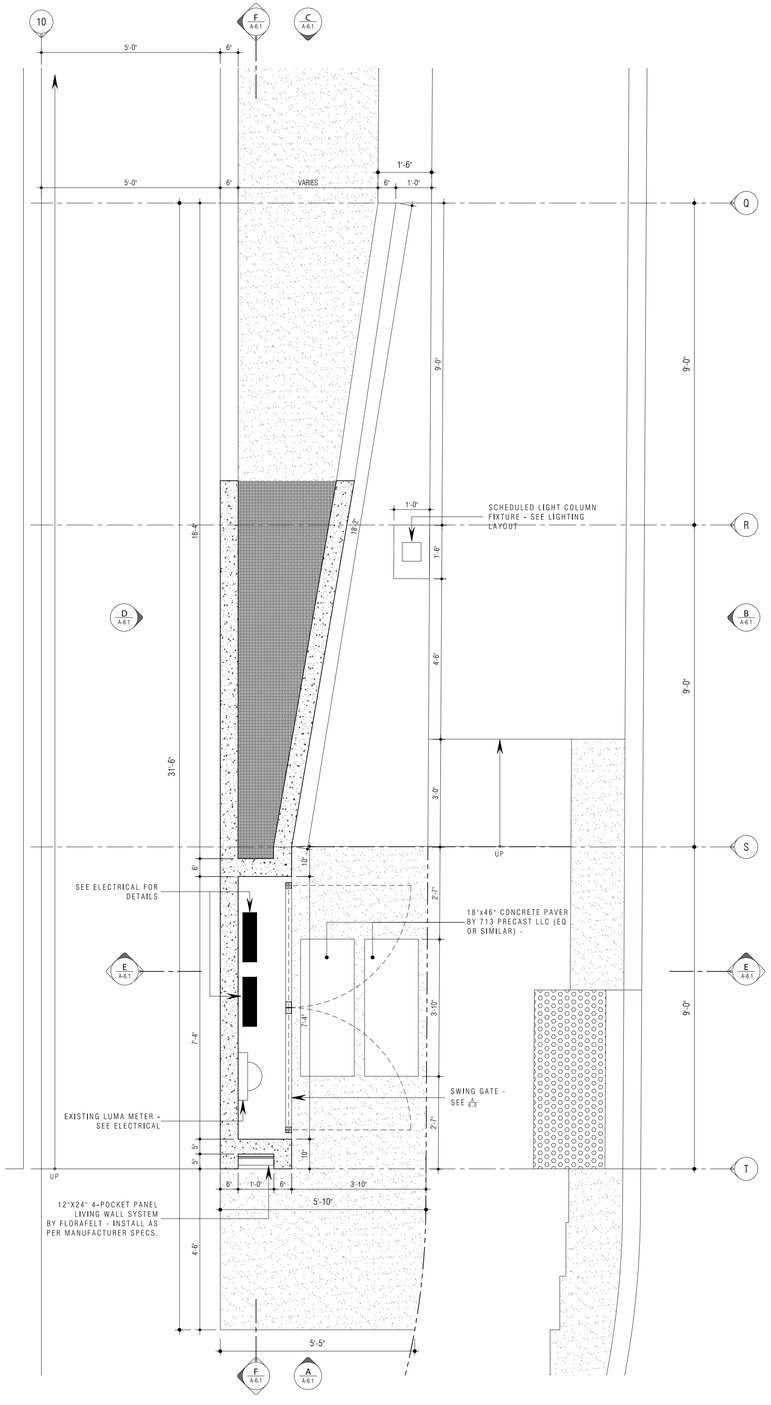
YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19862, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS, ESPECIFICACIONES Y/O INFORME TÉCNICO SOMETIDO, Y CERTIFICO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES EN LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O COMPAÑÍAS PÚBLICAS CON JURISDICCIÓN SOBRE LA MATERIA DE LA OBRA. FIRMADO EN SAN JUAN, PUERTO RICO, HOY DÍA [illegible]. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LA NORMATIVA VIGENTE EN LA MATERIA PROMULGADA POR LA JUNTA DE PLANIFICACIÓN, LA ADMINISTRACIÓN DE REGLAMENTOS Y PERMISOS, LA OFICINA PARA EL MEJOR VIVIR, LA AUTORIDAD DE ACUEDUCTOS Y ALCANTARILLADOS, LA AUTORIDAD DE ENERGÍA ELÉCTRICA, LA AUTORIDAD DE CARRETERAS Y TRANSPORTACIÓN, LA AUTORIDAD DE EDIFICIOS PÚBLICOS, LA AUTORIDAD DE TRANSPORTACIÓN MARÍTIMA, LA AUTORIDAD DE PUERTOS, LA AUTORIDAD DE DESPERDICIOS SÓLIDOS



Electrical Closet - Roof Plan

SCALE : ½" = 1'-0"

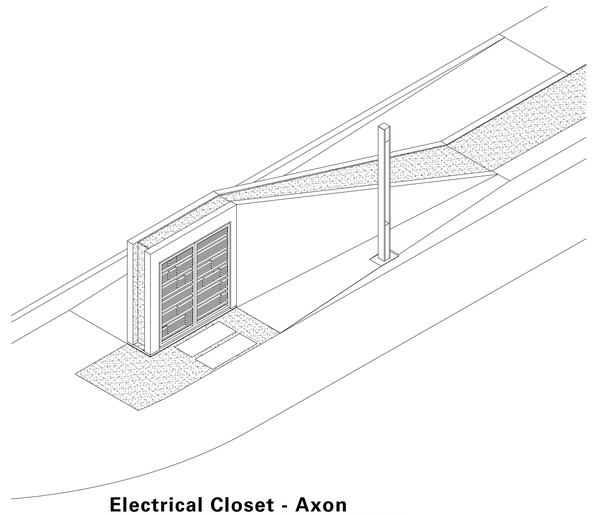
A
A-6.0



Electrical Closet - Floor Plan

SCALE : ½" = 1'-0"

B
A-6.0



Electrical Closet - Axon

NOT TO SCALE

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REVISIONS

REV. #	DATE	ISSUING REASON

PROFESSIONAL SEAL

LIC. MXX DCCC III
EXP: 18.X.2025

ELECTRIFICACIÓN - COPYRIGHTS - FIRM NAME

YO, JULIÁN MANRIQUEZ BOTELLO, LICENCIA 19893, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. ESTOS PLANOS FUERON DISEÑADOS Y PREPARADOS CUMPLIENDO CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O COMPETENTES. RECONOZCO, PUBLICO Y DOY FE QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LA NORMA DE DISEÑO SÍSMICO APLICABLE. EG SIN EMBARGO, CONCEDO PARA LA REVISIÓN POR LA AGO Y LA LEY NUMERO 96 DEL 8 DE JULIO DE 1976 PARA RECONOCERLO CUALQUIER DUEÑO DE PROPIEDAD, AL CUMPLIMIENTO DE LA LEY NUMERO 96 DEL 8 DE JULIO DE 1976 SIN EMBARGO, SUJETO A QUE EL CAMBIO O FIRM REALIZADO, EMPLEADOS, O POR OTRAS PERSONAS DIFERENTES A MÍ, NO HAYA PROVOCADO ACTO N.º BASCAL Y DEBAMOS ESTO CONFORME CON TODAS LAS LEYES, REGLAS, ORDEN Y NORMAS REFERENCIADAS. ADEMÁS, ESTOY DE ACUERDO EN QUE EL DUEÑO DE PROPIEDAD, SIN NINGUNA RESPONSABILIDAD PARA MÍ, RETENGA TODOS LOS DERECHOS DE PROPIEDAD INTELECTUAL, INCLUYENDO, PERO SIN LIMITARSE A, LA LEY DE DERECHOS DE AUTOR DE 1976, SOBRE ESTOS DOCUMENTOS. ESTOS DOCUMENTOS NO PUEDEN SER REPRODUCIDOS, PUBLICADOS O USADOS PARA OTRO PROPÓSITO SIN EL CONSENTIMIENTO ESCRITO DE LA EMPRESA. TODOS LOS DERECHOS RESERVADOS. COPYRIGHT © 2024 BY JULIÁN MANRIQUEZ BOTELLO

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Electrical Closet - Plans & Details

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

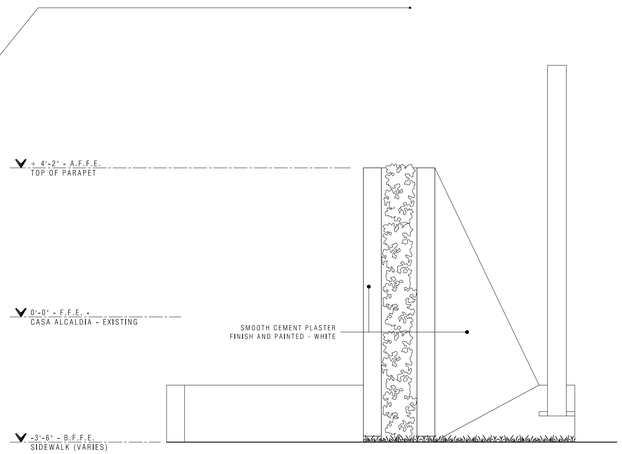
PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
40	rdc	26.vi.2024

DISCIPLINE

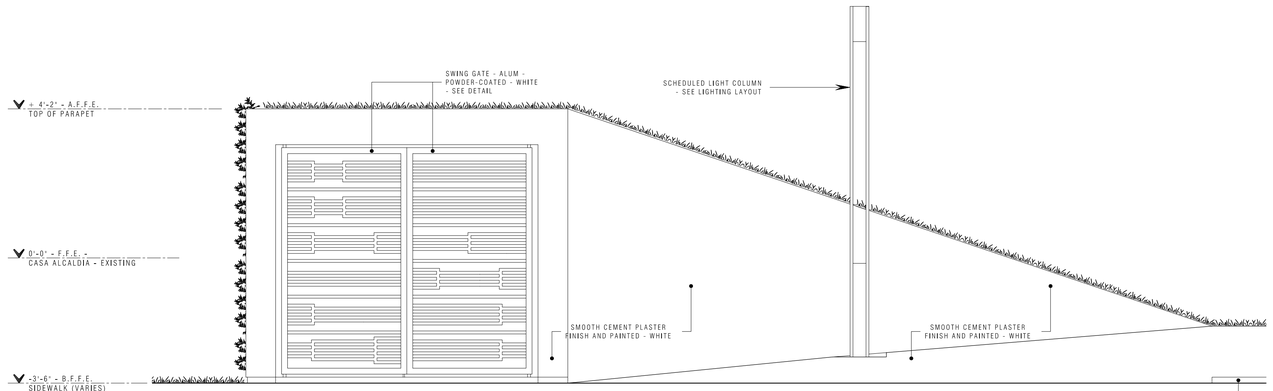
A-6.0

BID SET January 10, 2025



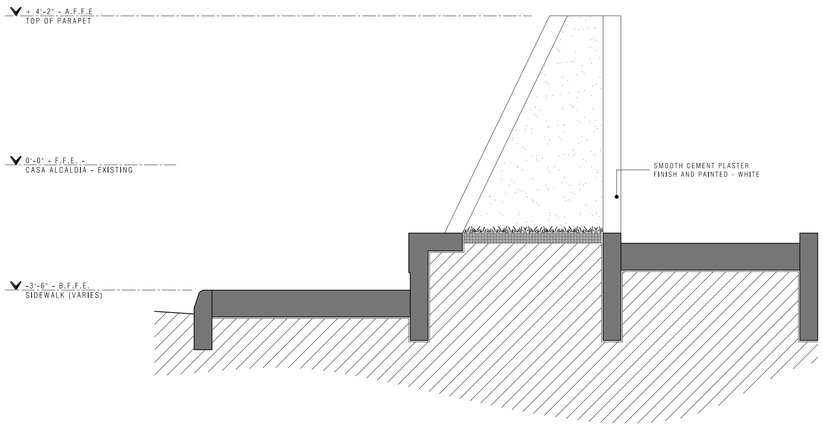
Elevation A

SCALE : ½" = 1'-0" — A-6.1



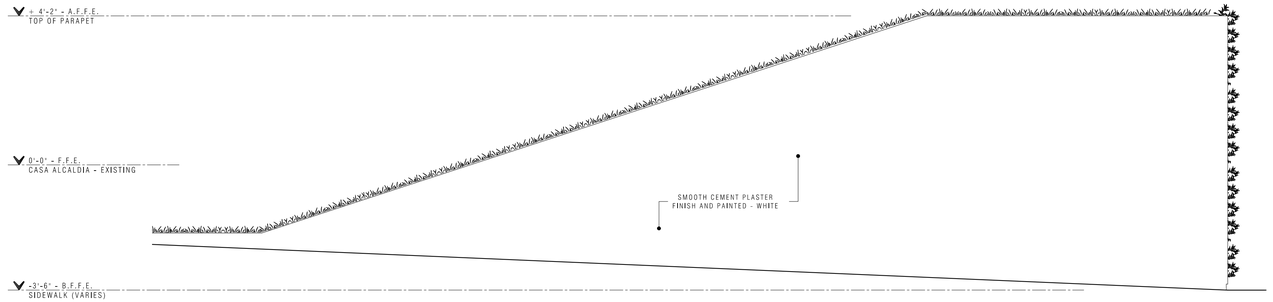
Elevation B

SCALE : ½" = 1'-0" — A-6.1



Elevation C

SCALE : ½" = 1'-0" — A-6.1



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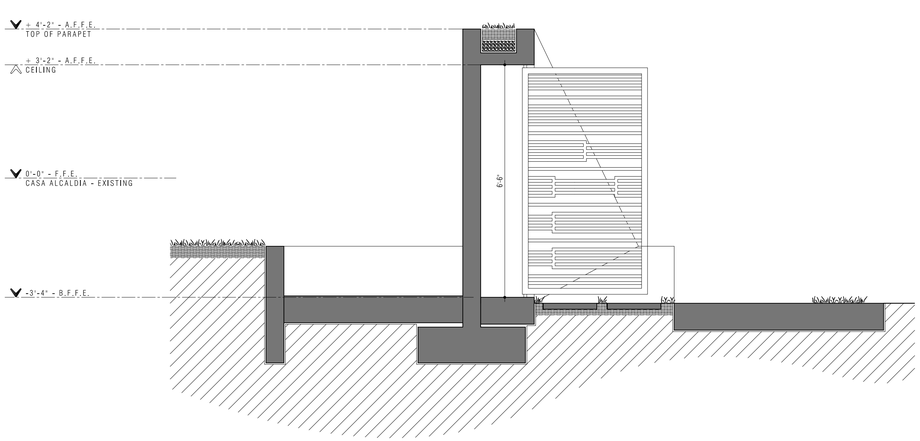
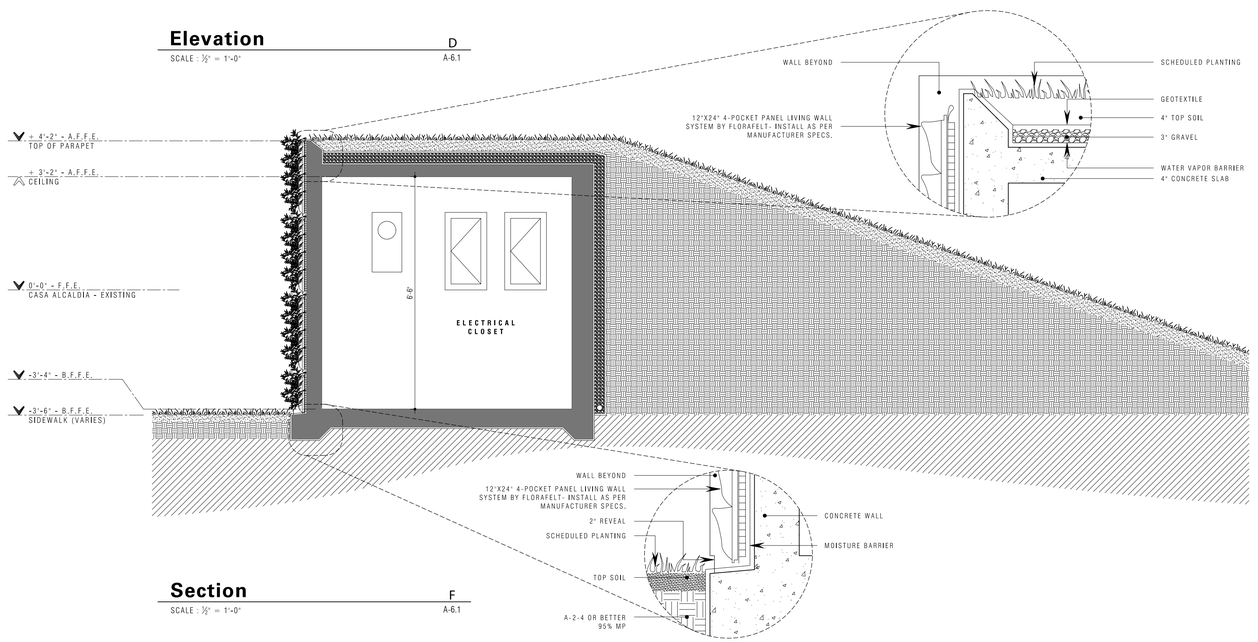
SCALE : ½" = 1'-0" — A-6.1



Section E

SCALE : ½" = 1'-0" — A-6.1



Section F

SCALE : ½" = 1'-0" — A-6.1

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez botello fmc
LIC: MXX DCCC III
EXP: 10.X.2025

IDENTIFICACION - CERTIFICATE / FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19862, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS. ESTOS PLANOS CUMPLEN CON LA LEY NÚM. 144 DE 1994, CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O COMPAÑÍAS PÚBLICAS CON JURISDICCIÓN. DE IGUAL MANERA, CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LA NUEVA LEY NÚMERO 96 DEL 5 DE JULIO DE 2019, LEY QUE ENMIENDA LA LEY NÚMERO 84 DEL 5 DE JULIO DE 2018, PARA REQUERIR QUE LA INSTALACIÓN DE CUALQUIER EQUIPO NUEVO O EXISTENTE SE HAGA POR UN INSTALADOR CERTIFICADO POR EL FABRICANTE DE DICHO EQUIPO. ESTO APLICA A TODO EQUIPO QUE SE VAYA A UTILIZAR EN EL PROYECTO, INCLUYENDO, PERO NO LIMITADO A, EQUIPO DE ELEVACIÓN, EQUIPO DE PLOMERÍA, EQUIPO DE ELECTRICIDAD, EQUIPO DE AIRE ACONDICIONADO, ENTRE OTROS. ESTO APLICA A TODO EQUIPO QUE SE VAYA A UTILIZAR EN EL PROYECTO, INCLUYENDO, PERO NO LIMITADO A, EQUIPO DE ELEVACIÓN, EQUIPO DE PLOMERÍA, EQUIPO DE ELECTRICIDAD, EQUIPO DE AIRE ACONDICIONADO, ENTRE OTROS. ESTO APLICA A TODO EQUIPO QUE SE VAYA A UTILIZAR EN EL PROYECTO, INCLUYENDO, PERO NO LIMITADO A, EQUIPO DE ELEVACIÓN, EQUIPO DE PLOMERÍA, EQUIPO DE ELECTRICIDAD, EQUIPO DE AIRE ACONDICIONADO, ENTRE OTROS.

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Carolina, PR. 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

SHEET TITLE

Electrical Closet - Elevations, Sections & Details

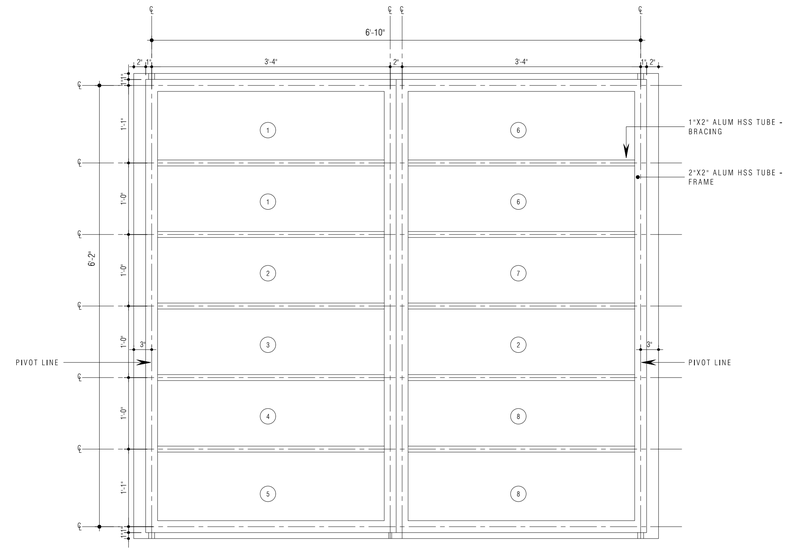
CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
41	rdc / 26.vi.2024

DISCIPLINE

A-6.1

BID SET January 10, 2025



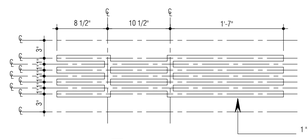
Electrical Closet - Gate

1

SCALE : 1" = 1'-0"

A-6.2

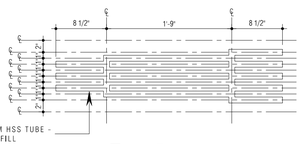
NOTE: ALL ALUM HSS ELEMENTS TO BE POWDER COATED WHITE.



Type 1

SCALE : 1" = 1'-0"

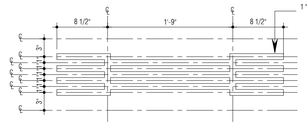
QUANTITY: 2



Type 5

SCALE : 1" = 1'-0"

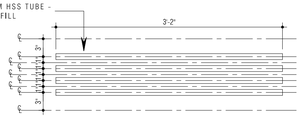
QUANTITY: 1



Type 2

SCALE : 1" = 1'-0"

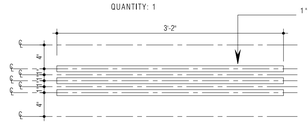
QUANTITY: 1



Type 6

SCALE : 1" = 1'-0"

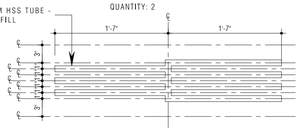
QUANTITY: 2



Type 3

SCALE : 1" = 1'-0"

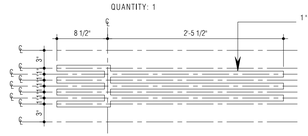
QUANTITY: 1



Type 7

SCALE : 1" = 1'-0"

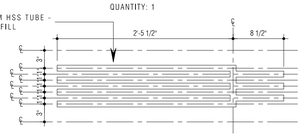
QUANTITY: 1



Type 4

SCALE : 1" = 1'-0"

QUANTITY: 1



Type 8

SCALE : 1" = 1'-0"

QUANTITY: 2

Electrical Closet Gate - Infill Types

SCALE : 1" = 1'-0"

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REVISIONS

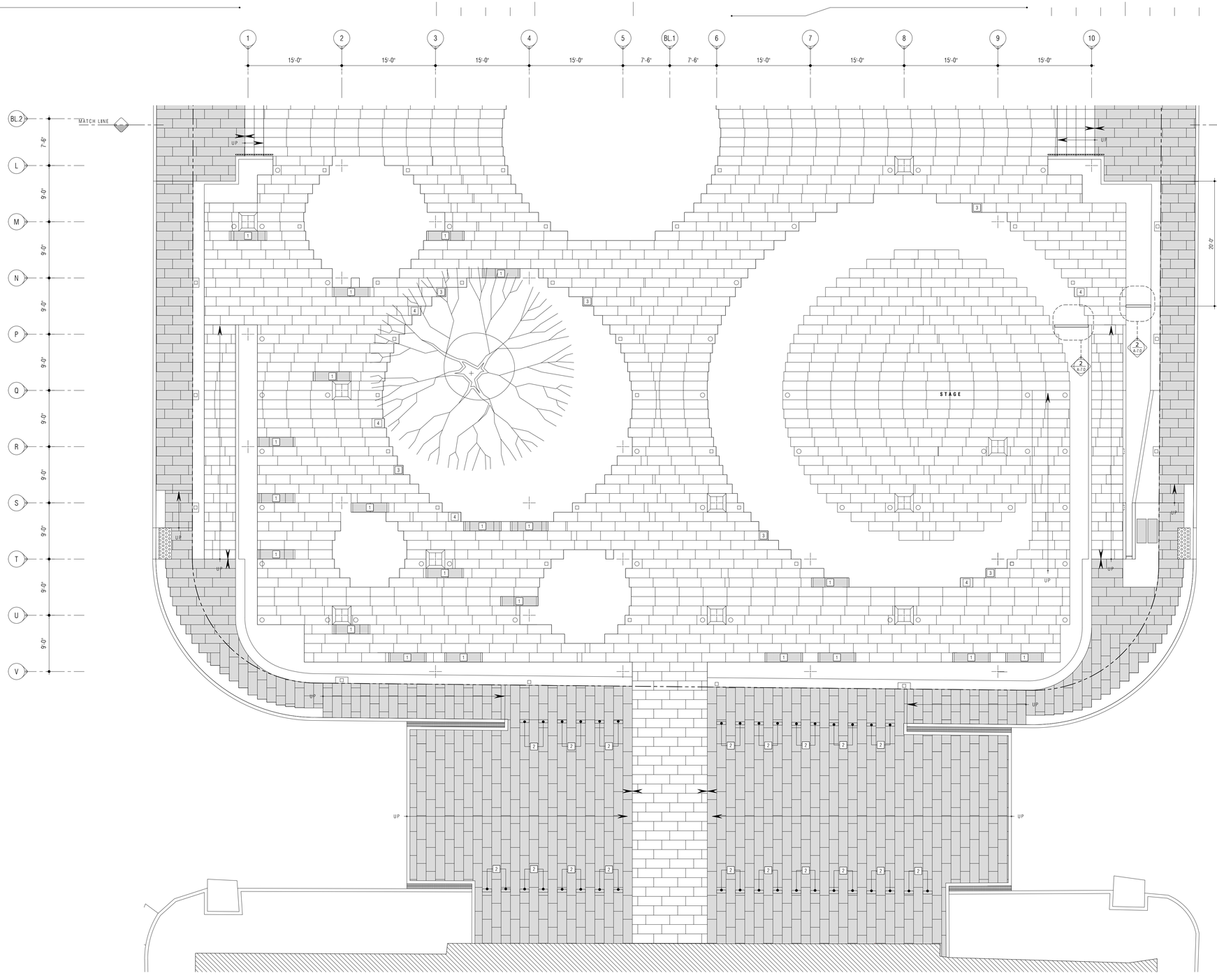
REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL



CERTIFICACION - COPYRIGHTS - FIRM NAME

YO JULIAN MANRIQUEZ BOTELLO, LICENCIA 19802, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO CONFECCIONO Y PREPARO ESTOS PLANOS Y ESPECIFICACIONES, Y QUE LOS MISMOS CUMPLEN CON LAS DISPOSICIONES APLICABLES CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O COMPONENTES QUE HAYAN PARTICIPADO EN LA EMISION DE DICHOS PLANOS Y ESPECIFICACIONES. CUMPLIDO CA ALMENOS UNA (1) VEZ EN PERSONA DURANTE LA CONSTRUCCION PARA LA INSPECCION POR LA AGENCIA O COMPONENTE QUE EMITIO LA LEY NUMERO 96 DEL 5 DE JULIO DE 1976, RECONOCIDO DU CUALQUIER ALTERACION A LOS PLANOS SE HAYA PRODUCIDO SIN EL CONSENTIMIENTO ESCRITO Y PUESTO AL DIA 09 DE FEBRERO DE CUALQUIER EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO Y ME HACEN RESPONSABLE. LA ACCESO N, BASICAL Y DISCIPLINA MA PARA LA CONSTRUCCION. TOTAL PROPIEDAD INTELECTUAL DEFF. Y ACT IMAXION, DE ESTOS PLANOS Y ESPECIFICACIONES. ESTOS PLANOS Y ESPECIFICACIONES SON PROPIEDAD INTELECTUAL DE LA FIRMA DE ARQUITECTURA QUE LOS DISEÑO, PREPARO Y SELLO. NO SE PERMITE EL USO, REPRODUCCION O MODIFICACION DE ESTOS PLANOS Y ESPECIFICACIONES SIN EL CONSENTIMIENTO ESCRITO Y AUTORIZACION

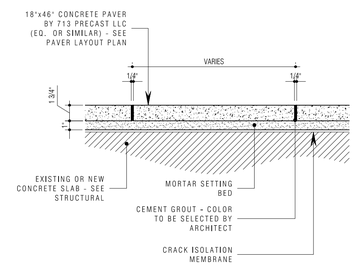


Paver Pattern Layout Plan

SCALE : 1/8" = 1'-0"

A

A-7.0

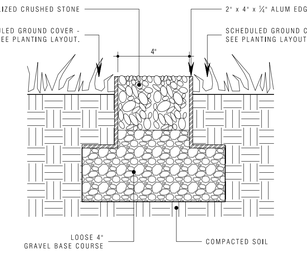


Concrete Paver Detail

SCALE : 3" = 1'-0"

1

A-7.0



Ground Cover Transition Detail

SCALE : 3" = 1'-0"

2

A-7.0

FURNITURE SCHEDULE

ID	DESCRIPTION	MODEL	MANUFACTURER	LENGTH	WIDTH	HEIGHT	COLOR	FINISH	QUANTITY
1	PRECAST LINEAR BENCH	C-LB72	713 PRECAST LLC	6'-0"	1'-6"	1'-6"	#12 GRAY	EXPOSED AGGREGATE / POLISHED SEATING SURFACE / ANTI-SLIP ALL OTHER SURFACES	42
2	CURB PROTECTION BARRIER	C-CPB	713 PRECAST LLC	1'-6"	6"	8"	#12 GRAY	EXPOSED AGGREGATE / ANTI-SLIP	36
3	PRECAST LINEAR BENCH	C-LB18	713 PRECAST LLC	1'-6"	1'-6"	1'-6"	GRAY	EXPOSED AGGREGATE / ANTI-SLIP	12
4	PRECAST TRASH BIN	C-TB	713 PRECAST LLC	2'-0"	1'-6"	3'-0"	#12 GRAY	EXPOSED AGGREGATE / ANTI-SLIP	9
	PRECAST PAVER	TBD	713 PRECAST LLC	3'-10"	1'-6"	1 ½"	#12 GRAY	EXPOSED AGGREGATE / ANTI-SLIP	14,000 SQ.FT. (VIF)
	PRECAST PAVER	TBD	713 PRECAST LLC	3'-10"	1'-6"	1 ½"	#36 CHARCOAL GRAY	EXPOSED AGGREGATE / ANTI-SLIP	8,000 SQ.FT. (VIF)

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

NO. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez botello fl.c.a. LIC: MXK DCCC III EXP: 10.X.2025

CERTIFICACION / CERTIFICATE / FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 11882, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES, Y QUE LOS MISMOS CUMPLEN Y CERTIFICO QUE ESTÁN DE ACUERDO A LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES EN LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O COMPAÑÍAS PÚBLICAS CON JURISDICCIÓN SOBRE ESTE PROYECTO. FIRMA Y SELLO DE PROFESIONAL CERTIFICO QUE LOS PLANOS Y ESPECIFICACIONES ESTÁN DE ACUERDO CON LA ALMIRÉZ CUMPLIDO CON LA NUMERO DE LICENCIA DE CONSTRUCCIÓN EMITIDA POR LA AGENCIA. FIRMA Y SELLO DE PROFESIONAL CERTIFICO QUE LOS PLANOS Y ESPECIFICACIONES ESTÁN DE ACUERDO CON LA INVERSIÓN POR LA AGENCIA. FIRMA Y SELLO DE PROFESIONAL YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 11882, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES, Y QUE LOS MISMOS CUMPLEN Y CERTIFICO QUE ESTÁN DE ACUERDO A LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES EN LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O COMPAÑÍAS PÚBLICAS CON JURISDICCIÓN SOBRE ESTE PROYECTO. FIRMA Y SELLO DE PROFESIONAL CERTIFICO QUE LOS PLANOS Y ESPECIFICACIONES ESTÁN DE ACUERDO CON LA ALMIRÉZ CUMPLIDO CON LA NUMERO DE LICENCIA DE CONSTRUCCIÓN EMITIDA POR LA AGENCIA. FIRMA Y SELLO DE PROFESIONAL CERTIFICO QUE LOS PLANOS Y ESPECIFICACIONES ESTÁN DE ACUERDO CON LA INVERSIÓN POR LA AGENCIA. FIRMA Y SELLO DE PROFESIONAL

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landscape . architecture . product
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Carolina, PR. 00979 - Office Tel. +1 (787) 236-0839
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Paver Pattern Layout Plan & Details

Key Map



CLIENT

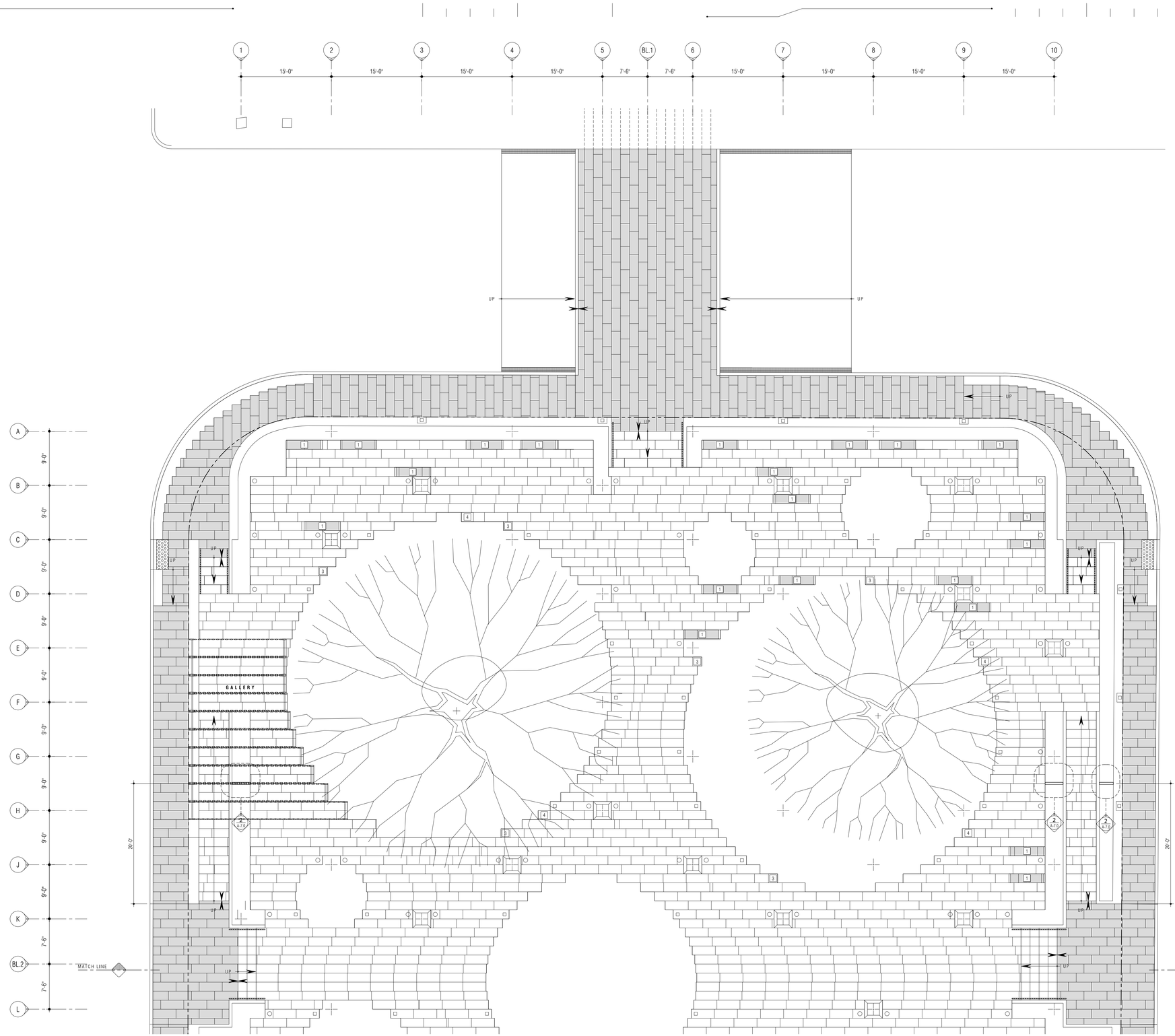
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
43	krs / 26.vi.2024

DESCIPLINE

A-7.0

BID SET January 10, 2025

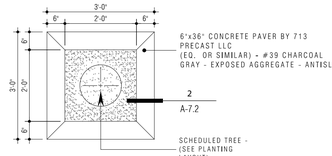


Paver Pattern Layout Plan

A

SCALE : ¼" = 1'-0"

A-7.1

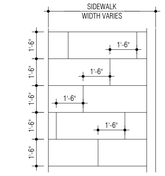


Tree Planter Paver Detail

1

SCALE : ½" = 1'-0"

A-7.1

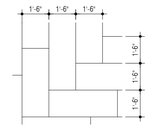


Sidewalk Staggered Detail

2

SCALE : ½" = 1'-0"

A-7.1

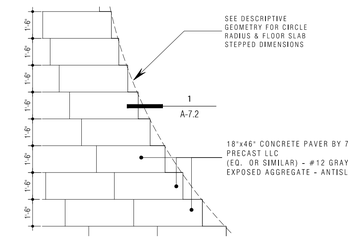


Paver Direction Change Detail

3

SCALE : ½" = 1'-0"

A-7.1



Circular Edge Paver Detail

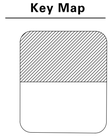
4

SCALE : ½" = 1'-0"

A-7.1

NOTE: ALWAYS START PAVER INSTALLATION ROW AT CIRCULAR EDGES WITH FULL SIZED PAVER.

Key Map



Notes:

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4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez botello PUERTO RICO LIC: MXX DCCC III EXP: 18.X.2025

IDENTIFICACION - COPYRIGHTS / FIRM NAME

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e-mail: info@formationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Paver Pattern Layout Plan & Details Cont.

CLIENT

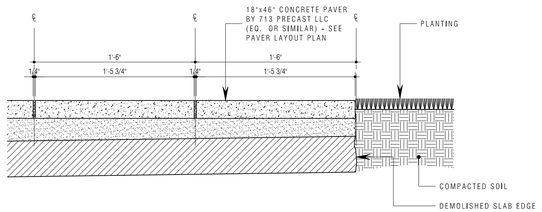
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
44	krs / 26.vi.2024

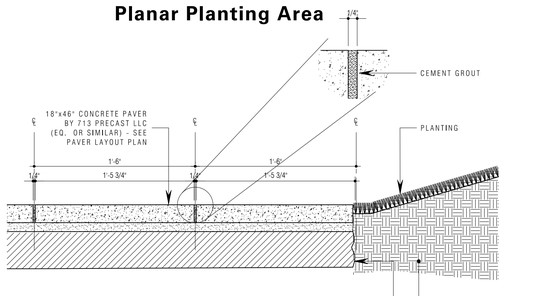
DESCRIBING

A-7.1

BID SET January 10, 2025



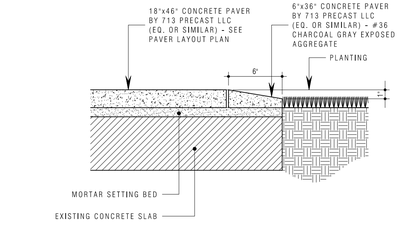
Planar Planting Area



Sloped Planting Area

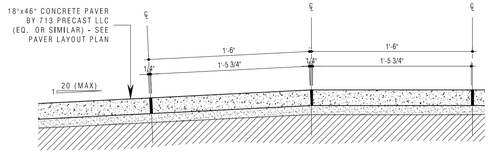
Edge Detail

SCALE : 1-½" = 1'-0" — 1 / A-7.2



Tree Planter Edge Detail (Typ)

SCALE : 1-½" = 1'-0" — 2 / A-7.2



Ramp Detail (Typ)

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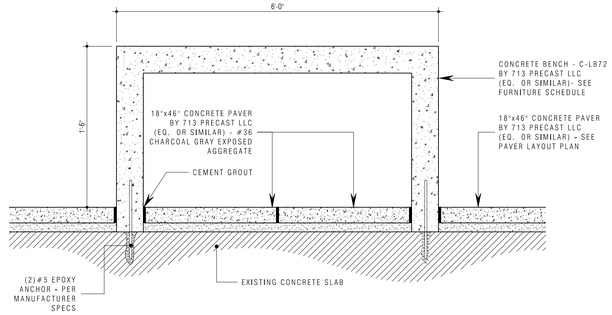
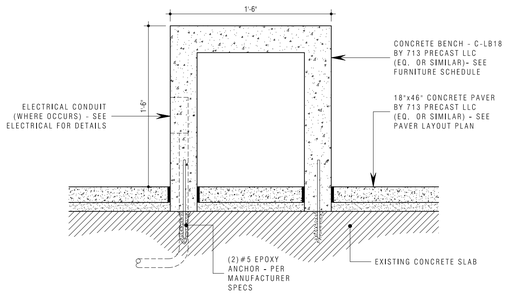


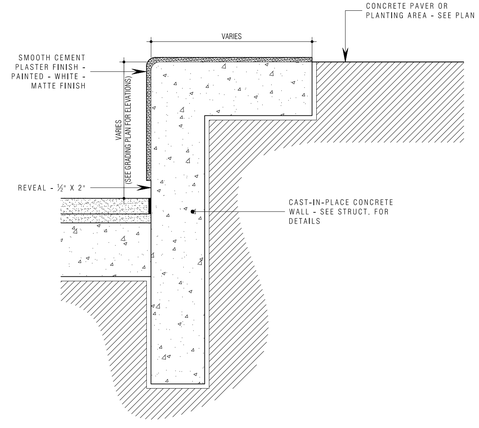
Bench Detail

SCALE : 1-½" = 1'-0" — 5 / A-7.2



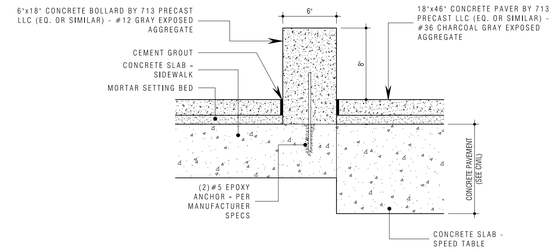
Bench Detail

SCALE : 1-½" = 1'-0" — 6 / A-7.2



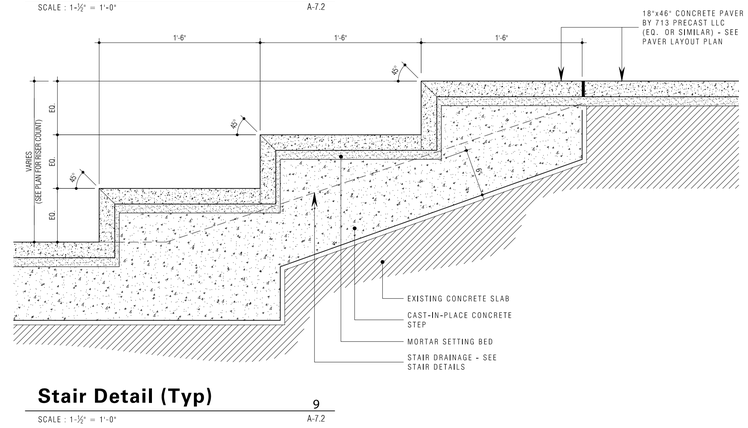
Perimeter Wall Detail (Typ)

SCALE : 1-½" = 1'-0" — 7 / A-7.2



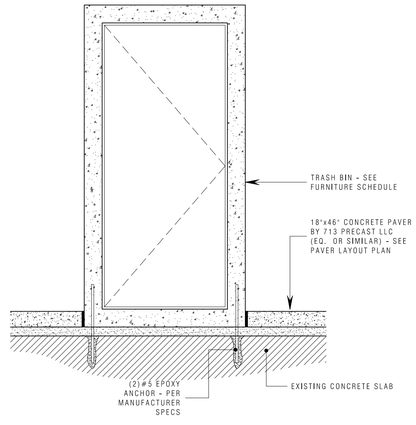
Curb Protection Barrier Detail (Typ)

SCALE : 1-½" = 1'-0" — 8 / A-7.2



Stair Detail (Typ)

SCALE : 1-½" = 1'-0" — 9 / A-7.2



Trash Bin Detail

SCALE : 1-½" = 1'-0" — 10 / A-7.2

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REVISIONS

NO. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

Julián manríquez botello Puerto Rico — LIC: MXX DCCC III EXP: 10.X.2025

IDENTIFICACION - COPYRIGHTS + VIEW NAME

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Carolina, PR. 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Paver & Furniture - Details

CLIENT: Municipality of Canóvanas - Hon. Lorna J. Soto

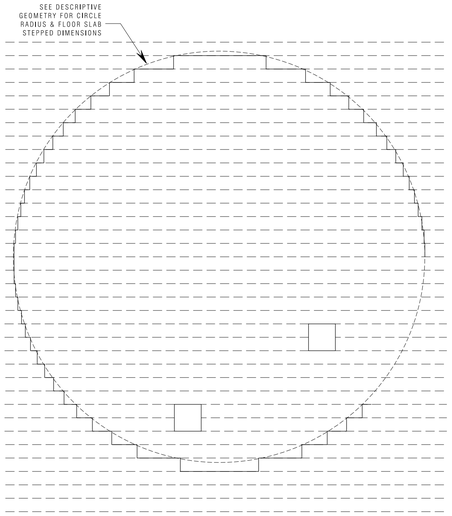
PROJECT #: 22-03 — PROJECT PHASE: Construction Docs - 100%

SHEET #: 45 — DRAWN BY: krs — DATE: 26.vi.2024

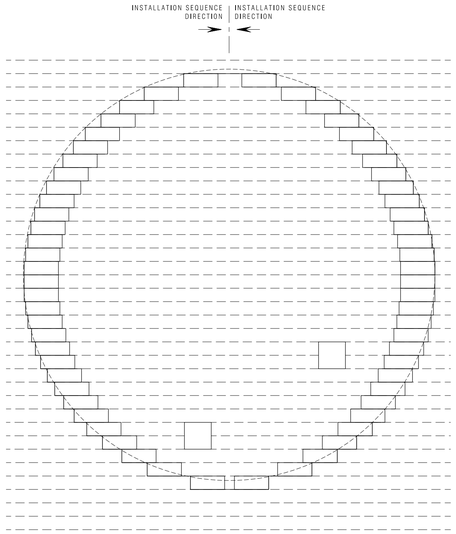
DISCIPLINE

A-7.2

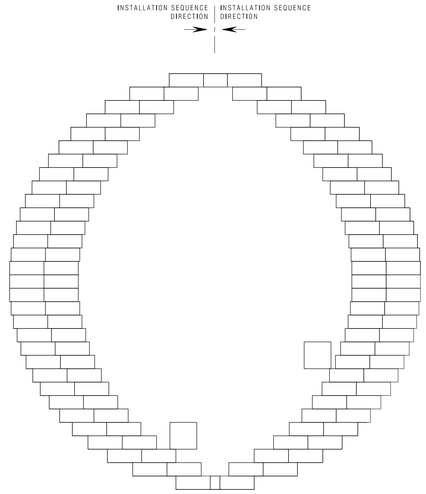
BID SET January 10, 2025



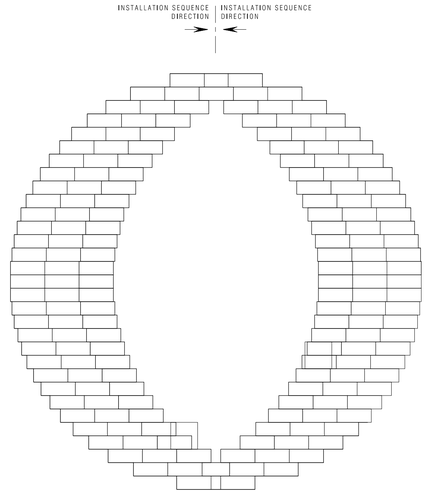
1. LAYOUT PAVER SHORELINES FROM CIRCULAR EDGE TO CIRCULAR EDGE.
2. OFFSET OF SHORELINES TO FOLLOW PAVER WIDTH.



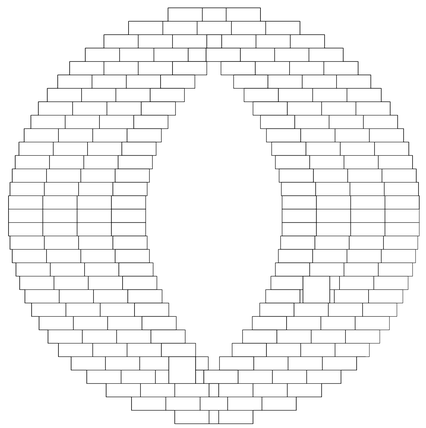
1. LAY FIRST (1ST) PAVER OF EACH ROW, STARTING WITH FULL SIZE PAVER AT EACH END.



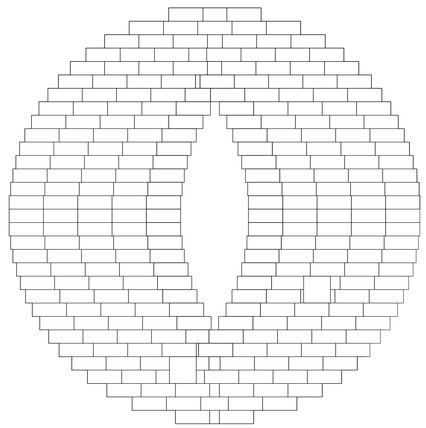
1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. CUT PAVER TO SIZE IN REMAINING SPACES SMALLER THAN ONE (1) FULL PAVER SIZE.



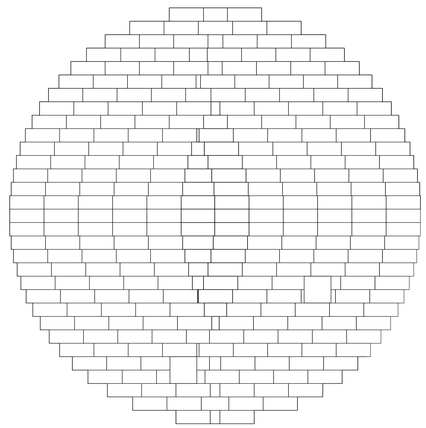
1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. WHERE REMAINING SPACE BETWEEN PREVIOUS PAVER INSTALLATION IS SMALLER THAN TWO (2) FULL SIZED PAVERS, INSTALL FULL SIZE PAVER AT RIGHT SIDE.



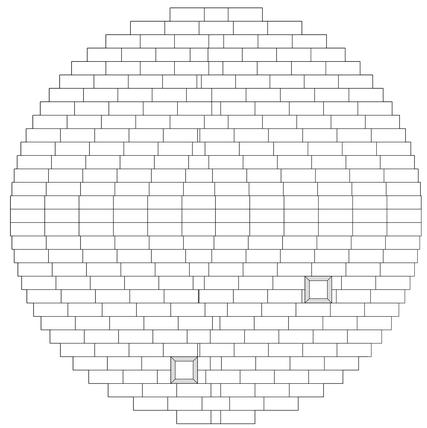
1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. WHERE REMAINING SPACE BETWEEN PREVIOUS PAVER INSTALLATION IS SMALLER THAN TWO (2) FULL SIZED PAVERS, INSTALL FULL SIZE PAVER AT RIGHT SIDE.
3. WHERE PAVER INSTALLATION MEETS PLANTER SPACE, CUT PAVERS TO LEAVE PLANTER OPEN.



1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. WHERE REMAINING SPACE BETWEEN PREVIOUS PAVER INSTALLATION IS SMALLER THAN TWO (2) FULL SIZED PAVERS, INSTALL FULL SIZE PAVER AT RIGHT SIDE.
3. CUT PAVER TO SIZE AT REMAINING SPACE OF EACH ROW.



1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. WHERE REMAINING SPACE BETWEEN PREVIOUS PAVER INSTALLATION IS SMALLER THAN TWO (2) FULL SIZED PAVERS, INSTALL FULL SIZE PAVER AT RIGHT SIDE.
3. CUT PAVER TO SIZE AT REMAINING SPACE OF EACH ROW.



1. INSTALL SPECIFIED PAVERS AT PLANTER PERIMETER. SEE DETAIL 2/L1.

Convex Arc + Convex Arc 1

SCALE : ½" = 1'-0" A-7.3

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez botello Puerto Rico
LIC: MXX DCCC III
EXP: 10.X.2025

IDENTIFICACION - CERTIFICATE - FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19892, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y/O DOCUMENTOS DE CONSTRUCCIÓN AQUÍ MENCIONADOS. CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y/O ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O COMPAÑÍAS PÚBLICAS CON JURISDICCIÓN SOBRE LA OBRA. FIRMO ESTA CERTIFICACIÓN HOY, EN SAN JUAN, PUERTO RICO, HABIENDO CUMPLIDO CON TODOS LOS REQUISITOS APLICABLES DE LA LEY NÚMERO 96 DEL 9 DE JULIO DE 1988, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY ORGÁNICA DE LA JUNTA EXAMINADORA DE ARQUITECTOS Y ARQUITECTAS Y DE LA REGLAMENTACIÓN PARA LA PRÁCTICA DE LA PROFESIÓN DE ARQUITECTURA EN PUERTO RICO", Y LA LEY NÚMERO 90 DEL 9 DE JULIO DE 1988, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY ORGÁNICA DE LA JUNTA EXAMINADORA DE INGENIEROS, AGRIMENSORES, ARQUITECTOS PAISAJISTAS Y PLANIFICADORES DE PUERTO RICO". ESTA CERTIFICACIÓN SE HACE BAJO LA RESPONSABILIDAD PROFESIONAL DE LA PERSONA QUE LA SUSCRIBE Y NO CONSTITUYE UNA GARANTÍA O FIANZA DE NINGÚN TIPO, YA SEA EXPRESA O IMPLÍCITA.

I, JULIÁN MANRÍQUEZ BOTELLO, LICENSE 19892, CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED, COMPILED AND PREPARED THESE PLANS AND/OR CONSTRUCTION DOCUMENTS MENTIONED HEREIN. I CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND/OR SPECIFICATIONS COMPLY WITH THE APPLICABLE REGULATIONS AND CONSTRUCTION CODES IN FORCE OF THE AGENCIES, BOARDS, REGULATIONS OR PUBLIC UTILITY COMPANIES WITH JURISDICTION OVER THE WORK. I SIGN THIS CERTIFICATION TODAY, IN SAN JUAN, PUERTO RICO, HAVING COMPLIED WITH ALL THE APPLICABLE REQUIREMENTS OF LAW NUMBER 96 OF JULY 9, 1988, AS AMENDED, KNOWN AS THE "ORGANIC LAW OF THE EXAMINING BOARD OF ARCHITECTS AND ARCHITECTS AND OF THE REGULATION FOR THE PRACTICE OF THE PROFESSION OF ARCHITECTURE IN PUERTO RICO", AND LAW NUMBER 90 OF JULY 9, 1988, AS AMENDED, KNOWN AS THE "ORGANIC LAW OF THE EXAMINING BOARD OF ENGINEERS, SURVEYORS, ARCHITECTS AND LANDSCAPE ARCHITECTS AND OF THE REGULATION OF THE PROFESSIONS OF ENGINEERING AND LANDSCAPE ARCHITECTURE IN PUERTO RICO". THIS CERTIFICATION IS MADE UNDER THE PROFESSIONAL RESPONSIBILITY OF THE PERSON WHO SUBSCRIBES IT AND DOES NOT CONSTITUTE A GUARANTEE OR BOND OF ANY KIND, EITHER EXPRESS OR IMPLIED.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

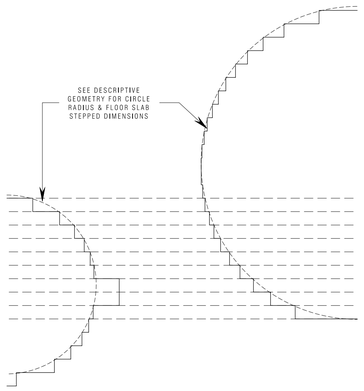
Paper Pattern Layout - Installation Sequence

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

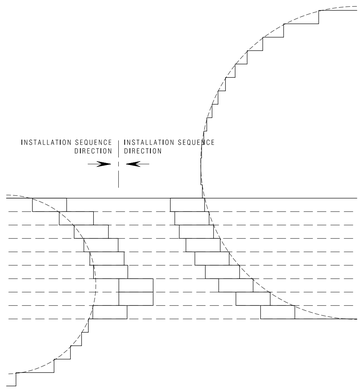
PROJECT # 22-03
PROJECT PHASE Construction Docs - 100%
SHEET # 46
DRAWN BY krs
DATE 26.vi.2024
DISCIPLINE

A-7.3

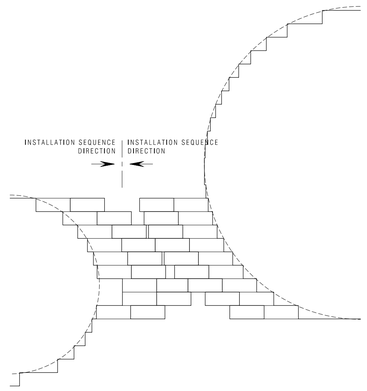
BID SET January 10, 2025



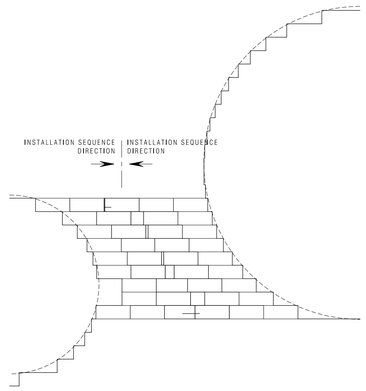
1. LAYOUT PAVER SHORELINES FROM CIRCULAR EDGE TO CIRCULAR EDGE.
2. OFFSET OF SHORELINES TO FOLLOW PAVER WIDTH.



1. LAY FIRST (1ST) PAVER OF EACH ROW, STARTING WITH FULL SIZE PAVER AT EACH END.



1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. WHERE REMAINING SPACE BETWEEN PREVIOUS PAVER INSTALLATION IS SMALLER THAN TWO (2) FULL SIZED PAVER, INSTALL FULL SIZE PAVER AT RIGHT SIDE.



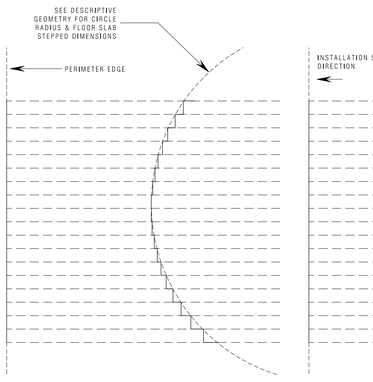
1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. WHERE REMAINING SPACE BETWEEN PREVIOUS PAVER INSTALLATION IS SMALLER THAN TWO (2) FULL SIZED PAVER, INSTALL FULL SIZE PAVER AT RIGHT SIDE.
3. CUT PAVER TO SIZE AT CENTER OF EACH ROW.

Convex Arc + Convex Arc

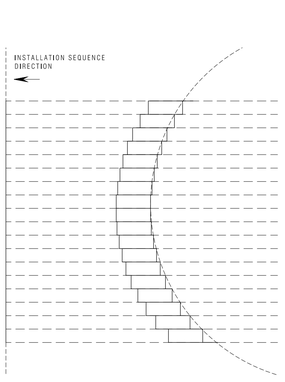
1

SCALE : ⅛" = 1'-0"

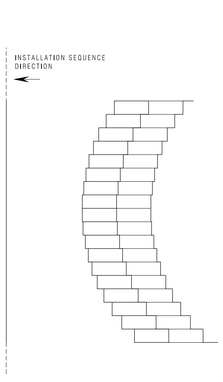
A-7.4



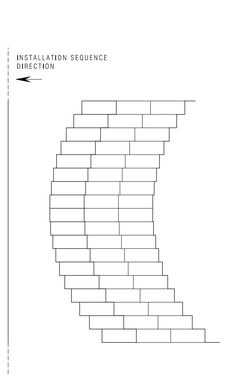
1. LAYOUT PAVER SHORELINES FROM CIRCULAR EDGE TO STRAIGHT EDGE.
2. OFFSET OF SHORELINES TO FOLLOW PAVER WIDTH.



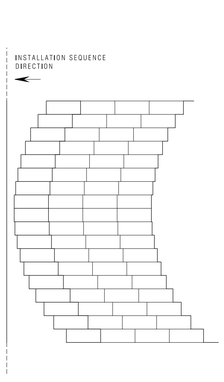
LAY FIRST (1ST) PAVER OF EACH ROW, STARTING WITH FULL SIZE PAVER AT CIRCULAR EDGE.



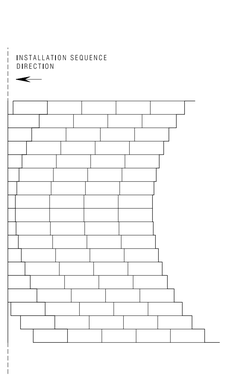
1. CONTINUE FULL SIZE PAVER INSTALLATION FROM CIRCULAR EDGE TOWARDS STRAIGHT EDGE.



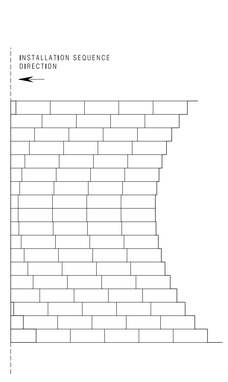
1. CONTINUE FULL SIZE PAVER INSTALLATION FROM CIRCULAR EDGE TOWARDS STRAIGHT EDGE.



1. CONTINUE FULL SIZE PAVER INSTALLATION FROM CIRCULAR EDGE TOWARDS STRAIGHT EDGE.



1. CONTINUE FULL SIZE PAVER INSTALLATION FROM CIRCULAR EDGE TOWARDS STRAIGHT EDGE.
2. CUT PAVERS TO FILL REMAINING GAPS.



CONTINUE FULL SIZE PAVER INSTALLATION FROM CIRCULAR EDGE TOWARDS STRAIGHT EDGE.

Convex Arc + Straight Edge

2

SCALE : ⅛" = 1'-0"

A-7.4

Notes:

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4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez bottello Puerto Rico

LIC: MXX DCCC III
EXP: 10.X.2025

IDENTIFICACION - COPYRIGHTS + FIRM NAME

YO JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19882, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES TÉCNICAS, CONSISTENTES DE 7444 LÁMINAS, CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES EN LAS AGENCIAS, JUNTAS REGLAMENTADORAS O COMPAÑÍAS DE SERVICIOS PÚBLICOS CON JURISDICCIÓN SOBRE LA PARTE O PARTES DE LA OBRA QUE ESTOS PLANOS Y ESPECIFICACIONES CUBREN. DE HABERSE REQUERIDO CUMPLIDO CON ALGUNO DE ESTOS REQUISITOS, ESTOS PLANOS Y ESPECIFICACIONES NO CUMPLEN CON LA LEY NÚMERO 96 DEL 5 DE JULIO DE 1976, SEGÚN ENMENDADA, Y EL REGLAMENTO ADOPTADO AL AMPARO DE DICHA LEY. EL QUE INDEBIDAMENTE Y A SABIENDAS PRESENTE O CAUSE QUE SE PRESENTE ANTE LA OFICINA DE PERMISOS DE PUERTO RICO O ANTE CUALQUIER AGENCIA, JUNTA REGLAMENTADORA O COMPAÑÍA DE SERVICIOS PÚBLICOS CON JURISDICCIÓN SOBRE LA PARTE O PARTES DE LA OBRA QUE ESTOS PLANOS Y ESPECIFICACIONES CUBREN, PLANOS Y ESPECIFICACIONES QUE NO CUMPLAN CON LA LEY NÚMERO 96 DEL 5 DE JULIO DE 1976, SEGÚN ENMENDADA, INCURRIRÁ EN DELITO GRAVE Y, DE HABÉRSELE PROBADO CULPABILIDAD EN EL TRIBUNAL CORRESPONDIENTE, SERÁ CASTIGADO CON PENA DE RECLUSIÓN POR UN TÉRMINO FIJO DE TRES (3) AÑOS. DE MEDIAR CIRCUNSTANCIAS AGRAVANTES, LA PENA FIJA SERÁ DE CINCO (5) AÑOS. DE MEDIAR CIRCUNSTANCIAS ATENUANTES, LA PENA FIJA SERÁ DE DOS (2) AÑOS. EL TRIBUNAL PODRÁ IMPONER LA PENA DE MULTA QUE NO EXCEDA DE CINCO MIL DÓLARES ($5,000) O LA PENA DE CÁRCEL QUE NO EXCEDA DE SEIS (6) MESES, O AMBAS PENAS A LA DISCRECIÓN DEL TRIBUNAL. EL QUE INTENCIONALMENTE Y A SABIENDAS PRESENTE O CAUSE QUE SE PRESENTE ANTE LA OFICINA DE PERMISOS DE PUERTO RICO O ANTE CUALQUIER AGENCIA, JUNTA REGLAMENTADORA O COMPAÑÍA DE SERVICIOS PÚBLICOS CON JURISDICCIÓN SOBRE LA PARTE O PARTES DE LA OBRA QUE ESTOS PLANOS Y ESPECIFICACIONES CUBREN, PLANOS Y ESPECIFICACIONES QUE NO CUMPLAN CON LA LEY NÚMERO 96 DEL 5 DE JULIO DE 1976, SEGÚN ENMENDADA, INCURRIRÁ EN DELITO GRAVE Y, DE HABÉRSELE PROBADO CULPABILIDAD EN EL TRIBUNAL CORRESPONDIENTE, SERÁ CASTIGADO CON PENA DE RECLUSIÓN POR UN TÉRMINO FIJO DE TRES (3) AÑOS. DE MEDIAR CIRCUNSTANCIAS AGRAVANTES, LA PENA FIJA SERÁ DE CINCO (5) AÑOS. DE MEDIAR CIRCUNSTANCIAS ATENUANTES, LA PENA FIJA SERÁ DE DOS (2) AÑOS. EL TRIBUNAL PODRÁ IMPONER LA PENA DE MULTA QUE NO EXCEDA DE CINCO MIL DÓLARES ($5,000) O LA PENA DE CÁRCEL QUE NO EXCEDA DE SEIS (6) MESES, O AMBAS PENAS A LA DISCRECIÓN DEL TRIBUNAL. EL QUE INTENCIONALMENTE Y A SABIENDAS PRESENTE O CAUSE QUE SE PRESENTE ANTE LA OFICINA DE PERMISOS DE PUERTO RICO O ANTE CUALQUIER AGENCIA, JUNTA REGLAMENTADORA O COMPAÑÍA DE SERVICIOS PÚBLICOS CON JURISDICCIÓN SOBRE LA PARTE O PARTES DE LA OBRA QUE ESTOS PLANOS Y ESPECIFICACIONES CUBREN, PLANOS Y ESPECIFICACIONES QUE NO CUMPLAN CON LA LEY NÚMERO 96 DEL 5 DE JULIO DE 1976, SEGÚN ENMENDADA, INCURRIRÁ EN DELITO GRAVE Y, DE HABÉRSELE PROBADO CULPABILIDAD EN EL TRIBUNAL CORRESPONDIENTE, SERÁ CASTIGADO CON PENA DE RECLUSIÓN POR UN TÉRMINO FIJO DE TRES (3) AÑOS. DE MEDIAR CIRCUNSTANCIAS AGRAVANTES, LA PENA FIJA SERÁ DE CINCO (5) AÑOS. DE MEDIAR CIRCUNSTANCIAS ATENUANTES, LA PENA FIJA SERÁ DE DOS (2) AÑOS. EL TRIBUNAL PODRÁ IMPONER LA PENA DE MULTA QUE NO EXCEDA DE CINCO MIL DÓLARES ($5,000) O LA PENA DE CÁRCEL QUE NO EXCEDA DE SEIS (6) MESES, O AMBAS PENAS A LA DISCRECIÓN DEL TRIBUNAL. EL QUE INTENCIONALMENTE Y A SABIENDAS PRESENTE O CAUSE QUE SE PRESENTE ANTE LA OFICINA DE PERMISOS DE PUERTO RICO O ANTE CUALQUIER AGENCIA, JUNTA REGLAMENTADORA O COMPAÑÍA DE SERVICIOS PÚBLICOS CON JURISDICCIÓN SOBRE LA PARTE O PARTES DE LA OBRA QUE ESTOS PLANOS Y ESPECIFICACIONES CUBREN, PLANOS Y ESPECIFICACIONES QUE NO CUMPLAN CON LA LEY NÚMERO 96 DEL 5 DE JULIO DE 1976, SEGÚN ENMENDADA, INCURRIRÁ EN DELITO GRAVE Y, DE HABÉRSELE PROBADO CULPABILIDAD EN EL TRIBUNAL CORRESPONDIENTE, SERÁ CASTIGADO CON PENA DE RECLUSIÓN POR UN TÉRMINO FIJO DE TRES (3) AÑOS. DE MEDIAR CIRCUNSTANCIAS AGRAVANTES, LA PENA FIJA SERÁ DE CINCO (5) AÑOS. DE MEDIAR CIRCUNSTANCIAS ATENUANTES, LA PENA FIJA SERÁ DE DOS (2) AÑOS. EL TRIBUNAL PODRÁ IMPONER LA PENA DE MULTA QUE NO EXCEDA DE CINCO MIL DÓLARES ($5,000) O LA PENA DE CÁRCEL QUE NO EXCEDA DE SEIS (6) MESES, O AMBAS PENAS A LA DISCRECIÓN DEL TRIBUNAL.

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Carolina, PR. 00979 - Office Tel. +1 (787) 236-0939
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñoz, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Paper Pattern Layout - Installation Sequence Cont.

CLIENT

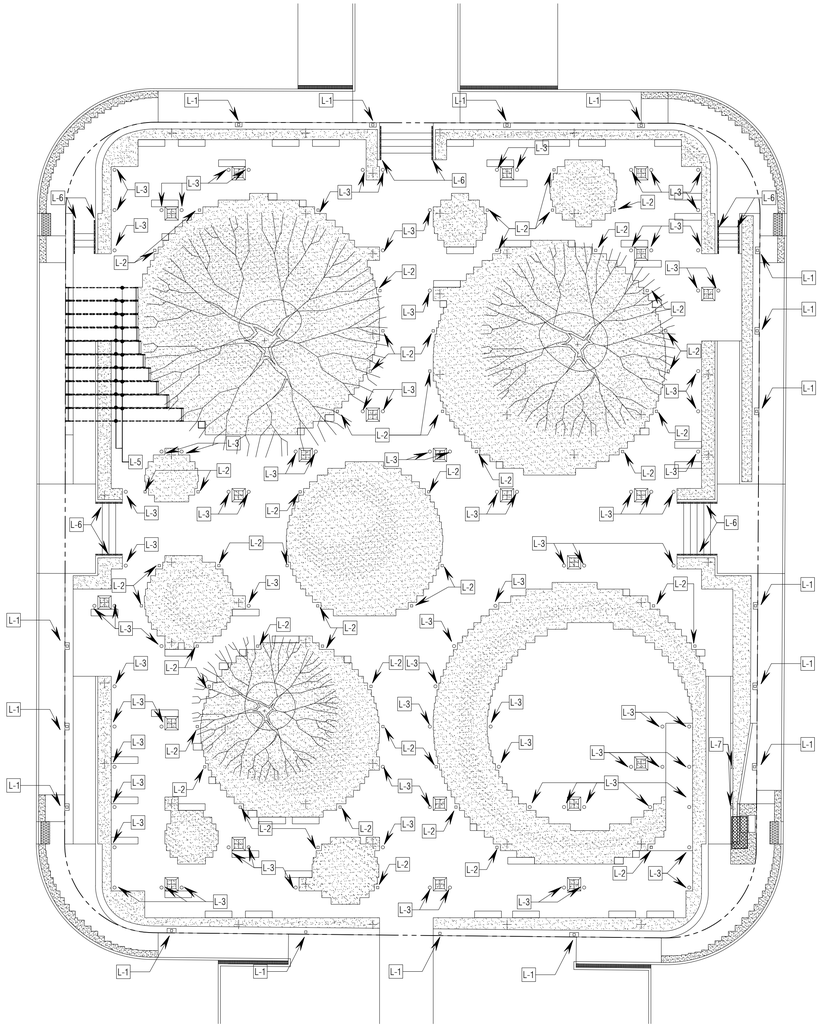
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
47	krs / 26.vi.2024

DISCIPLINE

A-7.4

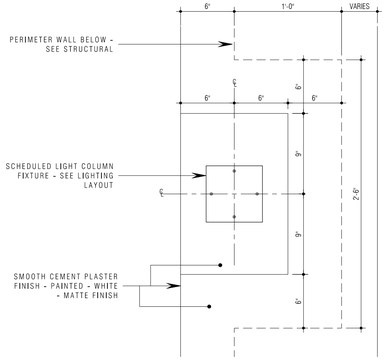
BID SET January 10, 2025



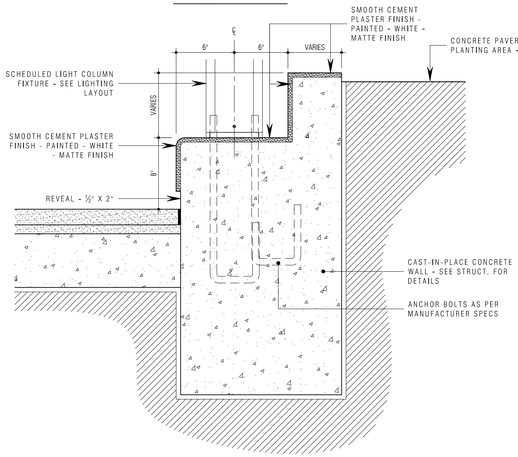
Proposed Lighting Layout Plan

SCALE : 1/16" = 1'-0"

LIGHT FIXTURE SCHEDULE							
ID	DESCRIPTION	HEIGHT	LENGTH	INPUT VOLTAGE (V)	POWER (W)	LOCATION	REQ.
L-1	UVA-20251 VANCOUVER 55 - LIGHT COLUMN - BY LIGMAN LIGHTING	9.8'	-	220 - 240	33	SIDEWALK - SEE LIGHTING LAYOUT	17
L-2	UVA-10151 VANCOUVER 39 - BOLLARD - BY LIGMAN LIGHTING	40"	-	220 - 240	15	VARIES - SEE LIGHTING LAYOUT	52
L-3	LMK-40669- Mask 2 Ingrade 2 Sector 90°/90°	2"	-	220 - 240	8	VARIES - SEE LIGHTING LAYOUT	87
L-5	NEONFLEX PRO V - LINEAR LIGHTING - BY AMERICAN LIGHTING	-	600' (TOTAL LENGTH)	24V DC	3.05 / FT	GALLERY	-
L-6	NEONFLEX PRO V STATIC WHITE - LINEAR LIGHTING - BY AMERICAN LIGHTING	-	9'	24V DC	3.05 / FT	HANDRAIL	10
L-7	HSL13 STATIC WHITE - STEP LIGHT - BY HYDREL	-	-	120 - 277	8	STAGE ENTRY	2



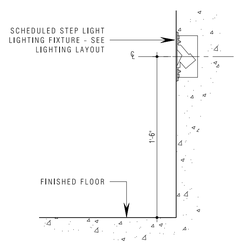
Plan



Section

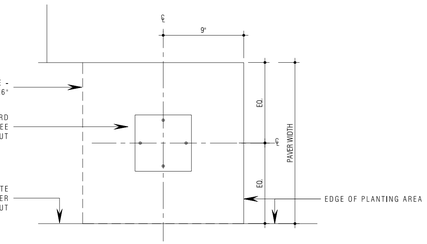
Light Column Fixture Detail

SCALE : 1-½" = 1'-0" — 1 / A-8.0

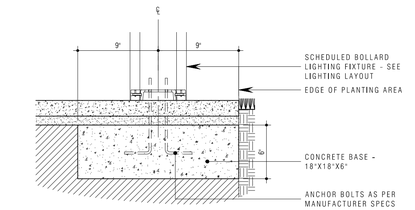


Step Light Fixture Detail

SCALE : 1-½" = 1'-0" — 3 / A-8.0



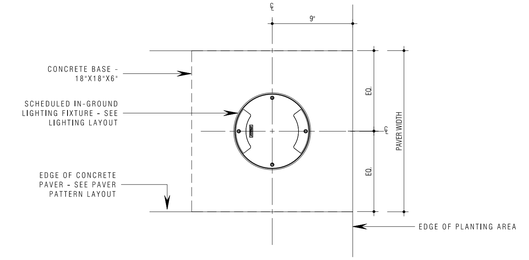
Plan



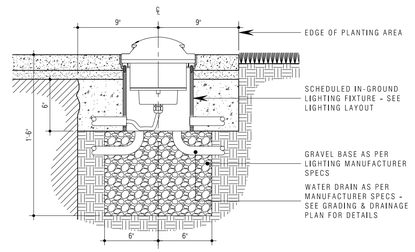
Section

Bollard Light Fixture Detail

SCALE : 1-½" = 1'-0" — 2 / A-8.0



Plan



Section

In-Ground Light Fixture Detail

SCALE : 1-½" = 1'-0" — 4 / A-8.0

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

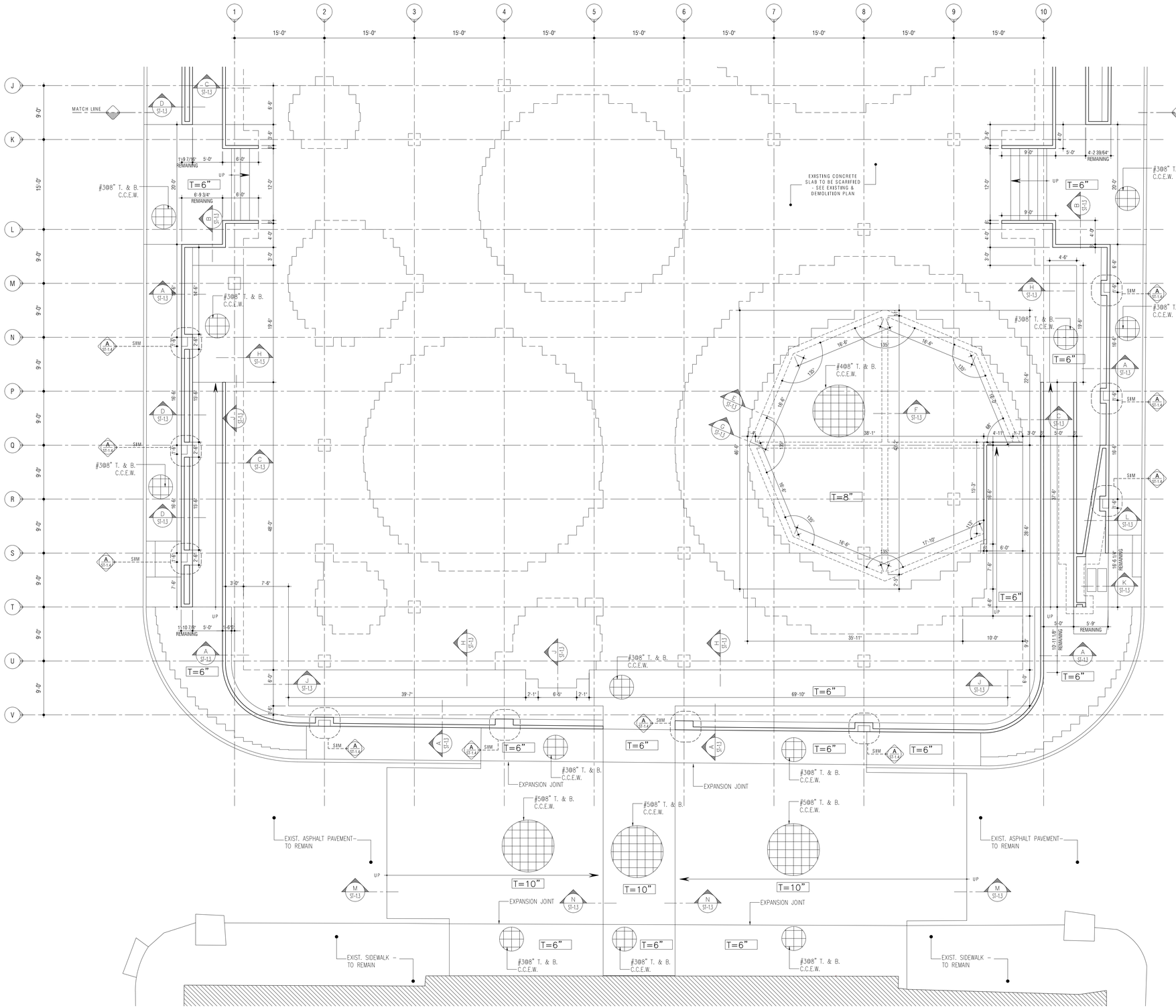
REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

julián manríquez botello Lic. MXK DCCC III EXP: 10.X.2025

CERTIFICACION / CERTIFICATE / FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19802, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y/O ESPECIFICACIONES TÉCNICAS SOMETIDAS, PARA CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O COMPAÑÍAS DE SERVICIOS PÚBLICOS CON JURISDICCIÓN SOBRE LA OBRA. FIRMA Y SELLO DE ESTOS PLANOS Y ESPECIFICACIONES CUMPLIDO CON ALMACENADO EN EL ARCHIVO DE LA DEPENDENCIA. CUALQUIER ENMIENDA POR LA CUAL SE INVALIDE POR LA PRESENTE RECONOCIDO QU CUALQUIER CAMBIO A ESTOS PLANOS Y/O ESPECIFICACIONES SIN EL CONSENTIMIENTO ESCRITO Y POR ESCRITO DE LA FIRMA QUE SUSCRIBE, NO SERÁ RESPONSABLE POR LOS MISMOS. ASIMISMO, NO ASUMIRÁ RESPONSABILIDAD ALGUNA POR EMPLEADOS, O POR OTRAS PERSONAS QUE NO ESTÉN BAJO MI CONTROL Y SUPERVISIÓN DIRECTA. ME HACEN RE FONDA LE SE DISCIPLINA RIA PARA LA CUAL FUI CONTRATADO. ESTARÉ LIBRE DE CUALQUIER RESPONSABILIDAD CIVIL, NO SIENDO ESTUDIO LLC, NO SIENDO MIEMBROS, NI SUS EMPLEADOS, NI SUS AGENTES, NI SUS CONSULTORES, NI SUS CONTRATISTAS, NI SUS SUBCONTRATISTAS, NI SUS AGENTES, NI SUS REPRESENTANTES, NI SUS SUCESORES, NI SUS CESIONARIOS, NI SUS ASIGNADOS, NI SUS PROVEEDORES, NI SUS PROVEEDORES DE SERVICIOS, NI SUS PROVEEDORES DE SERVICIOS DE INTERNET, NI SUS PROVEEDORES DE SERVICIOS DE TELEFONÍA, NI SUS PROVEEDORES DE SERVICIOS DE ELECTRICIDAD, NI SUS PROVEEDORES DE SERVICIOS DE AGUA, NI SUS PROVEEDORES DE SERVICIOS DE GAS, NI SUS PROVEEDORES DE SERVICIOS DE TELEVISIÓN POR CABLE, NI SUS PROVEEDORES DE SERVICIOS DE TELEVISIÓN POR SATÉLITE, NI SUS PROVEEDORES DE SERVICIOS DE TELEVISIÓN POR INTERNET, NI SUS PROVEEDORES DE SERVICIOS DE TELEVISIÓN POR FIBRA ÓPTICA



Foundation Plan

SCALE : ¼" = 1'-0"

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REVISIONS

NO. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

IDENTIFICACION - CERTIFICATE - FIRM NAME

Yo, José O. González García, Ingeniero 6588, certifico que soy el profesional que diseñó, confeccionó y preparó los planos, diseños y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras o corporaciones públicas concernientes. También certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido estrictamente con lo dispuesto en la ley 144-2004, según enmendada, conocida como la "ley para la reforma de la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1978, según enmendada, respecto a que cualquier declaración falsa o fabricación de los hechos que se haya hecho en el mejor conocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

YO, JOSÉ O. GONZÁLEZ GARCÍA, INGENIERO 6588, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS, DISEÑOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CONCERNIENTES. TAMBIÉN CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO ESTRICTAMENTE CON LO DISPUESTO EN LA LEY 144-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REFORMA DE LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚM. 96 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, RESPECTO A QUE CUALQUIER DECLARACIÓN FALSA O FABRICACIÓN DE LOS HECHOS QUE SE HAYA HECHO EN EL MEJOR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Foundation Plan

Key Map

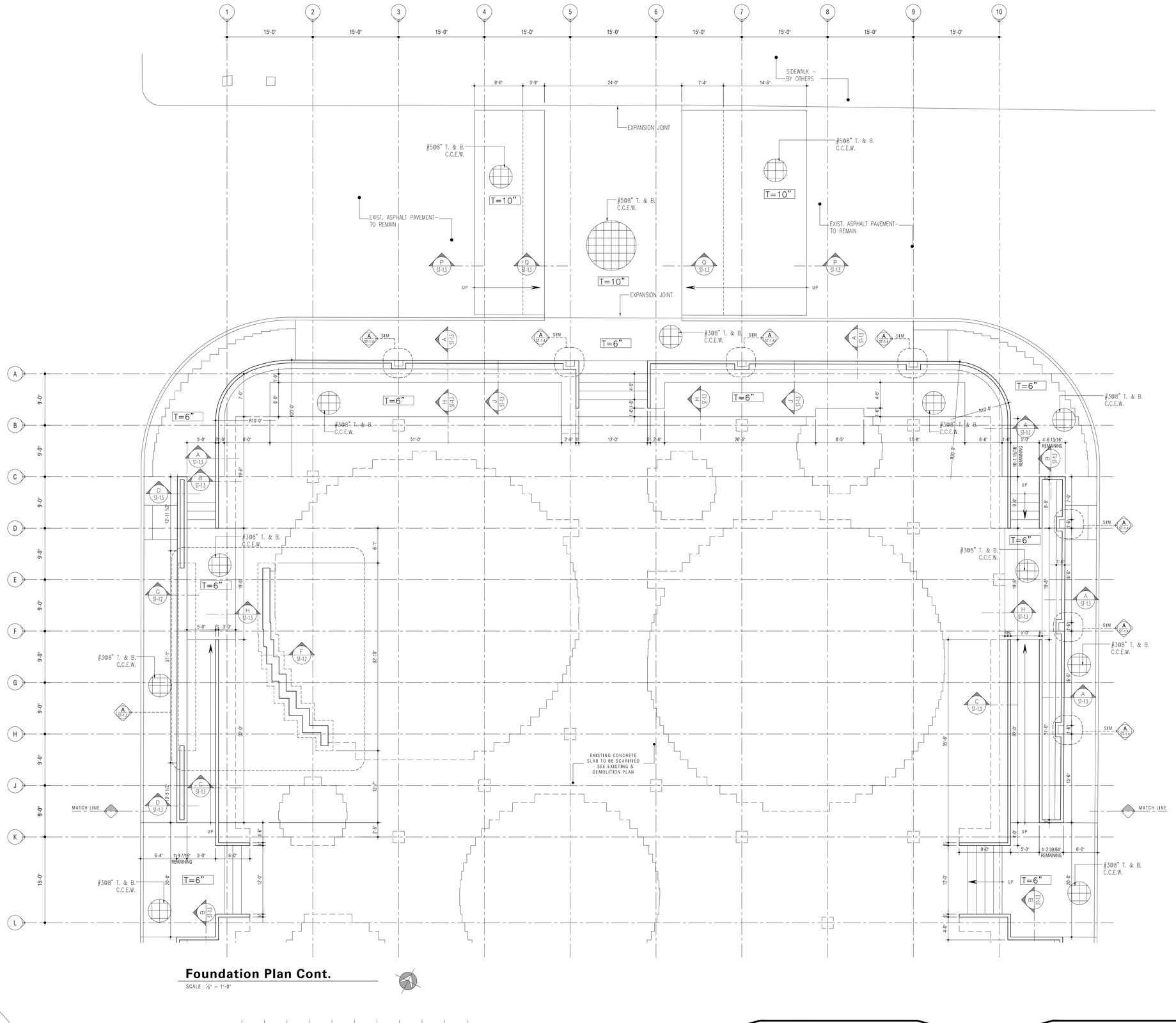
CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
49	krs / 26.vi.2024

DRAWING

ST-1.0

BID SET January 10, 2025



Foundation Plan Cont.

SCALE : ¼" = 1'-0"

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REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSÉ O. GONZÁLEZ
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

Yo, José O. González García, licencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, juntas reglamentadoras o corporaciones públicas con jurisdicción, certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la inversión por la industria puertorriqueña" y con la ley núm. 99 de 6 de julio de 1978, según enmendada, reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

YO, JULIAN MARRIQUEZ BOTELLO, LICENCIA 19863, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 99 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPe.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Foundation Plan Cont.

Key Map

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

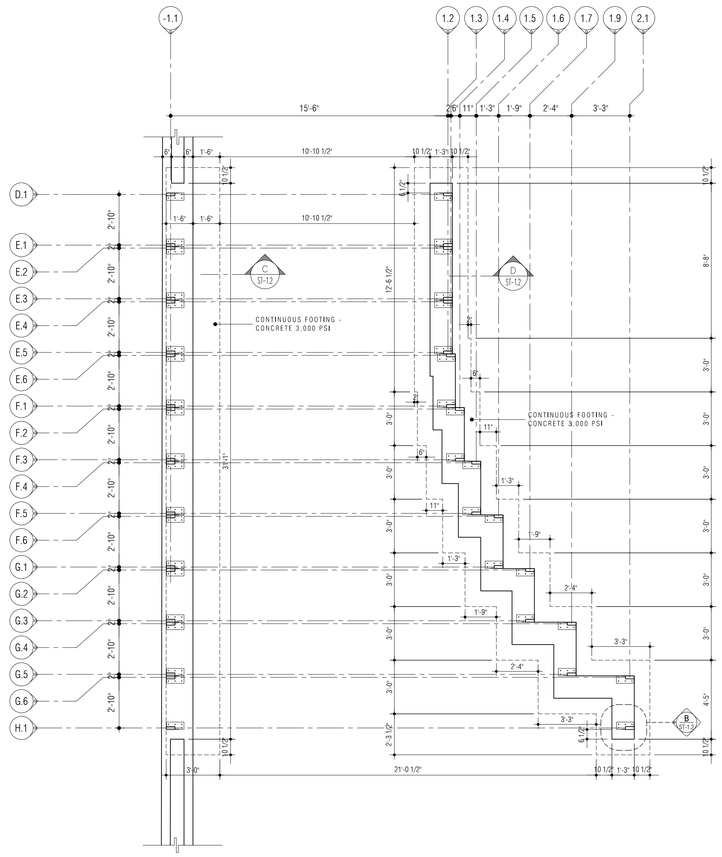
PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
50	krs	26.vi.2024

DISCIPLINE

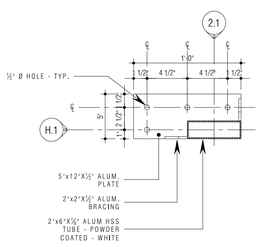
ST-1.1

BID SET January 10, 2025



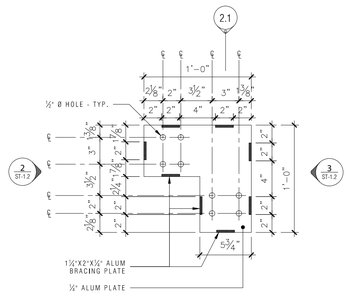
Gallery - Foundation Plan A

SCALE : ¼" = 1'-0" ST-1.2



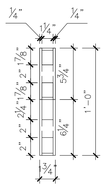
Base Plate Detail B

SCALE : 1-½" = 1'-0" ST-1.2



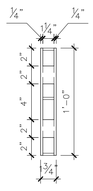
Column/Beam Joint Plate Detail 1

SCALE : 1-½" = 1'-0" ST-1.2



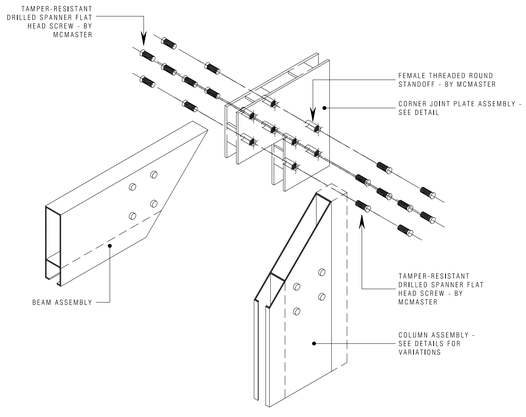
Base Plate Detail 2

SCALE : 1-½" = 1'-0" ST-1.2



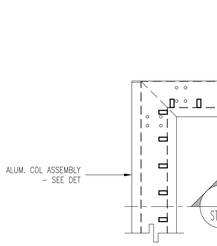
Base Plate Detail 3

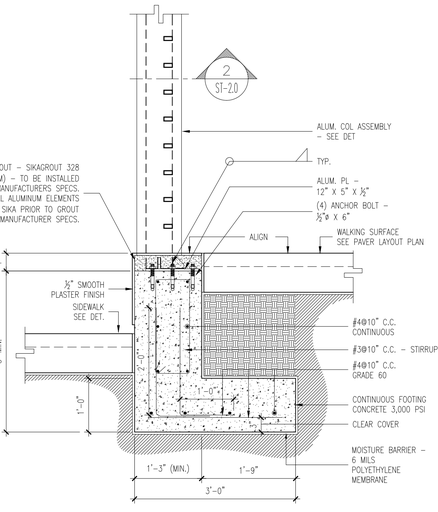
SCALE : 1-½" = 1'-0" ST-1.2



Connection Assembly E

NOT TO SCALE ST-1.2





FOOTING SECTION C

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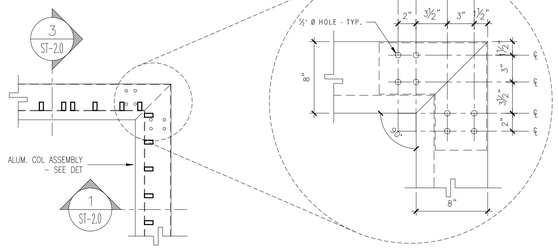

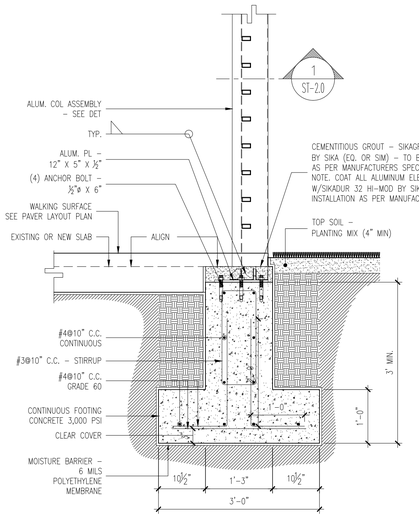

FOOTING SECTION D

SCALE=3/4"=1'-0" ST-1.2

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REVISIONS

NO. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSE O. GONZALEZ INGENIERO LICENCIADO LIC. #6588 PUERTO RICO

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CERTIFICACIÓN - CERTIFICATE / FIRM NAME

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñoz, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

SHEET TITLE

Gallery Foundation Plan & Details

CLIENT

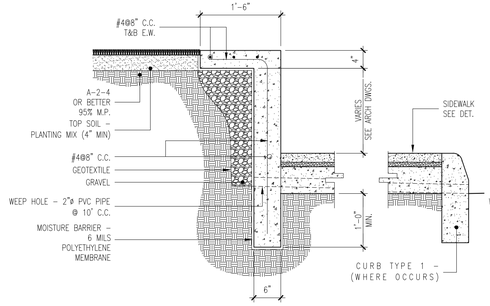
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
51	krs / 26.vi.2024

DESCIPLINE

ST-1.2

BID SET January 10, 2025



FOOTING SECTION A
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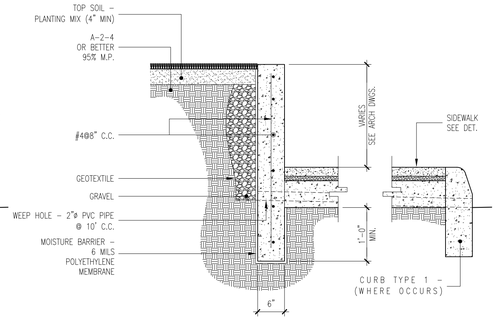

FOOTING SECTION B
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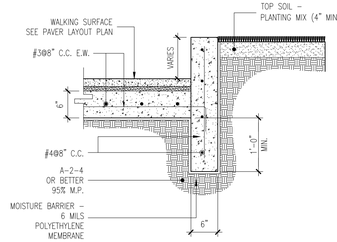

FOOTING SECTION C
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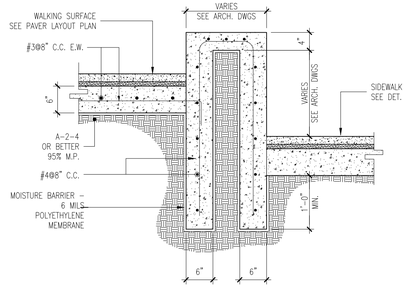

FOOTING SECTION D
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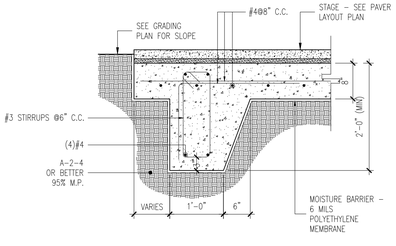
ST-1.3



FOOTING SECTION E
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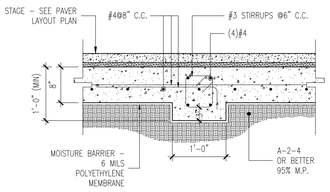
ST-1.3



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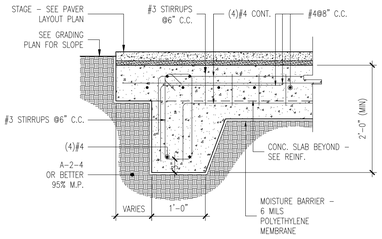
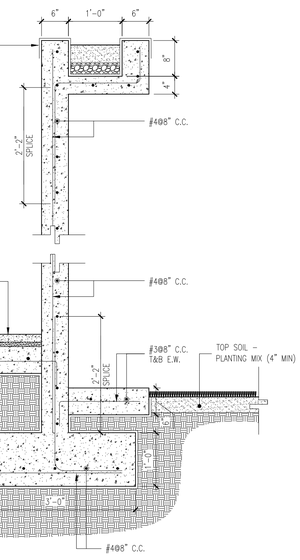
ST-1.3



FOOTING SECTION G
SCALE=3/4"=1'-0"
ST-1.3

FOOTING SECTION H
SCALE=3/4"=1'-0"
ST-1.3

FOOTING SECTION J
SCALE=3/4"=1'-0"
ST-1.3



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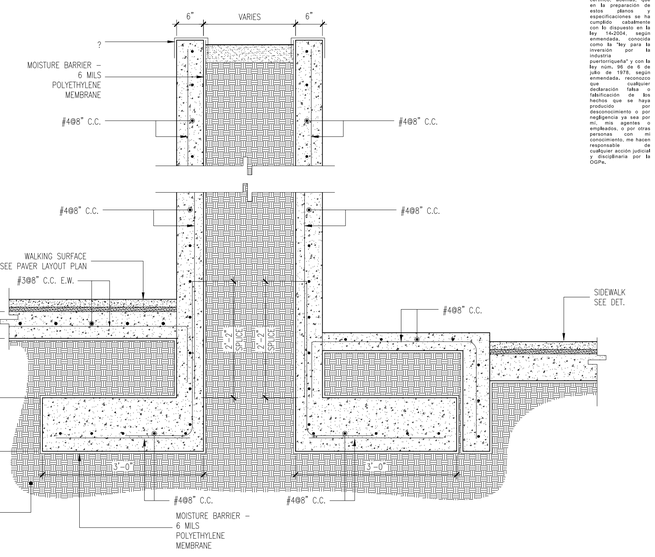

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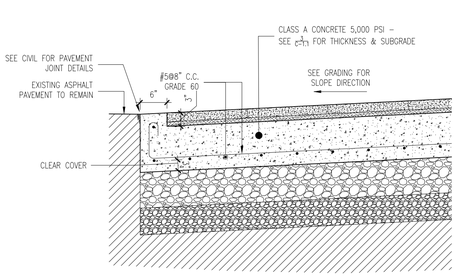
ST-1.3



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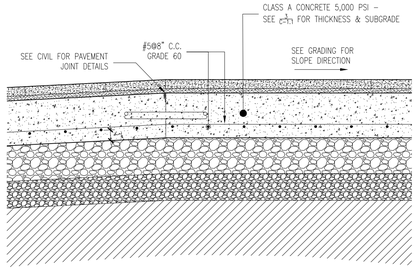

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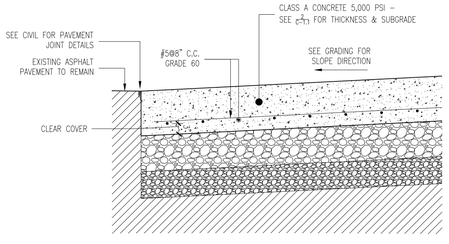

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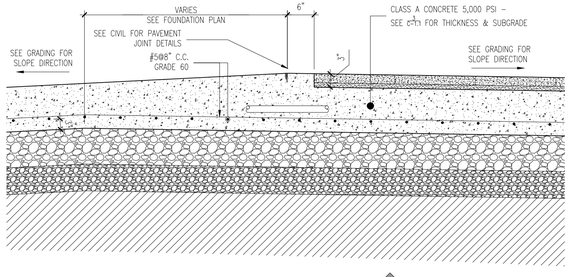

FOOTING SECTION Q
SCALE=3/4"=1'-0"
ST-1.3

Notes:

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2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS		
REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSE O. GONZALEZ
INGENIERO
LICENCIADO
LIC. #6588
PUERTO RICO

IDENTIFICACION - CERTIFICATE / FIRM NAME

Yo, José O. González García, Ingeniero Civil, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y normas gubernamentales vigentes de las agencias, Juntas reglamentadoras o corporaciones públicas que tengan jurisdicción sobre el mismo, además, que en la preparación de estos planos y especificaciones se ha cumplido estrictamente con lo dispuesto en la ley 144-2004, según enmendada, conocida como la "ley para la reforma de la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1976, según enmendada, mediante la cual cualquier declaración falsa o fabricación de los hechos que se haya realizado con conocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

YO, JOSÉ O. GONZÁLEZ GARCÍA, INGENIERO CIVIL, LICENCIADO BAJO LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS. CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y NORMAS GUBERNAMENTALES VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS QUE TENGAN JURISDICCIÓN SOBRE EL MISMO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO ESTRICTAMENTE CON LO DISPUESTO EN LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REFORMA DE LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 84 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA, MEDIANTE LA CUAL CUALQUIER DECLARACIÓN FALSA O FABRICACIÓN DE LOS HECHOS QUE SE HAYA REALIZADO CON CONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

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Carolina, PR. 00979 - Office Tel. +1 (787) 236-0939
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

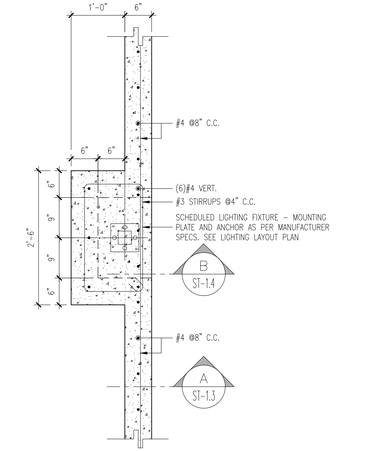
Foundation Details

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
52	krs 26.vi.2024

DISCIPLINE
ST-1.3

BID SET January 10, 2025



LIGHT COLUMN FIXTURE BASE — A / ST-1.4

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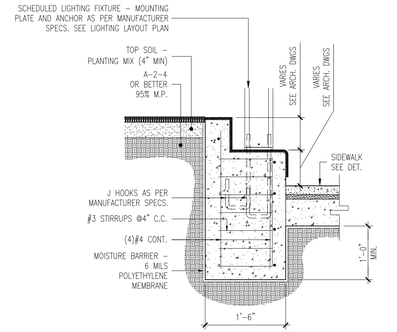

FOOTING SECTION — B / ST-1.4

SCALE=3/4"=1'-0"

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSE O. GONZALEZ
INGENIERO
LICENCIADO
LIC. #6588
PUERTO RICO

Yo, José O. González García, Ingeniero, 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras y corporaciones públicas con jurisdicción sobre certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido en todo aspecto con lo dispuesto en la ley 144-2004, según enmendada, conocida como la "ley para la reforma por la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1976, según enmendada, responsable que cualquier declaración falsa o fabricación de los hechos que se haya hecho por mi, con conocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JOSÉ O. GONZÁLEZ GARCÍA, INGENIERO, 6588, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO EN TODO ASPECTO CON LO DISPUESTO EN LA LEY 144-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REFORMA POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA, RESPONSABLE QUE CUALQUIER DECLARACIÓN FALSA O FABRICACIÓN DE LOS HECHOS QUE SE HAYA HECHO POR MÍ, CON CONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Foundation Details Cont.

CLIENT: Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #: 22-03

PROJECT PHASE: Construction Docs - 100%

SHEET #: 53

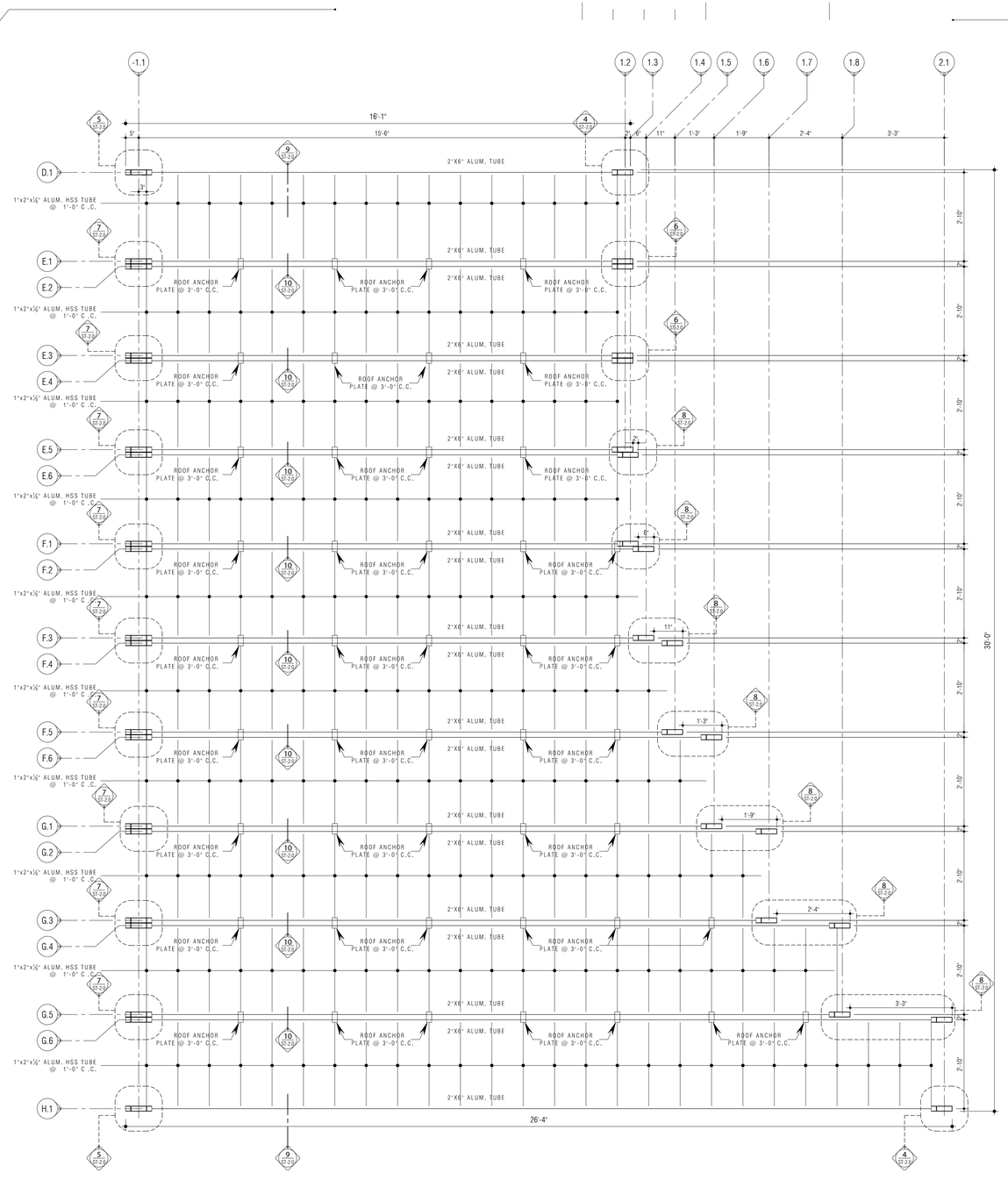
DRAWN BY: krs

DATE: 26.vi.2024

DISCIPLINE

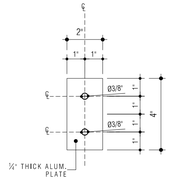
ST-1.4

BID SET January 10, 2025



Gallery - Structural Plan

SCALE : ½" = 1'-0"



Roof Anchor Plate Detail 11

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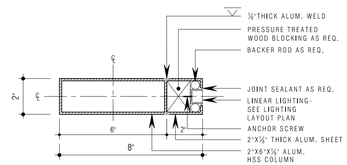

Column Type A 1

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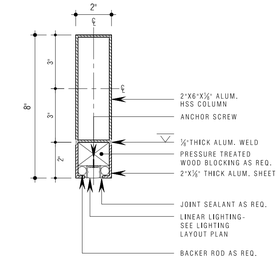

Beam Type A 3

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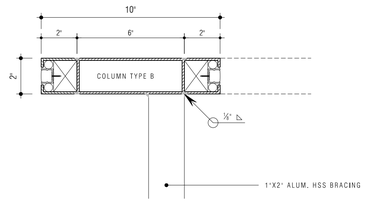

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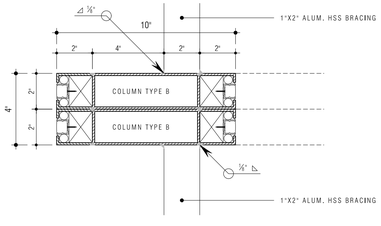

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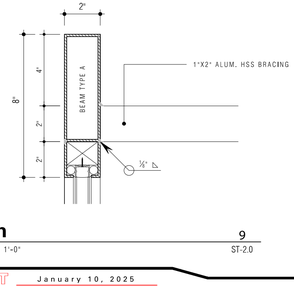
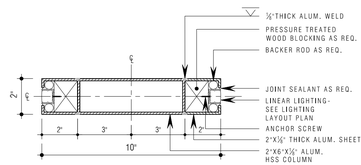


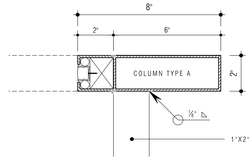
Beam 9

SCALE : 3" = 1'-0" ST-2.0



Column Type B 2

SCALE : 3" = 1'-0" ST-2.0



Column 4

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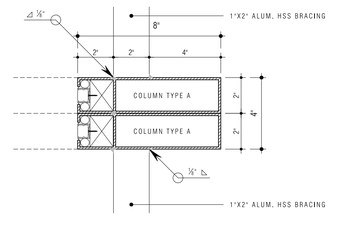

Column 6

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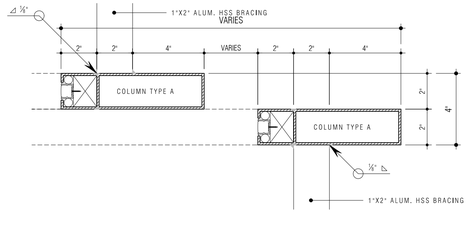
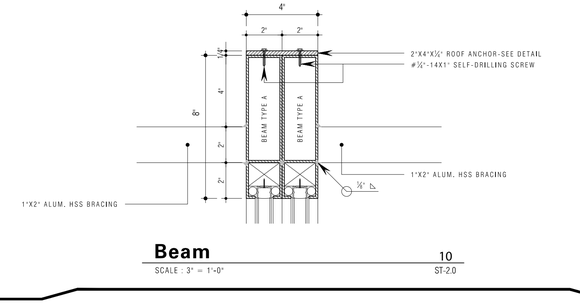


Column 8

SCALE : 3" = 1'-0" ST-2.0

Beam 9

SCALE : 3" = 1'-0" ST-2.0



Beam 10

SCALE : 3" = 1'-0" ST-2.0

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA INGENIERO LICENCIADO LIC. #6588 PUERTO RICO

CERTIFICACION / CERTIFICATE / FIRM NAME

Yo, José O. González García, Ingeniero 6588, certifico que soy el profesional que diseñó, confeccionó y preparó los planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos estatales vigentes de las agencias, Juntas reglamentadoras o corporaciones públicas concernientes. También certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido estrictamente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la reglamentación por la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1976, según enmendada, sobre que cualquier declaración falsa o fabricación de los hechos que se haya cometido por mi desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

YO, JOSÉ O. GONZÁLEZ GARCÍA, RÚBRICA 15865, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. TAMBIÉN CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO ESTRICTAMENTE CON LO DISPUESTO EN LA LEY NÚMERO 96 DE 6 DE JULIO DE 1976, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REGLAMENTACIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 96 DE 6 DE JULIO DE 1976, SEGÚN ENMENDADA, SOBRE QUE CUALQUIER DECLARACIÓN FALSA O FABRICACIÓN DE LOS HECHOS QUE SE HAYA COMETIDO POR MI DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Gallery Structural Plans & Details

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
54	rdc 26.vi.2024

DISCIPLINE

ST-2.0

BID SET January 10, 2025

STRUCTURAL NOTES, GENERAL DETAILS & DEMOLITION SEQUENCE

DESIGN & CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS AND PROVISION OF THE FOLLOWING CODES AND SPECIFICATIONS:

1. AMERICAN CONCRETE INSTITUTE
2. UNIFORM BUILDING CODE, UBC 1997
3. AMERICAN SOCIETY FOR TESTING AND MATERIALS
4. CONCRETE REINFORCING STEEL INSTITUTE
5. AMERICAN WELDING SOCIETY
6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION

DESIGN LOADS:

1. GRAVITARY LIVE LOADS (100 PSF OPEN TERRACE) . . . . . UBC 1997
2. GRAVITARY LIVE LOADS (40 PSF ROOF) . . . . . UBC 1997
3. WIND LOADS. ASCE–7
4. EARTHQUAKE LOADS. . . . . UBC 1997

CAST–IN–PLACE REINFORCED CONCRETE:

1. CONCRETE SHALL HAVE A 28–DAY ULTIMATE COMPRESSIVE STRENGHT AS SET FORTH BELOW:
   A. WALLS, SLAB, BEAMS ..... 4,000 PSI.
   B. ALL OTHERS ..... 4,000 PSI.
2. SLUMP OF CONCRETE SHALL NOT EXCEED 4" UNLESS A HIGH RANGE WATER–REDUCING ADMIXTURE IS USED. THE SLUMP OF CONCRETE PRIOR TO ADDITION OF A HIGH RANGE WATER–REDUCING ADMIXTURE SHALL NOT EXCEED 4". THE SLUMP OF CONCRETE CONTAINING A HIGH RANGE WATER–REDUCING ADMIXTURE SHALL NOT EXCEED 10".
3. CONCRETE EXPOSED TO WEATHER SHALL BE AIR–ENTRAINED. AIR CONTENT SHALL BE BETWEEN 4 AND 8 PERCENT.
4. THE NOMINAL COARSE AGGREGATE SIZE SHALL BE A MIMINUN OF 3/4" IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL
5. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STREGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS FOR EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY A REGISTERED LICENSED ENGINEER. PHYSICAL TESTS RESULTS FOR COARSE AND FINE AGGREGATES SHALL ALSO BE SUBMITTED CERTIFIEDX BY A REGISTERED ENGINEER.
6. REINFORCING SHALL CONFORM TO ASTM A615, GR60, UNLESS NOTED OTHERWISE ON SPECS AND/OR DRAWINGS.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
8. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH ACI DETAILING MANUAL 1994 (SP–66)
9. ALL REINFORCING SHALL BE SUPPORTED IN FORMS USING STEEL CHAIRS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH CRSI "MANUAL OF STANDAR PRACTICE" (1989).
10. MINIMUN CONCRETE COVER, UNLESS NOTED OTHERWISE, AS FOLLOWS:
    UNFORMED SURFACE IN CONTACT WITH THE GROUND . . . . . 3 IN.
    FORMED SUFACES EXPOSED TO EARTH OR WEATHER
    #6 BARS AND LARGER..... 2 IN.
    #5 BARS AND SMALLER..... 1–1/ IN.
    FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
    BEAMS, GIRDERS, COLUMNS, AND GRADE BEMAS.. 1–1/2 IN.
    SLABS, WALLS
    #11 BARS AND SMALLER..... 3/4 IN.
    #14 AND #18 BARS..... 1–1/2 IN.
11. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE, WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "C" SPLICES.

BAR SIZE	TOP BARS A	TOP BARS B	TOP BARS C	OTHER BARS A	OTHER BARS B	OTHER BARS C	COMPRESSION SPLICES (INCHES)
#3	13	16	21	12	12	15	12
#4	17	22	29	12	16	20	15
#5	21	27	36	15	20	26	19
#6	27	35	46	19	25	32	23
#7	37	48	63	26	34	44	26
#8	48	63	82	35	46	60	30
#9	61	80	104	44	57	75	34
#10	78	101	132	56	73	95	38
#11	96	124	163	68	88	116	42

COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS
LAP WELDED WIRE FABRIC ONE SPACING OF CROSS WIRES PLUS 2".

12. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.
13. CONCRETE WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATIONS.
14. ALL SYMBOLS AND STRESSES AS WELL AS CONCRETE WORK SHALL CONFORM TO THE LATEST STANDARD OF THE AMERICAN CONCRETE INSTITUTE (ACI–318–95).
15. ALL SLAB AND CORRESPONDING BEAMS, CURBS, OR APRONS SHALL BE POURED MONOLITHICALLY.
16. ALL SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE IN PLACE BEFORE CONCRETE IS POURED.
17. ALL OPENINGS IN CONCRETE WALLS SHALL BE REINFORCED AROUND WITH 2#5 BARS PLACED AT 2 INCHES FROM THE FACE AND EXTENDING 24 INCHES BEYOND CORNERS, UNLESS OTHERWISE SPECIFIED IN PLANS.
18. TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN ALL ONE WAY SLAB NORMAL TO THE PRINCIPAL REINFORCEMENT IN ACCORDANCE WITH ACI–318–95 BUILDING CODE.
19. FOR CONSTRUCTION JOINTS IN STRUCTURAL MEMBERS A VERTICAL BULKHEAD AND KEY JOINT MUST BE PROVIDED.
20. ALL NEGATIVE REINFORCEMENT (TOP REINF.) AND POSITIVE REINFORCEMENT, (BOTTOM REINF.) IN SLABS AND BEAMS SHALL BE EXTENDED BEYOND THE CENTER LINE OF THE END SUPPORTS IN ACCORDANCE WITH ACI–318–95 BUILDING CODE, UNLESS OTHERWISE SPECIFIED.
21. SLAB ON GROUND, AS INDICATED ON DRAWINGS.
22. FOR CONCRETE FORMWORK, SURFACE FINISHING, BEVELED CORNERS AND DRIPS, SEE ARCHITECTURAL PLANS.
23. PROVIDE DOWELS IN WALL AND COLUMN FOOTINGS EQUAL IN SIZE AND NUMBER TO VERTICAL REINFORCEMENT, EXTENDING A TENSION SPLICE LENGTH INTO WALL OR COLUMN AND 40 BAR DIAMETER INTO FOOTING. (THE LATERAL EMBEDMENT SHALL BE EXTENDED AS NECESSARY TO PROVIDE A MIMINUM HORIZONTAL LEG RESTING ON FOOTING REINFORCEMENT EQUAL TO THE CORRESPONDING "C" LENGTH FOR THE BAR SIZE.)
24. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALL) SO AS TO CAUSE SEGREGATION OF AGGREGATES IN SUCH CASES, HOOPERS OR VERTICAL CHUTES OR TRUNKS SHALL BE USED. THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED THE ABOVE REQUIREMENTS.
25. THE SIZE OF NAILS AND SIMILAR FASTENERS DRIVEN INTO CONCRETE SHALL BE SUCH, AS NOT TO CRACK OR IMPAIR IT. NEVERTHELESS, IF THE CONCRETE IS DAMAGED, IT SHALL BE PROPERLY REPAIRED AFTER REMOVING THE DAMAGED PORTION AND SUITABLE JOINT SURFACE ARE PROVIDED.
26. ALL FORMWORK FOR FLEXURAL MEMBERS SHALL BE BUILT WITH A CAMBER CORRESPONDING TO ITS WON DEFORMATION PLUS THE STRUCTURE DEAD LOAD DEFORMATIONS. IN DETERMINIG THE AMOUNT OF CAMBER, THE CONTRACTOR SHALL HAVE THE ASSISTANCE OF THE DESIGNER WHERE SO REQUESTED.
27. ALL CAST IN PLACE REINFORCED CONCRETE STRUCTURAL MEMBERS SHALL BE PROPERLY CURED IN ACCORDANCE WITH ACI–318–95 CHAPTER V.
28. ALL REINFORCING BARS SHALL BE HIGH TENSILE DEFORMED MEETING ASTM A–615 GRADE 60.
29. ALL LAPPING, BENDING AND PLACING OR REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH ACI–318–95 BUILDING CODE.

STRUCTURAL STEEL

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
   ALL ANGLES, CHANNELS, ANGLES, PLATES, ETC. A36
   STRUCTURAL TUBE . . . . . A500 (Fy=46)
   STEEL PIPE . . . . . A53 (Fy=35)
   ANCHOR BOLTS AND UNFINISHED BOLTS A307
   BOLTS, NUTS AND WASHERS A325
   WELDING ELECTRODES . . . . . E333, CLASS E 7018XX
   UNLESS OTHERWISE CALL FOR IN DRAWINGS.
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE 1990). EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS AND/OR DRAWINGS.
3. THE STEEL STRUCTURE IS A PARTIAL–SELF–SUPPORTING STEEL RIGID FRAME AND IS DEPENDENT UPON DIAPHRAGM ACTION OF THE METAL ROOF DECK AND ATTACHMENT TO THE MASONRY WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETED AND ARE CAPABLE OF PROVIDING THIS LATERAL SUPPORT.
4. THE FABRICATOR IS RESPONSIBLE FOR THE SHOP DRAWINGS OF ALL CONNECTONS. CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE FABRICATOR'S ENGINEER WITH THE ENGINEER'S SEAL. ENGINEER'S MAY BE QUALIFIED FOR DETAILING OF CONNECTIONS ONLY"
5. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
6. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. UNLESS NOTED OTHERWISE, ANCHOR BEAMS TO MASONRY WITH TWO (2) 3/4" DIAMETER ANCHOR BOLTS WITH 4" HOOK (OR 1'–4" EMBEDMENT).
7. STRUCTURAL STEEL WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATION. AISC, ASTM & AWS SPECIFICATIONS WILL GOVERN ALL STRUCTURAL STEEL WORKS.
8. DESIGN & CONSTRUCTION SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION STANDARD PRACTICE.
9. STRUCTURAL STEEL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER AND IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY, AWS, REQUIREMENTS.
10. ALL INSPECTION AND TESTING OF WELDING SHALL BE DONE IN ACCORDANCE TO SECTION 501 THROUGH 607 OF THE AWS DLO–94 CODE FOR WELDING IN BUILDING CONSTRUCTION.
11. ALL CONNECTIONS SHALL BE BEARING TYPE UNLESS OTHERWISE SPECIFIED ON PLANS.
12. SHOP DRAWINGS FOR ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE SUBMITTED TO THE DESIGNER FOR APPROVAL WELL IN ADVANCE OF CONSTRUCTION.
13. INCORRECTLY FRABRICATED, DAMAGED OR OTHERWISE MISFFITING OR NON–CONFORMING MATERIAL OR CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR RVIEW AND APPROVAL OR REGECTION, PRIOR TO REMEDIAL OR CORRECTIVE ACTION TO BE IMPLEMENTED.

MISCELLANEOUS:

1. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSABLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
3. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHUOT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
5. OPENING 1'–4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
6. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
7. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT ONCE UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCE SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
10. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD REVIEW OF THE SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
11. CONCRETE ITEMS AND REINFORCEMENT SHALL BE ERECTED IN STRICT ACCORDANCE WITH OWNER APPROVED SHOP AND ERECTION DRAWINGS FOLLOWING THE DETAILS SHOWN ON PLANS.
12. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PRODUCE CORRECTLY ALIGNED CONCRETE AND STEEL ELEMENTS CONSIDERING AMONG OTHER THINGS, THE ELASTIC DEFORMATION OF THE STRUCTURAL MEMBERS.
13. WHERE "OWNER" IS MENTIONED IN PLANS IT IS TO BE UNDERSTOOD EITHER OWNER OR HIS AUTHORIZED REPRESENTATIVE.
14. CONTRACTOR SHALL SUBMIT TO OWNERS' APPROVAL LOCATION AND DETAILS OF CONTRUCTION JOINTS IN SLABS AND BEAMS, AND IN ANY OTHER STRUCTURAL MEMBER.
15. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON STRUCTURAL PLANS AGAINST THE DIMENSIONS ON ARCHITECTURAL PLANS BEFORE LAYING OUT THE WORK.
16. ALL STRUCTURES HAVE BEEN DESIGNED ACCORDING TO FINAL BEHAVIOR AND CONDITIONS. HOWEVER, DURING ERECTION OF SAME, CERTAIN CONDITIONS CAN ARISE FOR WHICH THE BEHAVIOR OR THE STRUCTURE HAS NOT BEEN CONTEMPLATED. THEREFORE, THE CONTRACTOR SHOULD PROVIDE AT ALL TIME ADEQUATE SHORING AND RESTORING UNTIL THE DESIGN CONDITION HAVE BEEN MET. IF THERE IS ANY DOUBT DURING ANY PHASE OF THE CONSTRUCTION, PLEASE CONSULT AND/OR NOTIFY THE STRUCTURAL DESIGNERS.
17. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS PRIOR TO STARTING CONSTRUCTION. IF ANY DISCREPANCY ARISES IN THE STRUCTURAL AND ARCHITECTURAL PLANS, THE ARCHITECTS AND ENGINEERS SHALL BE NOTIFIED IMMEDIATELY.
18. CONTRACTOR MUST PROVIDE, SET AND VERIFY DIMENSIONS AND LOCATION OF ALL ANCHORS, INSERTS BOLTS, SLEEVES, CODUITS, ETC., SHOWN OR NOTED IN ARCHITECTURAL AND/OR MECHANICAL AND PLUMBING PLANS.
19. PROVISION FOR DETAILS NOT SPECIFICALLY DRAN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACI–318–95 BUILDING CODE AND/OR AISC SPECIFICATIONS AND CLARIFIED WITH THE DESIGNER.
20. HORIZONTAL MOVEMENT OF ANY HEAVY EQUIPMENT OVER STRUCTURAL FLOORS OR ROOF AND ITS TEMPORARY AND/OR DEFINITE LOCATIONS MUST BE PREVIOUSLY APPROVED BY THE DESIGNER SO AS NOT TO OVERLOAD THE STRUCTURE OR IN ANY OTHER WAY IMPAIR THE STRUCTURE. SAME PRECAUTION SHALL BE TAKEN FOR THE PILING OF CONSTRUCTIONS MATERIAL SUPON THE STRUCTURE.
21. ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS AND INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED.
22. IN CASE OF DOUBT IN THE INTERPRETATION OF ANY ASPECT OF THESE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS, DESIGNER SHALL BE CONSULTED.
23. AT HORIZONTAL JOINTS IN WALL AND COLUMNS, THE LOWER SURFACE SHALL BE THOROUGHLY CLEARED AND ALL WEAR OR LOOSE CONCRETE REMOVED FROM THERE BEFORE POURING THE UPPER CONCRETE. (SEE SPECS. FOR ADDITIONAL REQUIREMENTS). NO JOINT SHALL BE COVERED WITH PLASTER OR OTHERWISE WITHOUT A VISUAL EXAMINATION AND APPROVAL BY THE INSPECTOR.
24. NO DEFECTIVE CONCRETE SHALL BE CORRECTED OR COVERED WITH MORTAR, PLASTER ETC. WITHOUT THE INSPECTORS' APPROVAL.

QUALITY ASSURANCE:

1. THE OWNER WILL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY OR LABORATORY TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS. THE TESTING AGENCY SHALL BE LICENSED IN THE COUNTRY WHERE THE STRUCTURE IS LOCATED AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN THE COUNTRY WHERE THE STRUCTURE IS LOCATED.
2. FAILURE OF QUALITY ASSURANCE TESTING AND INSPECTIONS TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS NOTED, NOR SHALL IT OBLIGATE THE OWNER'S REPRESENTATIVE FOR FINAL ACCEPTANCE.
3. SEE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR QUALITY ASSURANCE TESTING AND INSPECTION:
   CONCRETE ACI–318–95
   REINFORCED MASONRY . . . ASTM, CRSI, ACI
   STRUCTURAL STEEL . . . . ASTM, AWS, AISC
   STEEL JOIST GIRDERS . . . ASTM, AWS, SJI, AISC
   STEEL JOISTS . . . . . ASTM, AWS, SJI, AISC
   METAL ROOF DECK . . . . ASTM, SDI, AISC
4. SEE GEOTECHNICAL REPORT FOR QUALITY ASSURANCE TESTING AND INSPECTIONS FOR FOUNDATION WORK.
5. THE TESTING AGENCY OR LABORATORY AND ITS REPRESENTATIVES ARE NOT AUTHORIZED TO REVOKE, ALTER, RELAX, ENLARGE OR RELEASE ANY PORTION OF THE WORK, PERFORM ANY DUTIES OF THE CONTRACTOR, OR BE A PARTY TO SHEDULING OF WORK.
6. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY OR LABORATORY AND THE OWNER'S REPRESENTATIVE A MINIMUM OF 24 HOURS IN ADVANCE OF ALL WORK REQUIRING QUALITY ASSURANCE TESTING AND INSPECTIONS AND ALL REASONABLE FACILITIES SHALL BE MADE AVAILABLE FOR TECHNICIANS.
7. RECORDS OF INSPECTIONS SHALL BE KEPT AVAILABLE TO THE BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND TWO YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT TESTING AGENCY.
8. ALL SLABS ON GROUND SHALL REST UPON EXISTING OR GRADED COMPETENT SUBSOIL MATERIAL OR UPON GRANULAR SELECTED WELL COMPACTED FILL MATERIAL, IN ACCORDANCE WITH LATEST AASHTO SPECIFICATIONS FOR FILL SOIL MATERIAL CLASSIFICATION AND COMPACTION REQUIREMENTS.

Tension Development Length (ld), (inches)

(Minimum Straight Embedment length)
for bars spaced less than 6" in, c.c.

Bar Size	f'c=3,000 psi		f'c=3,750 psi		f'c=4,000 psi		f'c=5,000 psi		f'c=6,000 psi	
	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars
#3	13	12	13	12	13	12	13	12	13	12
#4	17	12	17	12	17	12	17	12	17	12
#5	21	15	21	15	21	15	21	15	21	15
#6	27	19	25	18	25	18	25	18	25	18
#7	37	26	33	24	32	23	29	21	29	21
#8	48	35	43	31	42	30	38	27	34	25
#9	61	44	55	39	53	38	48	34	43	31
#10	78	56	70	50	67	48	60	43	55	39
#11	96	68	86	61	83	59	74	53	68	48
#14	130	93	117	83	113	81	101	72	92	66
#18	169	120	151	108	146	104	131	93	119	85

Basic Tension Splices For Grade 60 Bars

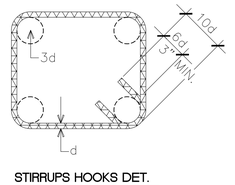
Bar Size	CLASS A,B, & C LAP SPLICE LENGTHS (INCHES)								
	f'c=3,000			f'c=4,000			f'c=5,000		
	A	B	C	A	B	C	A	B	C
#3	12	16	20	12	16	20	12	16	20
#4	12	16	20	12	16	20	12	16	20
#5	15	20	26	15	20	26	15	20	26
#6	19	25	33	18	24	31	18	24	31
#7	26	34	45	23	30	39	21	27	36
#8	35	45	59	30	30	51	27	35	46
#9	44	57	74	38	49	65	34	44	58
#10	56	72	95	48	63	82	43	56	73
#11	68	89	116	59	77	101	53	69	90

NOTE:
FOR OTHER CONDITIONS, CONSULT STRUCTURAL ENGINEERS
A. WHEN 33% OF BARS AT SECTION ARE CUT.
B. WHEN 50% OF BARS AT SECTION ARE CUT.
C. WHEN 100% OF BARS AT SECTION ARE CUT.

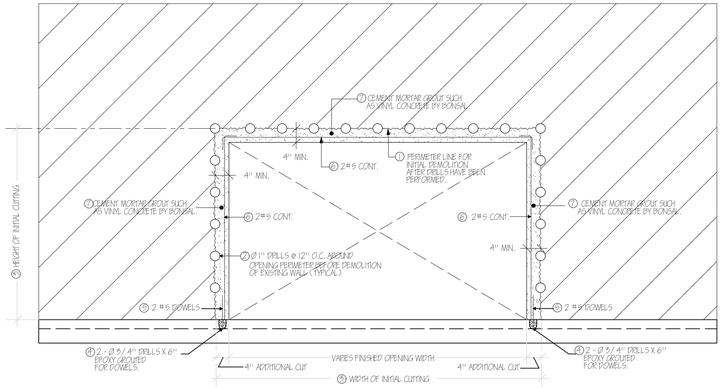
Tension Development Length (ld), (inches)

(Minimum Straight Embedment length)
for bars spaced 6" in, or more c.c.

Bar Size	f'c=3,000 psi		f'c=4,000 psi		f'c=5,000 psi	
	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars
#3	12	12	12	12	12	12
#4	14	12	14	12	14	12
#5	17	12	17	12	17	12
#6	22	15	20	14	20	14
#7	30	21	26	18	23	17
#8	38	28	34	24	30	22
#9	49	35	42	30	38	27
#10	62	45	54	38	48	34
#11	77	54	66	47	59	42
#14	104	74	90	65	81	58
#18	135	96	117	83	105	74



STIRRUPS HOOKS DET.



WALL OPENING TYPICAL DETAIL

DEMOLITION & REPAIRING SEQUENCE

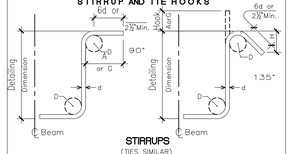
1. DELINEATE PERIMETER LINE OF INITIAL DEMOLITION AS IN FIGURE.
2. PERFORM DRILLS AS SHOWN, ø 1" @ 12" O.C. ON FIGURE.
3. CUT INITIAL OPENING AS SHOWN ON FIGURE.
4. BORE DRILLS FOR DOWELS @ WALL BOTTOM OR FOOTING.
5. INSTALL 2#5 DOWELS X 2'–0" AND GROUT WITH EPOXY COMPOUND
6. GROUT WITH VINYL CONCRETE AROUND OPENING PERIMETER AND DRILL HOLES FOR FINISHED DIMENSIONS.

ASTM STANDAR REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS–ROUND SECTIONS DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

SUPERSEDES CARDS ISSUED PRIOR TO JAN. 1978

STIRRUP AND TIE HOOKS

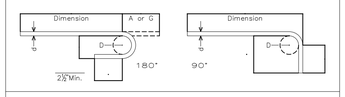


STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP AND TIE HOOK DIMENSIONS
Grades 40–50–60 ksi

Bar Size	D (in)	90 HOOK Hook A or G	135 HOOK Hook A or G	135 HOOK Approx. H
#3	1½"	4	4	2⅞"
#4	2"	4½	4½	3"
#5	2½"	6	5½	3¾"

ACI/ASTM STANDARD HOOKS



SIZES OF 180–DEG. HOOKS
All Grades
D=6d for #3 through #8
D=8d for #9 #10 and #11
D=10d for #14 and #18

SIZES OF 90–DEG. HOOKS
All Grades
D=6d for #3 through #8
D=8d for #9 #10 and #11
D=10d for #14 and #18

RECOMMENDED END HOOK DIMENSIONS

Bar Size	180 HOOKS All Grades A or G	180 HOOKS All Grades J	90 HOOKS All Grades A or G
#3	5	3	6
#4	6	4	8
#5	7	5	10
#6	8	6	1–0
#7*	10	7	1–2
#8*	11	8	1–4
#9*	1–3	11¼	1–7
#10*	1–5	1–0¾	1–10
#11*	1–7	1–2¼	2–0
#14	2–2	1–8¾	2–7
#18	2–11	2–3	3–5

* These sizes–Grade 40–check availability. Sizes #14, #18, check availability; no Grade 40 under ASTM.

Notes:

1.0 Do not scalle dimensions from drawings, Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS		
NO. #	DATE	ISSUING REASON

PROFESSIONAL SEAL

JOSE O. GONZALEZ
INGENIERO
LICENCIADO
LIC. #6588
PUERTO RICO

Yo, José O. González García, Ricencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y ordenanzas municipales vigentes en las agencias, juntas reglamentadoras o corporaciones públicas concernientes, y certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido estrictamente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la profesionalización y la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1976, según enmendada, respecto a que cualquier declaración falsa o fabricación de los hechos que se haya suministrado por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICACIÓN - ESTIPENDIO - FIRMA NUMERO
YO, JULVIN MARRUGUEZ BOTELLO, LICENCIA 19882, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS. TAMBIEN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y ORDENES DE CONSTRUCCION VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS CONCERNIENTES, Y CERTIFICO, ADEMAS, QUE EN LA PREPARAC

STRUCTURAL NOTES

STEEL:

1. ALL STRUCTURAL STEEL SHALL MEET A–36 A.S.T.M. STANDARD AND HAVE A YIELD–STRENGTH OF 36 KSI.
2. FABRICATION AND ERECTION SHALL MEET AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
3. ALL WELDING SHALL MEET THE AMERICAN WELDING SOCIETY STANDARDS.
4. SHOP CONNECTIONS SHALL BE WELDED USING E70XX ELECTRODES MEETING A–233 A.S.T.M. SPECIFICATIONS.
5. ALL STEEL SHALL HAVE A SHOP COAT OF RED OXIDE PAINT.
6. MANUFACTURER'S FINAL SHOP DRAWING AND SPECIFICATIONS ARE REQUIRED BY DESIGNER FOR APPROVAL.
7. THE FOLLOWING MINIMUM STANDARDS APPLY, UNLESS OTHERWISE NOTED:
   A) WELD SIZE SHALL BE 3/16"
   B) BOLT DIAMETER SHALL BE 3/4"
   C) PLATE THICKNESS SHALL BE 3/8"
   D) CONNECTION ANGLE THICKNESS SHALL BE 5/16"
   E) CONNECTIONS SHALL HAVE 2 BOLTS
8. ONE HIGH STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A SEMI–FINISHED HEXAGONAL

   A LOAD INDICATOR WASHER.

   LOAD CAPACITY SHOWN IN THE TABLES OF UNIFORM LOAD CONSTANTS, WHICHEVER IS GREATER.

10. ALL PROJECTING CORNERS, EXPOSED EDGES, BURRS AND SHARP EDGES SHALL GROUND SMOOTH.
    HEAD BOLT, A HEAVY SEMI–FINISHED HEXAGONAL NUT, A HARDENED STEEL WASHER, AND

CONCRETE:

9. BOLTED FRAME CONNECTIONS SHALL BE BEARING TYPE, ACCORDING TO THE AISC MANUAL

1. CONCRETE SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI. UNLESS OTHERWISE STATED.
2. ALL REINFORCING STEEL BARS SHALL BE NEW BILLET DEFORMED HIGH STRENGTH GRADE STEEL CONFORMING TO ASTM A–615 LATEST EDITION (FY=60,000 PSI).
3. ALL DETAILING, FABRICATION AND PLACING OF REINFORCED BARS INCLUDING ACCESSORIES AND SUPPORTS SHALL FOLLOW THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES ACI 315.
4. VAPOR BARRIER FOR STRUCTURAL CONCRETE FLOOR SLAB SHALL BE PROVIDED BY SIX (6) MILL THICK OF POLYETHYLENE RUBBER SHEET.
5. ALL LAPPING, BENDING AND PLACING OF REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH ACI 318–95 BUILDING CODE.
6. MINIMUM STEEL PROTECTION SHALL BE AS FOLLOWS: A)FOOTING, 3" BOTTOM AND SIDE, B)SLAB ON GROUND 2", C)WALLS 3/4" INTERIOR FACE, 1 1/2" EXT. FACE; BEAMS AND COLUMNS 1 1/2" C.C. SLABS 3/4" C.C.
7. ALL SLABS AND CORRESPONDING BEAMS, CURBS OR APRONS SHALL BE POURED MONOLITHIC.
8. ALL BLOCK WALLS SHALL BE ANCHORED TO THE FLOOR GROUND SLAB BY MEANS OF #3 BARS HOOKED A MINIMUM OF 6 INCHES INTO THE SLAB AND SPACED A MINIMUM OF 16 IN. OR #4 BARS HOOKED A MINIMUM OF 8 INCHES INTO THE SLAB AND SPACED A MINIMUM OF 32 INCHES, UNLESS OTHERWISE CALLED FOR ON THE DRAWINGS.
9. CONCRETE ITEMS AND REINFORCEMENT SHALL BE ERECTED IN STRICT ACCORDANCE OWNER APPROVED SHOP AND ERECTION DRAWINGS FOLLOWING THE DETAILS SHOWN ON PLANS.
10. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PRODUCE CORRECTLY ALIGNED CONCRETE CONSIDERING AMONG OTHER THINGS, THE ELASTIC DEFORMATION OF THE STRUCTURAL MEMBERS.
11. ALL SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE IN PLACE BEFORE CONCRETE IS POURED.
12. ALL OPENINGS IN CONCRETE WALLS OR SLABS SHALL BE REINFORCED AROUND WITH 2#5 BARS PLACED AT 2 IN. FRONT HE FACE & EXTENDING 24 IN. BEYOND CORNERS, UNLESS OTHERWISE CALLED FOR IN DRAWINGS.
13. WHERE "OWNER" IS MENTIONED IN PLANS IT IS TO BE UNDERSTOOD EITHER OWNER OR HIS AUTHORIZED REPRESENTATIVE.
14. TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN ALL ONE WAY SLAB NORMAL TO THE PRINCIPAL REINFORCEMENT IN ACCORDANCE WITH ACI 318R–89 BUILDING CODE.
15. FOR CONSTRUCTION JOINTS IN STRUCTURAL MEMBERS A VERTICAL BULKHEAD AN KEY JOINT MUST BE PROVIDED.
16. ALL NEGATIVE REINFORCEMENT (TOP REINF.) & POSITIVE REINFORCEMENT, (BOTTOM REINF.) IN SLABS AND BEAMS SHALL BE EXTENDED BEYOND THE CENTER LINE OF THE END SUPPORTS IN ACCORDANCE WITH ACI 318–95 BUILDING CODE, UNLESS OTHERWISE CALLED FOR IN DRAWINGS.
17. CONTRACTOR SHALL SUBMIT FOR OWNER'S APPROVAL LOCATION AND DETAILS OF CONSTRUCTION JOINTS IN SLABS AND BEAM, AND IN ANY OTHER STRUCTURAL MEMBERS.
18. FOR REBAR SUPPORT USE CHAIRS BY DAYTON SUPERIOR OR SIMILAR.
19. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON STRUCTURAL PLANS AGAINST THE DIMENSIONS ON ARCHITECTURAL PLANS BEFORE LAYING OUT THE WORK.

DESIGN REFERENCES:

1. THE FOLLOWING REFERENCE DOCUMENTS, THEIR COMMENTARIES AND THE STANDARS REFERENCED THEREIN, SHALL APPLY TO THE DESIGN, FABRICATION, AND CONSTRUCTION PRACTICES TO BE ADHERED TO WITH REGARD TO THE WORK SHOWN ON THESE DRAWINGS:

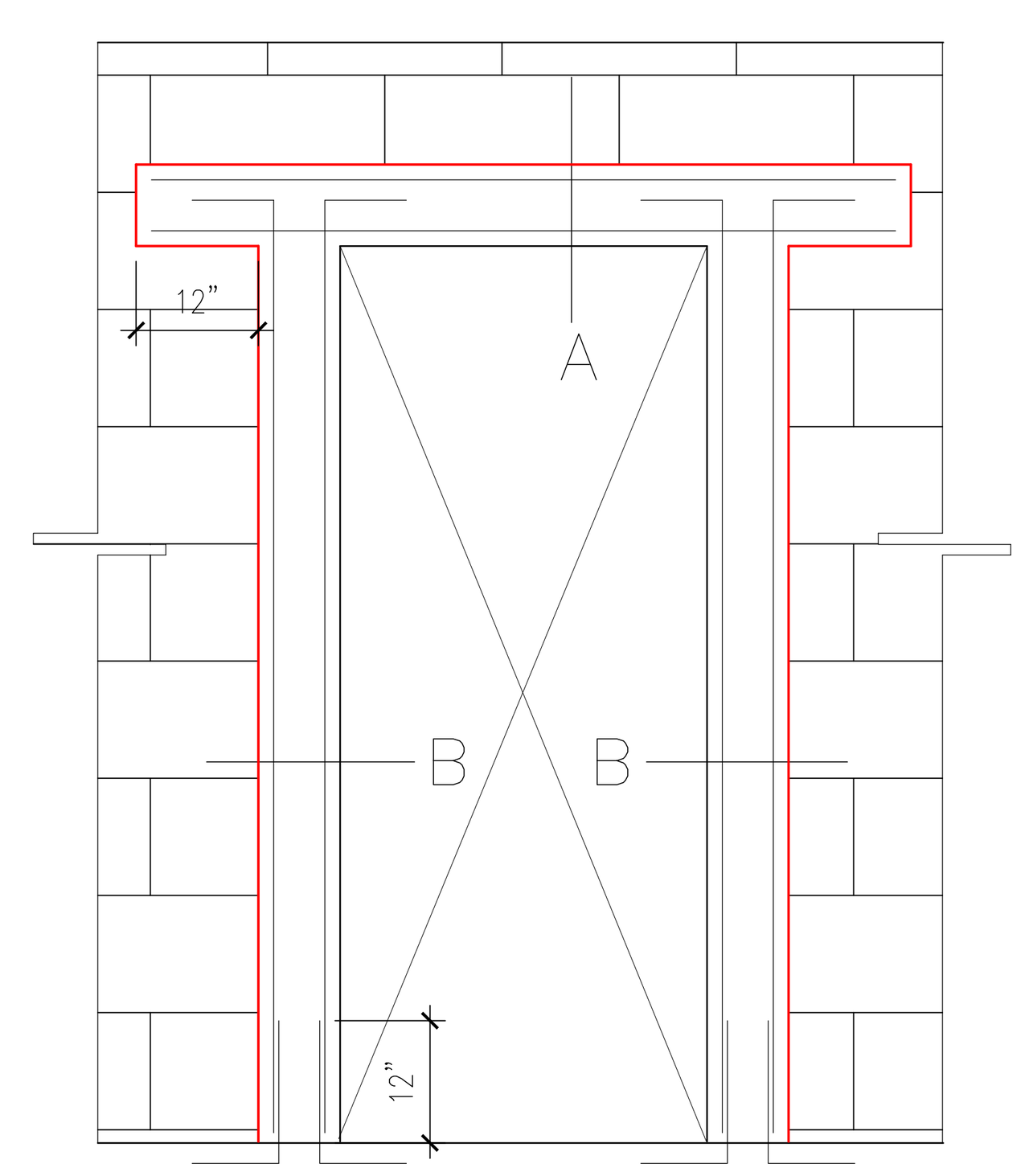
   A) UNIFORM BUILDING CODE, 1997 EDITION
   B) AISC MANUAL OF STEEL CONSTRUCTION, 13TH. EDITION
   C) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318–05)

DESIGN LOADS:

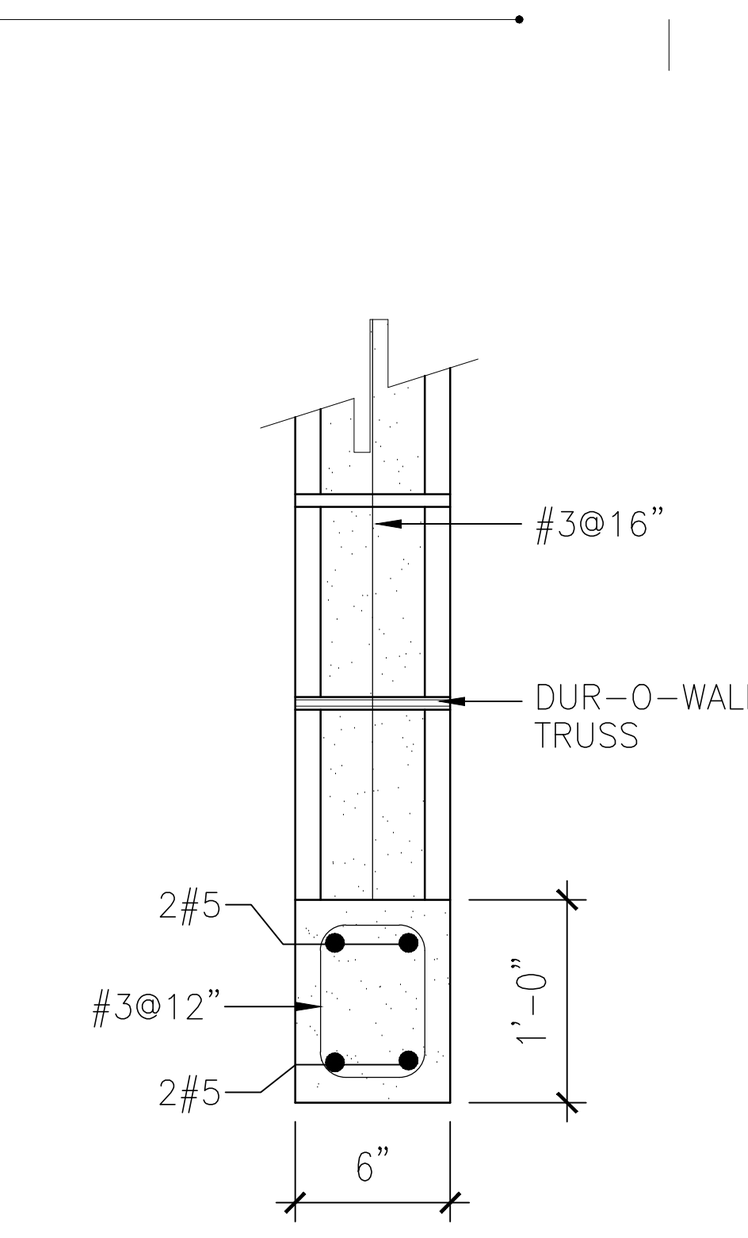
1. LIVE LOADS:
   20 PSF ROOF
2. WIND LOADS WERE OBTAINED FROM THE UBC–97 BUILDING CODE.
3. SEISMIC LOADS WERE OBTAINED FROM THE UBC–97 BUILDING CODE.

SOIL:

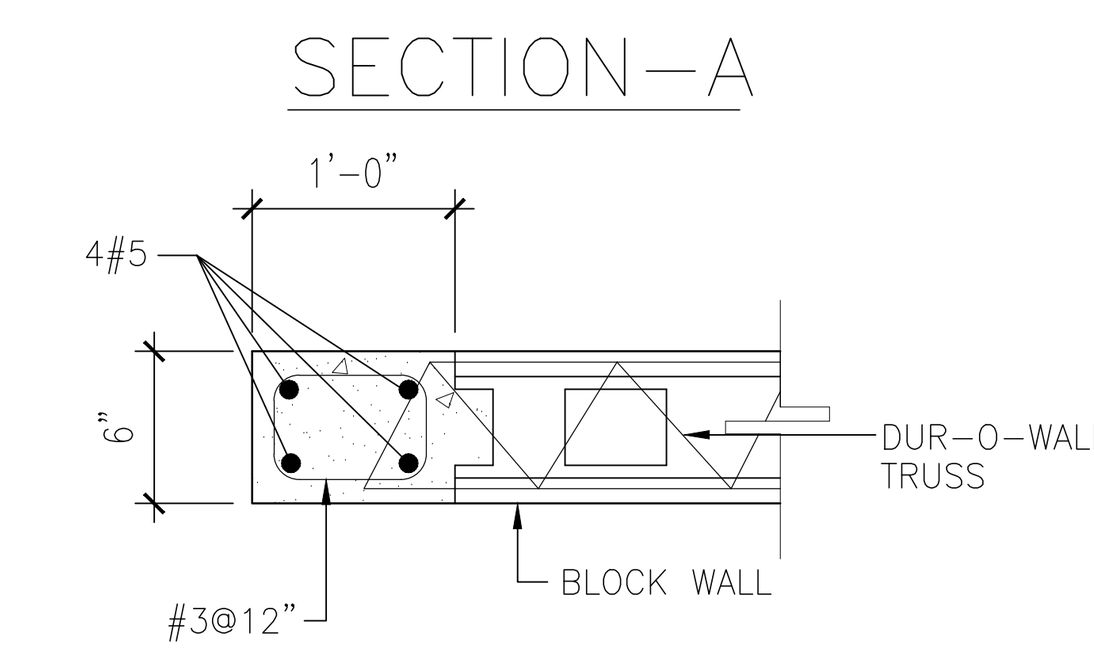
1. SOIL BEARING CAPACITY: 2,000 PSF ASSUMED. THE OWNER WILL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY OR LABORATORY TO PROVIDE A GEOTECHNICAL REPORT.
2. ALL STRUCTURE HAVE BEEN DESIGNED ACCORDING TO FINAL BEHAVIOR AND CONDITIONS HOWEVER, DURING ERECTION OF SAME, CERTAIN CONDITIONS CAN ARISE FOR WHICH THE BEHAVIOR OF THE STRUCTURE HAS NOT BEEN CONTEMPLATED. THEREFORE THE CONTRACTOR SHOULD PROVIDE AT ALL TIME ADEQUATE SHORING AND RESHORING UNTIL THE DESIGN CONDITIONS HAVE BEEN MET. IF THERE IS ANY DOUBT DURING ANY PHASE OF THE CONSTRUCTION, PLEASE CONSULT AND/OR NOTIFY THE STRUCTURAL DESIGNER.
3. FOR CONCRETE FORM WORK, SURFACE FINISHING, BEVELED CORNERS AND DRIPS, SEE ARCHITECTURAL PLANS.
4. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS PRIOR TO STARTING CONSTRUCTION. IF ANY DISCREPANCY ARISES IN THE STRUCTURAL AND ARCHITECTURAL PLANS THE ARCHITECTS AND ENGINEERS SHALL BE NOTIFIED IMMEDIATELY.
5. CONTRACTOR MUST PROVIDE, SET AND VERIFY DIMENSIONS AND LOCATION OF ALL ANCHORS, INSERTS BOLTS, SLEEVES, CONDUITS, ETC., SHOWN OR NOTED IN ARCHITECTURAL AND/OR MECHANICAL AND PLUMBING PLANS.
6. PROVISIONS FOR DETAILS NOT SPECIFICALLY DRAWN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACI 318–95 BUILDING CODE AND/OR A.I.S.C. SPECIFICATIONS AND CLARIFIED WITH THE DESIGNER.
7. HORIZONTAL MOVEMENT OF ANY HEAVY EQUIPMENT OVER STRUCTURAL FLOOR OR ROOF AND ITS TEMPORARY AND/OR DEFINITE LOCATIONS MUST PREVIOUSLY APPROVED BY THE DESIGNER SO AS NOT TO OVERLOAD THE STRUCTURE OR IN ANY OTHER WAY IMPAIR THE STRUCTURE, SAME PRECAUTION SHALL BE TAKEN FOR THE PILING OF CONSTRUCTION MATERIALS.
8. ALL TEST FOR PROPERTIES OF CONCRETE AGGREGATES, CEMENT, CONCRETE STRENGTH BY CYLINDERS, SLUMP TEST AND VIBRATION OF CONCRETE AND OTHER TESTS REQUIRED FOR CONCRETE IN THE SPECIFICATIONS, SHALL BE PERFORMED UNDER THE SUPERVISION OF A CERTIFIED TESTING LABORATORY TO BE APPROVED BY THE OWNER AND ARCHITECTS/ENGINEERS.
9. POURING OF CONCRETE SHALL NOT BE STARTED UNTIL STEEL HAS BEEN PLACED AND APPROVED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
10. ALL INTERIOR AND EXTERIOR BLOCK WALLS SHALL BE REINFORCED WITH "DUR–O–WAL" TRUSS OR APPROVED MATERIAL HAVING EQUAL EFFECTIVE AREA OF STEEL, MORTAR BOND AND APPLICABLE BUILDING CODE APPROVAL. MATERIAL SHALL BE MANUFACTURED FROM UNCOATED NO. 8 GAGE WIRE CONFORMING TO THE REQUIREMENTS OF ASTM–A–32 OR SIMILAR. "DUR–O–WAL" TRUSS SHALL BE INSTALLED EVERY OTHER BLOCK COURSE.
11. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROVIDE ADEQUATE VERTICAL AND LATERAL SUPPORT TO ALL MEMBERS DURING ALL CONSTRUCTION STAGES.
12. PROVIDE DOWELS IN WALL AND COLUMN FOOTINGS EQUAL IN SIZE AND NUMBER TO VERTICAL REINFORCEMENT, EXTENDING A TENSION SPLICE LENGTH INTO WALL OR COLUMN AND 40 BAR DIAMETER INTO FOOTING. (THE LATERAL SHALL BE EXTENDED AS NECESSARY TO PROVIDE A MINIMUM HORIZONTAL LEG RESTING ON FOOTING REINFORCEMENT. EQUAL TO THE CORRESPONDING HOOK LENGTH FOR THE BAR SIZE.
13. MAIN OPENINGS ARE SHOWN IN THE STRUCTURAL PLANS, HOWEVER, FOR EXACT SIZE AND LOCATION OF ALL OPENINGS SEE REST OF PLANS. NO OPENING, SLOT OR GROOVE SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT PREVIOUS APPROVAL AND/OR PROVISIONS BY THE STRUCTURAL ENGINEER.
14. ALL LINES STARTING AT ANY LOWER EDGE OF A FOOTING AND EXTENDED WITH A SLOPE 2 HORIZONTAL TO 1 VERTICAL SHALL REMAIN WITHIN UNDISTURBED SOIL AND SHALL NOT INTERSECT THE BOTTOM OF ANY OTHER THAT MAY ARISE FROM THE FOOTING ELEVATIONS GIVEN IN THE PLANS AND NOT MEETING THE ABOVE REQUIREMENT.
15. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALL) SO AS TO CAUSE SEGREGATION OF AGGREGATES IN SUCH CASES, HOPPERS OR VERTICAL CHUTES OR TRUNKS SHALL BE USED. THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED THE ABOVE REQUIREMENTS.
16. ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.
17. IN CASE OF DOUBT IN THE INTERPRETATION OF ANY ASPECT OF THESE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS, THE DESIGNER SHALL BE CONSULTED.
18. AT HORIZONTAL JOINTS IN WALLS & COLUMNS, THE LOWER SURFACE SHALL BE THOROUGHLY CLEANED AND ALL WEAR OR LOOSE CONCRETE REMOVED THERE FROM BEFORE POURING THE UPPER CONCRETE. (SEE SPECS. FOR ADDITIONAL REQUIREMENTS). NO JOINT SHALL BE COVERED WITH PLASTER OR OTHERWISE WITHOUT A VISUAL EXAMINATION AND APPROVAL BY THE INSPECTION.
19. NO DEFECTIVE CONCRETE SHALL BE CORRECTED OR COVERED WITH MORTAR PLASTER, ETC. WITHOUT THE INSPECTOR'S APPROVAL.
20. THE SIZE OF NAILS AND SIMILAR FASTENERS DRIVEN INTO CONCRETE SHALL, BE SUCH, AS NOT TO CRACK OR IMPAIR IT, NEVERTHELESS IF THE CONCRETE IS DAMAGE, IT SHALL BE PROPERLY REPAIRED AFTER REMOVING THE DAMAGE PORTION AND SUITABLE JOINT SURFACE ARE PROVIDED.
21. ALL FORM WORK FOR FLEXURAL MEMBERS SHALL BE BUILT WITH A CAMBER CORRESPONDING TO ITS OWN DEFORMATION PLUS THE STRUCTURE DEAD LOAD DEFORMATIONS. IN DETERMINING THE AMOUNT OF CAMBER, THE CONTRACTOR SHALL HAVE THE ASSISTANCE OF THE DESIGNER WHERE SO REQUESTED.
22. ALL CAST IN PLACE REINFORCED CONCRETE STRUCTURAL MEMBERS SHALL BE PROPERLY CURED IN ACCORDANCE WITH ACI–318R–89.



ELEVATION AT CONCRETE WALL



SECTION–A



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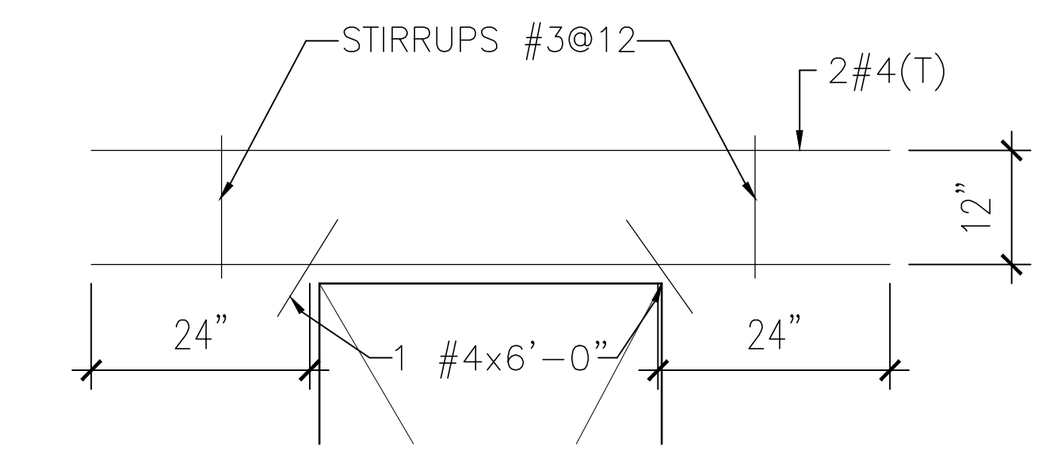
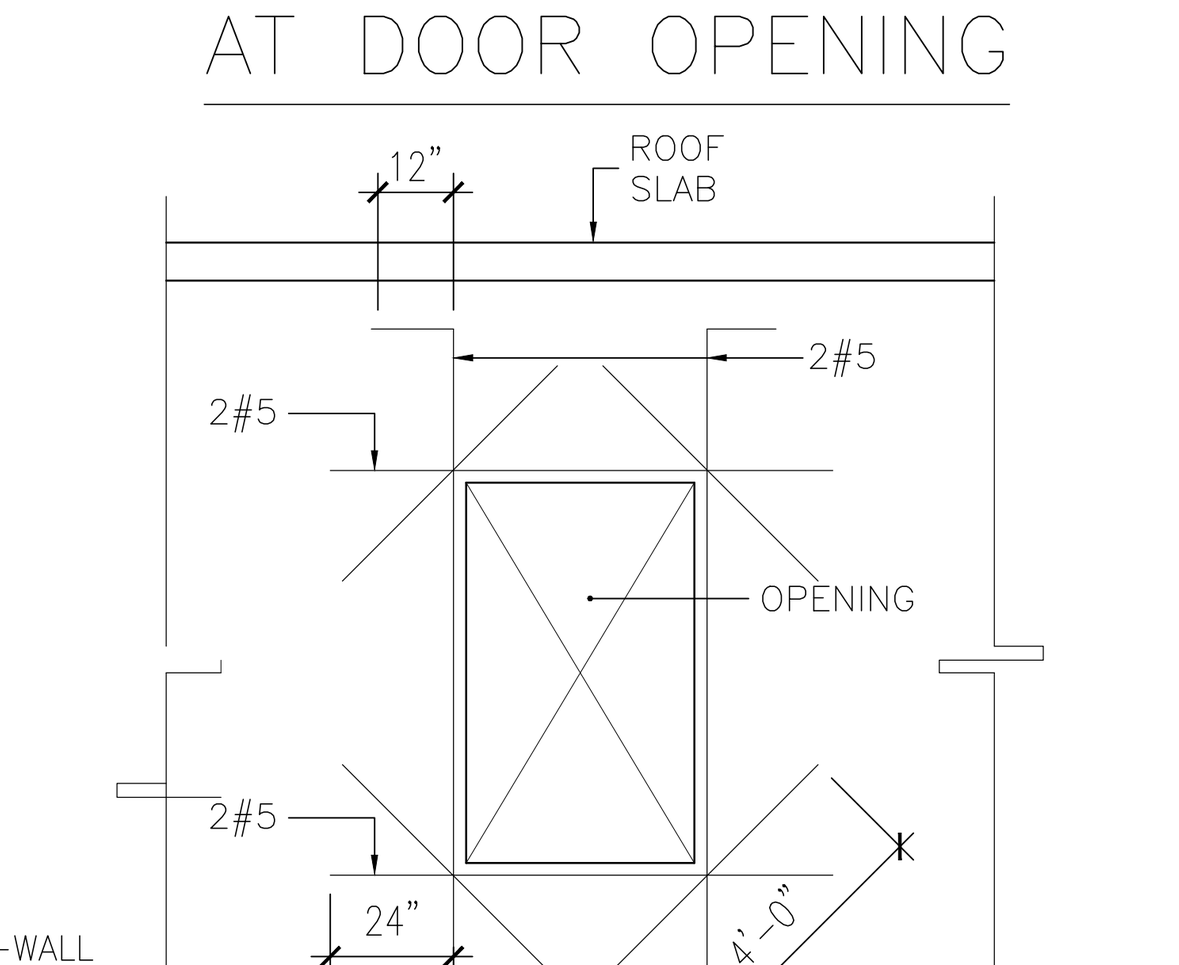


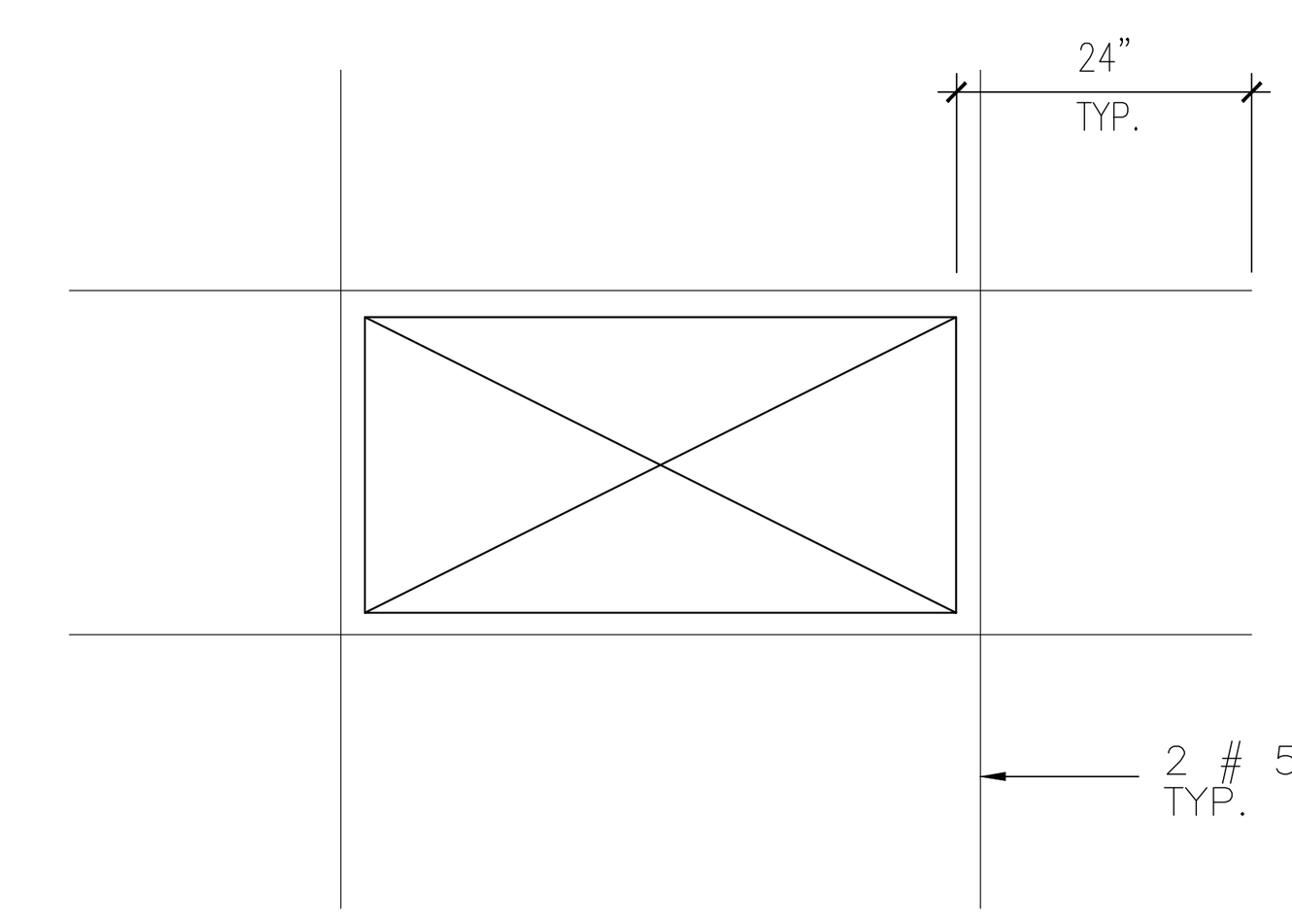
AT DOOR OPENING



REINF. AROUND WALL OPENING FOR WINDOW

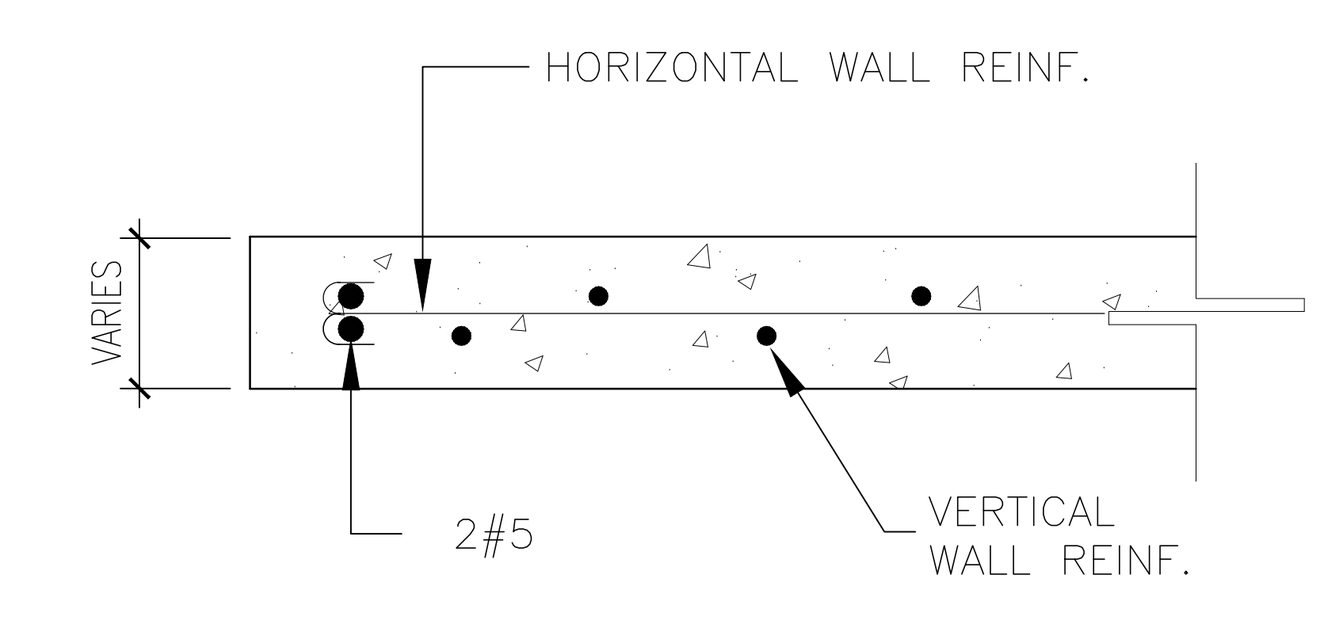
TYPICAL DOOR & WINDOW OPENING & CONCRETE & BLOCK WALLS

NOT TO SCALE



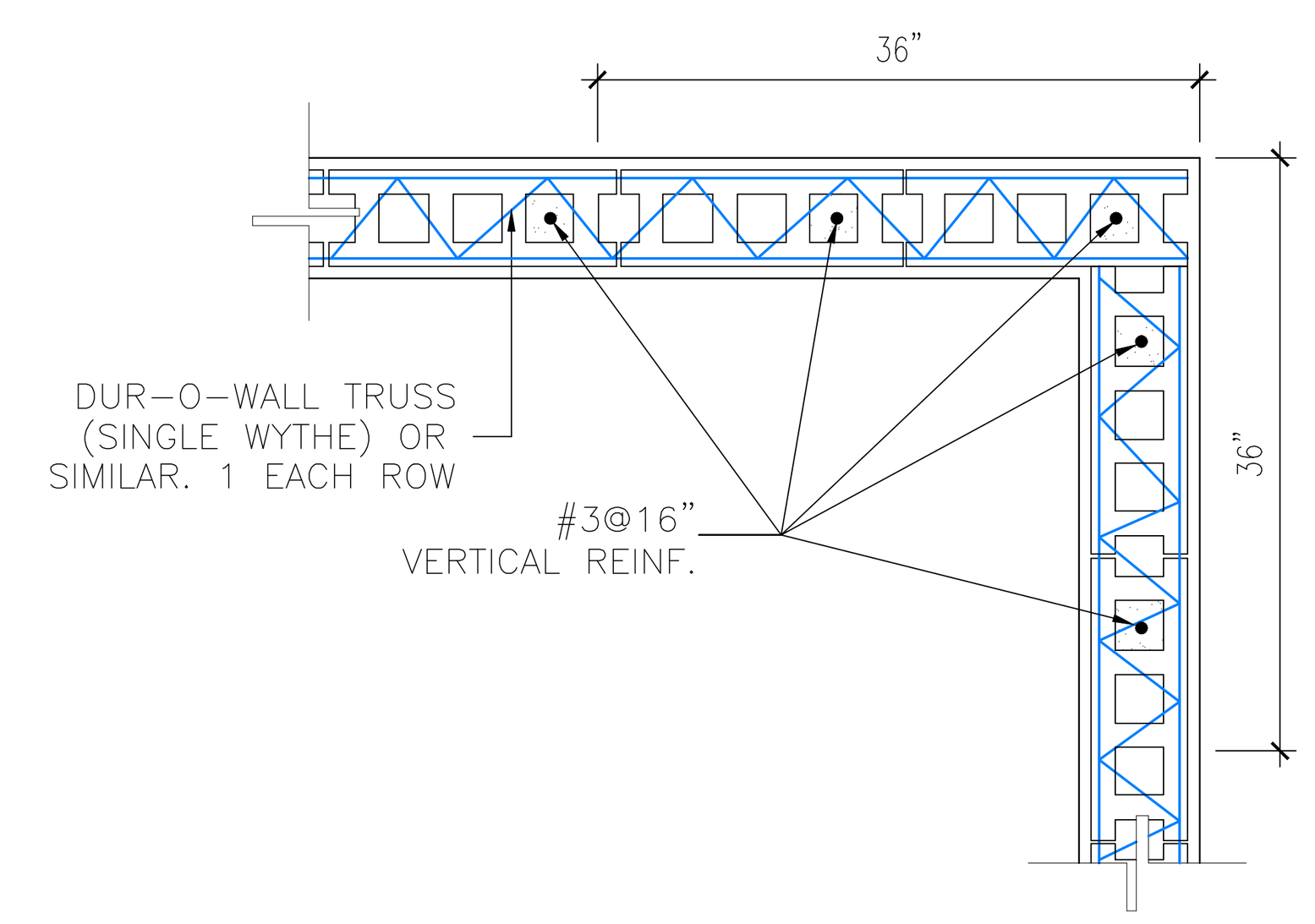
TYPICAL SLAB OPENING

NOT TO SCALE



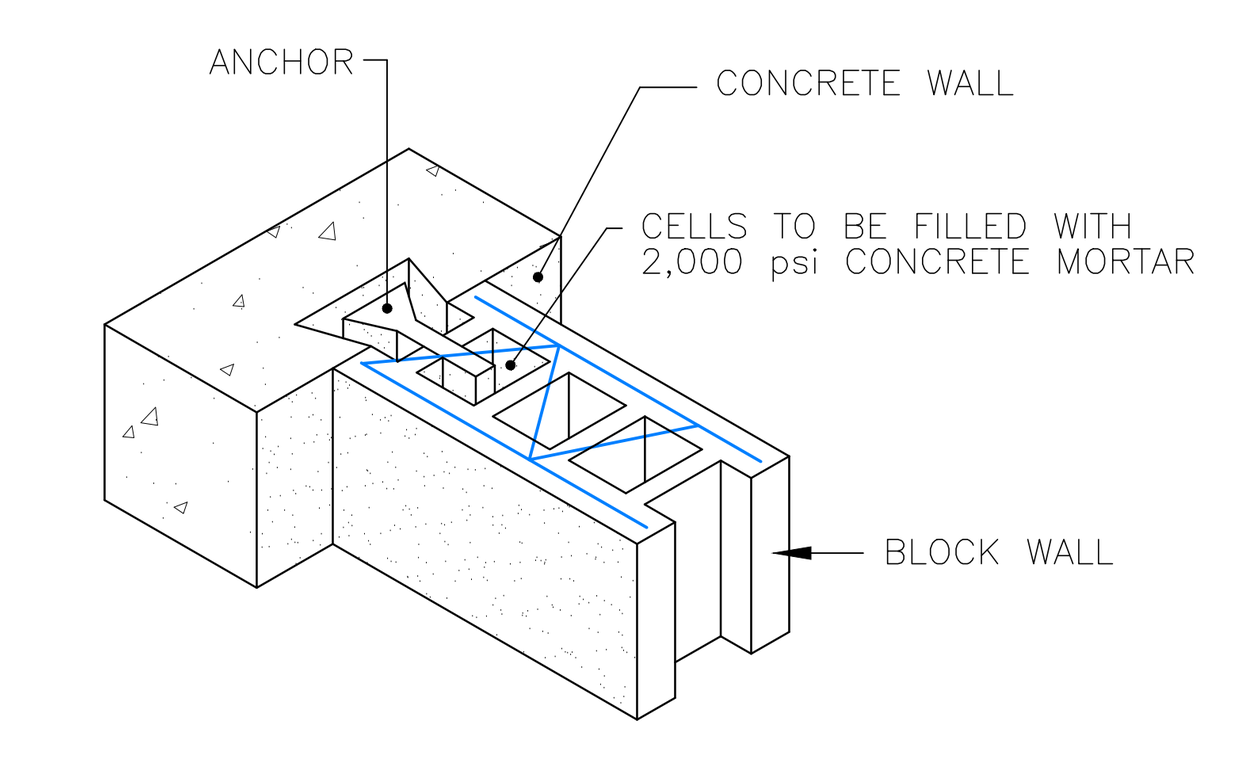
STRUCTURAL WALLS END CONDITION

NOT TO SCALE



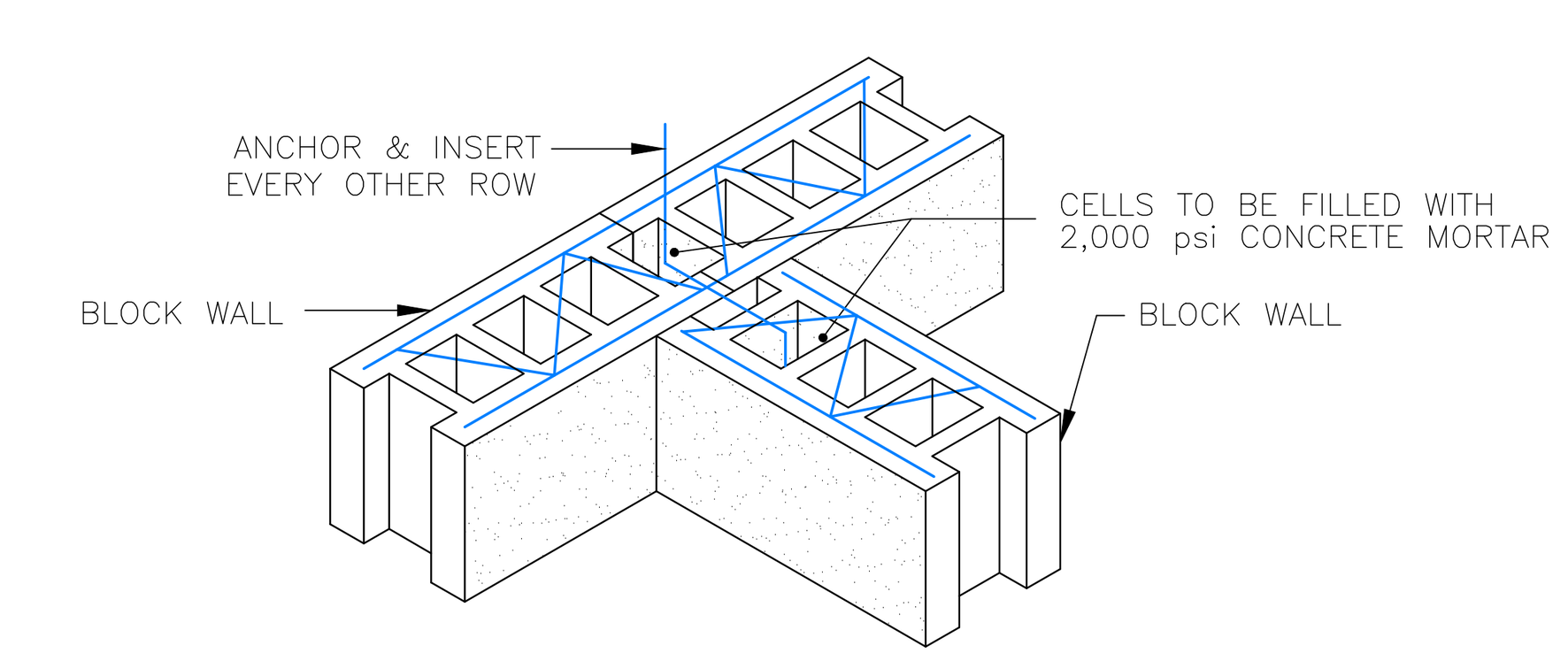
ADDITIONAL REINFORCEMENT FOR BLOCK WALL CORNER DETAIL

NOT TO SCALE



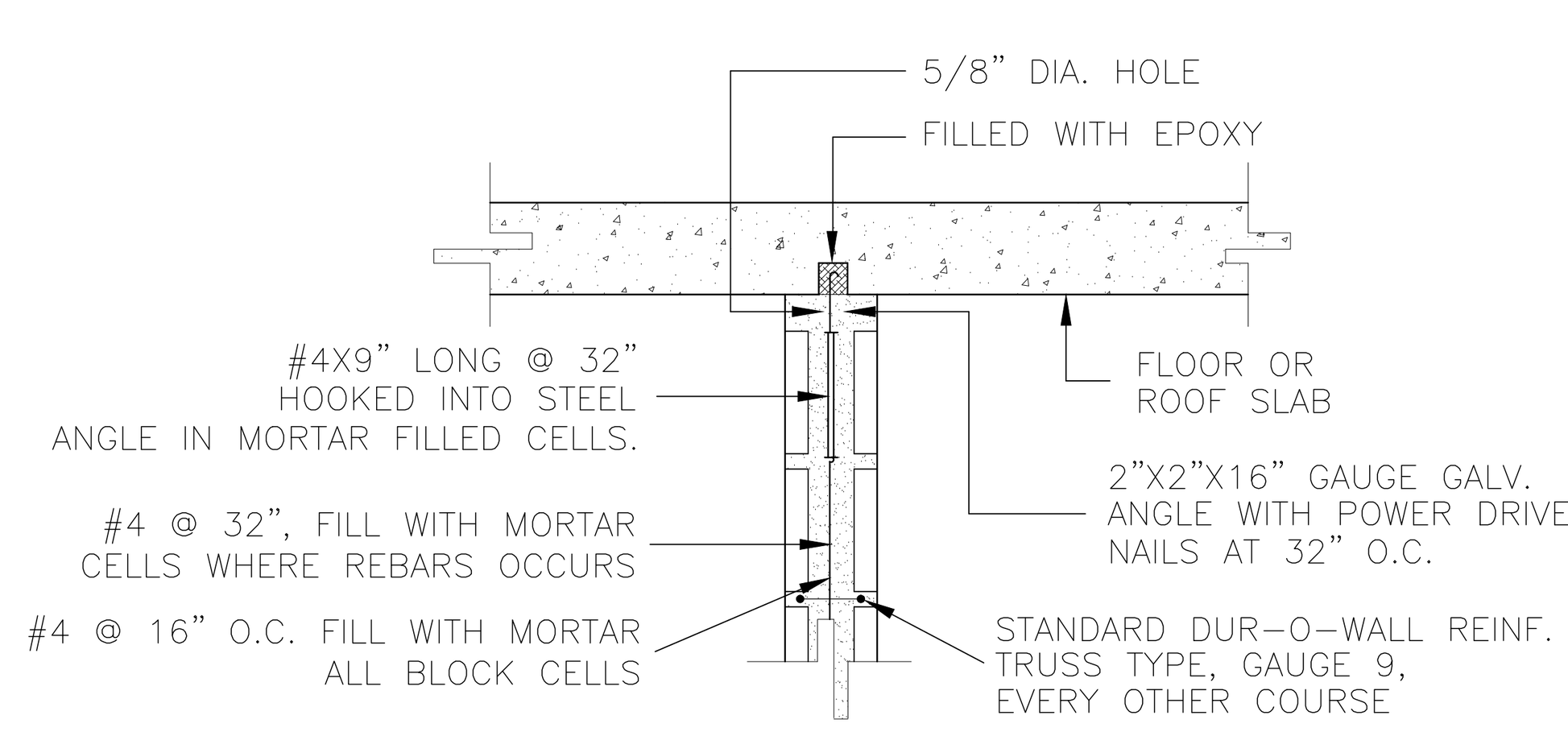
TYPICAL ANCHORAGE DETAIL OF BLOCK WALL TO CONCRETE WALL

NOT TO SCALE

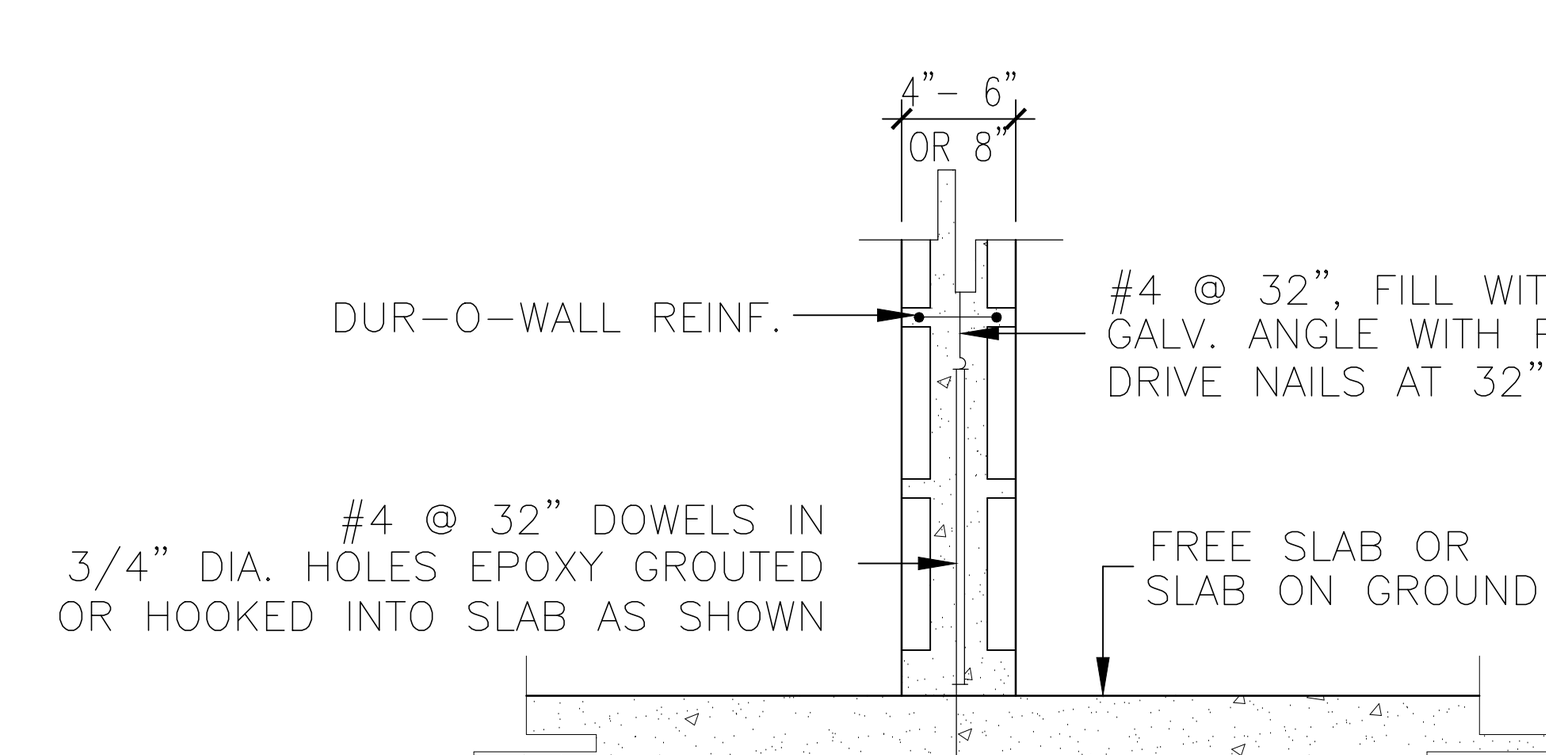


TYPICAL ANCHORAGE DETAIL OF BLOCK WALL TO BLOCK WALL

NOT TO SCALE



BELOW FLOOR SLAB



AT FLOOR SLAB

WALL ANCHORAGE DETAILS

NOT TO SCALE

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4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSÉ O. GONZÁLEZ INGENIERO LICENCIADO LIC. #6588 PUERTO RICO

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CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

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e-mail: info@nformationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Structural Notes & Details

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

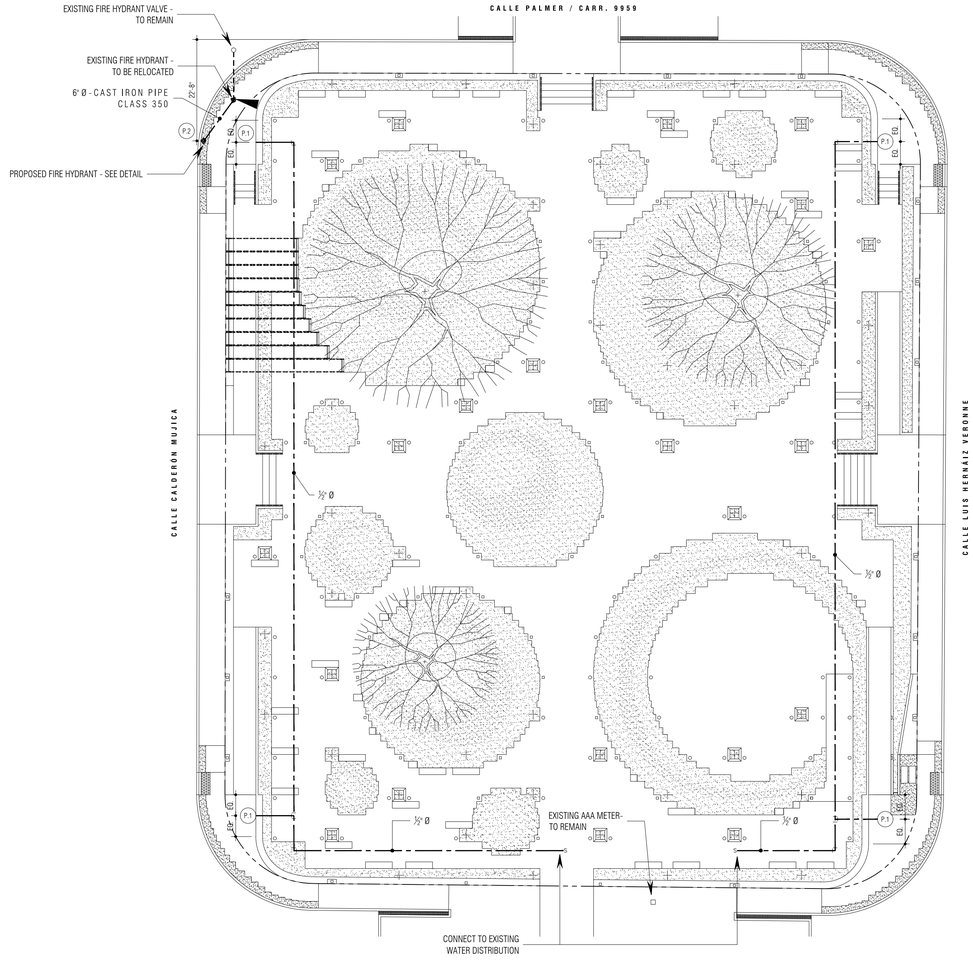
PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
56	krs	26.vi.2024

DISCIPLINE

ST-3.1

BID SET January 10, 2025



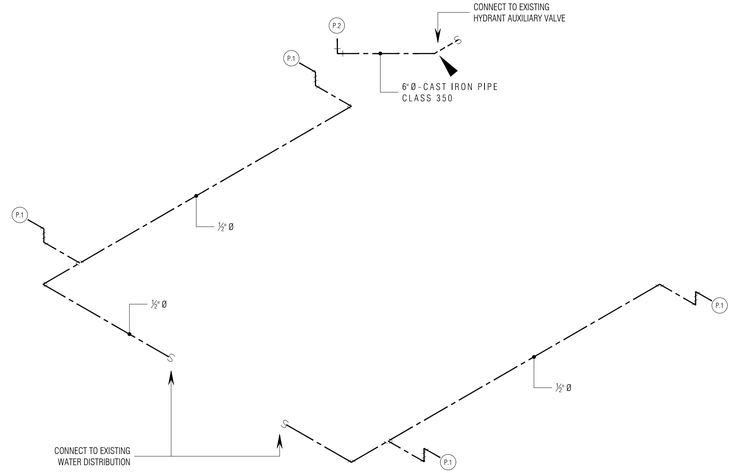
Plumbing Distribution Plan

SCALE : 1/16" = 1'-0"

Legend

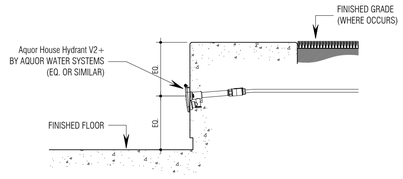
- EXISTING WATER DISTRIBUTION LINE
- WATER DISTRIBUTION LINE
- PROPOSED THRUST BLOCK

FIXTURE SCHEDULE					
ID	DESCRIPTION	COLD WATER	HOT WATER	DRAINAGE	REQ.
P-1	WALL HYDRANT	½"	N/A	N/A	4
P-2	FIRE HYDRANT	6"			1



Supply Isometric

NOT TO SCALE



Wall Hydrant Detail

SCALE: 1" = 1'-0"

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-	-	-

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JOSE O. GONZALEZ INGENIERO LICENCIADO LIC. #6588 PUERTO RICO

CERTIFICACION - CERTIFICATE - FIRM NAME

YO, JULIÁN MARRIQUEZ BOTELLO, LICENCIA 19862, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. I, JULIÁN MARRIQUEZ BOTELLO, LICENSE 19862, CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED, PLANNED AND PREPARED THESE PLANS. CADA UNO DE ESTOS PLANOS CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE. EACH OF THESE PLANS COMPLY WITH THE APPLICABLE PROVISIONS OF THE CONSTRUCTION REGULATIONS AND CODES IN FORCE. JUNTAS REGLAMENTADORAS O COMPAÑÍAS PÚBLICAS CON JURISDICCIÓN SOBRE EL PROYECTO. REGULATORY BOARDS OR PUBLIC UTILITIES WITH JURISDICTION OVER THE PROJECT. NACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES HA SIDO CUMPLIDO CON ALIMENTO DE LA LEY NUMERO 96 DEL 5 DE JULIO DE 2000, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE PROFESIONALES DE LA INGENIERÍA Y LA AGRIMENSURA". THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS BEEN DONE IN COMPLIANCE WITH LAW NUMBER 96 DATED JULY 5, 2000, AS AMENDED, KNOWN AS THE "PUERTO RICO ENGINEERING AND LAND SURVEYING PROFESSIONAL LAW". ESTOY DISPUESTO A SOMETERME A LA INVESTIGACIÓN QUE SEA NECESARIA POR LA JUNTA EXAMINADORA DE INGENIEROS, ARQUITECTOS Y AGRIMENSORES DE PUERTO RICO. I AM WILLING TO SUBMIT TO THE INVESTIGATION THAT IS NECESSARY BY THE PUERTO RICO BOARD OF EXAMINERS OF ENGINEERS, ARCHITECTS AND LAND SURVEYORS. FIRMADO: ANY TOTAL, PARTIAL REPRODUCTION OR USE OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT AND AUTHORIZATION OF THE PROJECT HEREIN. SIGNED: ANY TOTAL, PARTIAL REPRODUCTION OR USE OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT AND AUTHORIZATION OF THE PROJECT HEREIN. ESTE DOCUMENTO Y LA INFORMACIÓN CONTENIDA EN EL MISMO NO PODRÁ SER REPRODUCIDO NI USADO PARCIAL O TOTALMENTE SIN EL CONSENTIMIENTO Y AUTORIZACIÓN ESCRITA DE LA FIRMA DISEÑADORA DEL PROYECTO AQUÍ DESCRITO. THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESS WRITTEN CONSENT AND AUTHORIZATION OF THE DESIGN FIRM OF THE PROJECT HEREIN. ALL RIGHTS RESERVED. © 2024 STUDIO

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Carolina, PR. 00979 - Office Tel. +1 (787) 236-0639
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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

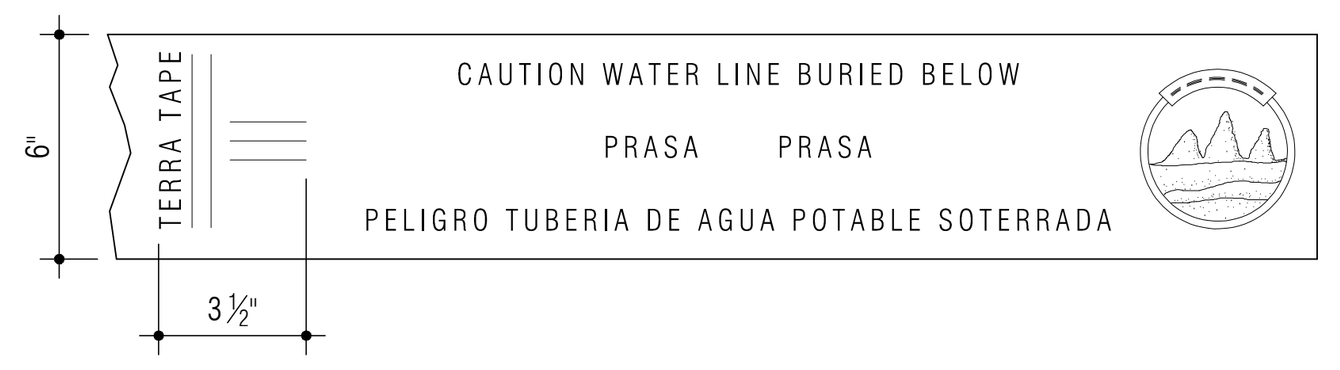
Plumbing Distribution Plan

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #: 22-03
PROJECT PHASE: Construction Docs - 100%
SHEET #: 57
DRAWN BY: krs
DATE: 26.vi.2024
DESCIPLINE

P-1.0

BID SET January 10, 2025



COLOR:
GREEN

MATERIAL:
ALUMINUM FOIL LAMINATED BETWEEN TWO LAYERS
OF INERT PLASTIC FILM

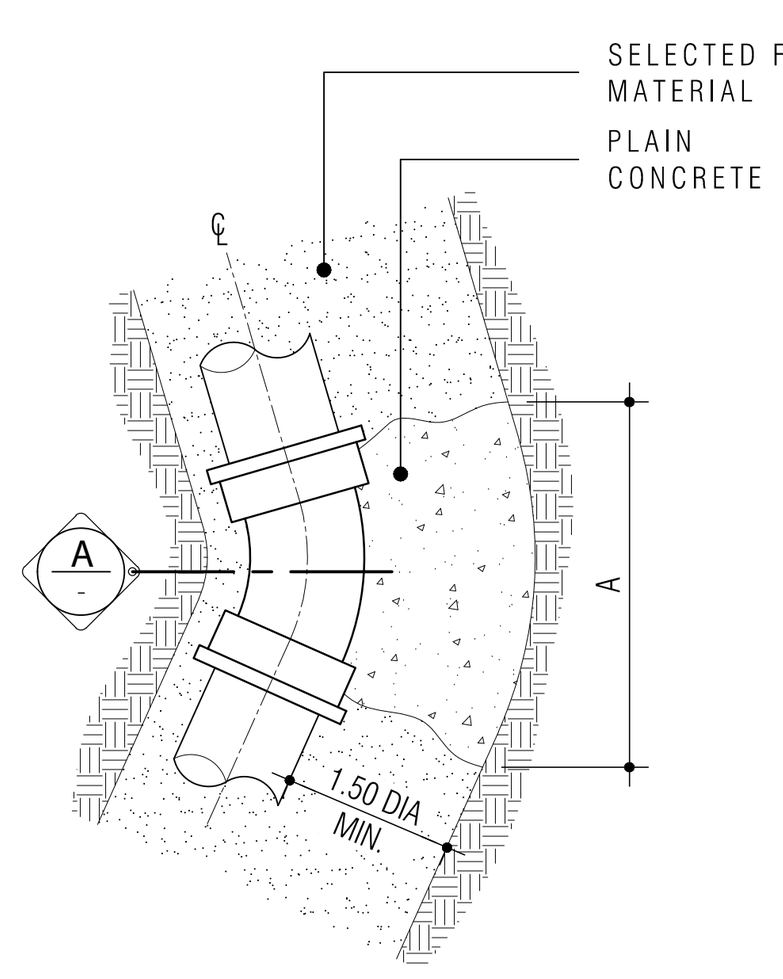
IMPRINT COLOR:
BLACK

COSTUMER:
PRASA SAN JUAN, PR

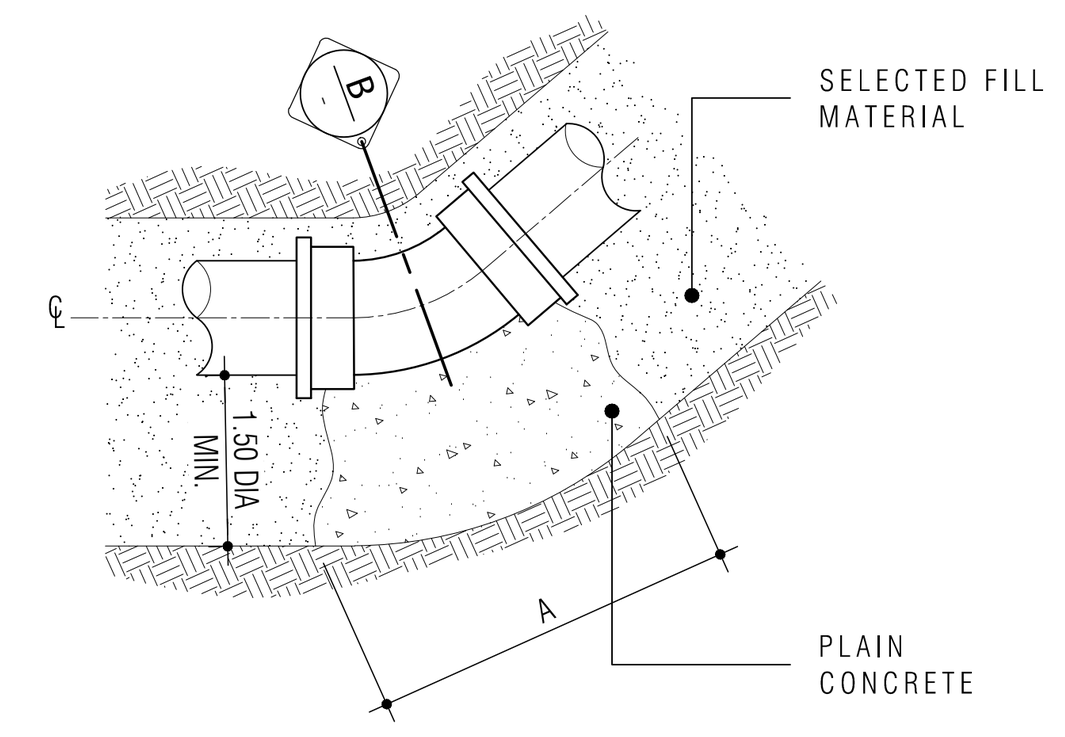
PRODUCT CODE:
6" 0521556,
3" 0531556

6" Detectable Marking Tape Detail for Water Main

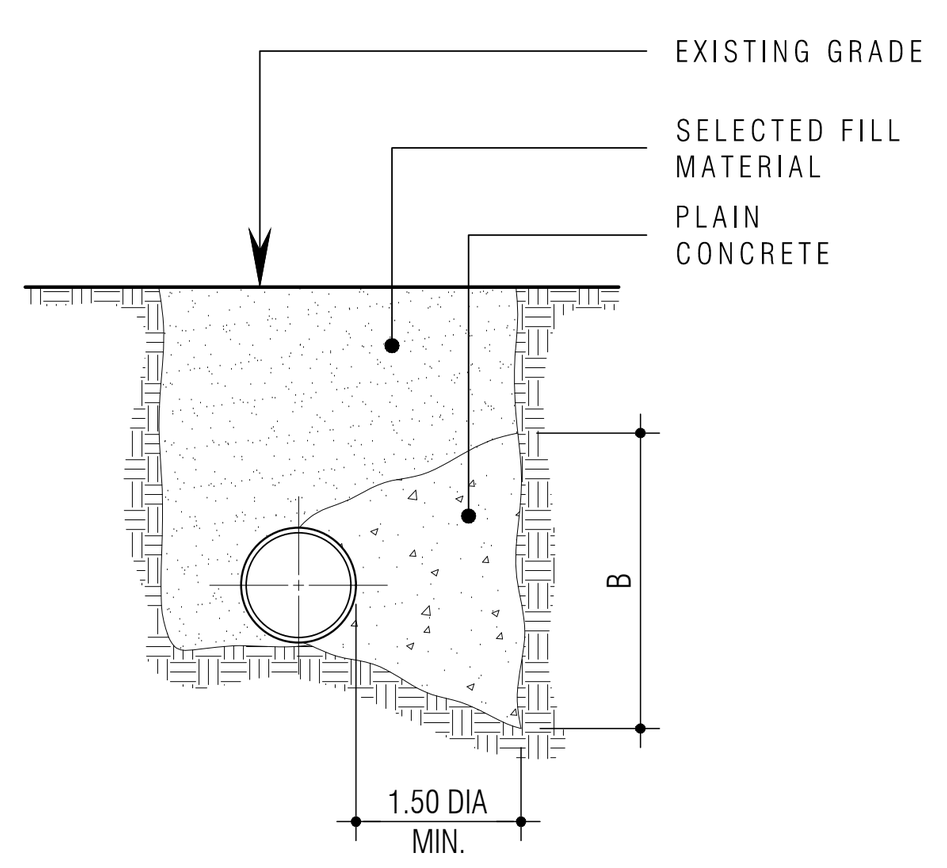
NOT TO SCALE



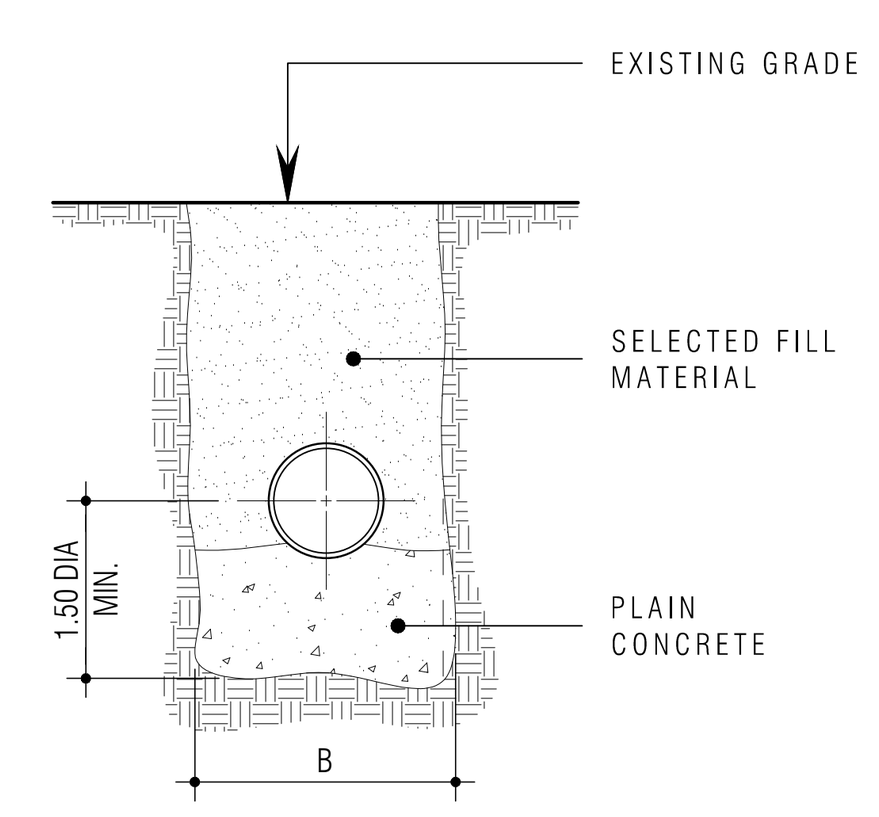
Plan



Profile



Section A



Section B

90° BEND		
DIA.	A	B
0'-4"	2'-0"	2'-0"
0'-6"	3'-0"	3'-0"
0'-8"	4'-0"	4'-0"
0'-10"	4'-0"	4'-0"
1'-4"	7'-0"	7'-0"

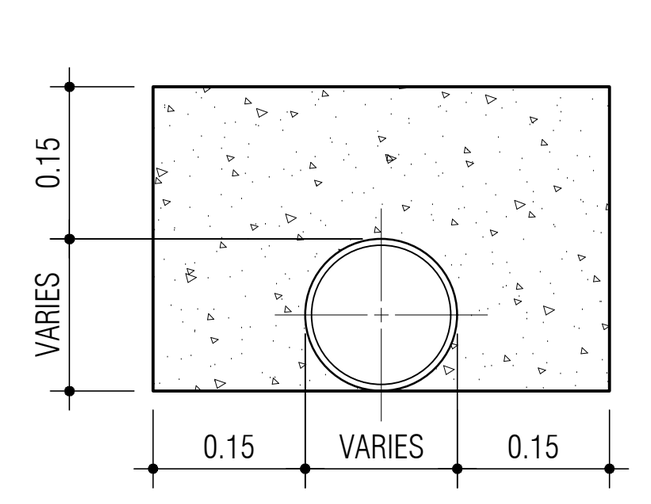
22.5° BEND		
DIA.	A	B
0'-4"	1'-0"	1'-0"
0'-6"	2'-0"	2'-0"
0'-8"	2'-0"	2'-0"
0'-10"	2'-0"	2'-0"
1'-4"	4'-0"	4'-0"

45° BEND		
DIA.	A	B
0'-4"	2'-0"	2'-0"
0'-6"	2'-0"	2'-0"
0'-8"	3'-0"	3'-0"
0'-10"	3'-0"	3'-0"
1'-4"	5'-0"	5'-0"

11.25° BEND		
DIA.	A	B
0'-4"	1'-0"	1'-0"
0'-6"	1'-0"	1'-0"
0'-8"	2'-0"	2'-0"
0'-10"	2'-0"	2'-0"
1'-4"	3'-0"	3'-0"

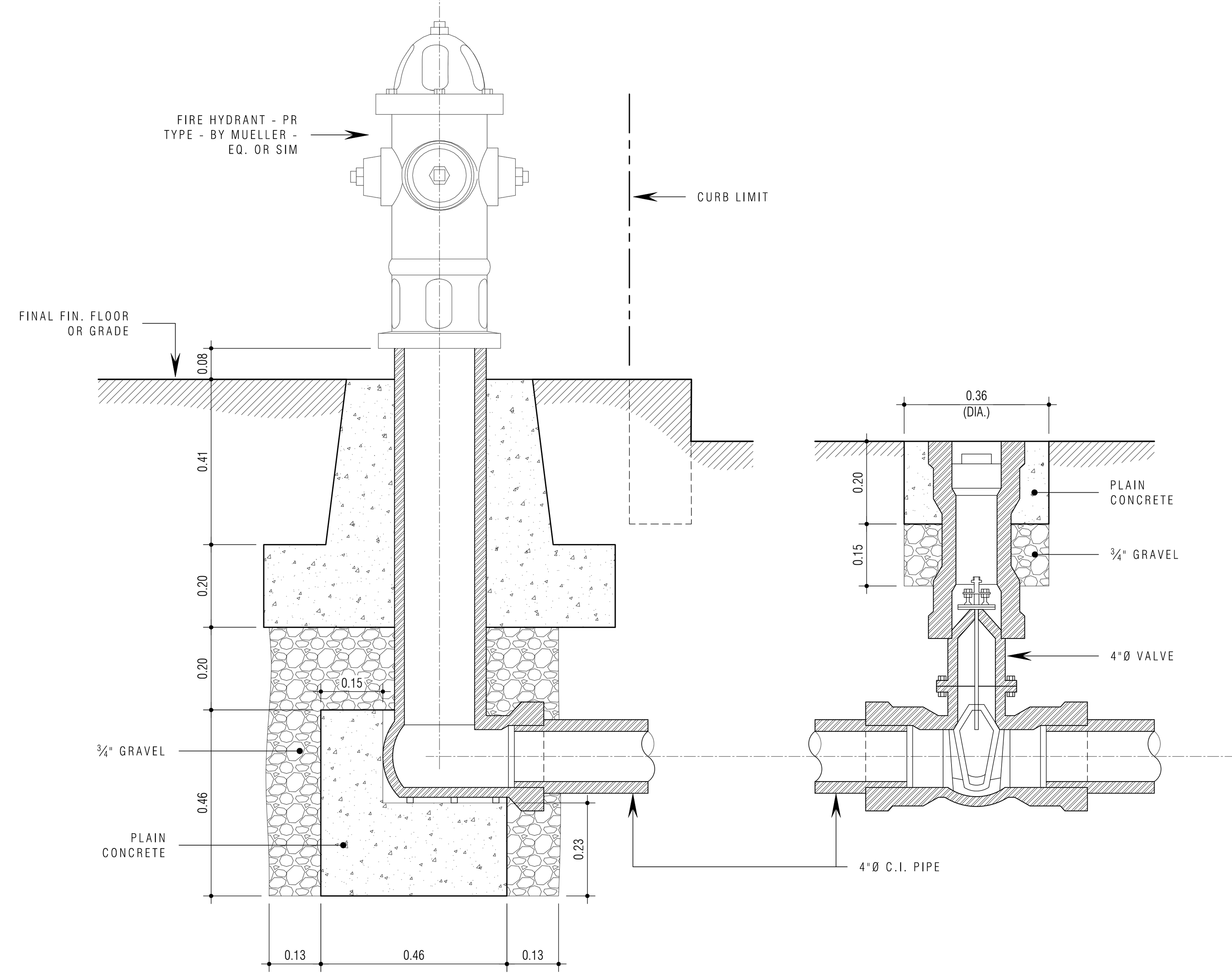
Thrust Block For Horizontal & Vertical Bends

NOT TO SCALE



Concrete Protection for House Connection Detail

NOT TO SCALE

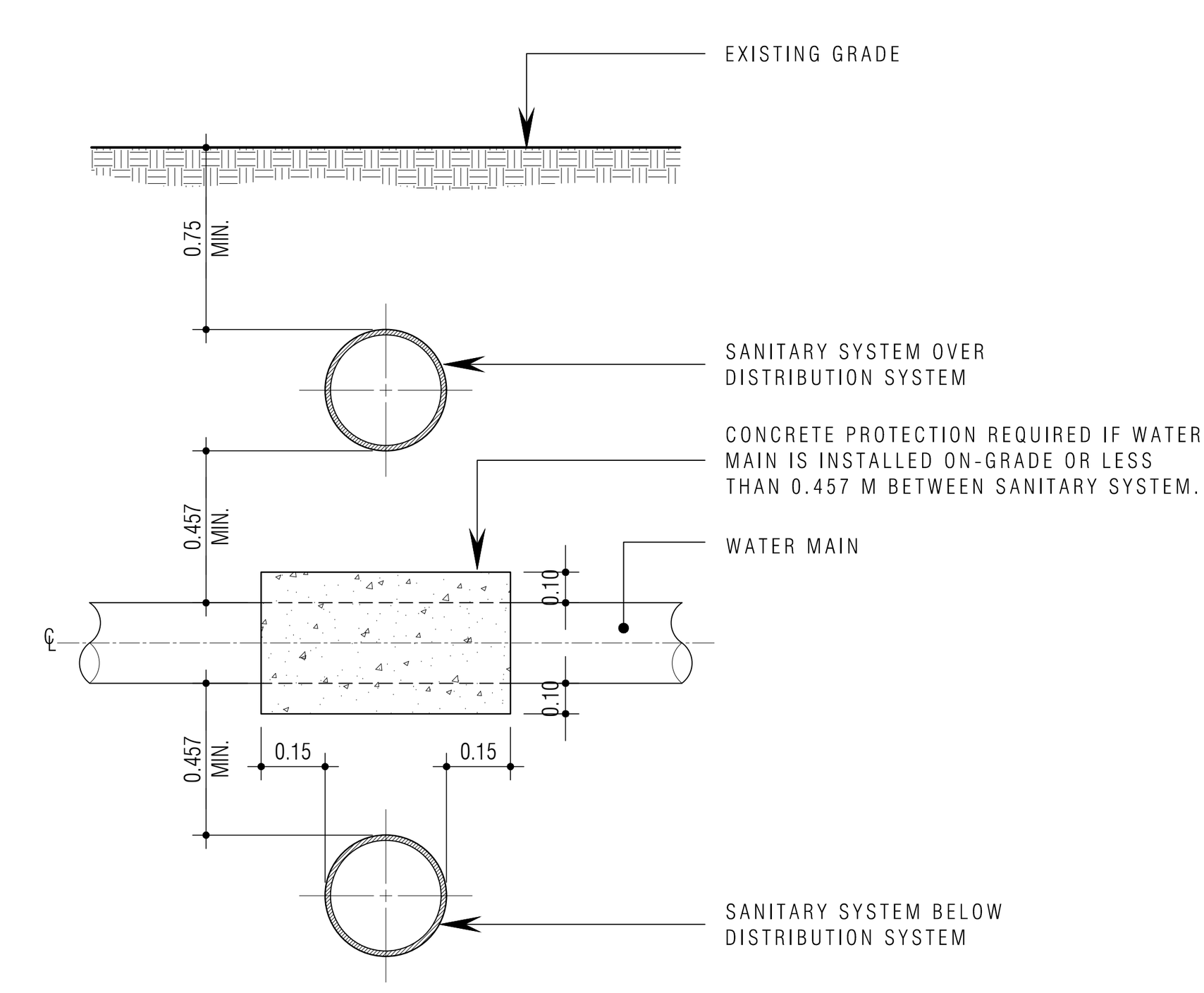


Notes

1. FIRE HYDRANTS TO BE SPACED AT 150 METERS MAX. FOR CURVED STREETS OR ROADS, THE MAXIMUM DISTANCE SHALL BE CALCULATED ON A LINE PARALLEL TO THE CENTER LINE OF THE STREET OR ROAD.
2. WHERE AVAILABLE, FIRE HYDRANTS TO BE INSTALLED IN PLANTING STRIP BETWEEN CURB AND SIDEWALK. IF NO PLANTING STRIP IS AVAILABLE, THEN THE FIRE HYDRANT TO BE INSTALLED AT A MINIMUM OF ONE METER FROM THE PROPERTY LINE.
3. FIRE HYDRANT TO BE INSTALLED FOUR (4) METERS (13 FT) MINIMUM FROM ANY STREET OR ROAD INTERSECTION, NOT INTERFERING WITH EXISTING DRIVEWAYS, RESIDENCE YARDS, OR OTHER ENTRIES.
4. PIPE CONNECTION TO BE DETERMINED AS FOLLOWS: 4"Ø PIPE CONNECTION WHERE THE SUPPLY WATER MAIN IS 4"Ø AND/OR 6"Ø PIPE CONNECTION WHERE THE SUPPLY WATER MAIN IS 6"Ø OR LARGER.

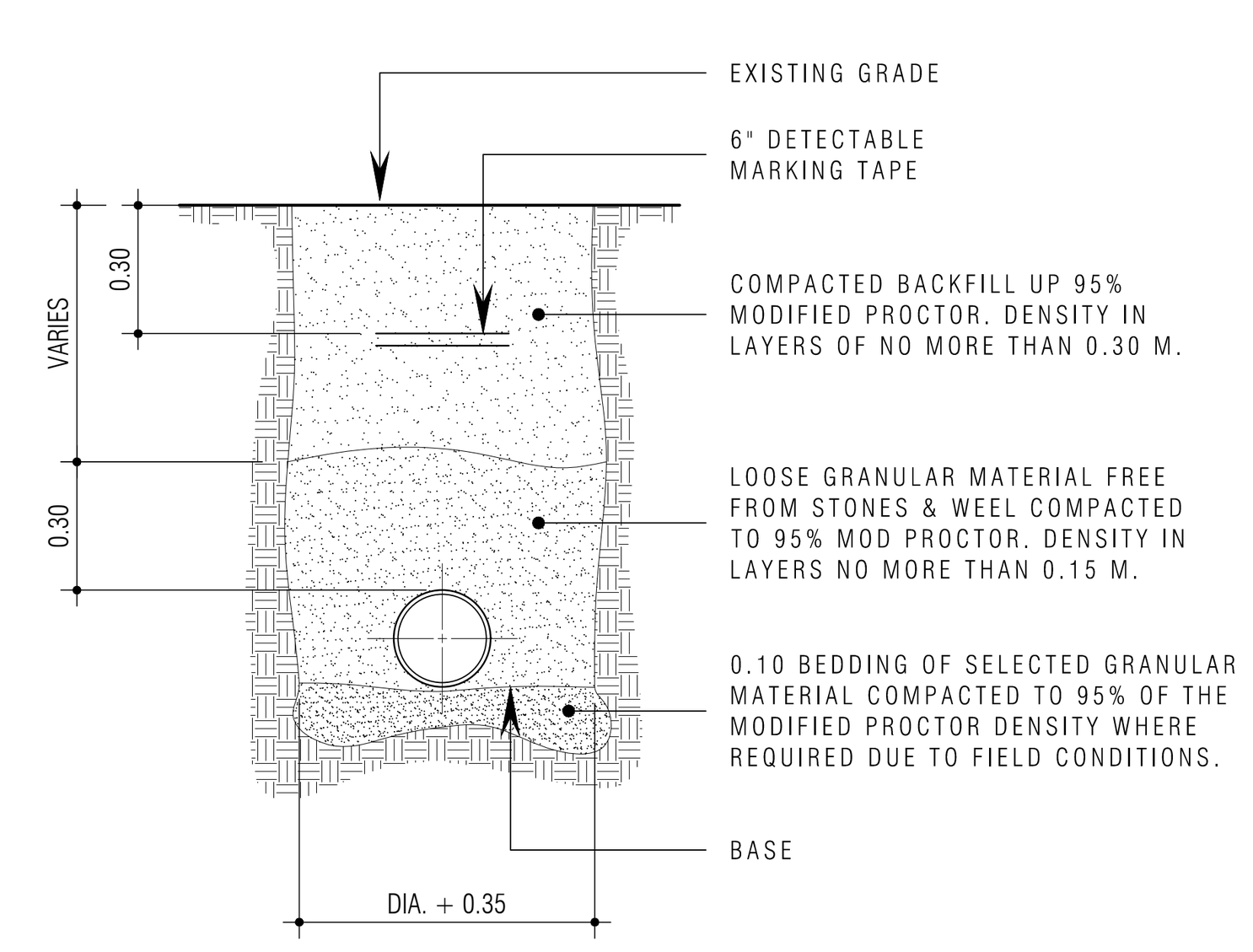
Fire Hydrant Detail

NOT TO SCALE



Water Main & Sanitary Crossing

NOT TO SCALE



Water Main Trench Detail

NOT TO SCALE

General Notes

1. ALL PLUMBING TO BE COORDINATED BETWEEN GENERAL CONTRACTOR, PLUMBING SUB-CONTRACTOR, AND ARCHITECT.
2. REFER TO ARCHITECTURAL DRAWINGS FOR REFERENCE AND UTILITIES LOCATION.
3. ANY ISSUES, DISCREPANCIES, OR CONFLICTS BETWEEN THE ARCHITECTURAL INTENTIONS AND ANY OTHER DISCIPLINE MUST BE BROUGHT FORTH SO THAT ALL PARTIES CAN PROPOSE SOLUTIONS.
4. PLUMBING DIAGRAMS ARE TO BE INTERPRETED AS BEST THE SITUATION ALLOWS AS TO NOT CONFLICT WITH THE ARCHITECT'S INTENTIONS.
5. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE AND THE NATIONAL PLUMBING CODE (A.S.A-A 40.8-1955) SPECIFICATION ISSUED OF THIS PROJECT.
6. ALL PLUMBING MATERIAL SHALL BE AS INDICATED IN SPECIFICATION ISSUED FOR THIS PROJECT,EXCEPT OTHERWISE NOTED OR CALLED FOR BY OWNER.
7. ALL VALVES SHALL BE PROVIDED IN THE WALL ON FLOOR OR AS R.Q.D.
8. LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
9. ALL HORIZONTAL PORTIONS OF SOIL AND WASTE STACKS AND BRANCHES, SHALL BE OF SLOPE 1/4" PER FEET,EXCEPT AS FOR OTHERWISE SHOWN.
10. ALL PIPES SHALL BE ADEQUATE AND SUPPORTED ON HANGERS OR CARRIERS AS R.Q.D. HANGERS SHALL BE PLACE AT 8 FEET INTERVALS FOR PIPE SIZES UP TO 4" DIAMETER.
11. THE SIZE GIVEN IN FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE USED EXCEPT IN SOME CASES WHERE THEY SHALL BE INCREASED AS R.Q.D.BY PLUMBING CODE.
12. THE PLUMBING CONTRACTOR SHALL SEEK APPROVAL AND ADVICE FROM THE ARCHITECT AND STRUCTURAL ENGINEER FOR THE LOCATION OF PIPES INSIDE STRUCTURAL CONCRETE, COMPLYING WITH A.C.I. BUILDING CODE,ART 703 LATEST EDITION.

Plumbing Notes for PRASA

1. ALL WATER METER BOXES TO BE INSTALLED OUTSIDE OF PROPERTY LIMITS, DRIVING LANES, PARKING, OR VEHICULAR ACCESS RAMPS.
2. ALL WATER METERS SHALL REGISTER WATER VOLUME IN CUBIC METERS.
3. ALL WATER METER BOXES TO BE BUILT FROM EITHER FLEXIBLE COPPER TYPE "K" OR BRONZE.
5. ALL BRANCH CONNECTIONS OF MAIN WATER LINE SHALL BE MECHANICAL CONNECTIONS (FLARE OR BOLTED). FOR FLEXIBLE COPPER, TYPE "K" ARE REQUIRED. FOR BRONZE, BOLTED CONNECTIONS ARE REQUIRED. WELDED CONNECTIONS ARE NOT ALLOWED.
6. ALL COLD WATER PIPES INSIDE & OUTSIDE OF BUILDING SHALL BE COPPER TYPE "K".
7. THE HORIZONTAL DISTANCE BETWEEN SANITARY AND WATER SUPPLY HOUSE CONNECTION LINES SHALL BE OF AT LEAST 5 FEET. THESE SHALL NOT BE INSTALLED WITHIN THE SAME EXCAVATION TRENCH.
8. CONTRACTOR SHALL VERIFY ON FIELD EXISTING LOCATION OF MAIN COLD WATER LINES ON STREET AND INSTALL NEW CONNECTIONS AS PER DETAIL.
9. WATER MAIN & CITY SEWER CONNECTIONS SHALL BE AS APPROVED BY P.R.A.S.A.
10. VALVES SHALL BE PROVIDED IN ALL CONNECTIONS OF WATER PIPES AND EQUIPMENTS OF EQUAL SIZE.
11. HORIZONTAL WASTE LINES AND SOIL PIPES LESS THAN 4" DIA. TO BE OF ¼"/FT SLOPE & GREATER THAN OR EQUAL TO 4" DIA. TO BE OF ⅛"/FT SLOPE.
12. ALL P.V.C. DRAIN PIPES AND FITTINGS FOR DRAIN, WASTE, & VENT SERVICE SHALL CONFORM TO THE U.S. DEPARTMENT OF COMMERCE STANDARD TS. 5608, BE MADE FROM POLYVINYL (CHLORIDE) P.V.C. TYPE I OR II COMPOUND OR EQ. AS PER ASTM DESIGNATION D1784 COT. & BEAR THE SEAL OF APPROVAL BY THE NATIONAL SANITATION FOUNDATION.
13. ALL P.V.C. PIPE TO BE SCH. 40 (EXCEPT OTHERWISE SPECIFIED).
14. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS WITH JURISDICTION.
15. THESE DRAWINGS CALL FOR FINISHED WORK, TESTED, BALANCED, AND PREPARED FOR OPERATION. BALANCE RECORDS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO SYSTEM APPROVAL.
16. MINOR DETAILS NOT SHOWN NOR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION, SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S WORK.
17. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCY BETWEEN ACTUAL MEASUREMENTS AND THOSE INDICATED, AND NOT PROCEED WITH THE WORK PRIOR TO RECEIPT OF INSTRUCTIONS FROM THE OWNER.
18. THE CONTRACTOR SHALL WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO AVOID CONFLICT WITH THE WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK, WHILE MAINTAINING THE DESIGN INTENT OF THE ARCHITECT.
19. WHERE REQUIRED, THE CONTRACTOR SHALL PREPARE AND SUBMIT THE NECESSARY SHOP DRAWINGS FOR THE APPROVAL OF THE ARCHITECT.
20. ALL FIXTURES, MATERIALS, & EQUIPMENTS SHALL BE INSTALLED AS PER MANUFACTURER SPECIFICATIONS.
21. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENTS TO BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS.
22. THE CONTRACTOR SHALL PATCH ALL SURFACES AFFECTED BY THE REQUIRED WORK SHOWN IN THESE DRAWINGS.
23. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE OWNER.
24. SLEEVES SHALL BE PROVIDED FOR ALL MECHANICAL PIPING THRU CONCRETE FLOOR SLABS AND CONCRETE, MASONRY, TILE AND DRYWALL CONSTRUCTION.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING SANITARY INVERT ELEVATIONS PRIOR TO ANY CONCRETE POUR, AND NOTIFYING THE ARCHITECT IF ANY SANITARY SLOPE CAN NOT BE ACHIEVED.
26. FINAL SANITARY AND POTABLE WATER CONNECTIONS ARE SUBJECT TO P.R.A.S.A. APPROVAL.

Notes:

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2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL



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e-mail: info@nformationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Plumbing Notes & Details

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

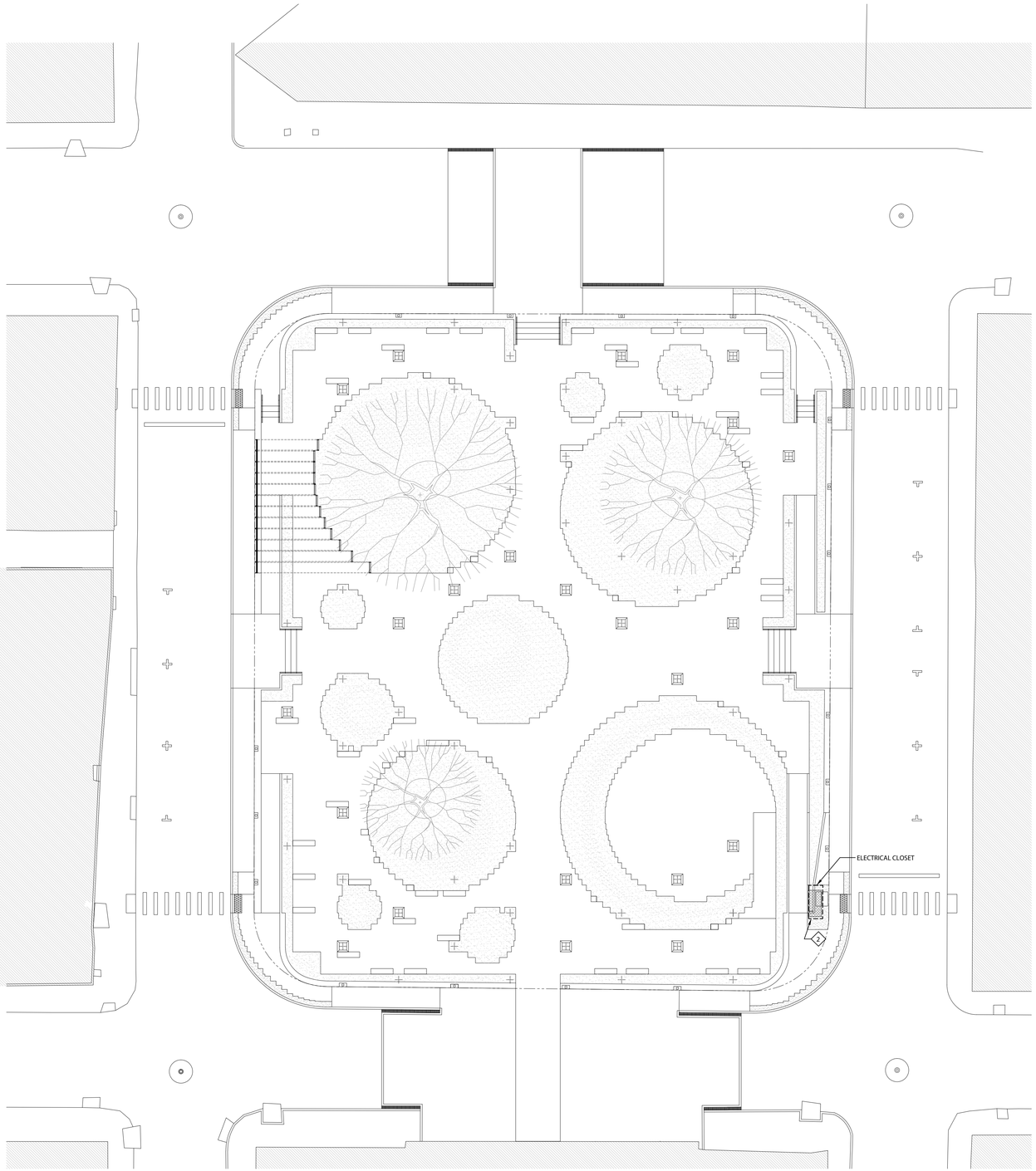
PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
58	krs	26.vi.2024

DISCIPLINE

P-2.0

BID SET January 10, 2025



Electrical Plan

SCALE : 1/8" = 1'-0"



SITE

LOCATION PLAN

SCALE : 1=20,000

LAMBERT COORDINATES

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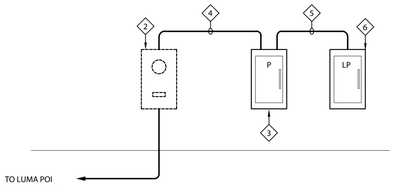
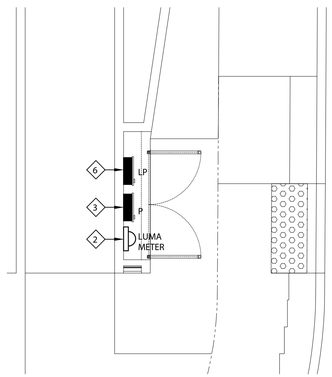


ONE LINE DIAGRAM

N.T.S.

LEGEND:

1. EXISTING ELECTRICAL FEEDER TO REMAIN.
2. EXISTING LUMA METER TO REMAIN.
3. NEW ELECTRICAL PANELBOARD.
4. NEW ELECTRICAL FEEDER 3#2-1#8 GND, 1½"C.
5. NEW ELECTRICAL FEEDER 3#4-1#8 GND, 1½"C.
6. NEW LIGHTING CONTROL PLAN



Electrical Closet Blow-up Plan

SCALE : ¼" = 1'-0"

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. # DATE ISSUING REASON

PROFESSIONAL SEAL

CERTIFICACIÓN - CERTIFICATE - PERMIT NUMBER

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- Suite 221 Carolina, PR, 00979 - Office
Tel. +1 (787) 256-1520 e-mail:
in.formation.studio@gmail.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

ENG. SEAL

Proposed Layout Plan

OWNER

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT # 22-03

PROJECT PHASE Construction Docs -100%

SHEET # 59

DRAWN BY jmb

DATE 05.II.2024

DISCIPLINE

E-1.0

PERMIT SET

DATE : JUNE 10, 2024

JRR JUAN R. RIVERA & ASSOCIATES P.S.C. M.E. M.P. M.A.P. M.S. P.E.

designed: A.LAZARO lic.: 11483

draftman: C.SANTIAGO lic.: 0388

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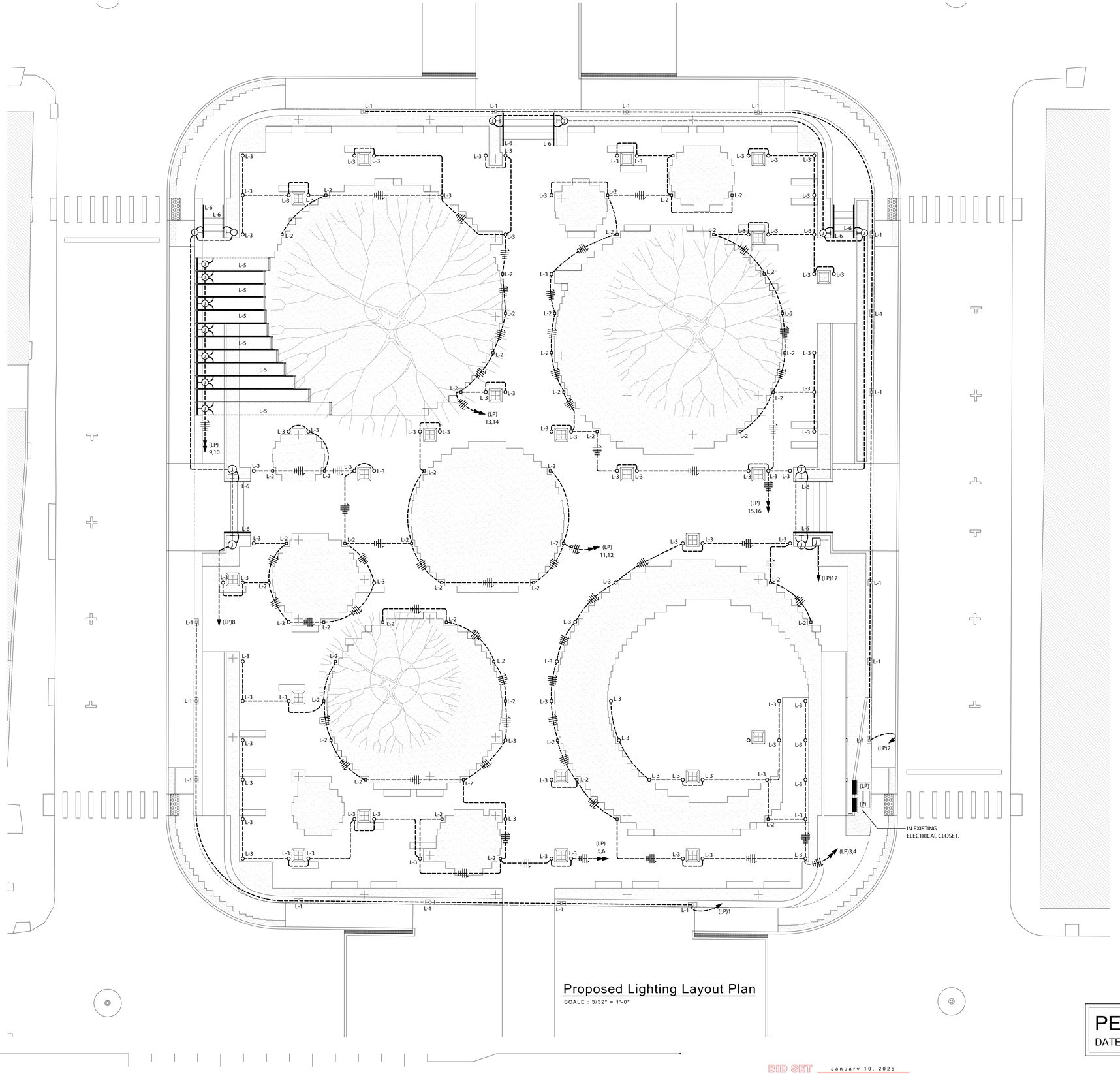
BID SET January 10, 2025



Proposed Lighting Layout Plan

SCALE : 3/32" = 1'-0"

NOTE:

1-MINIMUM WIRE GAUGE #8-1"C.

2-FOR LIGHTING FIXTURES SPECIFICATIONS REFER TO ARCHITECTURAL DRAWINGS.

3-FOR LIGHTING FIXTURES MOUNTING DETAILS REFER TO ARCHITECTURAL DRAWINGS.

Notes:

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REVISIONS

REV. # DATE ISSUING REASON

PROFESSIONAL SEAL

CERTIFICACIÓN - CERTIFICATE - PERMIT NUMBER

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YOUNG ARCHITECT(A) WHO SUBSCRIBES I DECLARE UNDER PROFESSIONAL OATH THAT THE PROJECT PREPARED AND SIGNED BY ME COMPLIES WITH THE TECHNICAL SPECIFICATIONS AND APPLICABLE PROVISIONS OF THE CURRENT BUILDING CODE. I ALSO CERTIFY THAT THE SPECIFICATIONS COMPLY WITH THE REGULATIONS AND PROVISIONS APPLICABLE TO THIS PROJECT, INCLUDING AMENDMENTS, REGULATORY BOARDS AND JURISDICTIONS.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderon Mujica. Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Proposed Lighting Layout Plan

OWNER

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT # 22-03 | PROJECT PHASE: Construction Docs +100%

SHEET # 60 | DRAWN BY jmb | DATE 05.II.2024

DISCIPLINE

E-2.0

JRR JUAN R. REDDIN & ASSOCIATES P.S.C. ARCHITECTS & PLANNERS

designed: A.LAZARO lic.: 11483

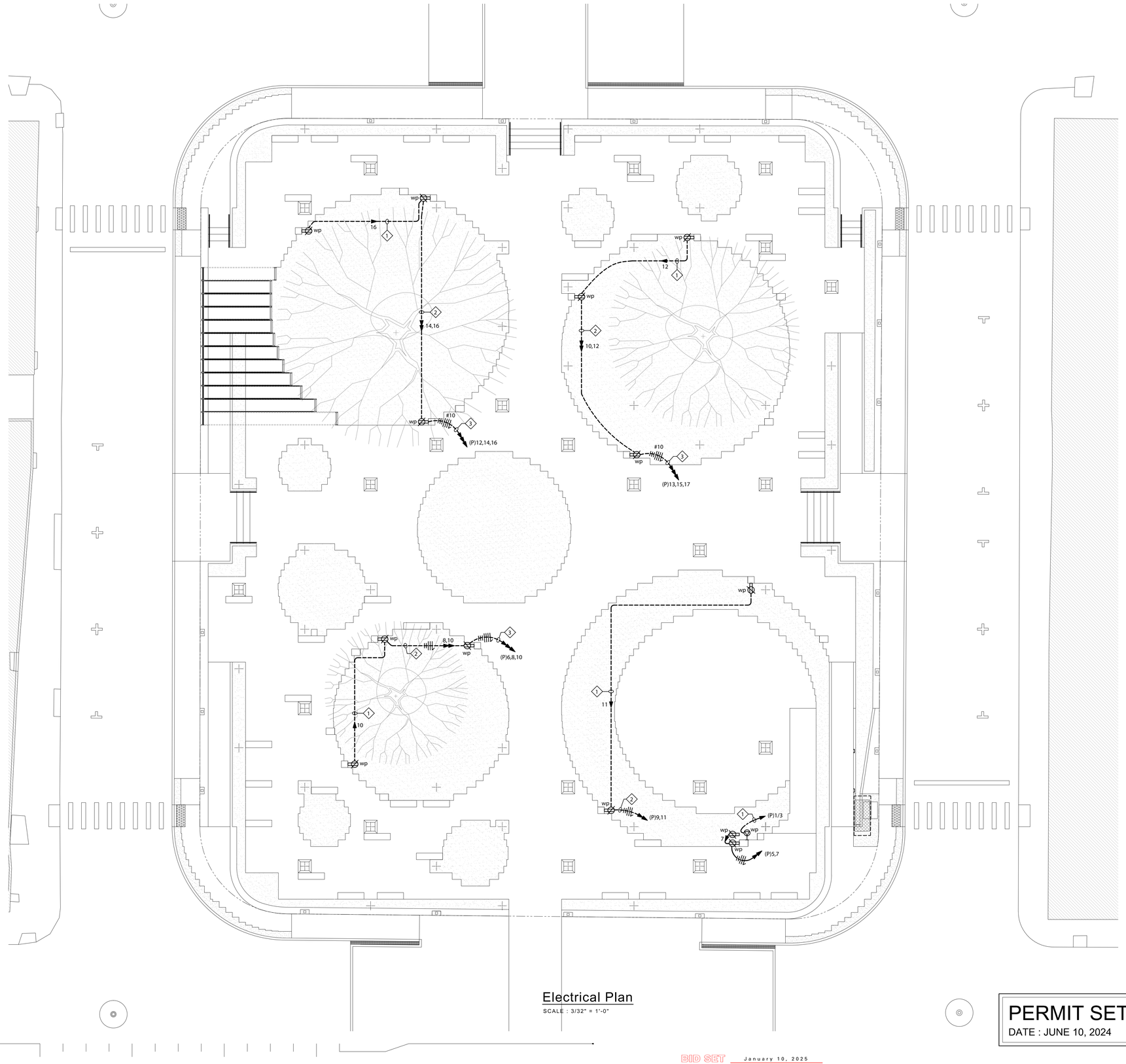
draftman: C.SANTIAGO lic.: 0388

This drawing is not authorized to be released for contract until fully approved by Architect, Owner and all corresponding Government Agencies including P.R.E.P.A. and Telephone Company.

PERMIT SET

DATE : JUNE 10, 2024

BID SET January 10, 2025



Electrical Plan

SCALE : 3/32" = 1'-0"

KEYED NOTES:

1. 2#10-1#10 GND, 1"C.
2. 4#10-1#10 GND, 1¼"C.
3. 6#10-1#10 GND, 1"C.

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON

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JULIEN MANTILLA
LICENSED ARCHITECT
ARCHITECTURAL CONSULTANT
PROFESSIONAL CERTIFICATIONS
TRAINING AND EXPERIENCE
SPECIFICATIONS
CONSTRUCTION DOCUMENTS
SPECIFICATIONS
PROJECT MANUAL
DESIGN
CONSTRUCTION
SUPERVISION
ADMINISTRATION
CONTRACTOR
SUBCONTRACTOR
SUPPLIER
MANUFACTURER
SHOP DRAWINGS
SUBMITTALS
SAMPLES
MOCK-UPS
TESTING
INSPECTIONS
SPECIAL INSPECTIONS
CERTIFICATIONS
WARRANTIES
GUARANTEES
BONDS
AND
ALL OTHER SERVICES REQUIRED, ANY TIME DURING THE DEVELOPMENT OF THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS AS NOTED WITHIN THIS DRAWING SET, SHALL BE RETURNED TO THE ARCHITECT'S STUDIO.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

ENG. TITLE

Proposed Power Layout Plan

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT # 22-03
PROJECT PHASE Construction Docs -100%
SHEET # 61
DRAWN BY jmb
DATE 05.11.2024
DISCIPLINE E-3.0

PERMIT SET
DATE : JUNE 10, 2024

JRR Juan F. Rivera & Associates P.S.C. Civil Engineers & Land Surveyors

designed: A.LAZARO lic.: 11483
draftman: C.SANTIAGO lic.: 0388

This drawing is not authorized to be released for contract until fully approved by Architect, Owner and all corresponding Government Agencies including P.R.E.P.A. and Telephone Company.

BID SET January 10, 2025

NOTES:

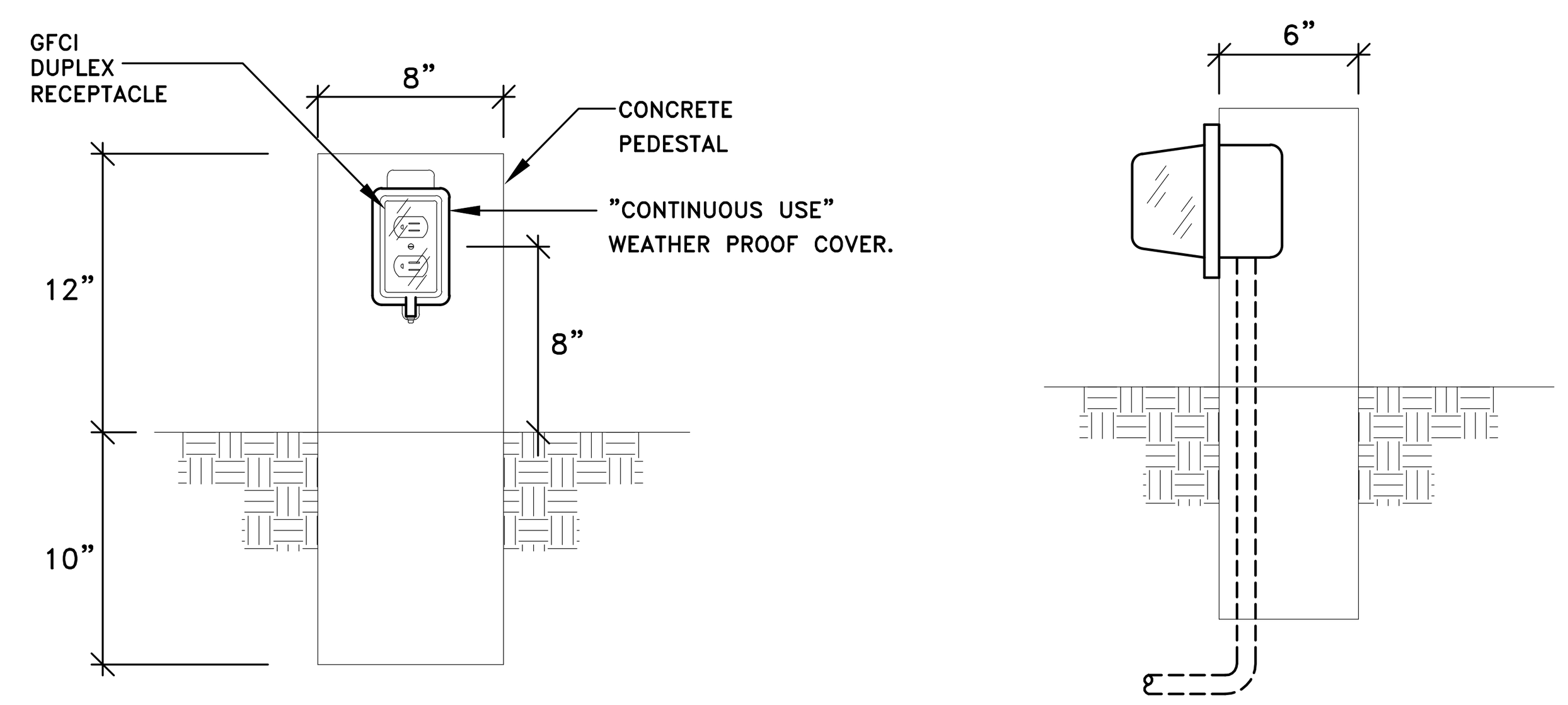
1-PVC SCH. 40 CONDUIT SHALL BE USED EXCEPT WHERE NOT ALLOWED BY N.E.C. OR UNLESS OTHERWISE INDICATED, 3/4" IPS MINIMUM SIZE.
2-PVC SCH. 40 FITTINGS SHALL BE CONCRETE TIGHT.
3-ALL CONDUCTORS SHALL BE COPPER, STRANDED, THHN INSULATED #12 AWG MINIMUM SIZE, UNLESS OTHERWISE NOTED.
4-ELECTRICAL INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH N.E.C. AND P.R.E.P.A. REGULATIONS, APPLICABLE EDITION.
5-INSTALLATION DETAILS ARE ILLUSTRATIVE AND SHOULD NOT BE USED WITHOUT VERIFYING JOB SITE CONDITIONS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ANY DEVIATION THEREFROM.
6-DIMENSIONS, QUANTITY AND LOCATION OF JUNCTION OR PULL BOXES SHALL BE REVISED BY ELECTRICAL CONTRACTOR ACCORDING TO ACTUAL FIELD CONDITIONS TO SECURE AT LEAST PERMISSIBLE MINIMUM CABLE BENDING RADIUS AND THE MAXIMUM PERMISIBLE PULLING TENSION. THERE SHALL NOT BE MORE THE EQUIVALENT OF FOUR (4) QUARTER BENDS (360° TOTAL) BETWEEN CABLE PULL POINTS.
7-RACEWAY SHALL BE PROVIDED WITH APPROVED EXPANSION FITTINGS WHERE CROSSINGS BUILDING EXPANSION JOINT.
8-ELECTRICAL CONTRACTOR SHALL PROVIDE POWER & CONNECT ALL EQUIPMENT FURNISHED UNDER OTHER SECTION OF THE SPECIFICATIONS. FINAL CONNECTION SHALL BE DONE UNDER THE SUPERVISION OF THE RESPECTIVE CONTRACTORS.
9-INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
10-CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND/OR EQUIPMENT REQUIRED FOR A COMPLETE WORKING SYSTEM.
11-ALL CONDUIT IN DIRECT CONTACT WITH EARTH SHALL BE PVC SCH.40 PROVIDE WITH A GROUNDING CONDUCTORS AS PER N.E.C.
12-ALL PANELBOARDS SHALL BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS. FINAL LOCATION OF PANELBOARDS MAY VARY IN ACOORDANCE TO FIELD CONDITIONS. CONTRACTOR SHALL PREPARE SHOP DRAWING PRIOR TO FINAL EQUIPMENT INSTALLATION.
13-ROUTE OF CONDUITS SHOWN IN LAY-OUT IS SCHEMATIC AND INTENDED ONLY TO INDICATE INTERCONNECTIONS BETWEEN OUTLETS. EXACT ROUTING SHALL BE DETERMINED WITH STRUCTURAL CONDITIONS.
14-CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR ALL UNDERGROUND PIPES, CONDUITS AND PULL BOXES.
15-MINIMUM CLEARANCES SHOWN FOR ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH ELECTRICAL EQUIPMENT MANUFACTURER AS PART OF SHOP DRAWING SUBMITTAL; IT SHALL COMPLY WITH NEC-110 AND BE VERIFIED BEFORE SHOP DRAWING SUBMITTAL & ORDERING OF EQUIPMENT.
16-ANY UNDERGROUND CONDUIT FOR SECONDARY FEEDER SHALL BE BURIED AT A MIN. DEPTH OF 36" BELOW FINISHED GRADE, UNLESS COVERED BY 4" CONCRETE ENVELOPE IN WHICH CASE MIN. DEPTH SHALL BE 18" BELOW FINISHED GRADE LEVEL.
17-CONTRACTOR SHALL VERIFY ALL DISTANCES AT FIELD.
18-PROVIDE GROUND CONDUCTOR IN ALL CONDUITS RUNS AS PER NEC. 250.
19-ALL EQUIPMENTS AND RACEWAYS SHALL BE SEISMICALLY RATED AND SEISMICALLY SUPPORTED AS REQUIRED IN IBC 2018.
20-ALL EXTERIOR, EXPOSED JUNCTION BOXES SHALL BE WEATHERPROOF TYPE UNLESS OTHERWISE NOTED.
21-ALL BOXES SHALL BE 4" X 4" X 2½" MINIMUM GALVANIZED STEEL, PROVIDE 1 GANG R.C. WHEN ONLY ONE WIRING DEVICE IS SHOWN.
22-THIS DRAWINGS ARE A SCHEMATIC REPRESENTATION OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL NOT RUN CONDUITS THRU ANY FIRE RATED CHASE, WALL, SLAB, OR BARRIER. IF A CONDUIT OR J.BOX IS INSTALLED OR ANY PENETRATION IN OR THRU FIRE RATED BARRIER, WALLS, CHASE, FLOORS, CEILING SLABS OR ANY CONDUITS PASSING FROM ONE LEVEL TO ANOTHER THRU THE FLOOR OR CEILING SLABS SHALL BE SEALED ACCORDINGLY TO IN ORDER TO MAINTAIN THE FIRE RESISTANT RATING OF THE OF THE WALL, SLAB, ENCLOSURE OR ASSEMBLY. RACEWAY PENETRATIONS THROUGH FIRE RATED PARTITIONS, CEILINGS, SLABS, AND SIMILAR COMPONENTS SHALL BE SEALED WITH FM & UL LISTED FIRE RETARDANT STOPS, FITTINGS, SEALING COMPOUNDS AND SLEEVES. FIRE STOP BARRIERS SHALL BE RATED BASED ON THE AFFECTED ASSEMBLY FIRE RATING. FIELD COORDINATE WITH ARCHITECTURAL, STRUCTURAL PLANS AND UTILITY FOR EXACT RATING AND LOCATION OF FIRE RATED PARTITIONS.
23-ALL INDICATED HEIGHTS ARE FROM CENTER OF BOX TO FINISHED FLOOR.
24-PRIOR TO ORDERING OF EQUIPMENT CONTRACTOR MUST VERIFY EQUIPMENT IS COMPATIBLE WITH ELECTRICAL SERVICE PROVIDED IN DWGS. (VOLTS, BREAKER, 60Hz).
25-ALL CONDUCTORS SHALL BE COPPER, STRANDED, THHN INSULATED #12 AWG MINIMUM SIZE, UNLESS OTHERWISE NOTED.
26-ANY PERFORATION ON FLOOR OR ROOF SLABS MUST BE COORDINATED WITH OWNER TO CONFIRM DRILL LOCATIONS X-RAY STUDY REQUIREMENTS.
27-WORKING HOURS FOR ANY KIND OF WORK THAT INVOLVES NOISE, ODOR, OR ANY KING OF DISRUPTION THAT MAY AFFECT OTHER TENANTS IN THE BUILDING SHALL BE CONDUCTED ON NON WORKING HOURS.
22-CONTRACTOR SHALL PROVIDE & INSTALL A #14 FISHWIRE IN EVERY EMPTY CONDUIT.
24-ALL EXPOSED CONDUIT RUN SHALL BE RIGID STEEL GALVANIZED.
29-ALL INDICATED HEIGHTS ARE FROM CENTER OF BOX TO FINISHED FLOOR.
30-PRIOR TO ORDERING OF EQUIPMENT CONTRACTOR MUST VERIFY EQUIPMENT IS COMPATIBLE WITH ELECTRICAL SERVICE PROVIDED IN DWGS. (VOLTS, BREAKER, 60Hz).
33-WIRING DEVICES AND PLATES SPECIFICATION GRADE, SPECIFICATION GRADE, TO MATCH COLOR SELECTED BY ARCHITECT.
34-ELECTRICAL CONTRACTOR MUST MAKE FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT UNDER THE DIRECT SUPERVISION OF THE MECHANICAL CONTRACTOR FROM A DiSCONNECT SWITCH OR MAGNETIC STARTER FURNISHED AND INSTALL BY ELECTRICAL CONTRACTOR LOCATED 5'-0" FROM EACH MOTOR.
35-ALL CONDUITS PASSING FROM ONE LEVEL TO ANOTHER THRU THE FLOOR, CEILING SLABS, WALLS OR ANY PENETRATION SHALL BE SEALED ACCORDING TO THE FIRE RESISTANT RATING OF THE ASSEMBLY.
36-CONTRACTOR MUST COORDINATE ALL MOTOR'S OVERLOAD PROTECTION WITH MOTOR HORSEPOWER.
37-ALL EXTERIOR WEATHERPROOF RECEPTACLES MUST BE PROVIDED WITH WHILE IN USE WEATHERPROOF PLATE.
38-CONTRACTOR SHALL BALANCE ALL LOADS.
39-PRIOR TO ANY PERFORATION OR THE INSTALLATION OF CONDUITS TO STRUCTURAL MEMBERS OF THE BUILDING OR TO CEILING OR FLOOR SLABS CONTRACTOR MUST CONSULT WITH BUILDING STRUCTURAL ENGINEER AND ADMINISTRATION TO OBTAIN A WRITTEN APPROVAL OF METHODS, LOCATION AND ROUTES.
40-ALL INDICATED HEIGHTS ARE FROM CENTER OF BOX TO FINISHED FLOOR.

LEGEND:

CIRCUIT BREAKER PANELBOARD, 6'-0" A.F.F. TO TOP
NEW CONDUIT RUN IN HUNG CEILING
NEW CONDUIT RUN EXPOSED
NEW CONDUIT RUN EMBEDDED IN FLOOR SLAB OR WALLS (WIRING AS PER MANUFACTURER RECOMENDATIONS)
CONDUIT RUN TO PANELBOARD CIRCUIT BREAKERS AS INDICATED
HASH MARKS INDICATED NUMBER OF CONDUCTORS (LEFT TO RIGHT: PHASE/SWITCH LEG/NEUTRAL/GROUND) NO HASH MARKS INDICATES 2#12-1#12 GND. 3/4"C. UNLESS OTHERWISE INDICATED.
UP CONDUIT STUB-UP
DN. CONDUIT STUB-DOWN

ABREVIATIONS

"G.F.I." DENOTES GROUND FAULT CIRCUIT INTERRUPTER
"AFF" DENOTES ABOVE FINISHED FLOOR
"FBO" DENOTES FURNISHED BY OTHERS
"AEE" DENOTES P.R. ELECTRIC POWER AUTHORITY
W.P. WEATHER PROOF
N DENOTES NEW
E DENOTES EXISTING TO REMAIN
R EXISTING RELOCATED DEVICE
ER DENOTES EXISTING TO BE REMOVED
NL NIGHT LIGHT



OUTDOOR PEDESTAL FOR RECEPTACLE (TYP.)
N.T.S.

LUTRON (LP)

LUTRON XPS24-120ML-20-CGP1158, MAIN LUGS WITH 20A GFCI BREAKERS FOR EACH RELAY MODULE WITH POWER SUPPLY, PROCESSOR & PROGRAMMABLE INTERFACE

PANEL	BREAKER	CKT NO.	CONTROL ZONE	LOCATION	FIXTURE DESCRIPTION	FIXTURE TYPE	LEVEL	LOAD TYPE	DIM	NON DIM	LOAD WATTS	TOTAL WATTS	DIM TYPE	MODULE LOAD
LP	20-1P-GFCI	1		SIDE WALK	LIGHT COLUMN	7(L1)		LED		X	33			231
	20-1P-GFCI	2		SIDE WALK	LIGHT COLUMN	10(L1)		LED		X	33			330
	20-1P-GFCI	3		PLAZA AREA	INGRADE	6(L2)		LED		X	15			90
	20-1P-GFCI	4		PLAZA AREA	BOLLARDS	23(L3)		LED		X	8			184
	20-1P-GFCI	5		PLAZA AREA	INGRADE	13(L2)		LED		X	15			195
	20-1P-GFCI	6		PLAZA AREA	BOLLARDS	16(L3)		LED		X	8			128
	20-1P-GFCI	7		SPARE										
	20-1P-GFCI	8		STAIR	LINEAR	4 (8LF)(L4)		LED		X	3.2W/LF.			105
	20-1P-GFCI	9		PERGOLA	LINEAR	(253LF)(L5)		LED		X	3.2W/LF.			325
	20-1P-GFCI	10		PERGOLA	LINEAR	(253LF)(L5)		LED		X	3.2W/LF.			325
	20-1P-GFCI	11		PLAZA AREA	INGRADE	11(L2)		LED		X	15			165
	20-1P-GFCI	12		PLAZA AREA	BOLLARDS	12(L3)		LED		X	8			96
	20-1P-GFCI	13		PLAZA AREA	BOLLARDS	12(L3)		LED		X	8			96
	20-1P-GFCI	14		PLAZA AREA	INGRADE	7(L2)		LED		X	15			105
	20-1P-GFCI	15		PLAZA AREA	BOLLARDS	23(L3)		LED		X	8			184
	20-1P-GFCI	16		PLAZA AREA	INGRADE	15(L2)		LED		X	15			225
	20-1P-GFCI	17		STAIR	LINEAR	6 (8LF)(L6)		LED		X	3.2W/LF.			155
	20-1P-GFCI	18												
	20-1P-GFCI	19												
	20-1P-GFCI	20												
	20-1P-GFCI	21												
	20-1P-GFCI	22												
	20-1P-GFCI	23												
	20-1P-GFCI	24												

PANELBOARD SCHEDULE

PANEL DESCRIPTION: P
VOLTS: 240/120V-3PH-4W
MOUNTING: SURFACE
PANEL TYPE: CUTLER HAMMER
LOCATION: ELECTRICAL CLOSET
AMPS: 200A
I.C.: 10,000
REMARKS: -

LOAD DESCRIPTION	FRAME	TRIP	CKT. NO.	CKT. NO.	TRIP	FRAME	LOAD DESCRIPTION
POWER OUTLET		30	1	2	70	GFI	LIGHTING PANEL
			3	4			
POWER OUTLET	GFI	30	5	6	20	GFI	POWER OUTLETS
POWER OUTLET	GFI	30	7	8	20	GFI	POWER OUTLETS
POWER OUTLET	GFI	20	9	10	20	GFI	POWER OUTLETS
POWER OUTLET	GFI	20	11	12	20	GFI	POWER OUTLETS
POWER OUTLET	GFI	20	13	14	20	GFI	POWER OUTLETS
POWER OUTLET	GFI	20	15	16	20	GFI	POWER OUTLETS
POWER OUTLET	GFI	20	17	18	20	GFI	POWER OUTLETS
SPARE	GFI	20	19	20	20	GFI	POWER OUTLETS
SPARE	GFI	20	21	22	20	GFI	SPARE
SPARE	GFI	20	23	24	20	GFI	SPARE
SPARE	GFI	20	25	26	20	GFI	SPARE
SPARE	GFI	20	27	28	20	GFI	SPARE
SPARE	GFI	20	29	30	20	GFI	SPARE

PERMIT SET
DATE : JUNE 10, 2024

JUAN R. REQUENA & ASSOCIATES
ELECTRICAL ENGINEERS
P. O. BOX 1587 HATO REY, PUERTO RICO 00919
designed: A.LAZARO lic.: 11483
draftman: C.SANTIAGO lic.: 0388

This drawing is not authorized to be released for contract until fully approved by Architect, Owner and all corresponding Government Agencies including P.R.E.P.A. and Telephone Company.

Notes:
1.0 Do not scale dimensions from drawings. Dimensions govern.
2.0 All dimensions are in feet and inches, unless noted otherwise.
3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.
4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.
5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS
REV. # DATE ISSUING REASON

PROFESSIONAL SEAL

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

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6777 Av. Isla Verde, Edificio Isla Verde Mall - Suite 221 Carolina, PR, 00979 - Office Tel: +1 (787) 236-0830 e-mail: info@nformationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

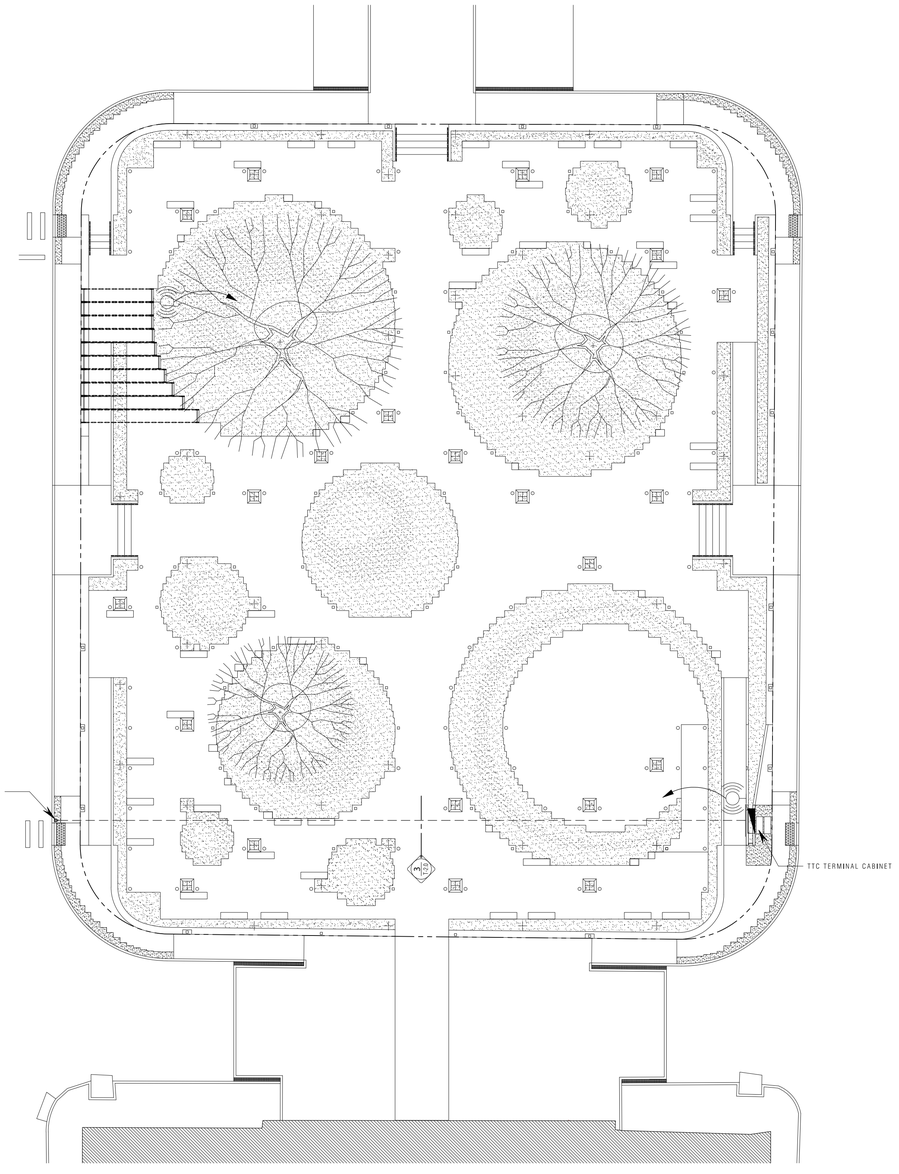
DWG. TITLE

Legend, Notes & Schedules

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

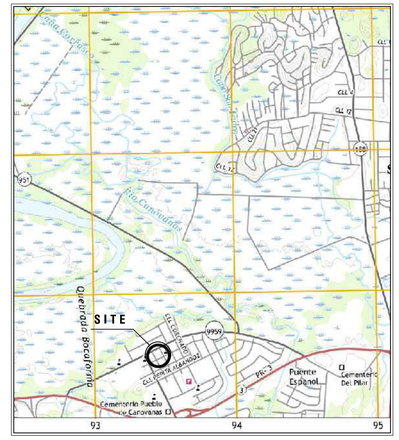
PROJECT # 22-03
PROJECT PHASE Construction Docs -100%
SHEET # 62
DRAWN BY jmb
DATE 05.ii.2024
DISCIPLINE
E-4.0

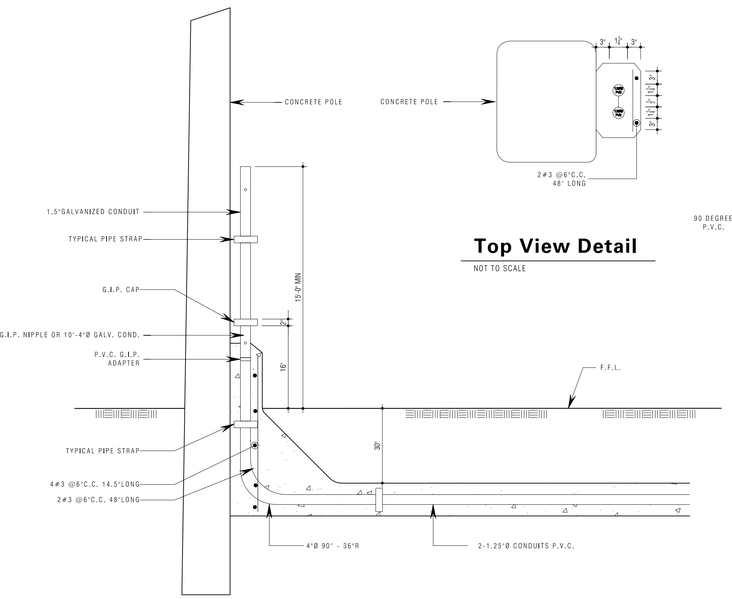
BID SET January 10, 2025



Telecommunication Site Plan

SCALE : 3/16" = 1'-0"





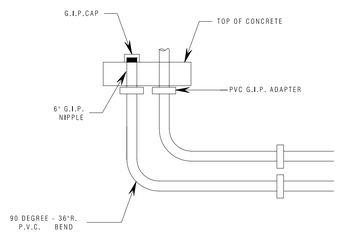
Typical Riser Detail

NOT TO SCALE

1 T-2.0

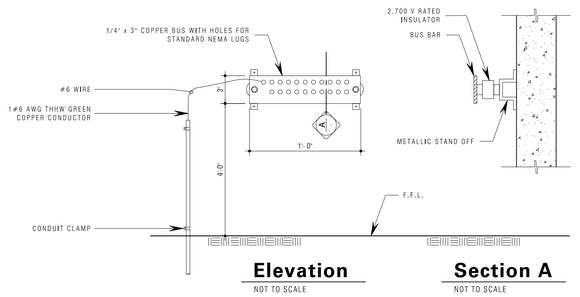
Top View Detail

NOT TO SCALE



Lateral Elevation

NOT TO SCALE



Elevation

NOT TO SCALE

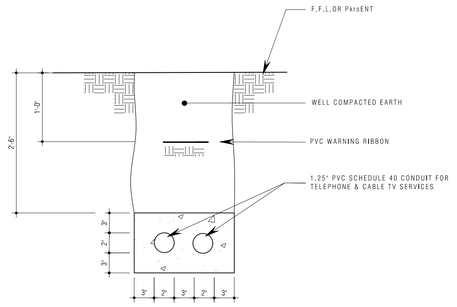
Section A

NOT TO SCALE

Tel. & Data Room Ground Bar

NOT TO SCALE

2 T-2.0



Trench Section Detail

NOT TO SCALE

3 T-2.0

Front Elevation

NOT TO SCALE

Section B

NOT TO SCALE

Cover Detail

NOT TO SCALE

SIDE DETAIL

Lateral Elevation

NOT TO SCALE

Seal Conduit Detail

NOT TO SCALE

Telecomunications Riser Diagram

NOT TO SCALE

General Notes

1. THE DEVELOPER OR HIS REPRESENTATIVES SHALL SUPPLY AND INSTALL ALL MATERIALS REQUIRED FOR THE TELECOMMUNICATIONS INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO THE 1", 2" AND 4" DIAMETER CONDUITS SHOWN ON THE PRINTS.

2. THE 1"Ø CONDUITS SHALL BE PVC SCH. 40 RODDED WITH 1/8" ® NYLON ROPE.

3. THE 2"Ø PVC CONDUIT (FOR CATV DISTRIBUTION OF FACILITIES) AND THE 4"® (FOR TELEPHONE DISTRIBUTION FACILITIES) SHALL BE INSTALLED IN THE TELECOMMUNICATIONS EASEMENT. THE 2"Ø CONDUITS SHALL BE INSTALLED ON THE SIDEWALK SIDE OF THE TRENCH AND THE 4"Ø ON THE FARTHERMOST SIDE OF THE TRENCH FROM THE SIDEWALK (SEE EASEMENT CONDUIT INSTALLATION DETAIL)

4. THE 2"Ø AND 4"Ø CONDUITS SHALL BE SCH. 40 (MINIMUM) RODDED WITH ½"® NYLON ROPE WITH A MINIMUM BREAKING STRENGTH OF 500 LBS. AND SHALL BE TESTED WITH 1-3/5" AND 3-5/8" MANDRELS

5. ALL CONDUIT ENDS SHALL BE CAPPED WITH PVC END CAPS.

6. THE MINIMUM DEPTH OF THE CONDUITS PLACED ALONG THE EASEMENT AND SERVICE CONDUITS TO EACH RESIDENCE SHALL BE: a. 1"Ø CONDUITS 14" BELOW GROUND LEVEL b. 2"Ø CONDUITS 24" BELOW GROUND LEVEL C. 4"Ø CONDUITS 24" BELOW GROUND LEVEL.

7. IF CONDUITS ARE INSTALLED ON CONCRETE, PLASTIC SPACERS SHALL BE INSTALLED EVERY SIX FEET (6) OR AS SPECIFIED BY THE MANUFACTURER IN ORDER TO MAINTAIN THE PROPER CONDUIT FORMATION AND SEPARATION.

8. WHEN EXPOSED TO VEHICULAR TRAFFIC (HIGHWAY STREET AND CARPORT CROSSINGS) CONDUITS SHALL BE INSTALLED AT A DEPTH BETWEEN 30" AND 36" MEASURED FROM THE SURFACE OF THE PAVEMENT AND SHALL BE ENCASED IN CONCRETE WITH A MINIMUM RESISTANCE OF 3000 LBS. PER SQUARE INCH (3000 PSI).

9. TRENCH BACKFILLING SHALL BE PERFORMED WITH SELECTED MATERIALS FREE OF LARGE STONES AND OTHER CONTAMINANTS SUCH AS SCRAPS OF WOOD, ASPHALT, CONCRETE PAVEMENT ETC. BACKFILL SHALL BE COMPACTED TO 95% IN 6" LAYERS BY MEANS OF A TAMPER. WITH THE FIRST (12") INCHES TAMPED USING LIGHTWEIGHT EQUIPMENT.

10. A SIX INCH WIDE ORANGE WARNING RIBBON (EQUAL OR SIMILAR TO TERRA TAPE 42-007) SHALL BE INSTALLED AT A DEPTH OF TWELVE INCHES 12" BELOW GROUND LEVEL ABOVE THE CONDUITS AND ALONG THE WHOLE CONDUIT ROUTE.

11. THE DEVELOPER OR HIS REPRESENTATIVES SHALL CLEARLY IDENTIFY ALL CONDUIT ENDS (INCLUDING BUT NOT LIMITED TO DISTRIBUTION POINTS, SERVICE CONDUITS) WHEN SPLICING OR DISTRIBUTION BOXES HAS NOT BEEN SPECIFIED OR RECOMMENDED, SEE WOOD STAKE DETAIL.

12. THE 2"Ø AND 4"Ø CONDUITS BENDS SHALL NOT BE LESS THAN 90° AND SHALL HAVE A MINIMUM RADIUS OF 36". ALL CONDUITS SHALL BE LIMITED TO TWO 90° SWEEPING BENDS IN A CONDUIT SECTION.

13. GENERALLY 3' X 3' X 3' AND 4' X 4' X 4' DISTRIBUTION BOXES AS WELL AS 6' X 4' X 4' AND 7'X 4'-6 X 4' SPLICE BOXES SHALL BE PLACED FOR TELECOMMUNICATIONS SERVICES (TELEPHONE FACILITIES) AS INDICATED ON PRINTS, THESE BOXES WILL NOT BE LOCATED IN AREAS NOT EXPOSED TO VEHICULAR TRAFFIC AND SHOULD BE DESIGNED TO RESIST INCIDENTAL TRAFFIC. IF BOXES WILL BE EXPOSED TO VEHICULAR TRAFFIC A MANHOLE OR SPECIAL BOX DESIGNED FOR THAT APPLICATION SHOULD BE INSTALLED WITH THE CAPACITY TO AVOID ANY DEFORMATION OR COLLAPSE OF ITS ENTRANCE COVER, SIMILAR OR EQUAL TO POWER POLES MH6'X6'X7'.

14. DISTRIBUTION BOXES SHALL BE PLACED IN EASEMENT LOCATED TWO FEET FROM THE PROPERTY LINE IN BETWEEN LOTS WITHOUT INTERFERING WITH ANY ENTRANCE (CARPORT OR SIDEWALK).

15. DISTRIBUTION BOXES AND SPLICE BOXES SHALL BE: a. PREFABRICATED WITH STEEL REINFORCED CONCRETE (EQUAL OR SIMILAR TO POWER POLE INC.) b. CAST IN PLACE WITH STEEL REINFORCED CONCRETE C. PREFABRICATED WITH POLYMER CONCRETE (EQUAL OR SIMILAR TO QUAZITE) 17"X30"X18" (MAXIMUM SIZE ALLOWED) ONLY WILL BE ACCEPTED FOR CABLE TV APPLICATION IN AREAS WITH SPACE PROBLEMS NOTE: ANY CHANGE IN THE TYPE OF BOXES TO BE USED WILL REQUIRE THE APPROVAL OF NET BEFORE THEIR INSTALLATION.

16. ALL CONDUITS, WHETHER OR NOT IN USE, SHALL BE SEALED IN DISTRIBUTION BOXES, SPLICE BOXES AND BUILDINGS TELECOMMUNICATIONS CABINET USING A DUCT SEALER (EQUAL OR SIMILAR TO 3M 4414 DUCT SEALING KIT).

17. 2"Ø CONDUITS FOR CABLE TELEVISION (CATV) DISTRIBUTION FACILITIES IN RESIDENTIAL PROJECTS, OF SINGLE FAMILY UNIT HOMES, ROW HOUSES, PATIO HOUSES ETC., SHALL NOT BE TERMINATED AT TELECOMMUNICATIONS DISTRIBUTION BOXES, THESE CONDUITS, AS WELL AS 1"Ø CONDUITS FOR CATV SERVICE DROPS, SHALL BE END CAPPED LEFT AT CATV DISTRIBUTION POINT LOCATED IN THE PLANTING STRIP GENERALLY NEXT TO LIGHT POSTS) AS INDICATED ON PRINTS.

18. THE EXTERIOR METALLIC BOXES (4"X 4" X 2-1/8" MINIMUM), FOR TELECOMMUNICATIONS SERVICE DROPS (TELEPHONE AND CATV), SHALL BE INSTALLED ON ONE OF THE LIVING UNITS WALLS CONVENIENTLY LOCATED SO AS TO PROVIDE EASY UNOBSTRUCTED ACCESS.

19. THE CONDUIT, THROUGH WITH THE GROUND WIRE FOR THE EXTERIOR SERVICE DROP METALLIC BOXES SHALL BE INSTALLED, SHALL COME OUT THE LIVING UNIT WALL AT A DEPTH OF SIX INCHES BELOW GROUND LEVEL.

20. THE TELECOMMUNICATIONS SERVICE DROPS ELECTRICAL GROUNDING WILL BE ACHIEVED WITH THE 8' X 5/8" COPPER WELD GROUND RODS INSTALLED BY THE TELECOMMUNICATIONS SERVICE PROVIDER AND MUST COMPLY WITH THE CURRENT NATIONAL ELECTRICAL CODE.

21. ALL TELECOMMUNICATIONS SYSTEMS (TELEPHONE AND CATV) SHALL BE BONDED AND GROUNDED AT ALL POINTS, AND MUST COMPLY WITH THE CURRENT NATIONAL ELECTRICAL CODE.

22. NO MORE THAN TWO 90° BENDS SHALL BE ALLOWED IN THE CONDUITS CONNECTING THE EXTERIOR SERVICE DROP METALLIC BOXES AND THE INTERIOR SERVICE BOXES.

23. THE INTERIOR RESIDENTIAL TELECOMMUNICATIONS SERVICE DISTRIBUTION CONDUITS SHALL HAVE A MINIMUM 3/4" INSIDE DIAMETER AND EACH LIVING UNIT SHALL BE PROVIDED WITH TELECOMMUNICATIONS SERVICES (TELEPHONE AND CATV) OUTLETS IN THE KITCHEN, LIVING ROOM AND EACH OF THE BEDROOMS.

24. AT WALK-UPS AND MULTI-STORY RESIDENTIAL BUILDINGS, THE MINIMUM SIZE FOR TELECOMMUNICATIONS CABINETS (TELEPHONE AND CATV) SHALL BE 36"X24"X6" FOR (TELEPHONE) AND 36"X36"X8" FOR (CATV) AND SHALL SERVE NO MORE THAN 16 UNITS. THE CABINET SHALL BE EQUIPPED WITH A 3/4" THICK PLYWOOD BACKBOARD, A HINGED DOOR WITH LATCH AND KEY, AND SHALL HAVE COMPLETE FRONTAL ACCESS. THE CABINETS SHALL ALSO PROVIDE FOR THE PROPER BONDING AND GROUNDING OF THE TELECOMMUNICATIONS FACILITIES AND MUST COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE.

25. WALK-UP PROJECTS SHALL HAVE INDEPENDENT TELECOMMUNICATIONS CABINETS FOR TELEPHONE AND CATV SERVICES, THE TELEPHONE CABINETS SHALL BE CONNECTED TO THE NEAREST SPLICING BOX BY MEANS OF 2-2"Ø PVC CONDUITS, THE CABLE TV CABINET WILL BE CONNECTED TO THE NEAREST SPLICING BOX OR THE NEAREST CABLE TV CABINET (IN THE NEXT BUILDING) DEPENDING ON THE LOOP DESIGN SPECIFIED ON THE DRAWINGS BY MEANS OF 2-2"Ø PVC CONDUITS. THE MINIMUM SIZE OF THE SPLICING BOX SHALL BE 7'X4'-6"X4' AND MAY BE JOINTLY USED FOR TELEPHONE AND CATV SERVICES.

26. RESIDENTIAL BUILDINGS (MULTI-STORY APARTMENT BUILDINGS OTHER THAN WALK-UPS, HIGH-RISE CONDOMINIUMS, ETC.) SHALL HAVE INDEPENDENT MAIN DISTRIBUTION CABINETS FOR TELEPHONE AND CATV SERVICES, THE MAIN DISTRIBUTION CABINETS, GENERALLY CONSISTING OF AN 8'X4'X3/4" FIRE-RETARDANT PLYWOOD PANEL OR AN 8'X4'X3/4" TREATED PLYWOOD PANEL PAINTED WITH TWO COATS OF FIRE RETARDANT PAINT, WILL BE PLACED IN TELECOMMUNICATIONS' CLOSET OR ROOM, THE MAIN DISTRIBUTION PANELS FOR TELEPHONE AND CATV SERVICES SHALL BE CONNECTED VERTICALLY TO OTHERS DISTRIBUTION CABINETS (EACH SERVING A MAXIMUM OF A 16 UNITS) BY MEANS OF 2-4"Ø AND 2-2"Ø PVC CONDUITS RESPECTIVELY.

27. EACH CABINET OR PANEL SHALL ALSO PROVIDE FOR THE PROPER BONDING AND GROUNDING OF THE TELECOMMUNICATIONS FACILITIES WITH A GROUND BAR, GROUND WIRE AND CONNECTED TO A 8'X5/8" COPPER WELD GROUND ROD SYSTEM AND MUST COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE. THIS WILL BE A DEVELOPER RESPONSIBILITY.

28. ALL APARTMENT SHALL BE CONNECTED TO EACH OF THEIR CORRESPONDING DISTRIBUTION CABINETS (TELEPHONE AND CATV) BY MEANS OF 1-1"Ø CONDUIT, 29-ENTRANCE FACILITIES FOR RESIDENTIAL BUILDINGS SHALL CONSISTING OF A MINIMUM OF 2-4"Ø FOR TELEPHONE SERVICE AND 2-2"Ø PVC CONDUITS FOR CATV SERVICE, THESE CONDUITS SHALL CONNECT THE MAIN DISTRIBUTION CABINETS AND THE DESIGNATED BUILDING TELECOMMUNICATIONS POINT OF CONNECTION, WHEN A BUILDING'S TELECOMMUNICATIONS POINT OF CONNECTION IS A SPLICE BOX IT SHALL HAVE A MINIMUM SIZE OF 7'X4'-6"X4' AND MAY BE JOINTLY USED FOR TELEPHONE AND CATV SERVICES.

Special Notes

1. THE DEVELOPER IN COMPLIANCE WITH THE PUERTO RICO PLANNING BOARD'S "REGLAMENTO DE CONJUNTO PARA LA EVALUACION Y EXPEDICION DE PERMISOS AL DESARROLLO Y USO DE TERRENOS, REVISADO" SHALL TRANSFER TO THE TELECOMMUNICATIONS BUREAU OF PUERTO RICO (NET) THE RIGHT OF WAY DEPICTED ON THESE DRAWINGS REQUIRED TO PROVIDE TELECOMMUNICATIONS SERVICES (TELEPHONE AND CATV) TO THIS PROJECT BY MEANS OF A PUBLIC DEED.

2. THE NET MAY ISSUE PARTIAL ENDORSEMENTS FOR SINGLE FAMILY RESIDENTIAL PROJECTS (SINGLE FAMILY HOUSES, ROW HOUSES, TOWNHOUSES, PATIO HOUSES, ETC.) SO THAT THE DEVELOPER CAN DELIVER PORTIONS OF THE PROJECT AS THEY ARE COMPLETED, ONCE THE PROJECT IS COMPLETED, THE DEVELOPER SHALL COMPLY WITH THE PROCEDURE SPECIFIED IN SECTION 5.02.6 OF THE NET'S "REGLAMENTO PARA ENDOSOS DE SERVIDUMBRES E INFRASTRUCTURA" RELATED TO OBTAIN FINAL ENDORSEMANTS.

3. THE DEVELOPER SHALL ALLOW TELECOMMUNICATIONS SERVICE PROVIDERS (TELEPHONE AND CATV), DULY AUTHORIZED BY THE NET TO PROVIDE SAID SERVICES, TO INSTALL THEIR DISTRIBUTION FACILITIES IN A COORDINATED AND ORDERLY MANNER IN THOSE PORTIONS OF THE PROJECT FOR WHICH A PARTIAL ENDORSEMENT HAS BEEN ISSUED.

4. THE DEVELOPER SHALL COORDINATE WITH TELECOMMUNICATIONS SERVICE PROVIDERS (TELEPHONE AND CATV) AND PUERTO RICO ELECTRICAL POWER AUTHORITY (PREPA) THE INSTALLATION OF RISERS, THE CONNECTION OF CONDUITS OR THE ACCESS TO THEIR FACILITIES.

5. THE DEVELOPER SHALL COORDINATE WITH TELECOMMUNICATIONS SERVICE PROVIDERS (TELEPHONE AND CATV) AND WITH ANY OTHER PUBLIC OR PRIVATE ORGANIZATION WHOSE FACILITIES AFFECT THE CONSTRUCTION OF THE PROJECT, THE REMOVALS, RELOCATION AND/OR MODIFICATIONS OF ANY EXISTING INFRASTRUCTURE.

6. THE DEVELOPER SHALL ASSIGN AN ENGINEER OR ARCHITECT TO INSPECT AND CERTIFY THAT THE CONSTRUCTION JOBS WERE PERFORMED AND COMPLETED AS THE ENDORSED DRAWINGS BY THE NET, FOR THAT PROCESS WILL USED FORM NETPR F-102 AND SUBMIT TO NET AND OBTAIN THEIR APPROVAL BEFORE APPLY FOR THE PERMIT OF USE AT "OFICINA DE GERENCIA DE PERMISOS (OGPE)".

7. COMMERCIAL BUILDINGS WILL REQUIRE TWO (2) MAIN DISTRIBUTION CABINETS OR PANELS FOR TELEPHONE AND CATV SERVICES, RESPECTIVELY, A TELECOMMUNICATION ROOM OR AREA WILL BE DESIGNATED TO PLACE THEM, AND THEY MUST COMPLY WITH ONE OF THE SPECIFICATION DESCRIBED BELOW: a. TREATED WOOD PANEL 4'X8'X3/4" (DOUBLE COATED WITH WHITE FIRE-RETARDANT PAINT), b. TELEPHONE METAL CABINET 36"X24"X6" (MIN) AND CATV 36"X30"X6", BOTH CABINET SHALL BE EQUIPPED WITH A 3/4" THICK TREATED PLYWOOD BACKBOARD, A HINGED DOOR WITH LATCH AND KEY, AND SHALL HAVE COMPLETE FRONTAL ACCESS.

Notes:

1.0 Do not scale dimensions from drawings, Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS		
REV. #	DATE	ISSUING REASON
-	-	-

PROFESSIONAL SEAL

JOSE O. GONZALEZ INGENIERO LICENCIADO LIC. #6588 PUERTO RICO

IDENTIFICACION - COPYRIGHTS + FIRM NAME

YO, JULVIN MARRIQUEZ BOTELLO, LICENCIA 19802, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS Y ESPECIFICACIONES, QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTE DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O COMPAÑIAS PUBLICAS CON JURISDICCION SOBRE ESTE TIPO DE PROYECTO.

FIRMA: _____ FECHA: 07/01/2025

LICENCIA DE CONSTRUCCION: _____

ESTOS PLANOS Y ESPECIFICACIONES HAN SIDO CUMPLIDOS CON LA NUMERO DE LICENCIA DE CONSTRUCCION EMITIDA POR LA AGENCIA CORRESPONDIENTE.

FIRMA: _____ FECHA: _____

ESTOS PLANOS Y ESPECIFICACIONES HAN SIDO REVISADOS POR LA AGENCIA CORRESPONDIENTE Y SE ENCUENTRAN DE ACUERDO CON LA LEY NUMERO 96 DE 15 DE JULIO DE 1988, SEGUN ENMENDADA.

FIRMA: _____ FECHA: _____

ESTOS PLANOS Y ESPECIFICACIONES HAN SIDO RECONOCIDOS DU CUMPLIMIENTO CON LA LEY NUMERO 119 DE 29 DE JUNIO DE 1976, SEGUN ENMENDADA.

FIRMA: _____ FECHA: _____

ESTOS PLANOS Y ESPECIFICACIONES HAN SIDO EMPLEADOS, O POR OTRAS PERSONAS BAJO MI SUPERVISION, PARA LA CONSTRUCCION DE LA OBRA PROPUESTA.

FIRMA: _____ FECHA: _____

DERECHOS DE AUTOR Y PROPIEDAD INTELECTUAL

ESTOS PLANOS Y ESPECIFICACIONES CLEARLY IDENTIFY ALL CONDUIT ENDS (INCLUDING BUT NOT LIMITED TO DISTRIBUTION POINTS, SERVICE CONDUITS) WHEN SPLICING OR DISTRIBUTION BOXES HAS NOT BEEN SPECIFIED OR RECOMMENDED, SEE WOOD STAKE DETAIL.

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erá presentar su alegación responsiva a través del Sistema Unificado de Manejo y Administración de Casos (SUMAC), al cual puede acceder utilizando la siguiente dirección electrónica https://www.poderjudicial.pr/index.php/tribunal-electronico/, salvo que el caso sea de expediente físico o que se presente por derecho propio, en cuyo caso deberá presentar su alegación responsiva en la Secretaría del Tribunal y notificar copia de la misma a la Leda. Charlene De León Guevara cuya dirección es la siguiente: PO Box 366852 San Juan, PR 00936-6852. Su teléfono es el (787) 787-679-8869, c/e: cdeleon@deleonguevara.com / chdeleon7@gmail.com. Se le apercibe que, de no hacerlo, se le anotará la rebeldía y se podrá dictarsentencia en su contra, concediendo los remedios solicitados, o cualquier otro, si el Tribunal, en el ejercicio de su sana discreción, lo entiende procedente. San Juan, Puerto Rico, hoy ALICIA AYALA SANJURJO SECRETARIO DEL TRIBUNAL POR: YVETTE RIOS VAZQUEZ SEC AUX

SS-23110 ESTADO LIBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA INSTANCIA CENTRO JUDICIAL DE GUAYAMA SALA SUPERIOR

ERNESTO LUIS RIVERA DE JESUS
Demandante
v.
HOSPITAL GENERAL MENONITA, INC. Y/O MENNONITE GENERAL HOSPITAL, INC. H/N/C HOSPITAL GENERAL MENONITA DE CAYEY; SUCESION DEL DR. VICTOR MANUEL HERNANDEZ MIRANDA, COMPUESTA POR SU VIUDA, MARIA M. FLORES JIMENEZ, Y SUS HIJOS, VICTOR MANUEL HERNANDEZ FLORES, VICTOR J. HERNANDEZ FLORES Y AGNES HERNANDEZ FLORES; DR. FRANCISCO JOSE BETANCOURT BORGES, SU ESPOSA, Y LA SOCIEDAD LEGAL DE GANANCIALES COMPUESTA POR AMBOS; RENAISSANCE RE SYNDICATE LLOYDS COMO ASEGURADORA DE EMERGENCY GROUP SERVICES, INC.; PUERTO RICO MEDICAL DEFENSE INSURANCE COMPANY
Demandados

CIVIL NÚM. G DP2016-0040 (303) SOBRE: DAÑOS Y PERJUICIOS (NEGLIGENCIA EN EL TRATAMIENTO MEDICO-HOSPITALARIO Y/O IMPERICIA MEDICA) EMPLAZAMIENTO POR EDICTO ESTADOS UNIDOS DE AMERICA] EL PRESIDENTE DE LOS ESTADOS UNIDOS] SS. EL ESTADO LIBRE ASOCIADO DE PUERTO RICO] A: VÍCTOR MANUEL HERNÁNDEZ FLORES; VÍCTOR J. HERNÁNDEZ FLORES; Y AGNES HERNÁNDEZ FLORES. POR LA PRESENTE, se les notifica que en la Secretaría de este Tribunal se ha presentado una "Segunda Demanda Enmendada" mediante la cual la parte demandante ha incoado una acción de daños y perjuicios por negligencia en el tratamiento médico-hospitalario y/o impericia médica, y cuyos detalles allí se especifican. Se les emplaza y requiere a ustedes, como miembros de la Sucesión del Dr. Víctor Manuel Hernández Miranda, para que presenten en este Tribunal su contestación a la "Segunda Demanda Enmendada" y notifiquen copia de la misma, dentro de los treinta (30) días de haberse publicado el edicto, al Lcdo. Carlos O. Rodríguez Boneta, RUA Núm. 11697, PO Box 1381, Caguas, Puerto Rico 00726-1381. Tel. (787) 647-6666 Email: rodriguezboneta@rodriguezbonetalaw.com. Se les advierte a los efectos de que, si no contestan la "Segunda Demanda Enmendada" radicando el original de su contestación ante este Tribunal, con copia al representante legal de la parte demandante, en el término antes dispuesto, se les anotará la rebeldía y se dictará sentencia concediendo el remedio solicitado sin más citarle ni oírle. EXPEDIDO BAJO MI FIRMA Y SELLO DEL TRIBUNAL. En Guayama, Puerto Rico, hoy día 14 de abril de 2025. Marisol Rosado Rodríguez Nombre del (de la) Secretario(a) Regional Por: GILENE TIRADO VALENTIN Nombre del (de la) Secretario(a) Auxiliar del Tribunal

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SS-23114 ESTADO LIBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA INSTANCIA SALA DE PONCE

COOPERATIVA DE AHORRO Y CREDITO DE BARRANQUITAS (CREDICENTRO COOP)
Demandante
v.
BELMARIE CABALLERO ALICEA
Demandada

CIVIL NÚM.: PO2025CV00437 SOBRE: COBRO DE DINERO EMPLAZAMIENTO POR EDICTO LOS ESTADOS UNIDOS DE AMERICA) EL PRESIDENTE DE LOS EE. UU.) SS EL ESTADO LIBRE ASOCIADO DE P.R.) A: BELMARIE CABALLERO ALICEA Por la presente se le notifica que la parte demandante ha presentado ante este Tribunal demanda de Cobro de Dinero contra usted. Representa al demandante, la abogada cuyo nombre, dirección y teléfono se consigna de inmediato: LCDA. EMIBETH RAMOS SERRANO PO Box 258 Mercedita PR. 00715-0258 Tel. (787) 601-7765 e-mail: emibethramos94@gmail.com Se le apercibe que si no compareciere usted a contestar dicha demanda dentro del término de treinta (30) días, a partir de la publicación de este edicto, se le anotará la rebeldía y se le dictará sentencia concediendo el remedio solicitado, sin más citarle ni oírle. Usted deberá presentar su alegación responsiva a través del sistema unificado de manejo y administración y de casos (SUMAC), al cual puede acceder utilizando la siguiente dirección electrónica: https://unired.ramajudicial.pr, salvo que se represente por derecho propio, en cuyo caso deberá presentar su alegación responsiva en la secretaría del tribunal. se le advierte que de no contener dicha información no se expedirá el emplazamiento por edicto. EXPEDIDO bajo firma y sello de este Tribunal. En PONCE Puerto Rico a 5 de MAYO de 2025. CARMEN TIRU QUIÑONES SECRETARIA DEL TRIBUNAL SANDRA GONZALEZ RODRIGUEZ SUBSECRETARIA DEL TRIBUNAL

SS-23115 ESTADO LIBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA INSTANCIA SALA DE ARECIBO

MARILYN GALARZA PÉREZ
PETICIONARIA
Vs.
EX PARTE

Civil Núm.: AR2025CV00718 Sobre: EXPEDIENTE DE DOMINIO EDICTO ESTADOS UNIDOS DE AMERICA EL PRESIDENTE DE LOS ESTADOS UNIDOS EL ESTADO LIBRE ASOCIADO DE PUERTO RICO A: Toda Persona Con Interés, a todo el que tenga algún derecho real sobre el descrito en este Expediente de Dominio, las personas ignoradas a quien pueda perjudicar la inscripción y en general a toda persona que desee oponerse. Por la presente se notifica que comparezcan, si creyeren que les conviene, ante este Honorable Tribunal dentro de 20 días a partir desde que fueron notificados de esta citación y exponer lo que a sus derechos convenga en el expediente promovido por la parte peticionaria para adquirir su dominio sobre la siguiente finca: • URBANA: Predio de terreno situado en el Barrio Florida Adentro, Sector San Luis, del término municipal de Florida, Puerto Rico compuesta de CIENTO SETENTA Y SIETE PUNTO CUATROSCIENTOS CUARENTA Y UNO METROS CUADRADOS (177.441 y en lindes por el Norte con el callejón San Luis, por el Sur con terreno y estructura de Amarilis Barrio, por el Este acera que la separa de la calle marginal, que a su vez la separa de la carretera estatal ciento cuarenta (PR140) a la altura del kilómetro cincuenta y cuatro punto cero y al Oeste con Carmen Cruz. El número de catastro es el siguiente: 106-030.001-06 (procedencia). (Esta descripción surge de plano certificado por el Ingeniero Oscar Loubriel Verges, con licencia 4679, fechado primero de octubre de dos mil veinticuatro (2022) el cual se aneja como exhibit 1) Se le apercibe que de no comparecer usted a contestar dicha petición dentro del término de veinte días a partir de la publicación de este edicto, radicando el original de la contestación en el tribunal correspondiente a través del Sistema Unificado de Manejo y Administración de Casos (SUMAC), el cual puede acceder utilizando la siguiente dirección electrónica: https://unired.ramajudicial.pr , salvo que se represente por derecho propio, en cuyo caso deberá presentar su alegación responsiva dentro del referido término en la Secretaría del Tribunal correspondiente. El Tribunal, de usted no contestar, podrá dictar sentencia en rebeldía en su contra y conceder el remedio solicitado, o cualquier otro, si el Tribunal, en el ejercicio de su sana discreción, lo entiende procedente y se dictará Sentencia o Resolución sin más citarle ni oírle. En Arecibo, Puerto Rico, a 28 de abril de 2025. VIVIAN Y. FRESSE GONZALEZ SECRETARIA REGIONAL ALEXANDRA ALVAREZ NATAL SECRETARIA AUXILIAR

SS-23112 ESTADO LIBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA INSTANCIA CENTRO JUDICIAL DE HUMACAO SALA SUPERIOR DE HUMACAO

NORMA IRIS CASTRO CRUZ
Demandante
v.
ADMINISTRACION DE LOS SISTEMAS DE RETIRO DE LOS EM-

DEPARTAMENTO DE LA
VIVIENDA
GOBIERNO DE PUERTO RICO

AVISO PÚBLICO

Aviso Preliminar y Revisión Pública de una
Actividad Propuesta en un valle inundable

Plaza de Recreo Juan F. Arroyo
PR-CRP-000312

Para: Todas las partes interesadas, grupos e individuos

Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (Vivienda, en adelante) determinó que la siguiente acción propuesta bajo el Programa de Revitalización de la Ciudad, Subvención en Bloque para el Desarrollo Comunitario – Recuperación ante Desastres (CDBG-DR), número de subvención B-17-DM-72-0001 y B-18-DP-72-0001, está ubicado en un valle inundable. Vivienda identificará y evaluará alternativas prácticas para realizar la acción propuesta dentro del valle inundable y los posibles impactos en el valle inundable debido a la acción propuesta, según estipulado en la Orden Ejecutiva 11988, en conformidad con las regulaciones de HUD en 24 CFR 55.20 en la Subparte C - Procedimientos para tomar determinaciones sobre el manejo del valle inundable y la protección de humedales. El proyecto propuesto, **PR-CRP-000312**, se encuentra dentro de un municipio que sufrió daños debido a los huracanes Irma y María, y está localizado en el centro del casco urbano, Canóvanas, PR 00729, coordenadas 18.379124°, -65.901107°. Al sur está la calle Luis Muñoz Rivera, al norte la calle Palmer/carretera PR-9959, la calle Calderón Mujica al oeste, y al este, la calle Luis Hernáiz. El proyecto propuesto ubica en un tipo de valle inundable de 500 años. Las mejoras propuestas incluyen la sustitución de luminarias, la instalación de mobiliario urbano y gazebos abiertos para brindar sombra, así como mejoras en las aceras y reforestación. Además, la propuesta incorpora estrategias de diseño enfocadas en mejorar la accesibilidad de la plaza, cumpliendo con la Ley para estadounidenses con Discapacidades (ADA, por sus siglas en inglés). El área del proyecto propuesto es de aproximadamente 0.572 acres (2,315 metros cuadrados). Según el mapa de niveles de inundación base recomendado (ABFE, por sus siglas en inglés), aproximadamente 0.46 acres (1,876 metros cuadrados) se encuentra dentro de una zona de inundación X sombreado. Dado que las mejoras propuestas se realizarán en espacios previamente impactados, no se espera que el valle inundable se vea afectado. Las funciones naturales y beneficiosas existentes son el almacenamiento y descarga de aguas de inundación y el valor intrínseco es histórico. El área del proyecto se puede encontrar en el mapa de ABFE, cómo se indica en el Nivel de Inundación Base Recomendado para Puerto Rico de FEMA en Puerto Rico Advisory Base Flood Elevations (ABFE's).

Este aviso tiene tres propósitos principales. Primero, las personas que puedan verse afectadas por actividades en el valle inundable y aquellos que tengan interés en la protección del ambiente natural deben recibir la oportunidad de expresar sus preocupaciones y proveer información sobre estas áreas. Se exhorta a la comunidad a ofrecer o recomendar ubicaciones alternas fuera del valle inundable, métodos alternos para cumplir con el propósito del proyecto, y métodos para minimizar y mitigar los impactos en el valle inundable. Segundo, un programa adecuado de avisos públicos puede ser una herramienta importante para la educación pública. La divulgación de información y solicitud de comentarios públicos sobre valles inundables puede facilitar y mejorar los esfuerzos federales para reducir los riesgos e impactos asociados con la ocupación y alteración de estas áreas especiales. Tercero, como materia de justicia, cuando el gobierno federal determina participar en acciones ubicadas en el valle inundable, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o continuo.

Comentarios por escrito deben ser recibidos por Vivienda en la siguiente dirección en o antes del **27 de mayo de 2025**: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918-8461, y (787)274-2527 ext. 4320, Atención: Clary Y. Pérez-Peña, Secretaria. Una descripción completa del proyecto está disponible para revisión de 8:30 a.m. a 4:00 p.m. en el Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918. Los comentarios también pueden enviarse por correo electrónico a comentariosambiental@vivienda.pr.gov.

Fecha: 9 de mayo de 2025

DEPARTMENT OF
HOUSING
GOVERNMENT OF PUERTO RICO

PUBLIC NOTICE

Early Notice and Public Review of a
Proposed Activity in a Floodplain

Plaza de Recreo Juan F. Arroyo
PR-CRP-000312

To: All Interested Agencies, Groups and Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has determined that the following proposed action under the City Revitalization Program, Community Development Block Grant – Disaster Recovery (CDBG-DR), Grant Number B-17-DM-72-0001 and B-18-DP-72-0001, is located in a floodplain. PRDOH will be identifying and evaluating practicable alternatives to locating the action within the floodplain and the potential impacts on the floodplain from the proposed action, as required by Executive Order 11988, and in accordance with HUD regulations at 24 CFR 55.20 in Subpart C - Procedures for Making Determinations on Floodplain Management and Protection of Wetlands. The proposed project, **PR-CRP-000312**, is within a municipality with structures damaged by Hurricanes Irma and María and it's located at the center of the urban area, Canóvanas, PR 00729; coordinates are 18.379124°, -65.901107°. To the south is Luis Muñoz Rivera Street, to the north is Palmer Street /PR-9959 Road, Calderón Mujica Street to the west, and Luis Hernáiz Street to the east. The proposed project is located on a 500-year floodplain. The proposed improvements include the replacement of lighting, installation of urban furniture, and open gazebos for shading, as well as improvements to the sidewalks and reforestation. Additionally, the proposal incorporates design strategies aimed at enhancing plaza accessibility in compliance with the Americans with Disabilities Act (ADA). The area of the proposed project is approximately 0.572 acres (2,315 square meters). According to the Advisory Base Flood Elevation (ABFE) Map, approximately 0.46 acres (1,876 square meters) are located within an X Shaded flood zone. Since the proposed improvements will take place in previously impacted spaces, no impact on the floodplain is expected. The existing natural and beneficial functions are floodwater storage and discharge, and its intrinsic value is historic. The project area can be found at the ABFE Map, as indicated on the FEMA Advisory Base Flood Elevation for Puerto Rico at Puerto Rico Advisory Base Flood Elevations (ABFE's).

There are three primary purposes for this notice. First, people who may be affected by activities in the floodplain and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Commenters are encouraged to offer alternative sites outside of the floodplain, alternative methods to serve the same project purpose, and methods to minimize and mitigate project impacts on the floodplain. Second, an adequate public notice program can be an important public educational tool. The dissemination of information and request for public comment about floodplains can facilitate and enhance Federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in the floodplain, it must inform those who may be put at greater or continued risk.

Written comments must be received by PRDOH at the following address on or before **May 27, 2025**: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918-8461, and (787)274-2527 ext. 4320, Attention: Clary Y. Pérez-Peña, Secretary. A full description of the project may also be reviewed from 8:30 am to 4:00 pm at the Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918. Comments may also be submitted via email at comentariosambiental@vivienda.pr.gov.

Date: May 9, 2025

DEPARTMENT OF

HOUSING

GOVERMENT OF PUERTO RICO

CDBG-DR FUNDS

CDBG-MIT FUNDS

Validation Letter

May 28, 2025

To whom it may concern,

This letter is to validate that no comments were received in the Permits and Environmental Compliance Division e-mail: comentariosambiental@vivienda.pr.gov, for the project ***Plaza de Recreo Juan F. Arroyo*** **(PR-CRP-000312)**, as part of the CDBG-DR City Revitalization Program. The Early Notice and Public Review of a Proposed Activity in a Federal Flood Risk Management Standard Designated Floodplain was published in the *Primera Hora* newspaper of Puerto Rico on May 9, 2025, with a comment period that concluded on May 27, 2025.

Cordially,

Permits and Environmental Compliance Division
Disaster Recovery Office
comentariosambiental@vivienda.pr.gov | 787.274.2527 ext. 4320

Aviso Final y Explicación Pública de una
Actividad Propuesta en un **valle inundable**
"Plaza de Recreo Juan F. Arroyo"
PR-CRP-000312

Para: Todas las agencias interesadas, grupos e individuos
Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (Vivienda, en adelante) completó una evaluación según estipulado en la **Orden Ejecutiva 11988**, en conformidad con las regulaciones de HUD en 24 CFR 55.20 en la Subparte C - Procedimientos para hacer determinaciones sobre el manejo del valle inundable y la protección de humedales. La actividad está subvencionada con fondos del Programa de Revitalización de la Ciudad, Subvención en Bloque para el Desarrollo Comunitario – Recuperación ante Desastres (CDBG-DR), número de subvención B-17-DM-72-0001 y B-18-DP-72-0001. El proyecto propuesto, PR-CPR-000312, se encuentra en un municipio que sufrió daños debido a los huracanes Irma y María, y está ubicado en la calle Calderón Mújica esquina con Muñoz Rivera, Canóvanas PR 00729. Coordenadas: Latitud: 18.379124, Longitud: -65.901107, Número Catastral 089-086-015-01-000. El proyecto se ubica en un valle costero con una llanura aluvial de 500 años. El proyecto propuesto tiene una superficie aproximada de 2,315 metros cuadrados (0.572 acres) e incluirá la sustitución del alumbrado público, la instalación de mobiliario urbano, pérgolas abiertas para dar sombra, mejoras en las aceras y reforestación. Además, el proyecto mejorará la accesibilidad de la plaza, de conformidad con la Ley de Estadounidenses con Discapacidades (ADA). Según el mapa de Elevación Base de Inundación Consultiva (ABFE), 0,46 acres del área del proyecto (aproximadamente el 80 %) se encuentran dentro de una zona de inundación sombreada X (0,2 %). Dado que las actividades propuestas se realizarán en espacios previamente urbanizados, no se prevén efectos adversos en la llanura aluvial. Las funciones beneficiosas de la llanura aluvial incluyen el almacenamiento y la descarga de aguas de inundación, y su valor intrínseco es histórico.

Vivienda consideró las siguientes alternativas y medidas de mitigación para minimizar los impactos adversos y restaurar y preservar las funciones naturales y beneficiosas, y los valores intrínsecos del **valle inundable** existente: **Alternativa 1: Realizar las actividades propuestas en la parcela propuesta, minimizando la superficie impermeable. Cualquier descarga de aguas pluviales al sistema municipal de aguas pluviales se gestionará para evitar la sobrecarga de las instalaciones municipales existentes y las propiedades circundantes. El beneficiario de la subvención cumplirá con todas las leyes, reglamentos y códigos vigentes e implementará las mejores prácticas del sector. Alternativa 2: No se desarrollará el proyecto propuesto ni se realizarán obras en la parcela propuesta. El sitio podría deteriorarse aún más y convertirse en una molestia pública o un lugar peligroso, y no se prestarían los servicios comunitarios propuestos. El Proyecto cumplirá con el "Reglamento para el Control de la Contaminación por Ruido, el Reglamento de Estándares de Calidad del Agua, el Reglamento para el Control y la Prevención de la Contaminación Lumínica". El Proyecto cumplirá con el "Reglamento para el Control de Contaminación Atmosférica", el "Reglamento para el Manejo de Desperdicios Sólidos No Peligrosos" y el "Reglamento para el Trámite de Permisos Generales". El Proyecto cumplirá con la Regla 3.4.1 ("Permiso único Incidental Operacional"), la Sección 5.1.9.3 ("Manejo de Aguas Pluviales") y la Sección 5.1.9.4 ("Obras Pluviales) del "Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operación de Negocios (Reglamento No. 9473, vigente a partir del 16 de junio de 2023, adoptado por la Junta de Planificación de Puerto Rico mediante Resolución JP-RP-41, de 16 de junio de 2023)". El diseño final cumplirá con el "Reglamento sobre Normas de Diseño, Criterios y Mantenimiento para Sistemas de Alcantarillados Pluviales en Puerto Rico (Reglamento de Planificación Núm. 40 de 18 de abril de 2023)" y el Reglamento de Áreas Especiales de Peligro de Inundación (Reglamento Núm. 13 vigente a partir del 9 de enero de 2023). 2021) Octava Revisión (Reglamento N.° 9238 de 9 de diciembre de 2020)". Mapa de Niveles de Inundación Base Recomendados (ABFE por sus siglas en inglés) Mapa 72000C0395J Fecha: 2 de octubre de 2024, LOMR: 72000C0395J Fecha: 18 de noviembre de 2009. LOMA: (2) 72000C0395J Fecha: 18 de noviembre de 2009. REVALIDATION: 72000C0395J Fecha: 19 de noviembre de 2009.**

Vivienda reevaluó las alternativas para construir en el **valle inundable** y determinó que no cuenta con alternativas prácticas al desarrollo del **valle inundable**. La documentación ambiental que documenta el cumplimiento con la **Orden Ejecutiva 11988** está disponible para inspección, revisión y reproducción del público, de ser solicitado, en el horario y lugar indicado en el último párrafo de este aviso, el cual trata sobre recibo de comentarios.

Este aviso tiene tres propósitos principales. Primero, las personas que pueden verse afectadas por actividades en el **valle inundable** y aquellos que tengan interés en la protección del ambiente natural deben recibir la oportunidad de expresar sus preocupaciones y proveer información sobre estas áreas. Segundo, un programa adecuado de avisos públicos puede ser una importante herramienta de educación pública. La divulgación de información y solicitud de comentarios públicos sobre **valles inundables** puede facilitar y mejorar los esfuerzos federales para reducir los riesgos e impactos asociados con la ocupación y alteración de estas áreas especiales. Tercero, como materia de justicia, cuando el gobierno federal determina participar en acciones ubicadas en el **valle inundable**, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o similar al presente.

Comentarios por escrito deben ser recibidos en la siguiente dirección en o antes del **7 de noviembre de 2025**: Oficina de Planificación y Desarrollo Económico, P.O. Box 1612, Canóvanas, PR 00729-1612, Atención: Leslie R. Rivera Domenech, Directora, Oficina de Planificación y Desarrollo Económico. Una descripción completa del proyecto está disponible al público para revisión de 8:30 a.m. a 4:00 p.m. en la Oficina de Planificación y Desarrollo Económico, Municipio de Canóvanas, Calle Autonomía, Esq. Pepito Albandoz. Los comentarios también pueden enviarse por correo electrónico a planificacion@canovanasgov.com.

Fecha: **30 de octubre de 2025**

Final Notice and Public Explanation of a
Proposed Activity in a **Floodplain**
"Plaza de Recreo Juan F. Arroyo"
PR-CRP-000312

To: All Interested Agencies, Groups & Individuals
This is to give notice that the Puerto Rico Department of Housing (PRDOH) has conducted an evaluation as required by **Executive Order 11988**, in accordance with HUD regulations at 24 CFR 55.20 in Subpart C - Procedures for Making Determinations on Floodplain Management and Wetlands Protection. The activity is funded under the City Revitalization Program, Community Development Block Grant – Disaster Recovery (CDBG-DR), Grant Number B-17-DM-72-0001 and B-18-DP-72-0001. The proposed project, PR-CPR-000312, is within a municipality that suffered damage due to Hurricanes Irma and Maria, and is located Calderon Mújica St., and Muñoz Rivera corner, Canóvanas PR 00729. Coordinates: Lat: 18.379124, Long: -65.901107, Cadastral Number 089-086-015-01-000. The project is located in a 500-year floodplain coastal valley. The proposed project is approximately 2,315 square meters (0.572 acres) and will include the replacement of lightning, installation of urban furniture, open gazebos for shading, improvements to the sidewalks and reforestation. Additionally, the project will be enhance plaza accessibility in compliance with the Americans with Disabilities Act (ADA). According to the Advisory Base Flood Elevation (ABFE) map, 0.46 acres of the project area (about 80%) are located within a shaded x (0.2%) flood zone. As the proposed activities will take place in previously developed spaces, no adverse effects on the floodplain area anticipated. The beneficial functions of the floodplain include the storage and discharge of floodwaters, and its intrinsic value is historic.

PRDOH has considered the following alternatives and mitigation measures to minimize adverse impacts and to restore and preserve natural and beneficial functions and intrinsic values of the existing **floodplain: Alternative 1: Conduct the proposed activities on the proposed parcel keeping the impervious surface area to a minimum. Any storm water discharge to municipal storm water system will be managed to avoid overloads of the existing municipal facilities and surrounding properties. The grant recipient will comply with all the current applicable laws, regulations and codes and will implement the best practices for the industry. Alternative 2: The proposed project will not be developed and no work will be conducted at the proposed project parcel. The site may further deteriorate and become a public nuisance or hazardous place and the proposed community services would not be provided. The Project will comply with the "Reglamento para el Control de la Contaminación por Ruido, el Reglamento de Estándares de Calidad de Agua, el Reglamento para el Control y la Prevención de la Contaminación Lumínica". The Project will comply with the "Reglamento para el Control de Contaminación Atmosférica", the "Reglamento para el Manejo de Desperdicios Sólidos No Peligrosos" and the "Reglamento para el Trámite de Permisos Generales". The Project will comply with the Rule 3.4.1 ("Permiso único Incidental Operacional"), the Section 5.1.9.3 ("Manejo de Aguas Pluviales") and Section 5.1 .9.4 ("Obras Pluviales) of the "Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operación de Negocios (Regulation No. 9473, effective from June 16, 2023, adopted by the Puerto Rico Planning Board through Resolution JP-RP-41, from June 16, 2023)". The final design will comply with the "Reglamento sobre Normas de Diseño, Criterios y Mantenimiento para Sistemas de Alcantarillados Pluviales en Puerto Rico (Planning Regulation Num. 40 from April 18, 2023)" and the Special Flood Hazard Areas Regulation (Regulation No. 13 effective from January 9, 2021) Eighth Revision (Regulation No. 9238 from December 9, 2020)". Advisory Base Flood Elevation (ABFE) Map 72000C0395J DATE: October 02, 2024, LOMR: 72000C0395J DATE: November 18, 2009. LOMA: (2) 72000C0395J DATE: November 18, 2009. REVALIDATION: 72000C0395J DATE: November 19, 2009.**

PRDOH has reevaluated the alternatives to building in the **floodplain** and has determined that it has no practicable alternative to **floodplain** development. Environmental files that document compliance with **Executive Order 11988** are available for public inspection, review and copying upon request at the times and location delineated in the last paragraph of this notice for receipt of comments.

There are three primary purposes for this notice. First, people who may be affected by activities in the **floodplain** and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Second, an adequate public notice program can be an important public education tool. The dissemination of information and request for public comment about **floodplains** can facilitate and enhance Federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in the **floodplain**, it must inform those who may be put at greater or continued risk.

Written comments must be received at the following address on or before **November 7, 2025:** Office of Planning and Economic Development P.O. Box 1612 Canóvanas, PR 00729-1612 Attn: Leslie R. Rivera Domenech, Director, Planning and Economic Development Office. A full description of the project is available to the public for review from 8:30 a.m. to 4:00 p.m. at the Office of Planning and Economic Development, Municipality of Canóvanas, located at Calle Autonomía, corner of Pepito Albandoz. Comments may also be submitted via email to: planificacion@canovanasgov.com.

Date: **October 30, 2025**

Aviso Público – Extensión de Tiempo de Comentarios
Aviso Final y Explicación Publica de una Actividad Propuesta en un valle inundables "Plaza De Recreo Juan F. Arroyo (PR–CRP–000312)

El Municipio de Canóvanas, como parte de su política pública, reafirma su compromiso de garantizar la más amplia participación ciudadana en los procesos.

Para el **Aviso Final y Explicación Pública de una Actividad Propuesta en un valle inundables "Plaza De Recreo Juan F. Arroyo (PR-CRP-000312)"**, el Municipio de Canóvanas ha decidido conceder una extensión del período de comentarios hasta el **1 de diciembre de 2025**, con el fin de propiciar mayores aportaciones.

Comentarios por escrito deben ser recibidos en la siguiente dirección en o antes del **1 de diciembre de 2025**: Oficina de Planificación y Desarrollo Económico, P.O. Box 1612, Canóvanas, PR 00729-1612, Atención: Leslie R. Rivera Domenech, Directora, Oficina de Planificación y Desarrollo Económico. Los comentarios también pueden ser enviados por correo electrónico a: planificacion@canovanasgov.com Una descripción completa del proyecto está disponible al público para revisión de 8:30 a.m. a 4:00 p.m. en la Oficina de Planificación y Desarrollo Económico, Municipio de Canóvanas, Calle Autonomía, Esq. Pepito Albandoz

Fecha: **18 de noviembre de 2025**

Public Notice – Extension of Comment Period
Final Notice and Public Explanation of a Proposed Activity in a floodplain valley, "Juan F. Arroyo Recreation Plaza (PR–CRP–000312)

The Municipality of Canóvanas, as part of its public policy, reaffirms its commitment to ensuring the broadest citizen participation in its processes.

For the **Final Notice and Public Explanation of a Proposed Activity in a floodplain valley, "Juan F. Arroyo Recreation Plaza (PR-CRP-000312),"** the Municipality of Canóvanas has decided to grant an extension of the comment period until **December 1, 2025**, in order to encourage further input.

Written comments should be received at the following address on or before **December 1, 2025:** Office of Planning and Economic Development, P.O. Box 1612, Canóvanas, PR 00729-1612, Attention: Leslie R. Rivera Domenech, Director, Office of Planning and Economic Development. Comments may also be submitted by email to: planificacion@canovanasgov.com . A complete project description is available for public review from 8:30 a.m. to 4:00 p.m. at the Office of Planning and Economic Development, Municipality of Canóvanas, Autonomía Street, corner of Pepito Albandoz Street.

Date: **November 18, 2025**

Lornna J. Soto Villanueva
Alcaldesa / Mayor

Leslie R. Rivera Domenech
Oficial Certificador / Certifying Officer

¡Canóvanas es Más!

Validation Letter

December 2, 2025

To whom it may concern,

This letter is to validate that no comments were received in the Office of Planning and Economic Development e-mail: planificacion@canovanasgov.com, for the project ***Plaza De Recreo Juan F. Arroyo (PR-CRP-000312),*** as part of the CDBG-DR City Revitalization Program**.** The ***Final Notice and Public Explanation of a Proposed Activity in a Floodplain*** was published in the *Official website of the Municipality of Canóvanas* on November 18, 2025, with a comment period that concluded on December 1,2025.

Cordially,

Office of Planning and Economic Development

planificacion@canovanasgov.com | 787.957.1075

¡Canóvanas es Más!

Appendix 10

GOVERNMENT OF PUERTO RICO
STATE HISTORIC PRESERVATION OFFICE
Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Wednesday, November 27, 2024

Lauren B Poche

269 Avenida Ponce de León, San Juan, PR, 00917

SHPO-CF-10-23-24-08 PR-CRP-000312 (Canóvanas), Plaza Juan F. Arroyo Improvements

Dear Ms. Poche,
Our Office has received and reviewed the information submitted for the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation.
After a review of all the documentation, the SHPO agrees with your finding that the proposed project with the established condition, will have no adverse effect upon historic properties:
1. Archaeological monitoring during ground disturbing activities.
Please note that should the Agency discover other historic properties at any point during project implementation, you should notify the SHPO immediately. If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela
State Historic Preservation Officer
CARC/GMO/ MDC

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery

10/23/2024

Carlos A. Rubio Cancela
State Historic Preservation Officer
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá (Tercer Piso)
San Juan, PR 00902-3935

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program

Section 106 NHPA Effect Determination Submittal for PR-CRP-000312, Plaza Juan F. Arroyo Improvements, Canóvanas, Puerto Rico – *No Adverse Effect, Conditioned*

Dear Architect Rubio Cancela,

On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds was approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting unmet needs in the wake of Hurricanes Irma and Maria. On August 14, 2018, an additional $8.22 billion recovery allocation was allocated to Puerto Rico under the Federal Register Volume 83, No. 157, 83 FR 40314. With these funding allocations, the Puerto Rico Department of Housing (PRDOH) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents. To faithfully comply with HUD's environmental requirements, PRDOH contracted Horne Federal, LLC (HORNE) to provide environmental records review services that will support their objectives for the CDBG-DR funds.

On behalf of PRDOH, HORNE is submitting documentation for the proposed Plaza Juan F. Arroyo in the Canóvanas Traditional Urban Center, which is eligible for listing in the National Register of Historic Places. The Municipality of Canóvanas proposes to improve the existing plaza by enhancing the surface area with increased permeability and urban reforestation, alongside the installation of pavilions to provide shade. Sidewalks will be reconstructed, and accessibility will be prioritized with the inclusion of stairs and ramps on all sides. New lighting, benches, and planters will be installed. The full scope of the project is described in the submitted documentation, which includes mapping, photographs, and the 90% design development plans.

Based on the provided documentation, the Program requests a concurrence with a determination that "No Adverse Effect" is appropriate for this undertaking, conditioned to archaeological monitoring during all ground-disturbing activities. If this condition is deemed appropriate, An archaeological monitoring plan will be prepared and submitted to the PRSHPO for review and concurrence of the appropriateness of its implementation for this undertaking.

If you have any questions or concerns, please contact me by email at lauren.poche@horne.com or phone at 225-405-7676.

Kindest regards,



Lauren Bair Poche. M.A.
Architectural Historian, EHP Senior Manager
LBP/KPS

Attachments

PR-CRP-000312

Plaza Juan F. Arroyo Improvements

Canóvanas, Puerto Rico

Section 106 Effect Determination Form

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM **CITY REVITALIZATION PROGRAM (CITY-REV)** **Section 106 NHPA Effect Determination**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Canóvanas	
Case ID: PR-CRP-000312	**City:** Canóvanas
Project Name: Plaza Juan F. Arroyo Improvements	

Project Location: Calderon Mújica St., and Muñoz Rivera corner, Canóvanas PR00729	
Project Coordinates: 18.37913, -65.90094	
TPID (Número de Catastro): 089-086-015-01-000	
Type of Undertaking: ☒ Substantial Repair ☐ New Construction	
Construction Date (AH est.): 1930	Property Size (acres): 0.64

SOI-Qualified Architect/Architectural Historian: Cristina Montenegro Torres
Date Reviewed: 6/4/23, 2/24/24, 3/21/24, 9/ 17/24, 10/13/24
SOI-Qualified Archaeologist: Tamara González Vega
Date Reviewed: 6/9/23, 12/26/24, 5/2/24, 9/ 17/24

In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the NRHP and any properties not listed that would be considered eligible for listing that are located within the geographic area of potential effects (APE) of the proposed project and assessing the potential effects of its undertakings on these historic properties.

Project Description (Undertaking)

The applicant is seeking Community Development Block Grant disaster recovery funds financed by the federal Department of Housing and Urban Development due to damage received by the 2017 Hurricanes Irma and Maria. The Puerto Rico Department of Housing (PRDOH) has established an Agreement between PRDOH and the Municipality of Canóvanas (the "Subrecipient") for the City Revitalization Program ("Program") as part of the Community Development Block Grant for Disaster Recovery (CDBG-DR) Program. It is a Section 106 undertaking due to the use of federal dollars. Activities related to this project will be done in a manner that does not meet Stipulations II.A.1 and/or II.B.9 of the Addendum to the Programmatic Agreement. In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the NRHP and any properties not listed that would be considered eligible for listing that are located within the geographic area of potential effects (APE) of the proposed project and assessing the potential effects of its undertakings on these historic properties.

The existing Plaza to be improved measures 166 feet in width and 191 feet in length, encompassing an area of approximately 2,314.96 square meters. This plaza was formalized since the founding of the municipality of Canóvanas. According to the Recommended Base Flood Elevation Map from the Planning Board, Panel: 72000C0395J,

the plot is in Zone X (0.2% Annual Flood Probability). The property of the Plaza and all improvement rights belong to the municipality of Canóvanas, which has administered it since its founding and proclamation as a municipality.

The Plaza is in the center of the municipality of Canóvanas, with Muñoz Rivera Street to the south, PR 9959 to the north, Luis Hernaiz Street to the east, and Calderón Mújica Street to the west. The city hall borders the south side of the plaza, while the church is on the east side. The plaza is part of the Foundational Center of the municipality of Canóvanas, which was founded in 1909 as part of the municipality of Loíza and declared a municipality in 1970.

Design Compliance:

The project is designed to fully adhere to ADA standards, ensuring universal access to and enjoyment of the plaza. Primarily, it involves enhancing the surface area with increased permeability and urban reforestation, alongside the installation of pavilions to provide shade. Accessibility is prioritized with the inclusion of stairs and ramps on all sides, facilitating easy access without altering existing levels significantly. Minimal excavation for foundations is planned to maintain the current landscape. Detailed technical specifications and plans adhere to the PR Building Code 2018. The project meets all regulatory requirements for Construction Permit approval (dated August 12, 2024) as it focuses on surface improvements and reforestation without altering the plaza's footprint or current usage.

Ground Disturbance

- Reforestation: The project proposes the removal of existing trees and all existing perimeter shrubs. Existing concrete pavement will only be removed within the proposed circular planting areas and tree locations. Any existing construction below the pavement shall be removed until natural soil is found. New soil will be imported for backfilling of any tree excavation depth and creation of grass berms within the circular planting areas. The anticipated maximum depth of excavations shall not exceed 5ft.
- Flooring: Where the existing concrete pavement is intended to remain, the surface shall be prepared for the overlaid installation of proposed concrete pavers. Surface preparation will include partial leveling, and repair of any structural cracks found during the construction process.

- Shade pavilion: The installation of the shade pavilion inherently brings excavation of three-foot-deep trenches for the construction of a continuous footing that structurally supports the structure. No additional disturbance will be required.
- Lighting fixtures: All electrical fixtures will require minimal ground disturbance for the distribution of required branch circuits.
- Light columns: No additional excavation is required beyond circuit branch distribution as the fixture will be installed over the proposed concrete perimeter wall.
- Bollard lighting: No additional excavation is required beyond circuit branch distribution as the fixture will be installed over the proposed concrete paver flooring and existing concrete slab.
- In-grade lighting: No additional excavation is required beyond circuit branch distribution as the fixture will be installed over the proposed concrete paver flooring and existing concrete slab.
- Urban furniture: No disturbance is required for the installation of all benches and trash bins beyond the anchoring of each element to the existing concrete slab.

Demolition works:

- Remove and dispose of existing light post.
- Remove and dispose of brass plaques.
- Remove and dispose of existing sidewalk slab.
- Remove of existing concrete pavement in the APE
- Remove and dispose of existing brass joints.
- Remove and dispose of existing concrete stairs and ramps.
- Move & relocate hose bib.
- Remove and dispose of existing planter and related items.

New Construction:

- Lighting system
- Benches
- Trash recipients
- Reconstruction of sidewalks around the plaza
- Cast in place planters.
- The installation of trellises (open roof areas)

- The implementation of landscape to improve green areas.
- Perimeter Wall – 1ft below grade

The project, as proposed does not require any infrastructure beyond the existing one. The design has been thought to mitigate and reduce runoff to not contribute to the existing stormwater system by using green areas as retainer systems. Lighting, from the point of view of energy supply, would not require anything beyond the existing.

The improvements contemplated for the square are intended to meet the needs of use for the area, adding urban reforestation for greater enjoyment of users during most of the day. The project does not change or alter the footprint of the existing plaza. The design considers the historical past, and its main objective is not to alter the urban setting, feeling, and association.

Design Strategies:

The design strategies outlined adhere to the development progress reflected in the 90% completion stage of the construction documents.

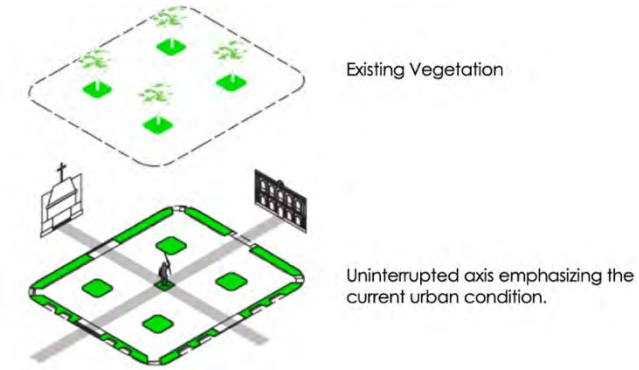


Figure 1

The Juan F. Arroyo Plaza is in a flood-prone area, which justifies its elevated condition. Currently, the plaza contains less than 18% as green space, and of this, all are raised planters. Our proposal begins by recognizing the ecological value that the Plaza can provide to its

surroundings. We wonder how the Plaza can contribute to the urban area. We start by envisioning the existing Plaza as a grey carpet on which we puncture with soft geometries, introducing permeable areas. The green areas containing the existing trees are articulated as mounds, reducing the impact that elevated tree roots may have. Along the perimeter and in the center of the plaza, green areas remain flat. Among the green areas, a linear system parallel to City Hall organizes the rest of the infrastructure necessary to make the plaza functional.

In Figures 1 and 2, we see that the existing plaza, like many others, consists of an element located in the center of it, interrupting the visual axis. We propose a flat green area where we do not interrupt the visual axis and allow for a sitting area in the center of the space. The proposed green area also allows us to redirect the view towards the church from City Hall and vice versa.

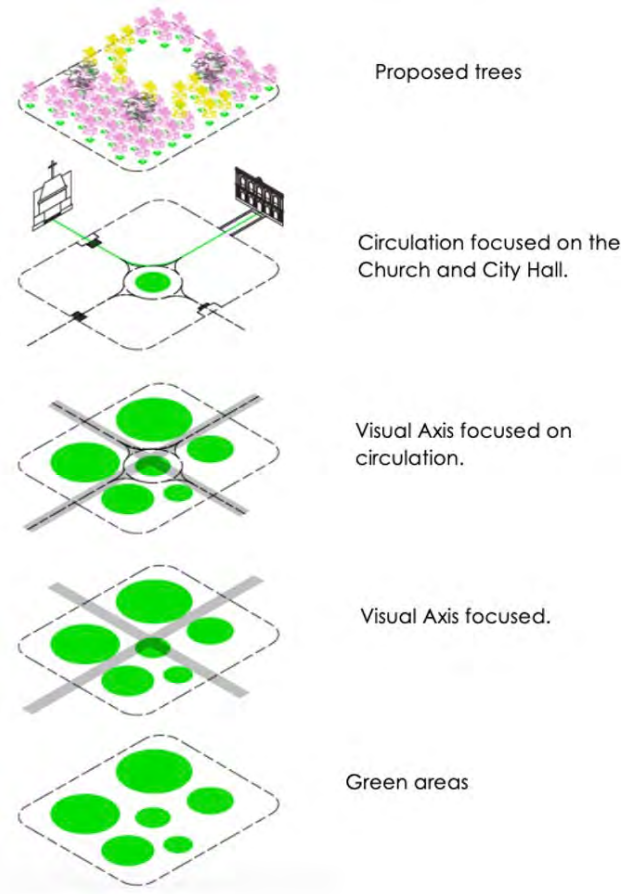


Figure 2

Proposed Access and Circulation:

Being this a raised plaza, the proposal aims to maintain the existing main accesses of the plaza on the axes City Hall / Old Public Transportation Structure and Church / Shops. At these points where the visual axis is established, circulation is distributed between stairs and ramps, providing a similar experience to each person. We recognize that there is a large volume of pedestrians entering the plaza diagonally, due to nearby schools. At the corners, access to the plaza is proposed through a ramp with the lowest possible incline and stairs of a smaller scale than those mentioned earlier.

The main circulation is directed along the main axes, re-establishing the existing four quadrants. In these quadrants, circulation is smoother, among the existing and proposed trees. Along the City Hall / Old Public Transportation Structure axis, a pedestrian crossing is proposed, reinforcing the axis itself and connecting the City Hall with the future Mercado del Pilar located in the Old Public Transportation Structure.

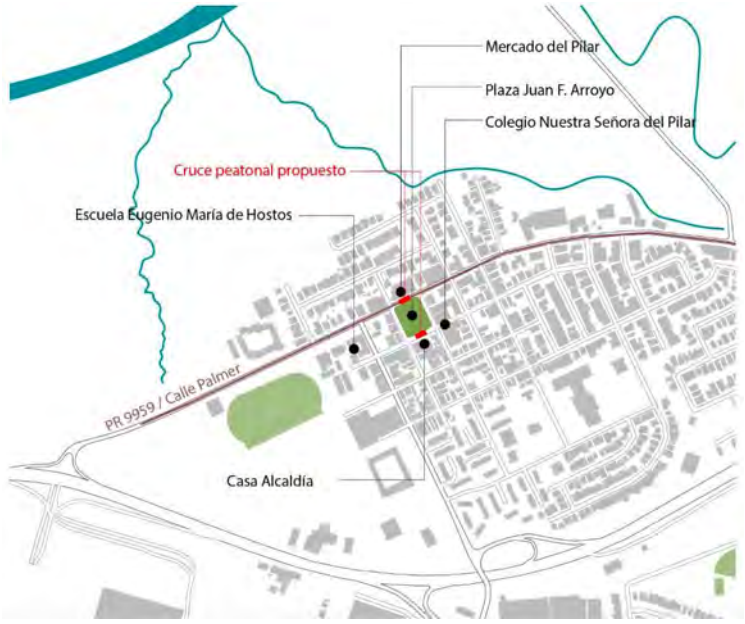


Figure 3: Location diagram of Plaza Juan F. Arroyo concerning nearby schools and crosswalks.

Proposed Trees:

As part of the vegetation strategy, the trees in the northeast, northwest, and southwest quadrants are preserved. The plaza's perimeter walls are of concrete, respecting the height of the existing plaza's elevation. In the plaza's interior, there are no planter walls. Instead, grass berms are designed to transition between the existing plaza level and the tree root level. A network of equidistant trees is established to provide shade, reduce heat, and restore the green character that this plaza had originally. The flower colors will be yellow and purple, reflecting the colors of the flag of Canóvanas once they bloom. The distribution of trees will also mitigate and reduce runoff contribution to the city's

existing stormwater system by using green areas as capture systems. The project proposes the removal of 3 existing trees (one Black Fig tree from the southeastern quadrant, and two Maria trees from the existing north entry). 62 new trees will be planted following a uniform grid, providing shade, reducing heat, and restoring the green character initially held by the plaza. The planting of trees will also mitigate stormwater by using green areas to slow down and infiltrate water where possible. The flower colors will be yellow and purple, reflecting the flag colors of Canóvanas once they bloom. For detailed locations and specifications, please refer to the construction documents.

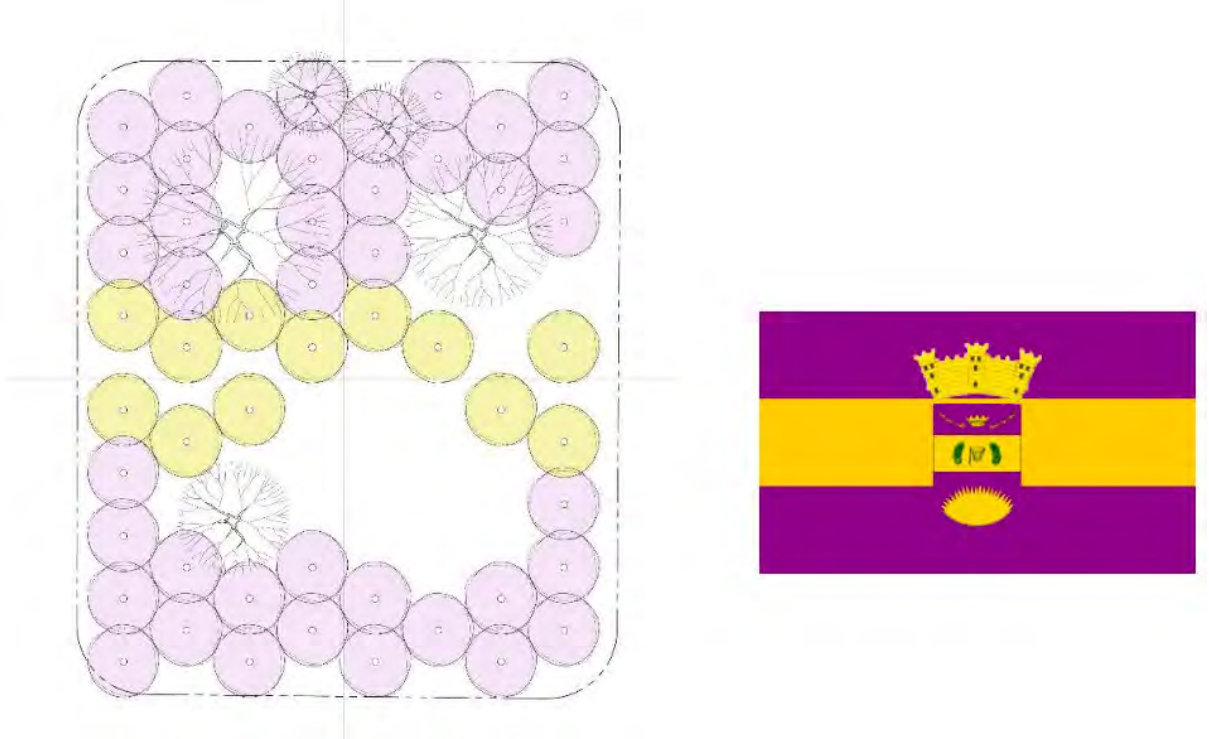


Figure 4: Diagram of distribution of trees and colors / Flag of the Municipality of Canóvanas

Proposed Pavement:

The project proposes a uniform leveling of the plaza and the installation of concrete pavers over the existing plaza pavement. Concrete pavers will be of an exposed aggregate finish meeting the friction requirement for public spaces as well as ADA and universal design standards. It measures 18”x46” and is produced by 713 Pre-cast LLC,

available in light gray and gray. The light gray color will be used in the plaza space, while gray will be used on the surrounding sidewalks. The installation will be focused on correcting the level of the existing pavement, to be used as a base for new concrete paver installation.

The floor pattern is oriented parallel to City Hall. The intersection of the linear pavement pattern and green areas produces a stepped layout that approximates the curves of the planters. From the same linear orientation, trees, furniture, lighting fixtures, pavilions, and galleries are organized.

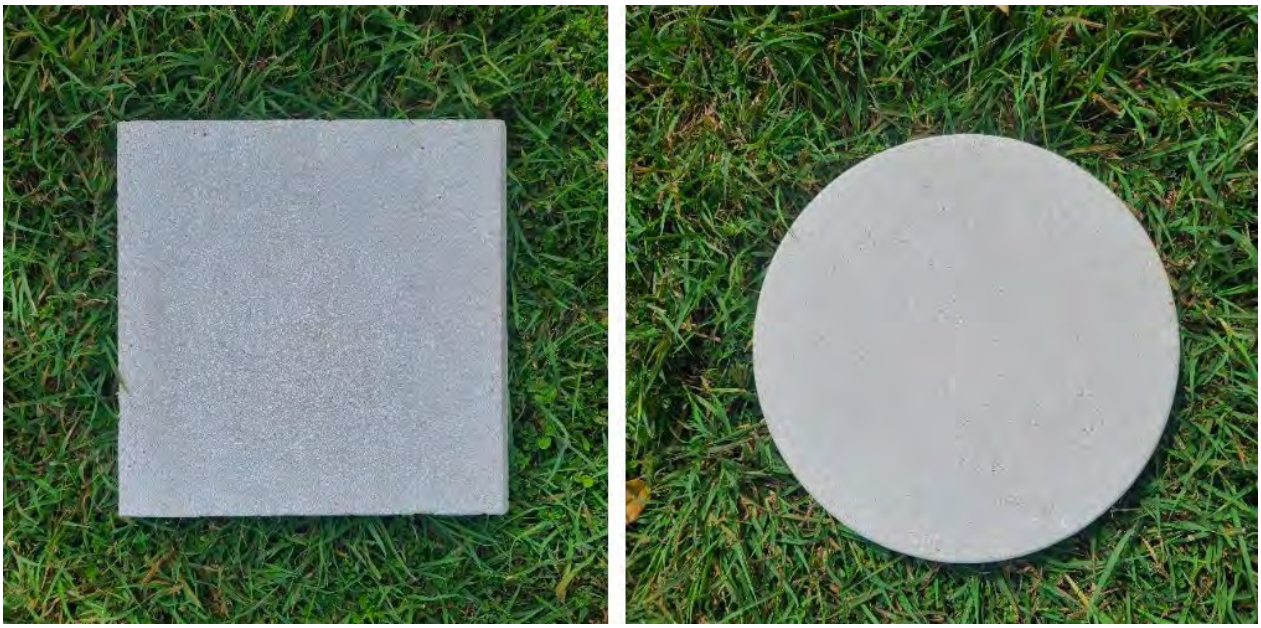


Figure 5: Pavement samples (left grey, right light grey).

Proposed Shade pavilions:

The proposed shade pavilions are strategically positioned among the trees to offer protection from rain while enhancing the aesthetic appeal of the plaza. Crafted from aluminum with a sleek white powder-coat finish, these pavilions not only provide shelter

but also add a contemporary touch to the surroundings.

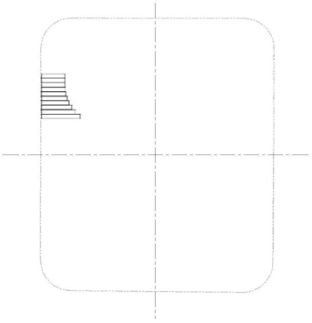


Figure 6: White "Powder Coating"

Gallery / Threshold:

The Gallery serves multiple functions. First, its location establishes a threshold to the plaza. Second, it will be a structure where art or any other needs can be exhibited. Third, it serves as a point of reference in the city, attracting citizens to the public space. Like the shade pavilion, it is made of aluminum with a white powder-coat finish. It is located outside the visual axes. For detailed location and specifications, please refer to the construction documents.

Figure 7: Location of the Gallery Pavilion concerning the visual axes.



Proposed Urban Furniture:

The furniture responds to the pavement organizational strategy. A series of benches (18"X18" and 72"X18") are proposed surrounding the circular planters, referencing the initial garden paths of the historic orthophotographs.

The benches are to be of an exposed aggregate concrete equal to the proposed concrete paver flooring. Beneath the bench, the paver finish changes to a darker tone, emphasizing that the bench is part of the pavement system, where it rises as a strip. The formal simplicity of the proposed furniture allows for the green spaces to be the focus of the space, as it was previously. The material selection ensures easy maintenance and durability that will allow the plaza to be always in acceptable condition.

For detailed locations and specifications, please refer to the construction documents.

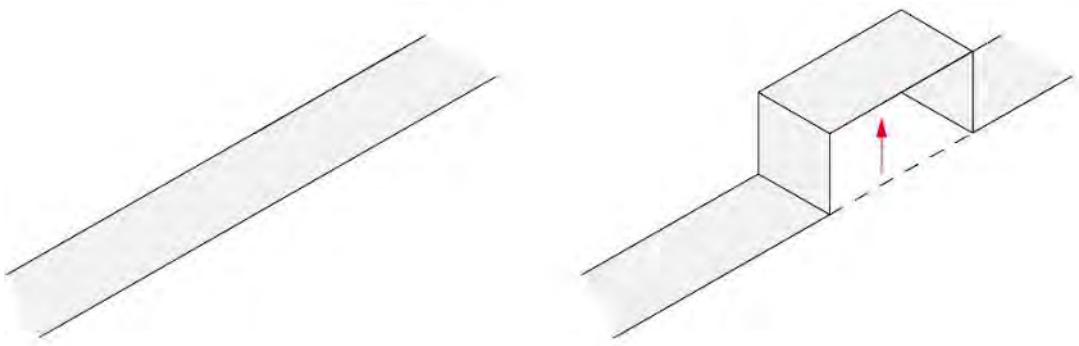


Figure 8: Diagram of the fringe joint, forming the bank.

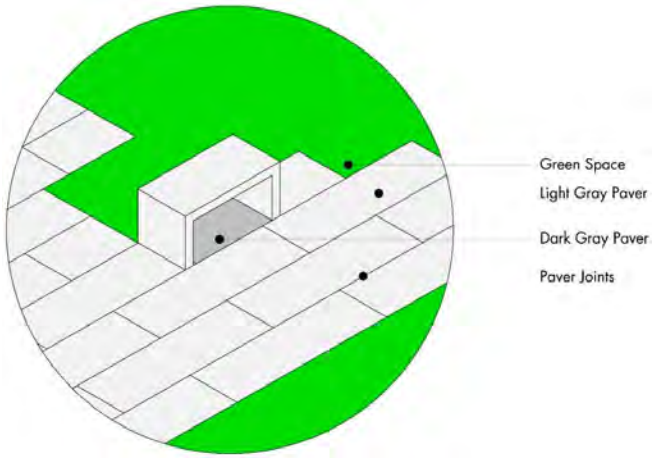


Figure 9: Bench – 713 Precast LLC.
For detailed locations and specifications, please refer to the construction documents.



Figure 10: Trash bin – 713 Precast LLC

Proposed Urban Lighting:

The project encompasses an innovative approach to illuminating urban spaces, fostering safety, ambiance, and community connectivity. Through strategic placement and cutting-edge technology, the proposed urban lighting solution aims to enhance both functionality and aesthetics, creating vibrant and inviting environments after dark. By

blending modern design with energy-efficient practices, to not only illuminates pathways and public areas but also inspires a sense of pride and belonging within the community.

The existing lighting will be removed, and no excavation will be required for the new lighting installation as they will be anchored to the perimeter wall. For detailed locations and specifications, please refer to the construction documents.

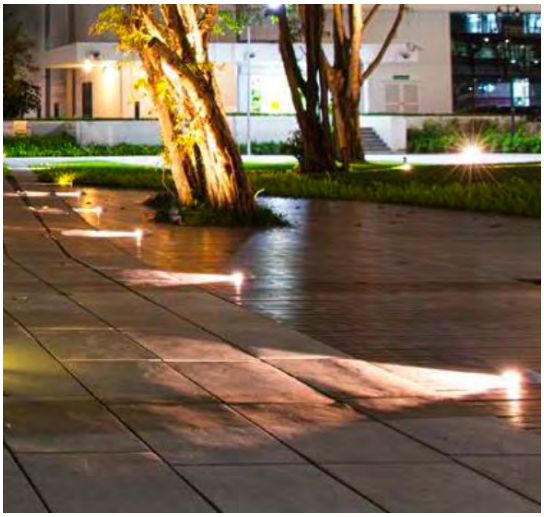


Figure 11: Illumination Strategy to illuminate the pavement in the center of the square.



Figure 12: Proposed product to illuminate the edge of the pavement in the square. For detailed locations and specifications, please refer to the construction documents.

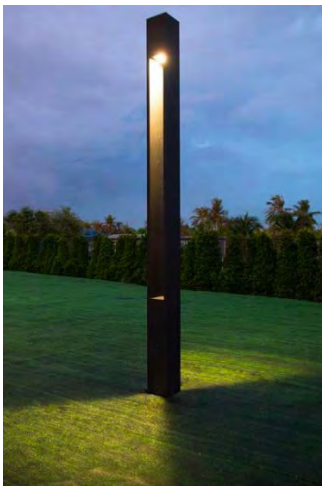


Figure 13: Proposed product to illuminate the sidewalks surrounding the square. For detailed locations and specifications, please refer to the construction documents.

Existing lighting fixtures will be replaced with the specified light fixtures. No additional excavation will be needed as the sidewalk light columns will be installed on the plaza perimeter wall and the interior bollard and in-grade fixtures to be installed surrounding the new planters.

The proposed project for this area has been thoughtfully designed to support and enhance the traditional town center plaza typology. By carefully considering the urban scale, material selection, and contextual harmony, the project aims to create a cohesive and respectful addition to the historic urban fabric. The design ensures that new elements are not intrusive toward historical elements and coexist seamlessly with the existing architectural character and historical context. The use of appropriate materials and attention to the scale of surrounding structures helps maintain the aesthetic integrity of the plaza. This approach not only preserves the historical significance of the town center but also revitalizes it, providing a functional and visually appealing space for community activities and interactions. The project reflects a deep understanding of the traditional

town center's cultural and social importance, ensuring that any enhancements contribute positively to its timeless utility.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project includes Juan F. Arroyo Public Square in Canóvanas.

The urban center of Canóvanas is formed by an oval, whose limit to the south on the PR-3 highway and to the north the floodplains by the Canóvanas River. Even today it retains the original grid with a square, not in the center, but on one of its sides (current Palmer Street). This original nucleus is where today most of the commercial uses and part of the governmental buildings are concentrated, surrounded by single-family urbanizations.

The Palmer Street's extends across a linear distance of 1798.54 meters. The street's sinuous configuration results in varying widths along its course, fluctuating between 8 meters and 10 meters in different segments. Palmer Street boasts a diverse array of small local businesses catering to a broad spectrum of clientele. Its visual landscape encompasses establishments serving civic, sports, dining, medical, and equipment maintenance needs. Positioned as a contemporary boulevard of commerce. The construction of PR-3 improved connectivity with Canóvanas, while Palmer Street provided a direct link to PR-3, facilitating access both east and west. This connection integrates the town's urban center with the main state highway, PR-3.

Juan F. Arroyo Public Plaza, the direct APE, is the center of the Traditional Urban Center (TUC) of Canóvanas. The APE measures 166 feet in width and 191 feet in length, encompassing an area of approximately 2,314.96 square meters (0.64 acres). The main square of Canóvanas is surrounded by Muñoz Rivera Street to the south and bounded by PR- 9959 to the north. Luis Hernaíz Street to the east and Calderón Mújica Street to the west. The Plaza is rectangular in shape and the main shortest façade is facing to the south. The public square materiality is concrete construction and has concrete floor tiles installed. Centered in the public square, an octagon screed poured concrete is evident, and a bronze statue remarks the center of the plaza. In addition, planters at each corner of the public square are evident to enclose visually the perimeter.

Directly facing the APE to the south, along Muñoz Rivera Street, are several two-story commercial buildings built circa 1960 to 1980, also constructed of concrete. These units, while modest in height, contribute to the overall visual context of the area surrounding the APE. To the north, along Palmer St, lies multiple one-story commercial structures and an old public car station from the 1970s, echoing the scale of the neighboring buildings. Collectively, these visual elements delineate the character of the APE's immediate visual

environment, highlighting the interplay between traditional and contemporary architectural elements.

The indirect Area of Potential Effect consists of multiuse buildings characterized by varying heights and distinct architectural styles. The two-story buildings stand approximately 30 feet tall, while the one-story structures reach about 12 feet. The architectural styles present in this area include Spanish Neoclassical, Art Deco, and Modern, providing a diverse visual landscape. These buildings typically lack setbacks, creating a uniform streetscape with a continuous building line. The volumetric design of the buildings is predominantly rectangular, contributing to a cohesive and structured appearance. Balconies are a common feature on many of the two-story buildings, adding an element of depth and interest to the façades. Construction in the APE predominantly uses concrete, reflecting common building practices and materials in the region. The combination of these styles and features creates a vibrant and eclectic architectural environment.

The Eligible Traditional Urban Center of Canóvanas stands as a vibrant testament to the 18th century, encapsulating the unfolding culture of the municipality within its structures. This area boasts a harmonious coexistence of buildings from various epochs and architectural styles, including neocolonial and postmodern designs. The Traditional Urban Center has played a pivotal role in halting the deterioration and irreversible disappearance of many historically significant and salvageable structures. The rich cultural context surrounding the site significantly enhances its value. The project's proximity and integration within the urban center will enhance these culturally significant areas and add immeasurable value, creating a vibrant and contextually rich environment.

Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area is within the boundaries of the National Register of Historic Places (NRHP) eligible Canóvanas Traditional Urban Center.

Canóvanas has a territorial extension of 73.12 km. As for its territorial limits, it is in the northern region of Puerto Rico, with the municipality of Loíza as its northern border. To the south with Juncos and Las Piedras, to the west with Carolina and Gurabo. On the east side it is bordered by Rio Grande and again by Loíza. In the case of the area evaluated in this report, Juan F. Arroyo Public Plaza, is the focal point of the Traditional Urban Center (TUC) in Canóvanas, measures 166 feet wide and 191 feet long, covering about 2,314.96 square meters (0.64 acres). The main square is bordered by Muñoz Rivera Street to the south, PR-9959 to the north, Luis Hernaíz Street to the east, and Calderón Mújica Street to the west.

Possibility of pre-Hispanic archaeological findings

In the case of the municipality of Canóvanas, little archaeological information is available. The pre-Columbian sites are associated with Agro-Pottery II groups (ca.600 AD-1,200 AD), sites CN-1 and TCN-6 were Monserrate, Santa Elena and Esperanza styles have been identified. The documented pre-Columbian sites are in the neighborhoods of Hato Puerco, Lomas, Canóvanas and Torrecilla Alta, mostly in rivers or near bodies of water, since several of them are petroglyphs. The information on pre-Columbian resources available in the reviewed collections indicates that the general area where the Project is located does not present evidence of pre-Columbian deposits. Due to the modifications that the area underwent due to later occupations, it was concluded that the potential for finding pre-Columbian resources in the area under study is low.

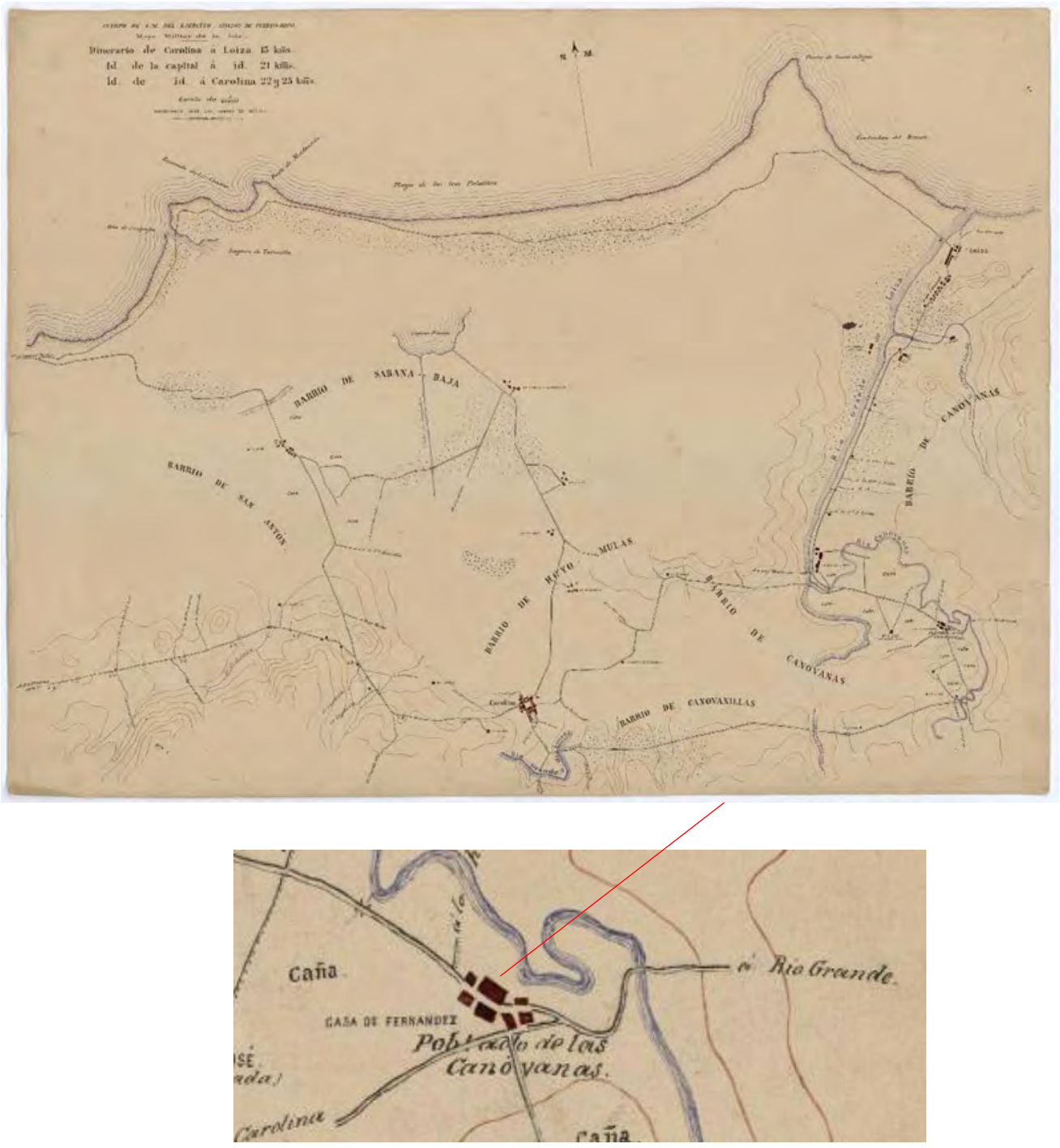
Canóvanas was a neighborhood of the municipality of Loíza for more than 400 years. The Traditional Urban Center of Canóvanas was built during the 19th century; according to historical cartography we find "El poblado de las Canóvanas" is graphically represented for the first time in the Itinerary Plan from Carolina to Loíza of 1888. Because of its links to sugar production, Canóvanas was, for four centuries, the most important territory of the old Loíza district. The first known Spanish settlement in that area was the Ingenio San Luis, located on the western bank of the Canóvanas River, this production unit was founded by accountant Luis Pérez de Lugo in 1550, and the remains of the Hacienda San Luis are located north of the TUC. The area did not undergo major changes until the 1780s when the sugarcane economy in Puerto Rico changed, and emigration brought foreign investors, who bought ponds from the region's sugarcane plantations. Later in the 19th century, there were seven sugar haciendas in Barrio de Canóvanas, all of them with European capital. Six owners controlled more than a thousand acres of land in the Canóvanas neighborhood. In these historical moments, Canóvanas was not the neighborhood with the highest concentration of population, but it was the one with the greatest number of haciendas and wealth, compared to the seat of the municipal government, which was supposed to be Loíza. From 1887 onward, the political and economic sectors related to sugar production began a movement to move the center of municipal power from Loíza to Canóvanas.

Canóvanas Traditional Urban Center

Through the study of historical cartography and aerial photographs we can better understand the development of the downtown area and its historical relationship to the city of the urban center area of Canóvanas and its historical relationship to the city. The cartographic information related to the development of the municipality of Loíza dates to the 16th century. The urban nucleus of Canóvanas was organized following the European orthogonal grid. The city reached about two blocks at the beginning of the 20th century. The domestic architecture made up most of the structures, and the development of residential blocks followed closely followed the growth of defensive and public facilities in a northwest to southeast direction to southeast.

XIX Century

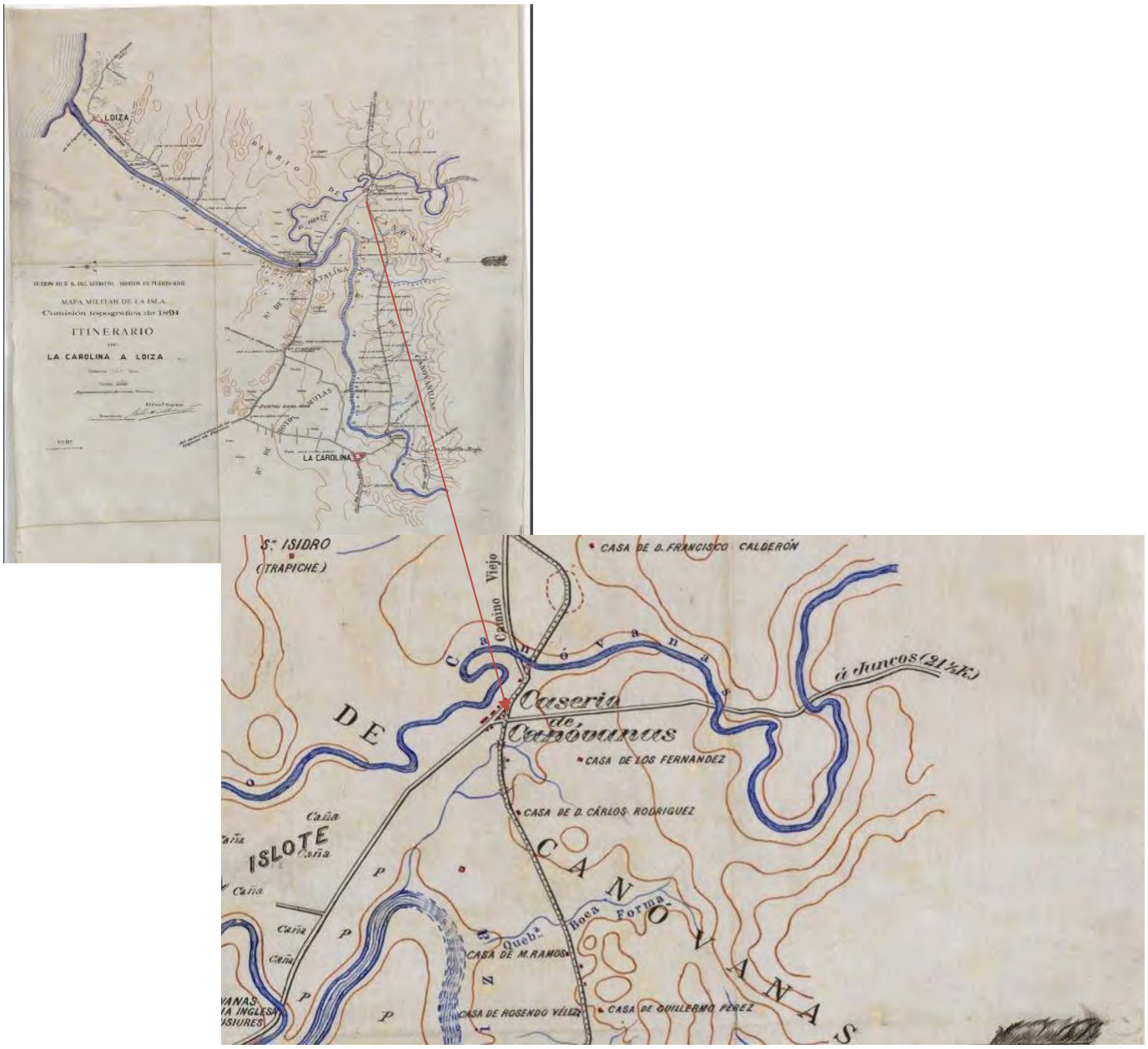
Figure 14: 1888 Itinerario de Carolina a Loíza Cuerpo de E.M. del Ejercito. Sección de Puerto Rico



Puerto Rico 2017 Disaster Recovery, CDBG-DR Program **City Revitalization Program (City-Rev)** **Section 106 NHPA Effect Determination**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Canóvanas	
Case ID: PR-CRP-000312	**City:** Canóvanas
Project Name: Plaza Juan F. Arroyo Improvements	

This figure shows the present municipality as a town of Canóvanas in the 1888 Itinerary of the Spanish Army. The road that runs from Carolina to Rio Grande divides the town, which consists of seven buildings, three of them on the north side of the road and four on the south side. The town is surrounded to the north by the river of the same name and the remaining area by sugar cane fields.

Figure 15: Itinerary from Carolina to Loíza Army Corps of E.M. of the Army. Puerto Rico Section of the year 1891



In figure (15) from the 1891 Itinerary of the Spanish Army, Canóvanas, on the edge of the road that leads from Carolina to Juncos, is named Caserío de Canóvanas. It has a road that passes right in the middle of the hamlet called Camino Viejo (Old Road). During the first 400 years of Spanish colonization, Canóvanas was part of the Municipality of Loíza as a barrio. When examining the previous sketches made by the cartographers of the Spanish army, there are signs of sugar cane fields, farms, sugar mills, roads leading to Loíza, Carolina, Rio Grande and Juncos. There are signs of houses of residents in the extensive neighborhood. Several rivers and streams run through the area that once made up the neighborhood. These rivers are the Grande de Loíza and the Canóvanas. This particularity made the valley fertile. This contributed to the development of sugar mills and later haciendas in this part of the island. This in turn led to the neighborhood becoming a prosperous one, where settlers gathered, building what the sketches show as Poblados and/or Caserío in other towns, in the place that today we call the urban center of the municipality of Canóvanas.

XX Century

In 1900, the isolation of Loíza was notable, which is why most of the residents requested the transfer of the town's headquarters to Canóvanas. As a result, the municipality of Canóvanas was inaugurated in March 1910, although the municipality continued to belong to Loíza. Subsequently, on August 16, 1970, a referendum was held for the boundary between Canóvanas and Loíza, which was approved. Consequently, on January 8, 1973, Canóvanas was named as a legal municipality and no longer as a neighborhood of the municipality of Loíza. In the 20th . In 1902, the Puerto Rico Legislative Assembly passed a law for the consolidation of certain municipalities. As a result, both Canóvanas and Loíza were incorporated into the Municipality of Río Grande. However, in 1905 a new law repealed the previous law, returning Canóvanas to its previous status as a barrio of Loíza. In 1909 the administration of Loíza was transferred to the neighborhood of Canóvanas, which was more developed than Loíza. Also, the construction of PR-3 facilitated communication with Canóvanas. As a result of the cession, land was acquired to build an urban center including a new town hall and town square. It was not until a law was passed on June 30, 1969, that both municipalities were recognized as having "clearly different population centers recommending the establishment of two municipalities. The change was approved in 1970. Until 1969 the municipality of Canóvanas was a ward of Loíza Party, this municipality was isolated and considered of little importance, although this situation changed when communication

routes were opened. century Canóvanas has had great growth, both urban and economic, thanks to its proximity to San Juan.

Figure 16: The 1930 photograph shows the historic center of Canóvanas with its grid oriented to the northwest. The photo shows a total of 30 blocks. To the north of the plaza, PR 9959 (present day) runs east west and PR 185 runs south. The surrounding area is mostly free of trees. The municipal cemetery can be seen to the south of the town. Aerial photograph 1931 CUT development in Canóvanas. (ACT Photogrammetry

Office)

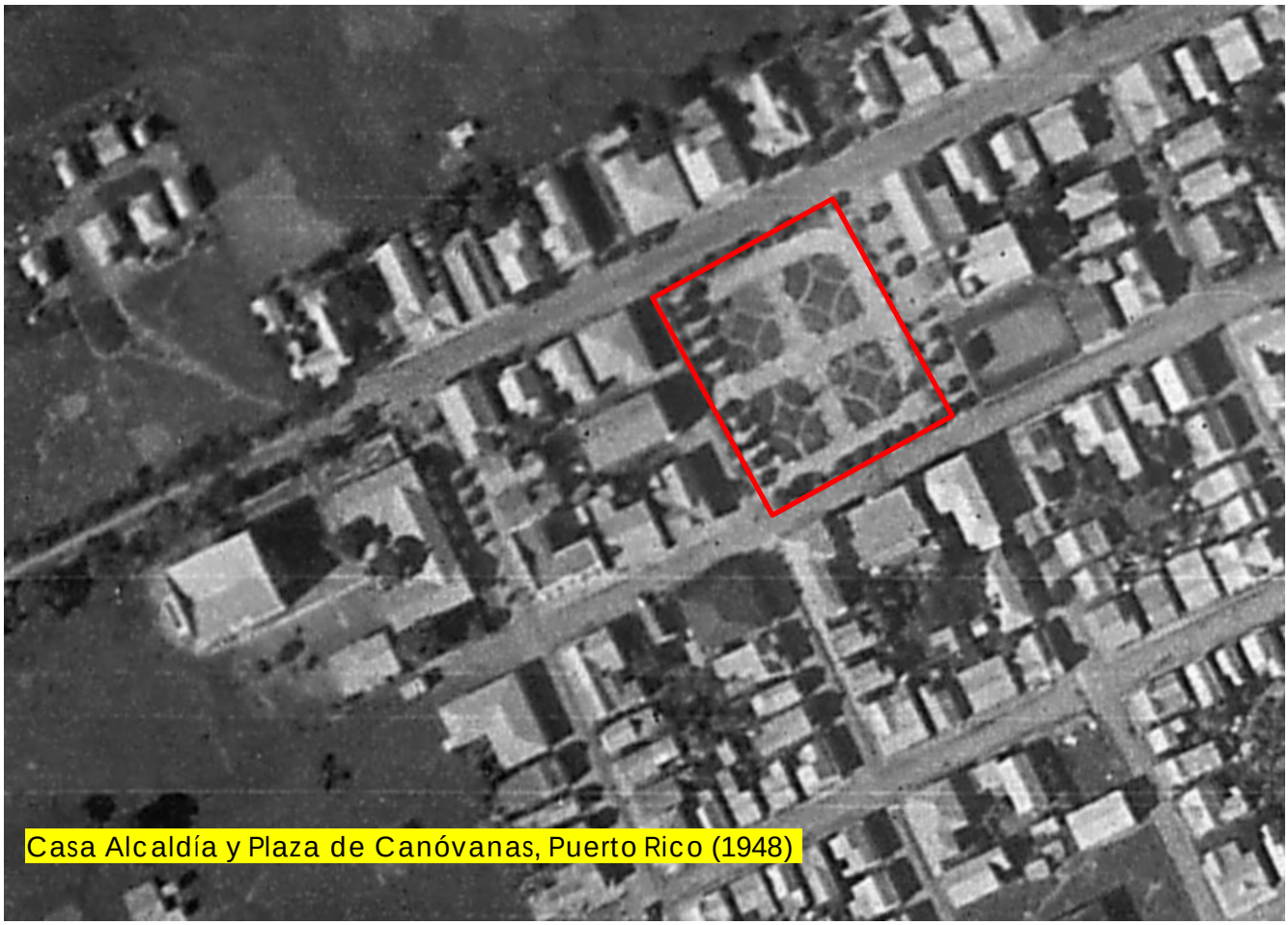


Figure 17: 1950 (ACT Photogrammetry Office) the displacement of the town of Canóvanas begins to be seen in the blocks north of PR 9959 (present day) and behind the Eugenio María De Hostos School.



Figure 18:Aerial photograph 1964 shows urban development beginning to expand in a north-east and south direction. Development to the west is limited. The town in the 1960s continues to expand to the north, east and south sides mostly, while to the west it is more limited. Highway #3 to Luquillo is present passing south of the new part of town, immediately south of the municipal cemetery.



Figure 19: Aerial photograph 1971, having become a municipality in 1970, Canóvanas begins its urban expansion. The figure presents an urban expansion where the original buildings of the historic center of 1930 have been doubled. There is new housing on the southeast and south side of town. To the south of highway 3, new large commercial buildings are beginning to be seen.



Figure 20: (ACT Photogrammetry Office): The 1990 aerial photograph of the municipality of Canóvanas shows a development completely south of Highway 3. In the photograph, the El Comandante Racetrack appears to be constructed, as well as other facilities.



Figure 21 : Aerial photography 2007, Google Earth pro

The development of the municipality has potentially expanded to the south and west of the urban center, developing different developing different communities of urbanizations.



Figure 22: Aerial photography 2006,-2023, Google Earth pro



Archaeological potential

No findings of settlements from pre-Hispanic periods have been detected in the vicinity of the study property. However, this lot has suffered several impacts from the 19th century to the present due to the various human occupations.

By the end of the 19th century, the "poblado" of Canóvanas already had a "caserío", a butcher shop, and a post office. The "poblado" continued to expand westward on 10 acres of land ceded by Mr. Carrión. This land was previously part of the Hacienda San José and private homes such as the Don Carlos Rodríguez House and the Fernández House. In 1900, Canóvanas already functioned as the administrative seat of Loíza, but it was not until 1909 that the Loíza administration officially moved to the Canóvanas neighborhood. In addition, the construction of PR-3 facilitated communication with Canóvanas. As a result of the move, land was acquired to build an urban center that included a new city hall and a main square. Because of this, the City Council acquired land to build the new City Hall, a slaughterhouse, a recreation plaza, a butcher shop, a cemetery and to delimit the streets of the area. The following year, the municipal offices, the justice of the peace court and the rest of the services provided by the municipality were moved. No construction plans or documents detailing the construction process of this new urban center have been found, so the exact year and process of design and construction of the Plaza Pública de Canóvanas is unknown. However, the oldest structures around the Plaza have a chronology ranging from 1900 to 1930. From the cartographic and documental information, it is deduced that the Plaza was in operation since 1900.

Based on this information, it is possible that under the terrain occupied by the Plaza Publica de Canóvanas, archeological remains can be found, related to the agricultural activities of the 19th century (sugar cane, rice and small fruits were planted) and foundations of structures associated with the Hacienda San José and private houses of the 19th century.

Table 1: There are eleven (11) cultural resources within a 0.25-mile radius of the project area that is 45 years or older, Six (6) Eligible to the to the NRHP.

#	Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
1	Juan F. Arroyo Public Square	n/a	n/a	Within	Within Public square was built circa 1900	Eligible
2	Casa Alcaldía	n/a	n/a	9 m/30 feet South	Neoclassical style building/1907-1910	Eligible
3	Alban doz esq. Blanco Sosa	CN-42	CN-42	170 m/557 feet	Southeast Creole wooden residence 1910	Elegible
4	Luis Hernaiz # 80	CN-44	CN-44	70 m/229 feet East	Creole bungaloo concrete 1930	Elegible
5	Luis Hernaiz 7	CN-45	CN-45	126 m/413 feet South	Creole bungaloo concrete 1930	Elegible
6	Blanco Sosa	CN-46		70 m/229 feet East	Creole bungaloo	Elegible

#	Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
					concrete 1930	
7	Muñoz Rivera esq. Blanco Sosa	CN-47		75 m/246 feet	Neoclassical style 1930	Elegible
8	Parque de Bombas	CN-49		61 m/200 feet Northeast	Art Deco 1940's	Elegible
9	Eugenio Maria de Hostos Public school	No data	CW020 0025	121 m/397 feet West	1925 PRERA Schools	Eligible
10	Andres Flores Lopez Public school	No data	CW020 0026	142 m/465 feet West 1925	1925 PRERA Schools Eligible	Eligible
11	Colegio Nuestra Señora	No data		32m/108 feet East	1964	Eligible

#	Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
	del Pilar					
12	55-67 Cll Pepita Albandoz,	No data	No data	157 m/515 feet Southwest	Streamline/Art Deco.	Elegible
13	Calle Autonomia	No data	No data	130 m /426 feet Southwest	Streamline/Art Deco.	Elegible
14	Ingenio San Luis	CW020 0006	CN-H5	353 m/0.21 m north	Sugar Mill XVII	Elegible

Table 2: There are two (2) archaeological studies within a 0.25-mile radius of the proposed project area, one (1) of them with positive results.

#	Author	Phase/Title	Year	SHPO / IPRC code	Results	Distance/Direction
1	Marisol Meléndez	IB/Escuela Intermedia Urbana Antonio R. Barceló	1994	CN-94-0107	Negative	213 m South
2	Meléndez Maíz, Marisol	Investigación Regional Recursos Culturales del Municipio de Canóvanas"	2002	BCAT-0163	Positive	Regional Survey

Identification of Historic Properties - Architecture

Existing information on previously identified historic properties adjacent to has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area is within the boundaries of the National Register of Historic Places (NRHP) eligible Canóvanas Traditional Urban Center.

The evaluation considers eligible historical properties that are within a 1/4-mile radius with emphasis on those in the visual APE. This consideration is in the best interest of identifying properties that will or can incur a direct effect.

Historic Properties within a ¼ mile radius:

1. Canóvanas Public Square built in the 19th century, eligible for criteria A, and located in 18.379064, -65.900909. This is the APE.

2. Canóvanas Town hall built circa 1920, the style is neoclassical, eligible for criteria A and C, and located in 18.378723, -65.90084. This is 11 meters south of the APE.

3. Municipal Cemetery: built circa 1930, and located in 18.375444, -65.900363. This is 347 meters south of the APE.

4. Nuestra Señora del Pilar Parish built circa 1970, the style is Postmodern, eligible for criteria C, and located in 18.379159, -65.900606. This is 14 meters east of the APE.

5. Colegio Nuestra Señora del Pilar built circa 1970, the style is Postmodern, eligible for criteria C, and located in 18.379133, -65.900548. This is 14 meters east of the APE.

6. Andrés Flores López School built circa 1940, style is Neo renaissance, eligible for criteria C, and located in 18.378564, -65.902364. This is 111 meters west of the APE.

7. Eugenio María de Hostos School built circa 1947, the style is Postmodern, eligible for Criteria c and located in 18.378737, -65.901927. This is 74 meters west of the APE.

8. Fire Station: built circa 1942-1955, the style is Art Deco, eligible for criteria C, and located in 18.379538, -65.901694. This is 69 meters north of the APE.

9. Seventh-day Adventist Church built circa 1970, the style is Postmodern, eligible for criteria C, and located in 18.379188, -65.899707. This is 97 meters east of the APE.

10. Jesús T. Piñero Residential built circa 1954, the style is Postmodern, eligible for criteria C, and located in 18.376732, -65.900078. This is 227 meters south of the APE.

11. A Commercial three-story building, Parcel ID: 089-076-010-01 was built circa 1970, eligible for criteria C, and located in 18.379394, -65.900713. This is 10 meters north of the APE.

12. A commercial two-story building, Parcel ID: 089-076-048-12 was built circa 1964, eligible for criteria C, and located in 18.3797027, -65.9009200. This is 22 meters north of the APE.

13. Farmacia Olivero was built circa 1960 eligible for criteria C, and located in 18.3788071, -65.901279. This is 10 meters west of the APE.

Historic properties visible from APE:

The APE has significant Architectural historical value therefore a detailed description of NRHP-eligible historic properties is presented to record the historical contributing elements to the traditional urban center and support the final determination for the proposed project.

- Canóvanas Public Square, Juan F. Arroyo Public Square is the APE.
- Canóvanas City Hall is 30 feet away from the APE.
- Canóvanas Fire Station: is 0.01 miles away from the APE.
- Colegio Nuestra Señora del Pilar school is 108 feet away from the APE.
- Nuestra Señora del Pilar Parish is 110 feet away from the APE.
- A commercial three-story building, Parcel ID: 089-076-010-01 is 0.01 miles away from the APE.
- Commercial two-story building, Parcel ID: 089-076-048-12 is 0.01 miles away from the APE.
- Farmacia Olivero is 0.01-miles feet away from the APE.

Canóvanas Public square Juan F. Arroyo

The Canóvanas Traditional Urban Center was built during the 19th century; according to 1946 historical cartography and aerial photographs, it can be deduced that the Canóvanas public square has undergone few changes in its original demarcation. In 1937, improvements were completed to the Public Square, without significant alterations to the original geometry. The changes have not been consistent with the perimeter setting therefore historical architectural value has been compromised however criteria consideration "Person" can be singled out by this property.

The main square of Canóvanas is surrounded by Muñoz Rivera Street to the south and bounded by PR- 9959 to the north. Luis Hernaíz Street to the east and Calderón Mújica Street to the west. The Plaza is rectangular in shape and the main shortest façade is facing to the south. The Plaza occupies a footprint of 2,913.5 m^2. The public square materiality is concrete construction and has concrete floor tiles installed. Centered in the public square, an octagon flooring concrete pattern is present, and a bronze statue remarks the center of the plaza. In addition, Planters at each corner of the public square are evident to enclose visually the perimeter.

The quality of significance, as defined by the NRHP, is present in buildings that possess integrity of location, design, setting, materials, workmanship, feeling, and association. This property fulfills three (3) of seven (7) criteria: Location, Setting, Feeling, and Association.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D Information Potential. This property fulfills one (1) of the four (4) criteria: A-Event

A-Event: The Canóvanas Plaza holds significant historical value as it functioned as the paramount gathering hubs for all civil events and communal activities during the formative stages of the municipality's cultural evolution. Throughout its history, the plaza served.

As a focal point for social gatherings, community celebrations, and important civic events, fostering a sense of unity and camaraderie among the residents of Canóvanas. Its central location and spacious layout made it the ideal venue for various cultural, political, and recreational activities, reflecting the municipality's vibrant social fabric and embodying its collective spirit. As such, the Canóvanas Plaza stands as a tangible symbol of the municipality's rich heritage and enduring legacy, exemplifying the integral role it has played in shaping the cultural identity and historical narrative of the community. As above mentioned, Juan F. Arroyo Public Square contributes to the Canóvanas Traditional

Urban Center since it conveys the following aspects of integrity: Location, Setting, Feeling, and Association. The Public Square represents a sense of feeling and association with the eligible district and is eligible under Criterion A.

Canóvanas Town Hall

Canóvanas was a barrio (district) of the municipality of Loíza for over 400 years. In 1902, the Legislative Assembly of Puerto Rico approved a law for the consolidation of certain municipalities. As a result, both Canóvanas and Loíza were incorporated into the municipality of Río Grande. However, in 1905 a new law revoked the previous one, returning Canóvanas to its previous state of barrio of Loíza. In 1909, the Municipal administration of Loíza was transferred to the barrio of Canóvanas, which was more developed than the Loíza region. Also, the construction of the PR-3 facilitated the communication with Canóvanas. As a result of the transfer, land was acquired to build an urban center including a new city hall, and town square. It was not until a law was passed on June 30, 1969, that both municipalities were recognized as having "clearly different population nuclei" recommending the establishment of two separate municipalities. The change was approved in 1970 by Governor Luis A. Ferré.

Canóvanas Town hall original structure was built in 1907 and rehabilitated in 1920, it's an eligible historical property. The City Hall has a rectangular-shaped floorplan, composed of two stories, and occupies a footprint of 298.19 m^2. The City Hall has simple geometric neoclassical forms composed of grand-scale volumes. The longest main façade is facing north, and the materiality is concrete construction with a flat roof. The main façade has a circular pediment centered on the façade, below a cornice and six concrete pilasters are equally distanced from centered on façade. The structure is divided by six pilaster bays in both stories and the main door to egress the city hall is centered on the lower-level main façade. This is arched opening with a double wood door installed. On the main story, symmetrically placed of the door, two arched window openings with horizontal wooden blinds are present at each side of the main façade. The upper level has six arched door openings with horizontal wooden blinds type. On this area, a concrete balcony extrudes from façade, and it's enclosed with ornamental metal railing. The sides and rear elevations are made of concrete and Miami aluminum windows are installed.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The Canóvanas City Hall fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-Information Potential. This property fulfills two (2) of the four (4) criteria: A-Event and C-Design & Construction

A-Event: The Canóvanas City Hall is associated with events that have made a significant contribution to the broad patterns of our history. The Canóvanas City Hal is locally significant under Criterion A, Politics/Government. The establishment of the municipality in 1970 represented the long overdue collective aspiration and efforts of the people of Canóvanas in having an official and purposedly built seat for their municipal government.

C-Design & Construction: The Canóvanas City Hall is associated with the eligible traditional Urban center and embodies distinctive architectonic characteristics and methods of construction. It is noticeable the work of a master possesses high artistic value as other architectural representations from the dated periods.

As above mentioned, the Canóvanas City Hall contributes to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and Association, and other Architectural features such as Neoclassical Architecture style, pediment, and pilasters. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore eligible under Criterion A and C.

<u>Canóvanas Fire Station</u>

The Canóvanas Fire Station was completed in 1940, one of the last of its kind to be built in the Island as part of a plan devised much earlier to endow each town with firefighting facilities. Predating the fire station's construction by almost a decade, said plan was implemented originally in response to the threat World War II represented to Puerto Rico at that time. Provision of firehouses at each settlement was pursued and endorsed as vital to military planning and "readiness". in fulfillment of these duties, prototypical station

models were developed and replicated along the ensuing decade in locations like Canóvanas, as part of a plan to build "a hundred fire stations".

The two-story building occupies a footprint of 143.38 m² and was built in reinforced concrete and it is Art Deco Style. The main façade is facing east and is symmetrical in composition. On this area to the left a modern expansion is evident and has a flush metal door with glass embedded and at each side of the door colonial case windows are present. On the main façade to the right, the garage opening at ground floor level framed what constituted the station's prime feature: currently this area is enclosed with concrete and three diamonds with translucent ornamental blocks are present high centered.

The upper level recedes. Centered on this area flush metal door is present to access the balcony area and is capped by a projecting concrete eave. The balcony area is enclosed with Double iron-grille railing. The straight arch entry with fillet corners is one of the few of the elements that recall the Art Deco style. The right and left façade has Miami aluminum windows installed centered on the upper level and has a horizontal eave topping the widows.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The Canóvanas Fire Station fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-Information Potential. This property fulfills two (2) of the four (4) criteria: A-Event and C-Design & Construction

A-Event: The Canóvanas City Hall is associated with events that have made a significant contribution to the broad patterns of our history. The Canóvanas Fire Station is locally significant under Criterion A, Politics/Government. The building incorporates all essential traits and features pursuant to earlier emblematic firehouses in Puerto Rico. This historic firehouse at Canóvanas is both product and witness of a moment in time when government and civic leaders contributed to safeguard democratic values, people, and public and private property.

C-Design & Construction: The Canóvanas Fire Station is associated with the eligible traditional Urban center and embodies distinctive architectonic characteristics and methods of construction from art deco style. It is noticeable the work of a master possesses high artistic value as other architectural representations from the dated periods.

As above mentioned, the Canóvanas Fire Station contributes to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and Association, and other Architectural features such as Art Deco style. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore eligible under Criterion A and C.

Colegio Nuestra Señora del Pilar

The rapid expansion of the Canóvanas traditional urban center in 1970 represented an architectural impact therefore the Nuestra Señora del Pilar school has noticeable features of that decade and is within the boundaries of a listed NRHP historic district and city plaza. According to historical USGS aerial imagery from 1964 the existing building was under construction. Therefore, for purposes of this analysis, an estimated construction date is 1964. The property parcel is 2375.66 square meters, and the building occupies a cornet lot, and the main façade is facing west.

The building is composed of multiple stories and occupies a footprint of 521.73 m^2. The school materiality is concrete construction with a flat overhang concrete roof structure. The main façade is divided into three segments. The street level has a concrete foundation half height and on top, rectangular ornamental blocks are installed to enclose this area. Centered on façade in the street level a two-leaf vertical grill gate is present to access the school. Centered on the upper level an extruding surface is present to accommodate flag poles and a vertical stair corridor is present on this area. Symmetrically placed, the main façade has two vertical sets of extruding concrete elements located in the window area, and inside Miami aluminum windows are installed. This feature is repetitive across three stories in the right and left side of the main façade. The upper eave in the main facade has COLEGIO NTRA. SRA. DEL PILAR lettering installed. The South façade is composed of the same material and is divided into three segments. The street level has a two-leaf metal door installed on its center and the architectural condition is the same as in the main façade. However, the second and third level, two rectangular horizontal extruding concrete elements are present at each bay.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The Colegio Nuestra Señora del Pilar fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-

Information Potential. This property fulfills one (1) of the four (4) criteria: C-Design & Construction.

C-Design & Construction: The Colegio Nuestra Señora del Pilar is associated with the eligible traditional Urban center and embodies distinctive architectonic characteristics and methods of construction of 1970 decade. It is noticeable the work of a master possesses high artistic value as other architectural representations from the dated periods.

As above mentioned, the Colegio Nuestra Señora del Pilar contributes to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and Association, and other Architectural features such as the concrete ornamental blocks and concrete vertical features. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore eligible under Criterion C.

Commercial three-story building, Parcel ID: 089-076-010-01

The development of the Canóvanas traditional urban center in 1970 represented an architectural impact therefore the building with the parcel ID 089-076-010-01 has noticeable features of that decade and is within the boundaries of a listed NRHP historic district and city plaza. According to historical USGS aerial imagery from 1964 the existing building was under construction and a bigger footprint is visible in 1971 aerial imagery. Therefore, for purposes of this analysis, an estimated construction date is 1970. The property occupies a footprint of 239.55 m^2, and the building is in a cornet lot, and the main façade is facing west. The building is composed of three commercial stories, its materiality is concrete construction and possess a flat overhang roof. The longest main façade, in the lower level, has ceramic tiles installed. To access the commercial building, three sets of two leaf glass doors with aluminum framing are present equally distanced and centered in the main façade. The second level of the main façade is enclosed with Miami aluminum windows across this area and centered a vertical volume extrudes into the third level. The vertical volume has a textured finish characteristic of the dated construction type and is used as a vertical circulation corridor with two Miami aluminum windows vertically centered. The third level is enclosed with jalousie glass awning windows across the main façade. On this area a vertical louver is present bordering the

third level on the east and north façade. The second and third level has extruding features that frames the architectural details on the side and main façade.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The Commercial three-story building fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-Information Potential. This property fulfills one (1) of the four (4) criteria: C-Design & Construction

C-Design & Construction: The Commercial three-story building is associated with the eligible traditional Urban center and embodies distinctive architectonic characteristics and methods of construction of 1970 decade. It is noticeable the work of a master possesses high artistic value as other architectural representations from the dated periods.

As above mentioned, the Commercial three-story building Parcel ID: 089-076-010-01 contributes to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and Association, and other Architectural features such as the concrete vertical louvers and wall textures. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore eligible under Criterion C.

Commercial two-story building, Parcel ID: 089-076-048-12

The commercial two-story building Parcel ID: 089-076-048-12 is within the boundaries of a listed NRHP historic district and city plaza. According to the 1964 GIS historical imagery a two story criollo building is present on the parcel but is smaller than the existing one. Therefore, for purposes of this analysis, an estimated construction date is 1970. The property occupies a footprint of 311.72 m^2.

The commercial two-story building is located northeast of the Canóvanas Public square and the main façade is facing south. The building is composed of two commercial stories, made of concrete construction with a flat overhang roof. The longest main façade, in

the lower level, centered to the right concrete vertical features frame the entrance of the commercial premises. This area is enclosed with vertical metal grill and has a two-leaf glass door with metal frame, centered to access this area. On the main façade to the left, a two-leaf metal door is centered and at each side a single leaf metal door with vertical metal grill attached can be used as access. In addition, on top of the doors, Miami aluminum windows are present with metal grill attached. The upper level of the main façade to the right has a balcony area with rectangular ornamental blocks stacked in the column area. In the back wall of this area, a glass panel sliding door is present to access the balcony. The left side of the upper level is enclosed with rectangular ornamental blocks characteristics of the dated construction period. The right, left and rear façade are made of concrete construction and Miami aluminum windows are present.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The commercial two-story building fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-Information Potential. This property fulfills one (1) of the four (4) criteria: C-Design & Construction

C-Design & Construction: The Commercial two-story building is associated with the eligible traditional Urban center and embodies distinctive architectonic characteristics and methods of construction of 1970 decade. It is noticeable the work of a master possesses high artistic value as other architectural representations from the dated periods.

As above mentioned, the Commercial two-story building Parcel ID: 089-076-048-12 contributes to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and Association, and other Architectural features such as the concrete ornamental blocks and concrete vertical features. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore eligible under Criterion C.

Andres Flores Lopez Public school

The school building was designed in the Mission Spanish Revival style and built circa 1925. Funding for the construction came from the Puerto Rico Reconstruction Administration, a New Deal agency. The school was designed by Puerto Rican State Architect Rafael Carmoega.

The Andres Flores Lopez School, located off PR-9959/Palmer St. is a rectangular, two stories, reinforced concrete building with Spanish roof tiles. The school was built in 1925 and occupies a footprint of 402.91 m^2. The neoclassical and Spanish Revival style present a unique and elaborated frontispiece in the front façade. The symmetrical composition of the entrance frontispiece is further emphasized at window groupings by highlighting the window at center, with a pediment crown. Centerer on the same façade in the lower level an arched opening is present with pilasters embedded at each side and a cornice surrounding the arch is evident. On top, Andres Flores Lopez lettering is engraved. Symmetrically placed, colonial metal case windows appear in sets of five at each side of the main façade along with a flat cornice centered in the right and left upper area. The main façade has adhered features such as bull eyes, squares, oval medallions, and trimming. The sides and rear elevation cornice wraps around the building's sides.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The Andres Flores Lopez School fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-Information Potential. This property fulfills one (1) of the four (4) criteria: C-Design & Construction.

C-Design & Construction: The Andres Flores Lopez School is a noteworthy example of the public effort to erect multiple schools in Puerto Rico during the early 20th century by repeating prototypical, building typologies throughout the Island.

As above mentioned, the Andres Flores Lopez School contributes to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and

Association, and other Architectural features such as the concrete ornamental blocks and concrete vertical features. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore eligible under Criterion C.

Eugenio Maria de Hostos school

The Eugenio Maria de Hostos school building was designed in the Art Deco style and built circa 1925. Funding for the construction came from the Puerto Rico Reconstruction Administration, a New Deal agency. It is a two-story U-shaped building made of concrete with a flat overhang roof structure. The building has an eave that crowns the building along the U-shaped area. The longest main façade is framed by two tower-like elements which provide a balance to the vertical rhythm of the central portion. The tower elements have a pediment that extrudes from the horizontal eave and across this area embedded lines are present to enhance Art Deco style. Centered in the lower level a concrete eave with beveled corners is present to cover the main access thru a two-leave flush wood door. The school has Miami aluminum windows across the building. The rear elevation has an inner patio and windows of the same type are installed.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The Eugenio Maria de Hostos School fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-Information Potential. This property fulfills one (1) of the four (4) criteria: C-Design & Construction.

C-Design & Construction: The Eugenio Maria de Hostos School is a noteworthy example of the public effort to erect multiple schools in Puerto Rico during the early 20th century by repeating prototypical, building typologies throughout the Island.

As above mentioned, the Eugenio Maria de Hostos School contributes to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and Association, and other Architectural features such as the concrete ornamental blocks and concrete vertical features. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore eligible under Criterion C.

Historic Evolution of the APE:

Canóvanas, a municipality in Puerto Rico, traces its roots back to its founding on November 30, 1909. It achieved official status as a municipality in 1970. Historically, agriculture served as the primary economic pillar for Canóvanas, leveraging its strategic location along the main road connecting Fajardo and San Juan (PR-3), which facilitated the development of various social and economic activities.

The area surrounding the proposed project has undergone significant transformation since the original construction of the plaza. Presently, the landscape is characterized by a mix of commercial and civic establishments. The perimeter of the area features buildings ranging from circa 1900 to 1970, showcasing the evolution of architectural styles and construction practices over time.

The historic evolution of the APE traces back to 1909 when the Municipal Administration of Loíza was relocated to Canóvanas, a more developed area than Loíza. This move was facilitated by the construction of the PR-3, which enhanced connectivity. In response to the transfer, land was acquired for essential infrastructure such as a new city hall, town square, slaughterhouse, and cemetery. Notably, a strategic 20-acre plot was purchased by Don Luis Hernaiz Veronne, a local farmer and townhall senator, strategically positioned to intercept traffic from the PR-3 and other nearby roads like the PR-185.

Formally declared a Municipality in 1970, Canóvanas thrived economically due to its reliance on agriculture, further bolstered by its strategic location along the historic route between Fajardo and San Juan (PR-3). This positioning acted as a catalyst for the development of various social and economic activities in the region.

Figure 23:





1931 - The aerial photograph depicts a plaza organized along approximate north-south and east-west axes, dividing it into four quadrants. Each quadrant features a central planter with pathways inside, surrounded by furniture. A row of trees lines the perimeter of the plaza. The plaza's design allows for various ways of encircling it.

Figures:24,25





In the 1950s, the central planters in the plaza were simplified, while the perimeter planters were retained, resulting in the removal of trees from these planters.

Over time, the area surrounding the proposed project has undergone significant transformations since the original plaza's construction. Today, it predominantly serves commercial and civic purposes, with structures dating back as early as the 1900s and as recent as 1970. However, the distinctive historical features that once defined the APE are no longer evident, reflecting the changing landscape and evolving needs of the community.

Determination

The project is situated within an NRHP-eligible Traditional Urban Center and when considering architectural and archeological elements both individually and together, their importance from a historical point of view is undeniable. As we know, the Canóvanas Public Square has been the center of commercial and civil activity since the 19th century and is an integral part of the identity and history of the municipality and the region.

In archaeological terms, given the past experiences with previous construction projects in traditional urban centers in Puerto Rico, it is known the sensitivity of these areas in terms of archaeological findings. For these reasons, the potential of finding previously unidentified archaeological resources with integrity within the project area is very high. It is important to emphasize that no archaeological investigations have been made in the Traditional Urban Center of Canóvanas. For this reason, it would be necessary to perform an Archaeological Supervision to identify the possible archaeological deposits or elements in the APE during the construction process. Based on this information, it is possible that under the terrain occupied by the Plaza Publica de Canóvanas, archeological remains can be found, related to the agricultural activities of the 19th century (sugar cane, rice and small fruits were planted) and foundations of structures associated with the Hacienda San José and private houses of the 19th century. In addition, it should be noted that the historical documentation mentions that the area occupied by the APE was easily flooded (that is why it was decided to plant rice), so we cannot rule out the possibility of archaeological sites under flood layers.

Possible archeological findings in the APE;

- Historic roads
- Aqueducts from the colonial era
- Irrigation channels
- Machinery and farming implements related to rice, sugar cane and small fruits planting.

The APE is within a traditional urban center, with potential archaeological remains underneath these features, like historic pavements and historic drainage systems. Also, during the reconstruction process there's a possibility to find cultural layers associated with demolition and reconstruction of structures due to disasters like fires, earthquakes, hurricanes etc. Is the possibility that the proposed project can exposed foundations of old buildings along the street if realignment of facades was performed. The

properties/streets that survive to the present are the most recent facade of the town, reminiscences of these properties. However, they give us an idea of the archaeological potential of the Plaza and its surroundings. They are vestiges of previous constructions, and under the floors of the plaza and its surrounding streets the potential for the presence of Spanish colonial archaeological sites is high. Given the few disturbances in the it is possible the existence of in situ nineteenth-century Euro-Spanish material remains on the APE.

The Eligible properties visible from the APE enrich the vibrant cultural milieu surrounding the proposed project site through its postmodern design elements that harmonize with contemporary architectural trends. Beyond merely enhancing the project's aesthetics, the eligible properties offer a valuable opportunity for meaningful interaction with the local community and serve as a platform for the preservation and celebration of the region's cultural heritage. Consequently, while the proposed project may not be directly affiliated with the eligible properties, its adjacency, and integration with such culturally significant landmarks contribute invaluable depth, fostering a dynamic and contextually rich environment conducive to the envisioned development.

In addressing the extended impact of the Visual or Indirect Areas of Potential Effect, it is essential to recognize that while the proposed project might not directly influence these areas, its construction phase carries the potential for changes in aesthetics and disruptions to local transit that transcend its immediate physical footprint. To effectively manage these repercussions, the coordination of access roads and staging areas becomes crucial in minimizing disturbances within the traditional urban center. Furthermore, the proposed design places a deliberate emphasis on the urban scale, ensuring seamless integration with the surrounding setting and maintaining harmony within the area's context.

Founded on the results of the historic property identification efforts, the Program has determined that the proposed project actions will not have an adverse effect on the historic properties that compose the Area of Potential Effect. The following historic properties have been identified within the APE. The proposed design will not enhance a false sense of history and historical responsible design strategies have been considered to produce a contribution of the 21st century to the Canovanas traditional urban center. The placement of the new construction and features considers the historical evolution of the APE as so not to modify or differ from what has been typical for this Area.

Direct Effect:

- The direct effect will be the construction of the proposed project.
    - ADA Compliance and Accessibility: The project will introduce ADA-compliant features, such as accessible stairs and ramps on all sides of the plaza, allowing universal access without significantly altering the existing landscape levels.
    - Surface Improvements: The surface area will be enhanced for increased permeability, with the installation of new concrete pavers over existing pavement. Minor leveling and repair of structural cracks will be performed.
    - Urban Reforestation: The removal of existing trees and shrubs will make way for new reforestation efforts. Excavation for tree planting will reach a maximum depth of 5 ft, with new soil backfilled to support tree growth and grass berm creation.
    - Minimal Ground Disturbance: Excavation will be limited to what is necessary for foundations, particularly for the installation of shade pavilions (3 ft deep trenches for footings) and minimal trenching for lighting circuits. Other features like benches, bollard lighting, and urban furniture will involve little to no additional excavation.
    - Structural Additions: New shade pavilions and trellises will be constructed without major disruption to the landscape. New concrete planters and a 1 ft below grade perimeter wall will be installed.
    - Demolition and Replacement: Removal of existing light posts, concrete slabs, and planters will make way for new installations, including lighting systems, benches, trash receptacles, and reconstructed sidewalks.
    - Stormwater Management: Green areas will act as retention systems, minimizing runoff and preventing overburdening of the current stormwater infrastructure.

Indirect effect:

- The Luis Hernáiz Veronne St., Palmer St., MuñozRivera St, and Calderón Mujica St. will incur an indirect effect during the construction of the proposed project that may include noise pollution, traffic disruptions, dust and air quality issues, and visual impact.

- The proposed project will have positive indirect effects on both the Eugenio María de Hostos School and the surrounding indirect APE, contributing to various aspects such as social, educational, and environmental benefits.

- Social Impact: The improved plaza will serve as a central gathering point for the community, fostering a stronger connection among residents. By enhancing the space with ADA-compliant access, reforestation, and new public facilities, the project will contribute to the community's sense of pride and belonging. The proximity to the Eugenio María de Hostos School may lead to increased use of the plaza for school and community events, becoming a focal point of local culture and heritage.
- Educational Impact: The proximity of the school to the renovated plaza offers the potential for it to serve as an outdoor educational space, where students can engage in learning activities that connect them to their local history and environment. The preservation of the plaza's historical features, alongside modern upgrades, will provide a tangible connection to the past, offering lessons in historical preservation, architectural styles, and cultural practices. Additionally, the reforestation and sustainability elements may offer a hands-on learning experience about urban ecology and environmental stewardship.
- Environmental Impact: The adaptive reuse of the plaza, through minimal excavation and integration of green areas for stormwater management, aligns with sustainable development principles. This reduces the environmental footprint by limiting new construction and instead enhancing existing structures. By promoting urban reforestation and permeability, the project will positively affect the surrounding environment, potentially offering benefits to the school's students through cleaner air, improved aesthetics, and a greener, more resilient urban space.

Indirect effects Specific to Eugenio María de Hostos School:

- Enhanced Accessibility and Use for School Activities: The ADA-compliant design and the addition of accessible ramps and pavilions ensure that students, staff, and visitors, including those with disabilities, will have easy access to the plaza. This will allow the school to utilize the space for educational outings, physical activities, or school events, further integrating the plaza into the school's community.
- Aesthetic and Functional Enhancement: The improvements to the plaza, such as shade pavilions, new lighting, and the removal of outdated structures, will create a more inviting environment for students and residents alike. The enhanced usability of the space will provide students with a nearby recreational area, encouraging outdoor engagement.

In summary, the indirect effects of the project on the Eugenio María de Hostos School and the broader APE will support community cohesion, educational opportunities, and sustainable urban development. The upgrades will transform the plaza into a multifunctional space that complements the school's educational mission while enriching the lives of residents.

Based on this, a No Adverse Effect determination is appropriate for this project if the following recommendations are followed; Archaeological Supervision to identify the possible archaeological deposits or elements in the APE during the construction process.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM **CITY REVITALIZATION PROGRAM (CITY-REV)** **Section 106 NHPA Effect Determination**	
Subrecipient: Municipality of Canóvanas	
Case ID: PR-CRP-000312	**City:** Canóvanas
Project Name: Plaza Juan F. Arroyo Improvements	

Recommendation *(Please keep on same page as SHPO Staff Section)*

The Puerto Rico Department of Housing requests that the Puerto Rico SHPO concur that the following determination is appropriate for the undertaking (Choose One):

☐ No Historic Properties Affected
☒ No Adverse Effect if the following recommendations are followed; Archaeological Supervision to identify the possible archaeological deposits or elements in the APE during the construction process.
☐ Adverse Effect

This Section is to be Completed by SHPO Staff Only

The Puerto Rico State Historic Preservation Office has reviewed the above information and: ☐ Concurs with the information provided. ☐ Does not concur with the information provided.	
Comments:	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:

Case ID: Juan Francisco Arroyo Salamán Public Plaza.

Project Coordinates: 18.37913, -65.90094

Table of archaeological sites, historic properties and historic districts located within the project area or within a .25-mile radius.

Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
Juan F. Arroyo Public square	No data	No data	Within	Public square was built circa 1900	Eligible
Casa Alcaldía	No data	CN-40	9 m/30 feet South	Neoclassical style building/1907-1910	Eligible
CN-42 Albandoz esq. Blanco Sosa	No data	CN-42	170 m/557 feet Southeast	Wooden Creole house 1910	No data
CN-44 Luis Hernaiz 80	No data	CN-44	134 m/439 feet South	Creole wooden bungaloo 1930	No data
CN-45	No data	CN-45	126 m/413 feet South	Creole bungaloo concrete 1930	No data

Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
Luis Hernaiz 76					
CN-46 Blanco Sosa	No data	CN-46	70 m/229 feet East	Creole bungaloo concrete 1930	No data
CN-47 Muñoz Rivera esq. Blanca Sosa	No data	CN-47	75 m/246 feet East	Neoclassical style 1930	No data
CN-49 Parque de Bombas	No data	CN-49	61 m/200 feet Northeast	Art Deco style/40's	Eligible
Eugenio Maria de Hostos Public school	CW0200025	n/a	121 m/397 feet West	1925 PRERA Schools	Eligible
Andres Flores Lopez Public school	CW0200026	n/a	142 m/465 feet West	1925 PRERA Schools	Eligible

Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
Colegio Nuestra Señora del Pilar	No data	No data	32m/108 feet East	1964	Eligible
55-67 Cll Pepita Albandoz,	No data	No data	157 m/515 feet Southwest	Streamline and with Art Deco features	No data
Calle Autonomia	No data	No data	130 m /426 feet Southwest	Streamline and with Art Deco features	No data
Ingenio San Luis	CW0200006 Ingenio	No data	353 m/0.21 m North	Sugar Mill, XVII; CN-H5	No data

Table of cultural resources surveys conducted within the project area or within a .25-mile radius.

Author	Phase/Title	Year	SHPO / IPRC code	Results	Distance/ Direction
Marisol Meléndez	IB/Escuela Intermedia Urbana Antonio R. Barceló	1994	CN-94-0107	Negative	213 m South
Meléndez Maíz, Marisol	Investigación Regional Recursos Culturales del Municipio de Canóvanas"	2002	BCAT- 0163	Positive	Regional Survey

Figure 26: Project (Parcel) Location – Area of Potential Effect Map (Aerial)



Figure 27:Project (Parcel) Location - Aerial Map

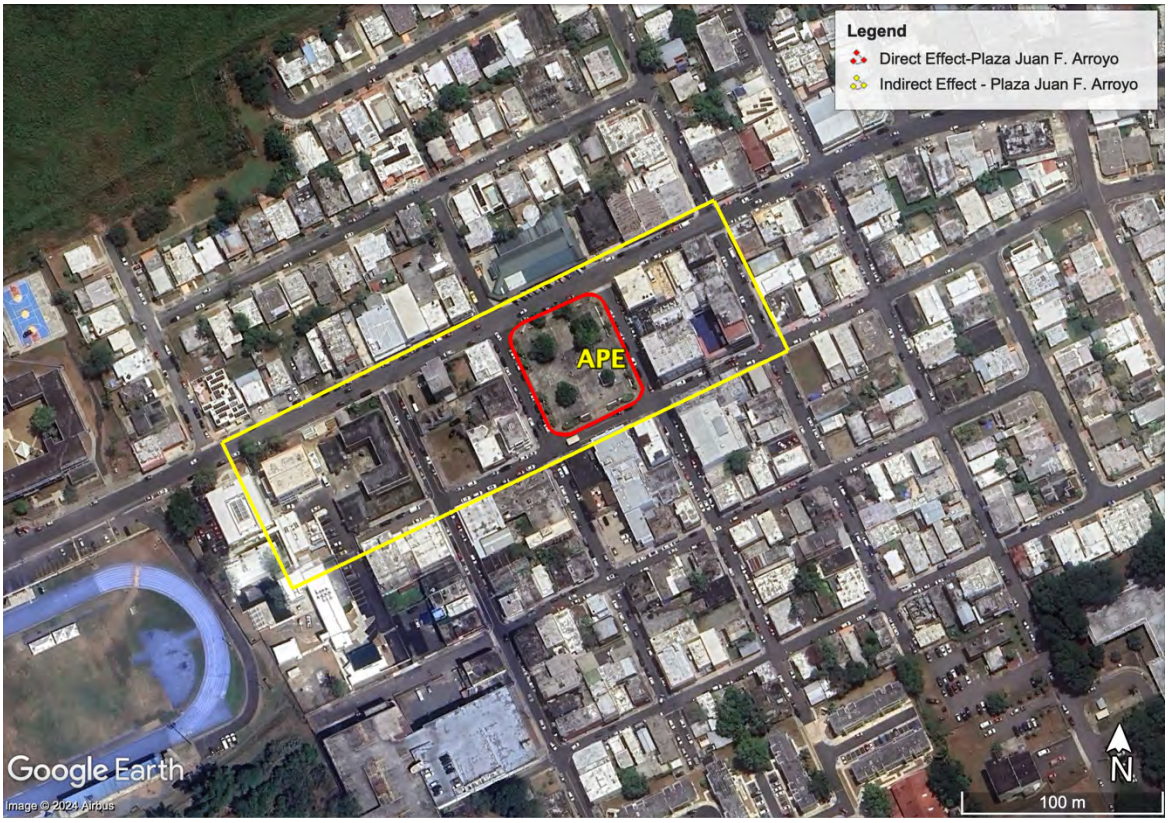
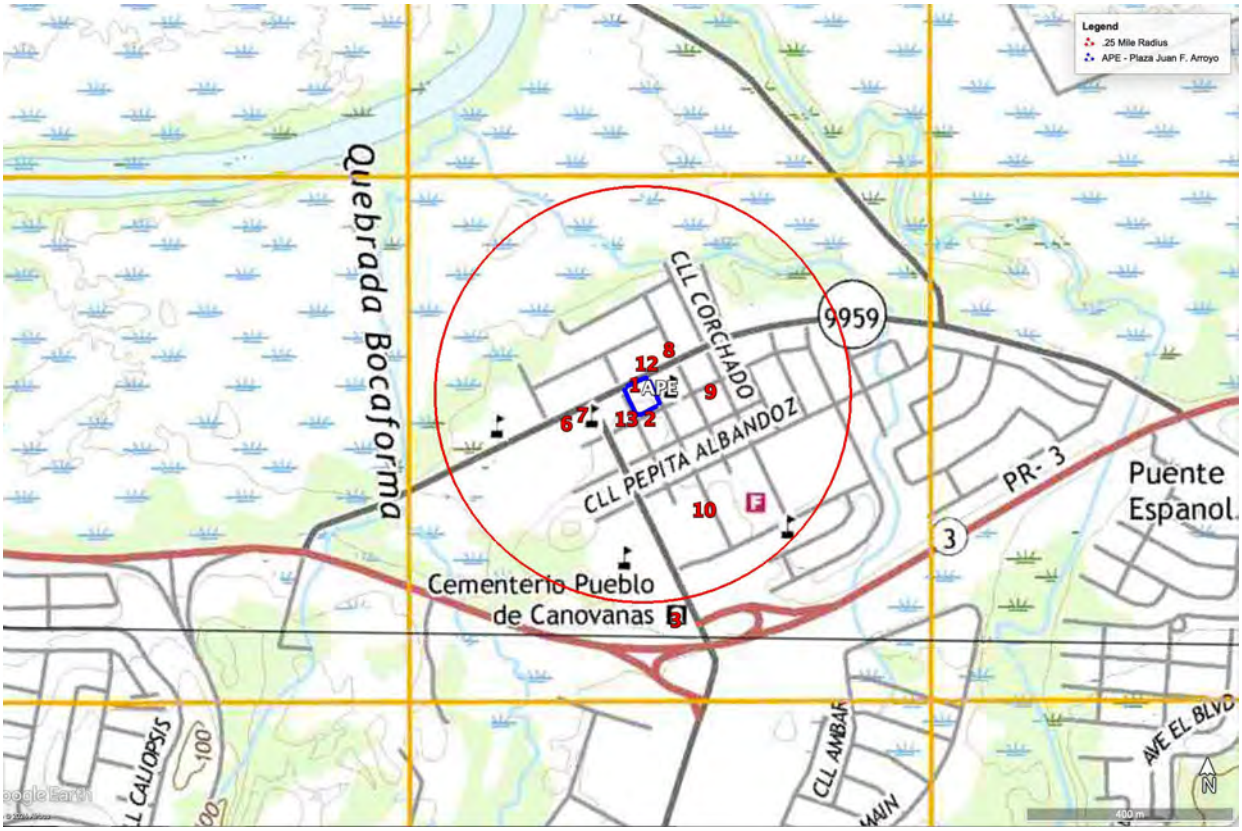


Figure 28:Project (Parcel) Location – 2018 USGS Topographic Map



Figure29:Project (Parcel) Location with Previously Recorded Cultural Resources



Historic Properties within a ¼ mile radius:

1. Canóvanas Public Square located in 18.379064, -65.900909
2. Canóvanas Town hall located in 18.378723, -65.900841
3. Municipal Cemetery located in 18.375444, -65.900363
4. Nuestra Señora del Pilar Parish located in 18.379159, -65.900606
5. Colegio Nuestra Señora del Pilar located in 18.379133, -65.900548
6. Andrés Flores López School located in 18.378564, -65.902364
7. Eugenio María de Hostos School built located in 18.378737, -65.901927
8. Fire Station located in 18.379538, -65.901694
9. Seventh-day Adventist Church located in 18.379188, -65.899707
10. Jesús T. Piñero Residential located in 18.376732, -65.900078
11. A Commercial three-story building located in 18.379394, -65.900713
12. A commercial two-story building located in 18.3797027, -65.9009200
13. Farmacia Olivero located in 18.3788071, -65.901279

Figure 30:Project (Parcel) Location with Previous Investigations - Aerial Map



Historic Properties within a ¼ mile radius:

1. Canóvanas Public Square located in 18.379064, -65.900909
2. Canóvanas Town hall located in 18.378723, -65.900841
3. Municipal Cemetery located in 18.375444, -65.900363
4. Nuestra Señora del Pilar Parish located in 18.379159, -65.900606
5. Colegio Nuestra Señora del Pilar located in 18.379133, -65.900548
6. Andrés Flores López School located in 18.378564, -65.902364
7. Eugenio María de Hostos School built located in 18.378737, -65.901927
8. Fire Station located in 18.379538, -65.901694
9. Seventh-day Adventist Church located in 18.379188, -65.899707
10. Jesús T. Piñero Residential located in 18.376732, -65.900078
11. A Commercial three-story building located in 18.379394, -65.900713
12. A commercial two-story building located in 18.3797027, -65.9009200
13. Farmacia Olivero located in 18.3788071, -65.901279

Figure 31: Project (Parcel) Location – Soils Map (Only if Archaeology Review is Required)



Figure 32:Project (Parcel) Location within Eligible Canóvanas Traditional Urban Center



Figure 33:Project (Parcel) Location with Location with Previously Recorded Cultural Resources - Aerial Map



PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM **CITY REVITALIZATION PROGRAM (CITY-REV)** **Section 106 NHPA Effect Determination**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Canóvanas	
Case ID: PR-CRP-000312	**City:** Canóvanas
Project Name: Plaza Juan F. Arroyo Improvements	

Figure 34:Project (Parcel) Location with Previously Recorded Cultural Resources USGS Figure Topographic Map

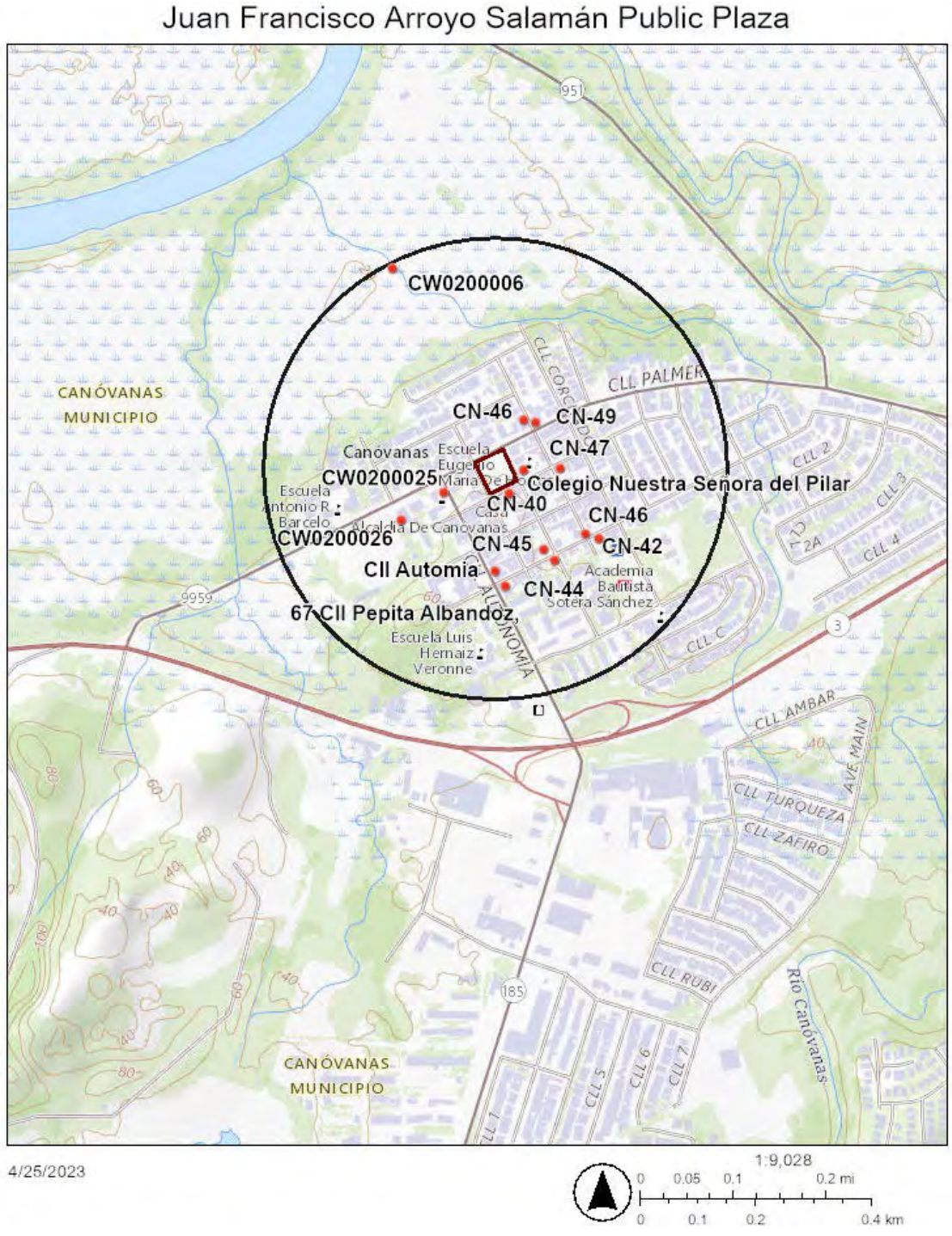


Figure 35:Project (Parcel) Location with National Flood Hazard Map

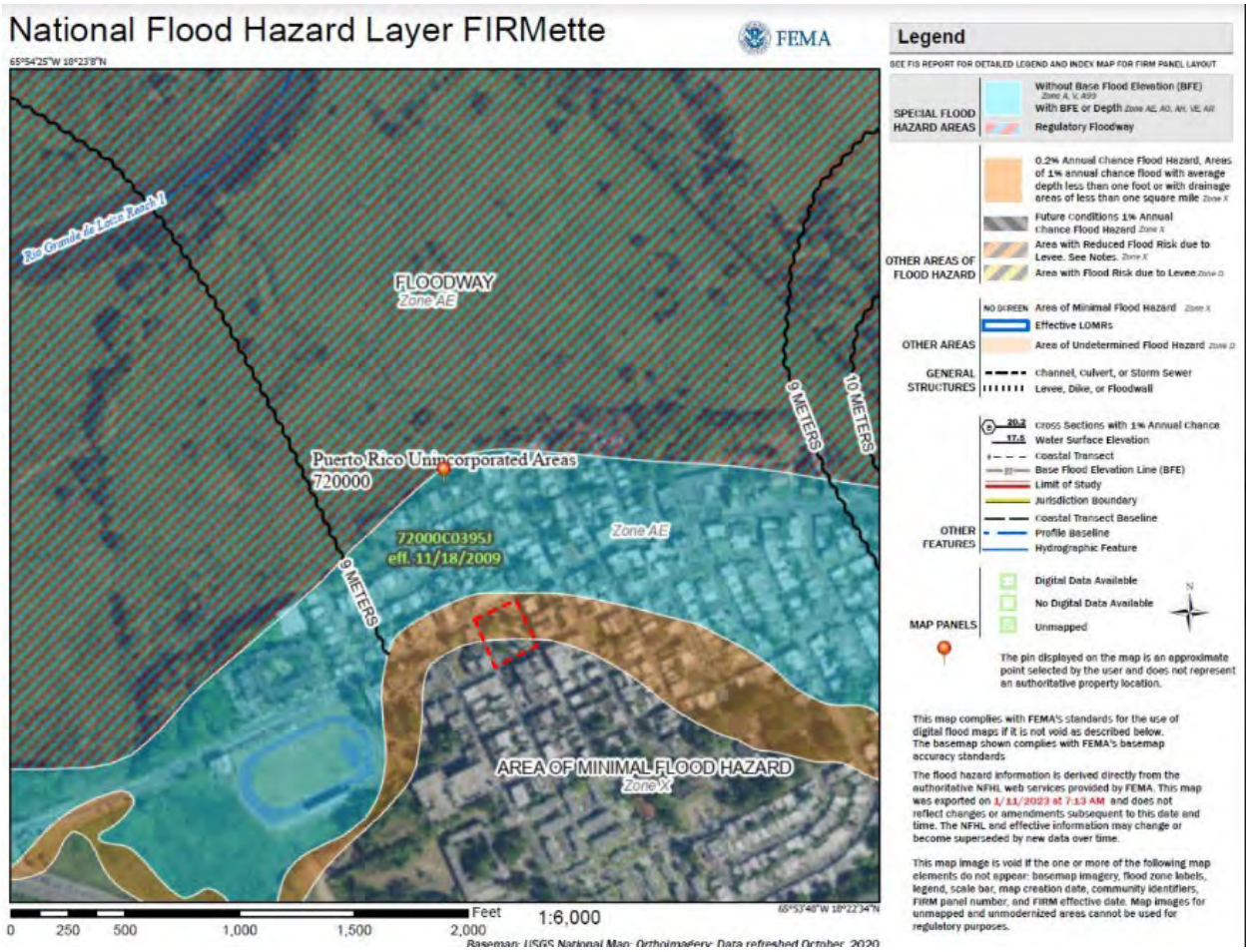


Figure 36:Project (Parcel) Location with Direct and Indirect Effect

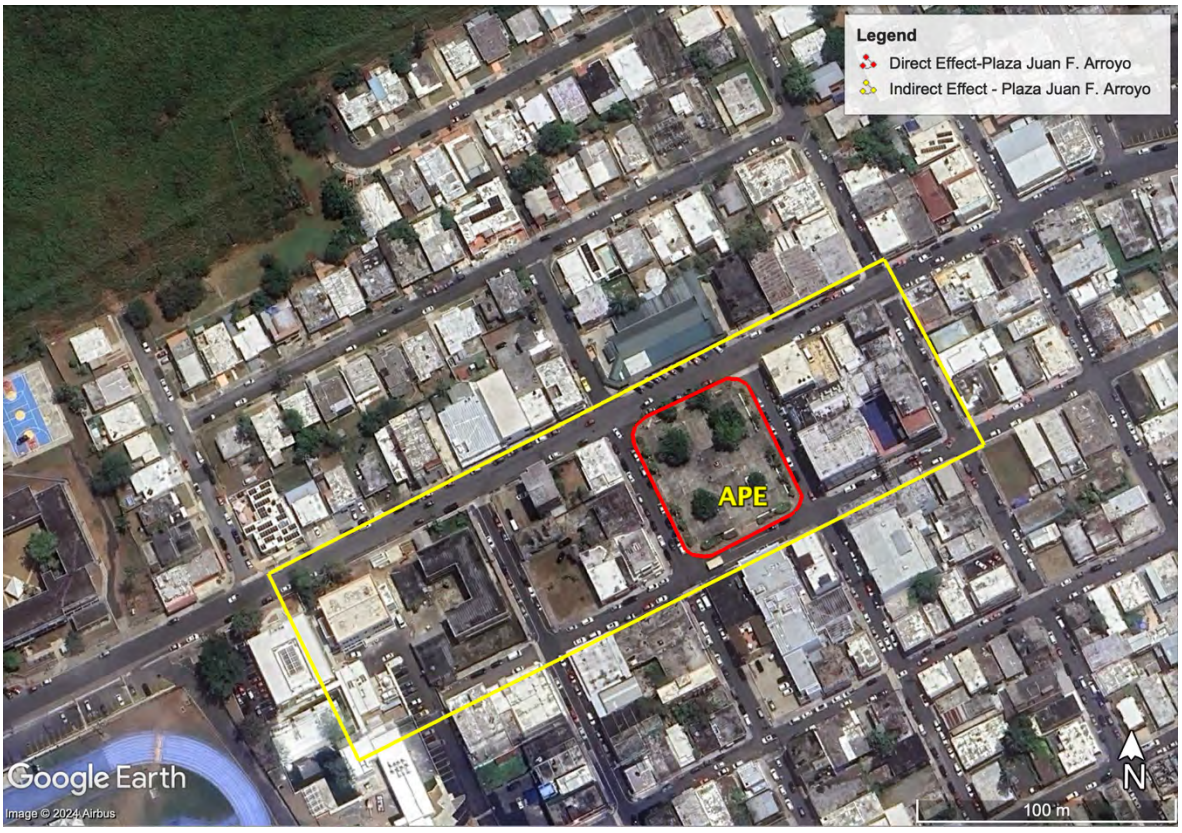


Figure 37:Proposed Site Plan

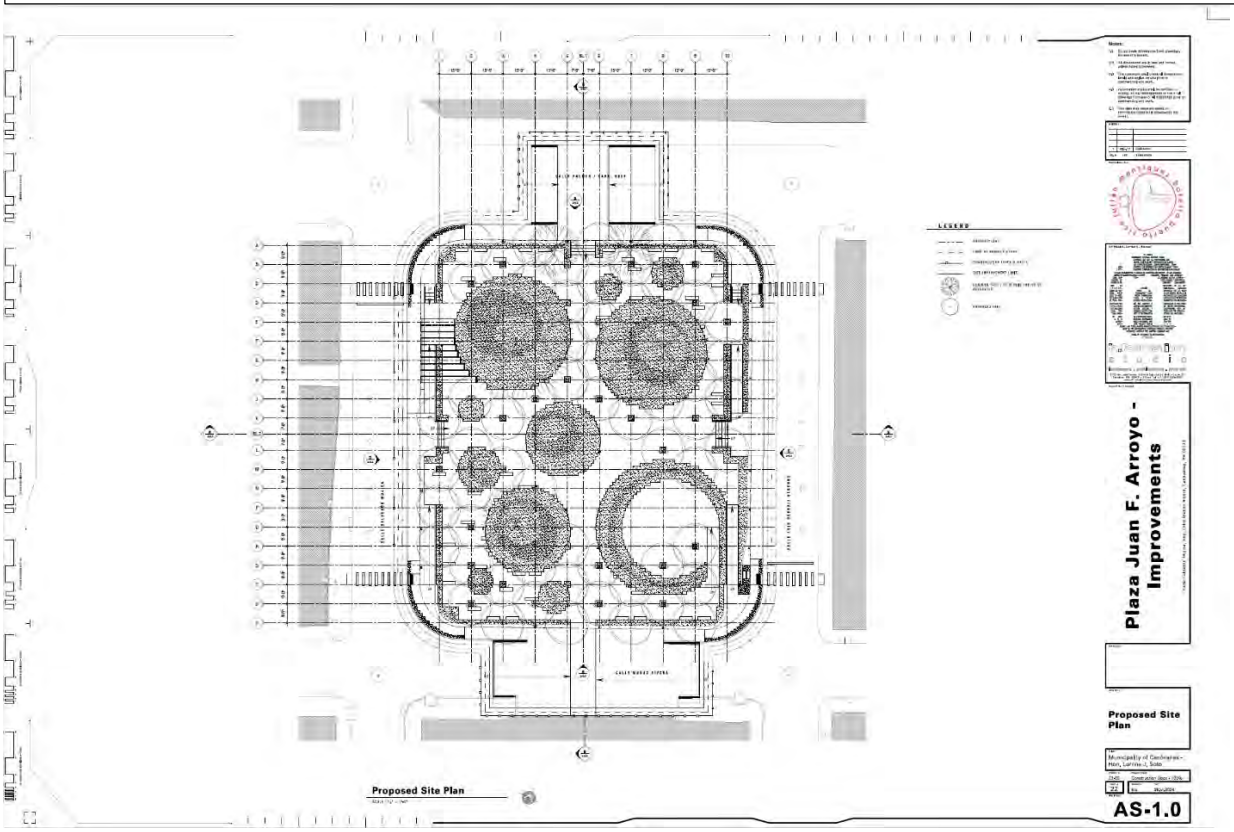


Figure 38: Architectural Floor Plan

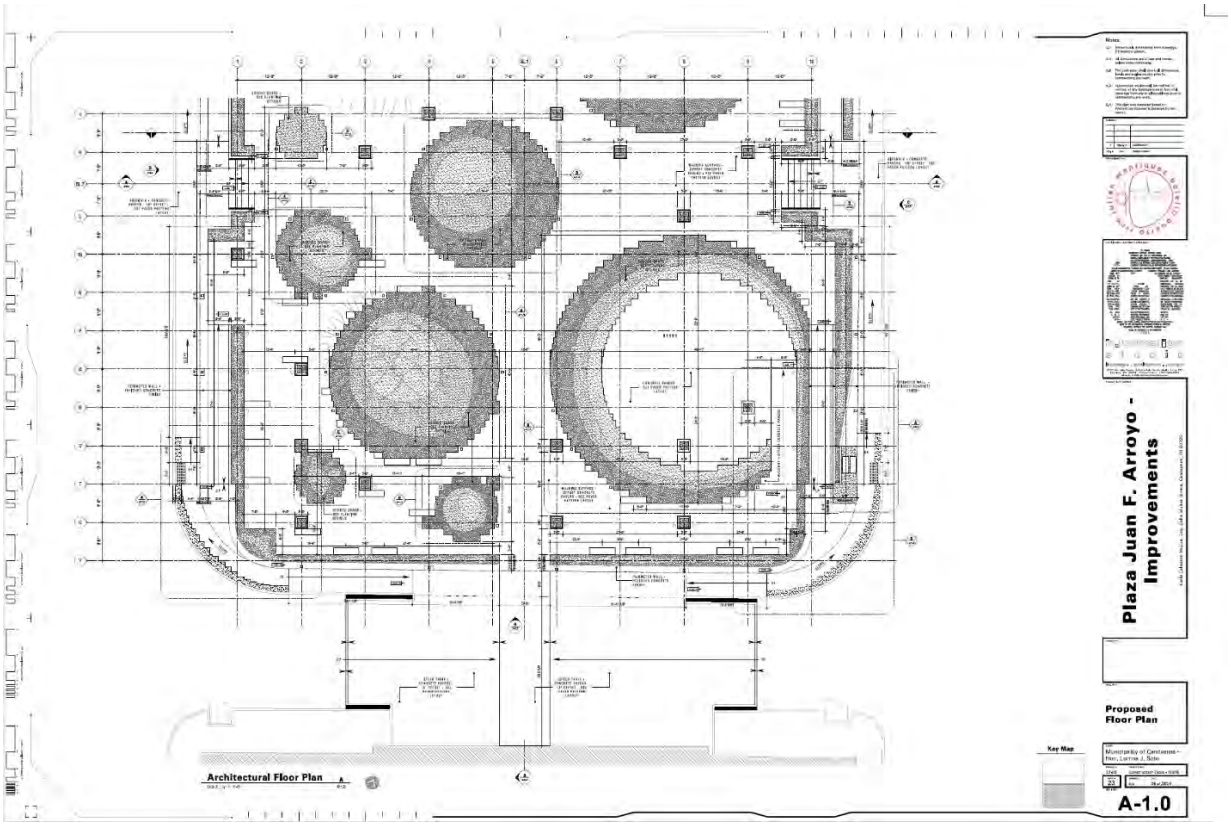


Figure 39:Architectural Floor Plan

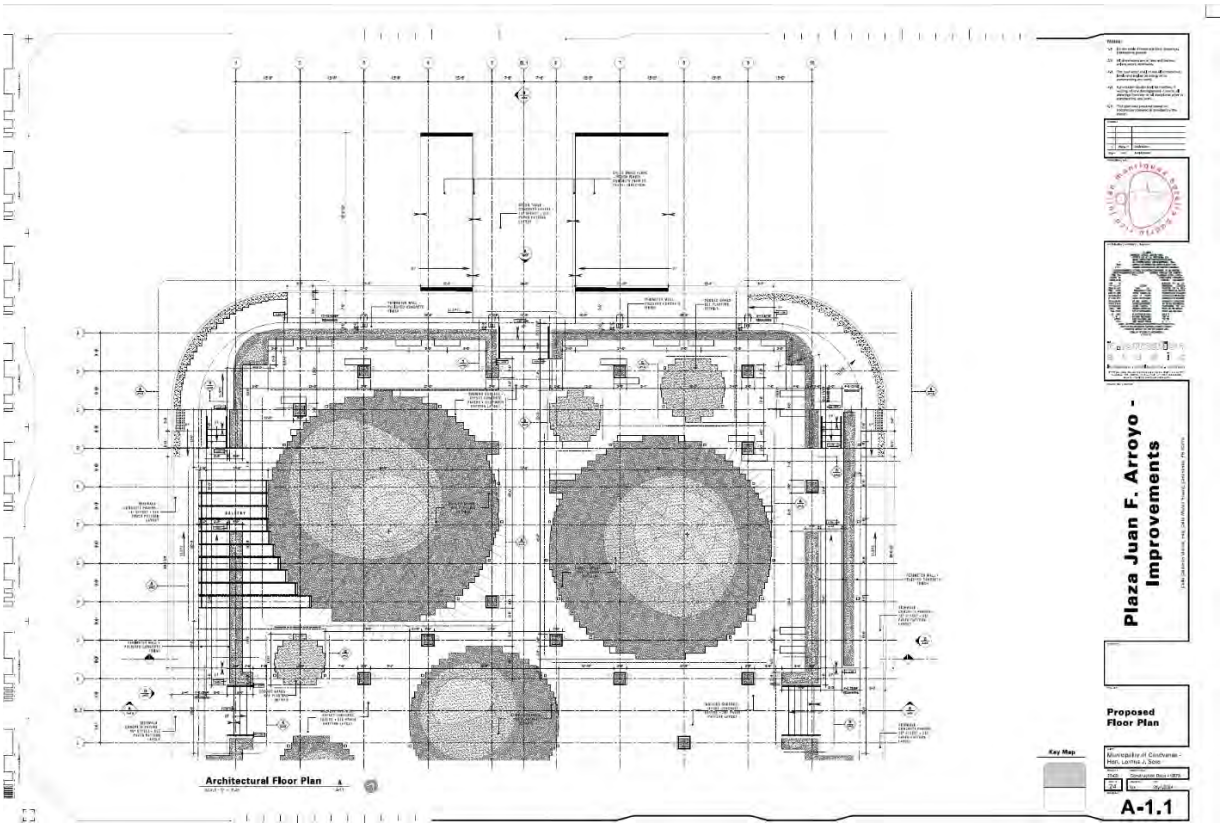


Figure 40:Elevations

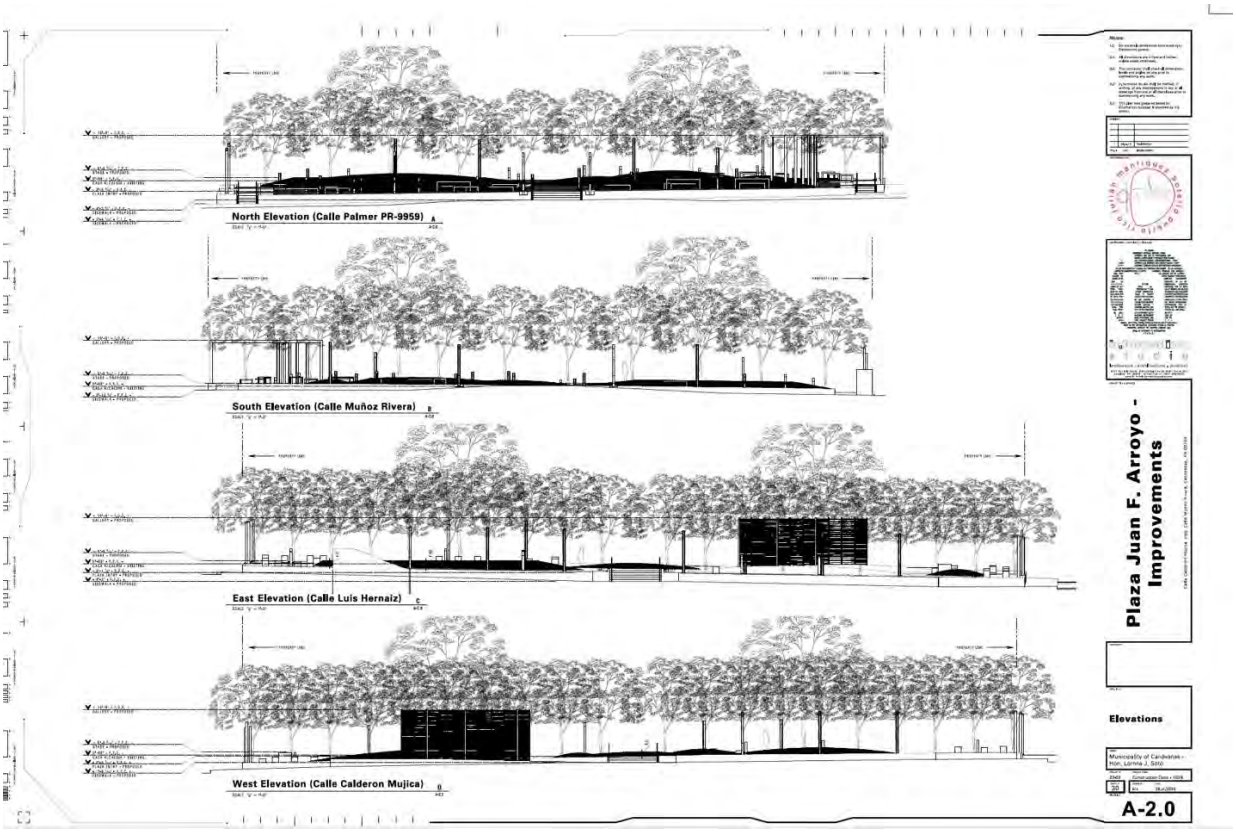


Figure 41:Sections

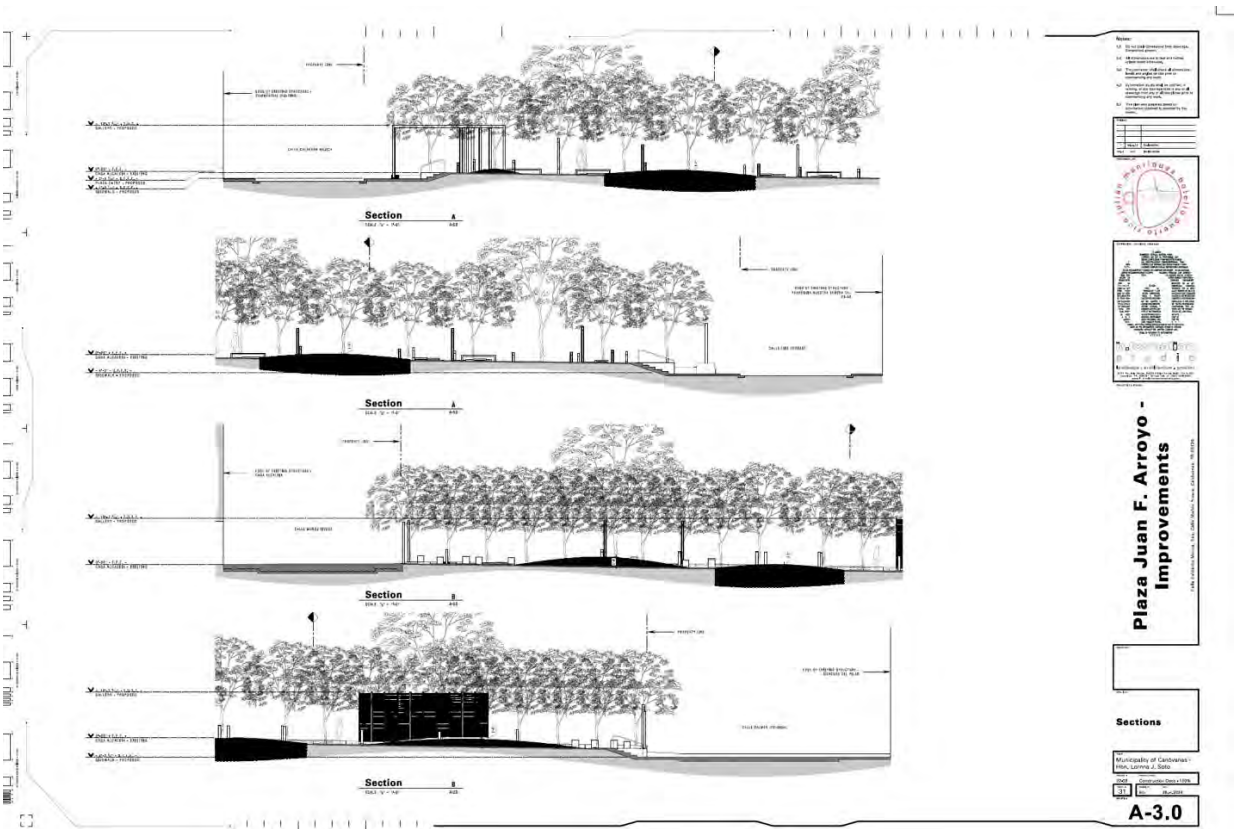


Figure 42: Stairs Plans and Details

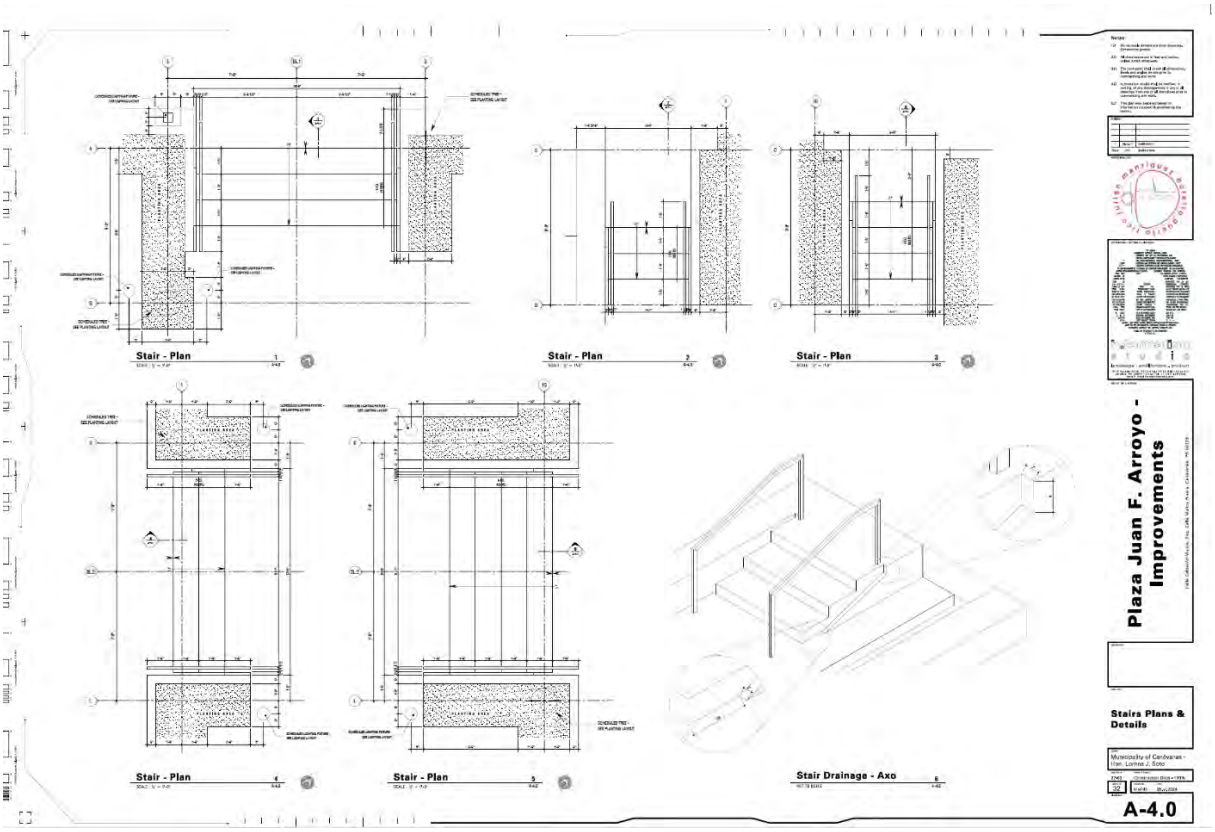


Figure 43: Stair Details

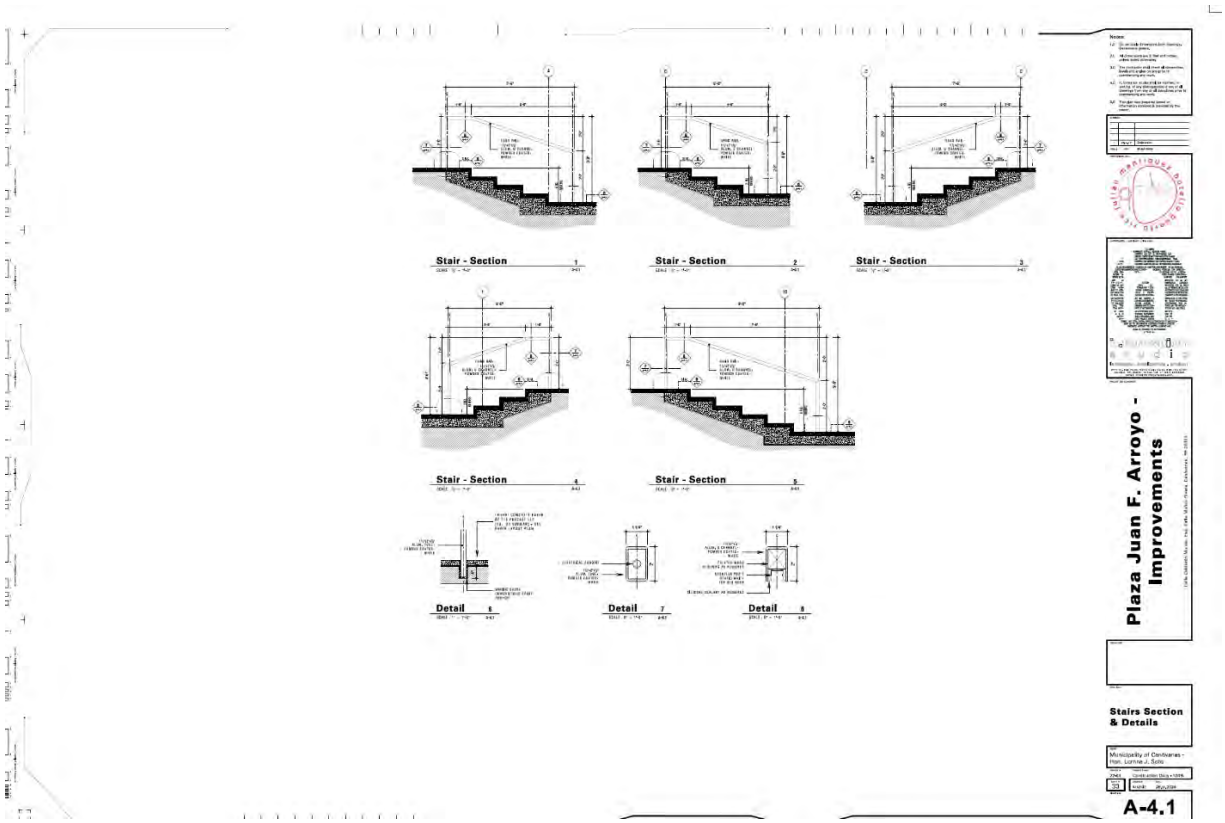


Figure 44: Gallery Layout Plan

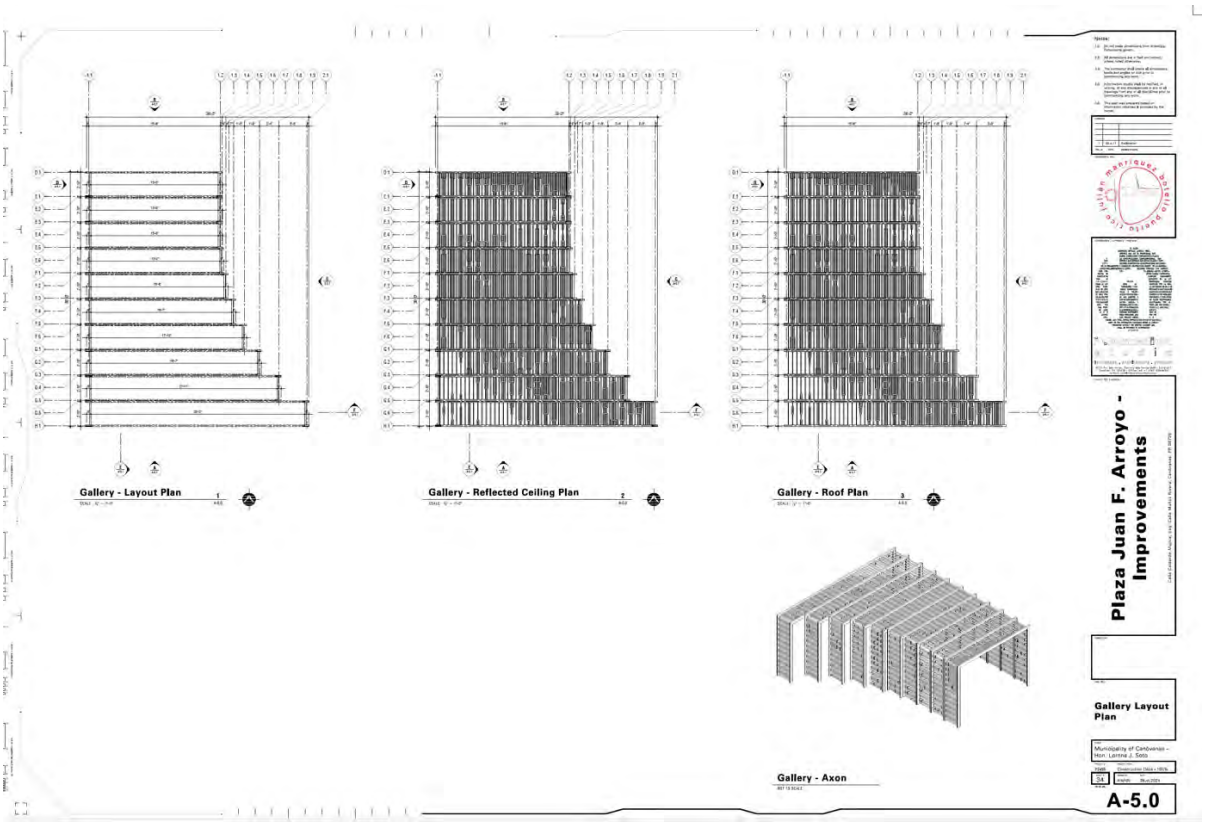


Figure 45:Gallery Elevations and Sections

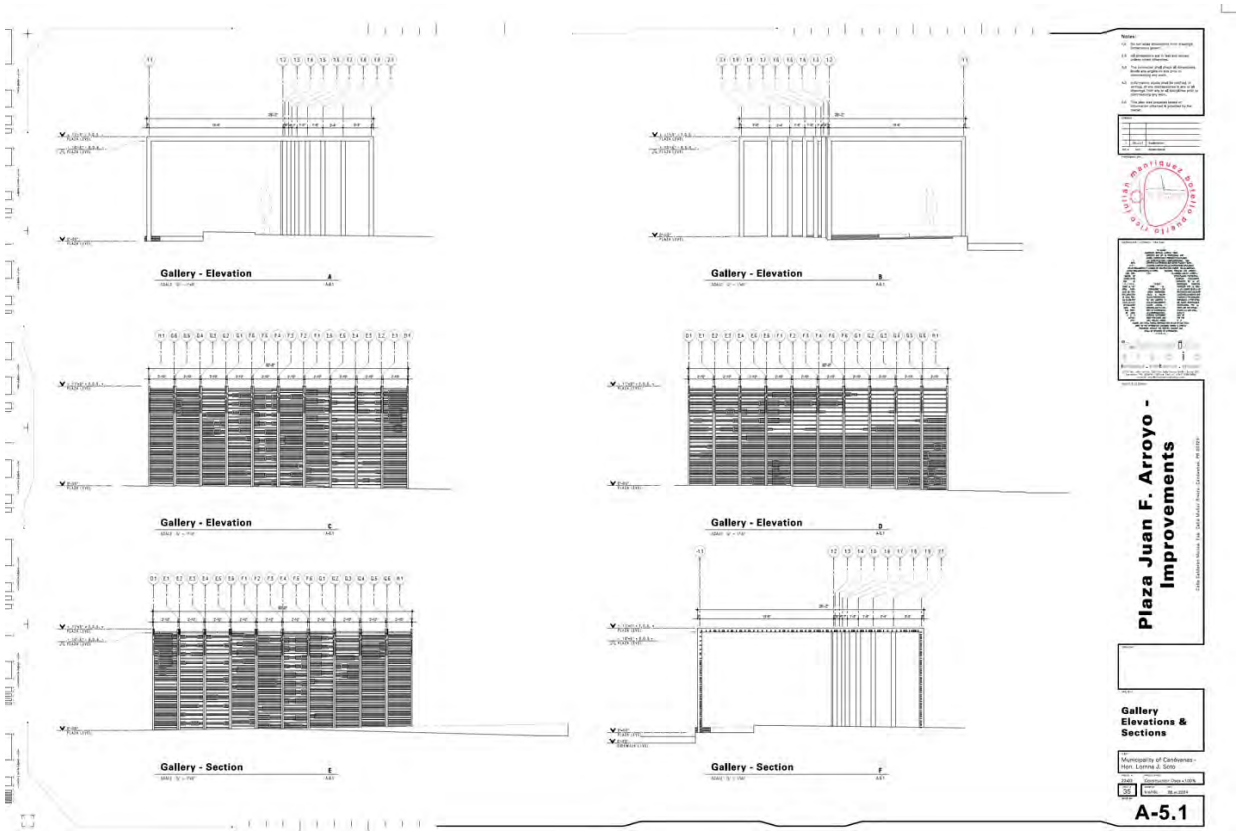


Figure 46:Gallery Unfolded Layout plan

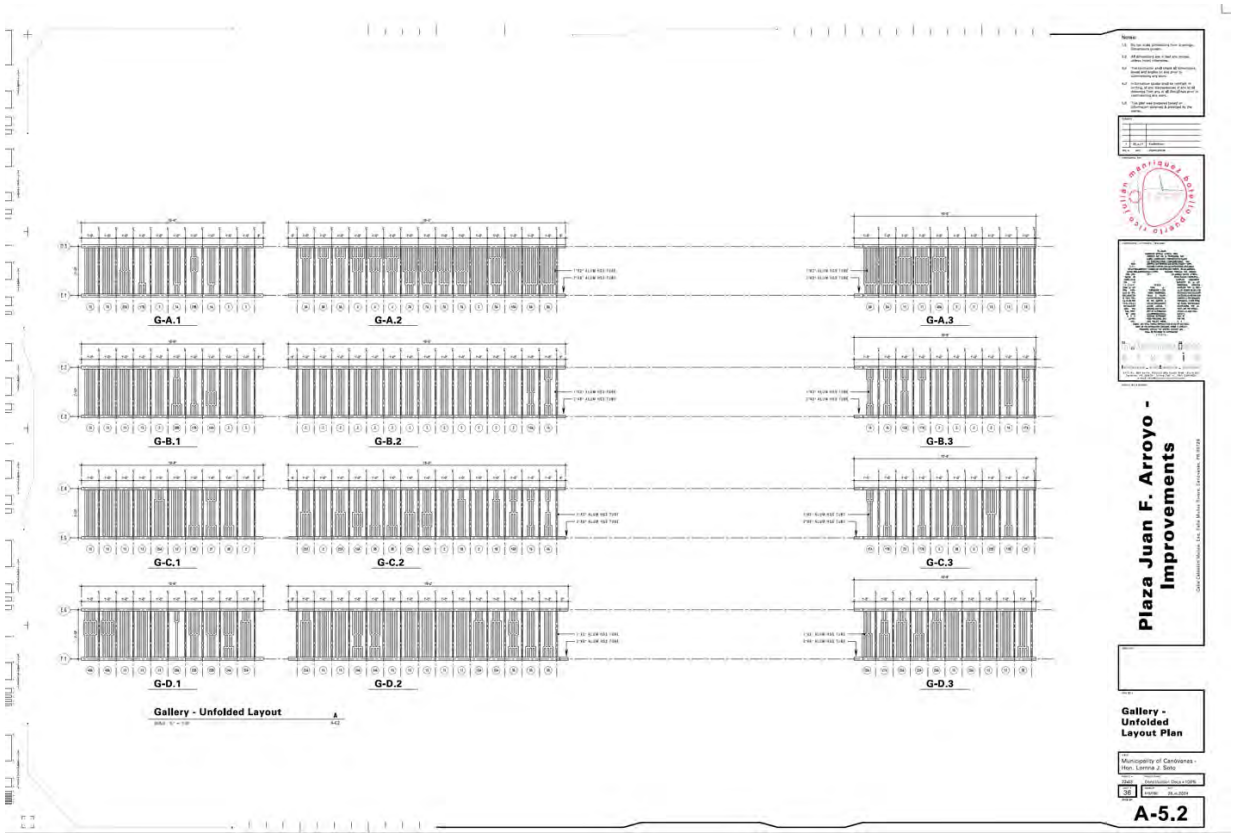


Figure 47:Gallery Unfolded Layout Plan

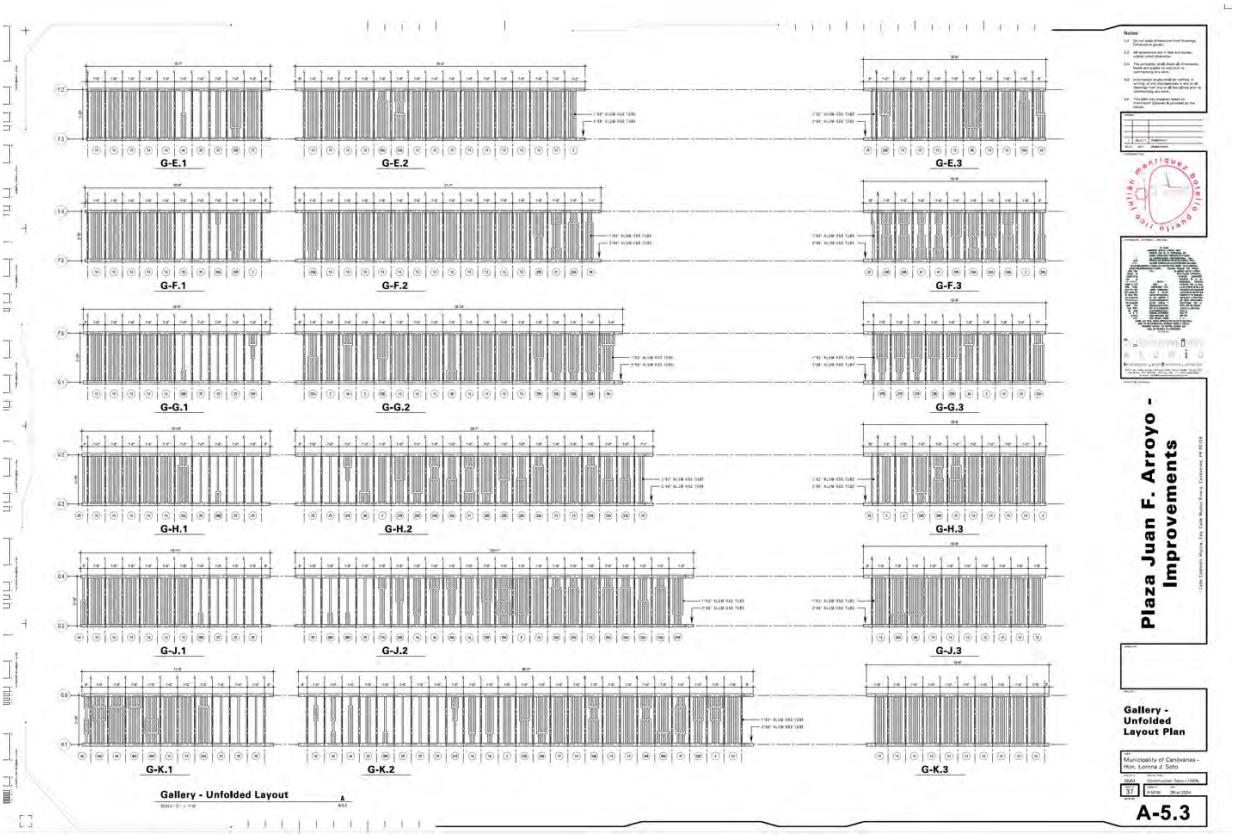


Figure 48:Gallery Unfolded Layout Plan

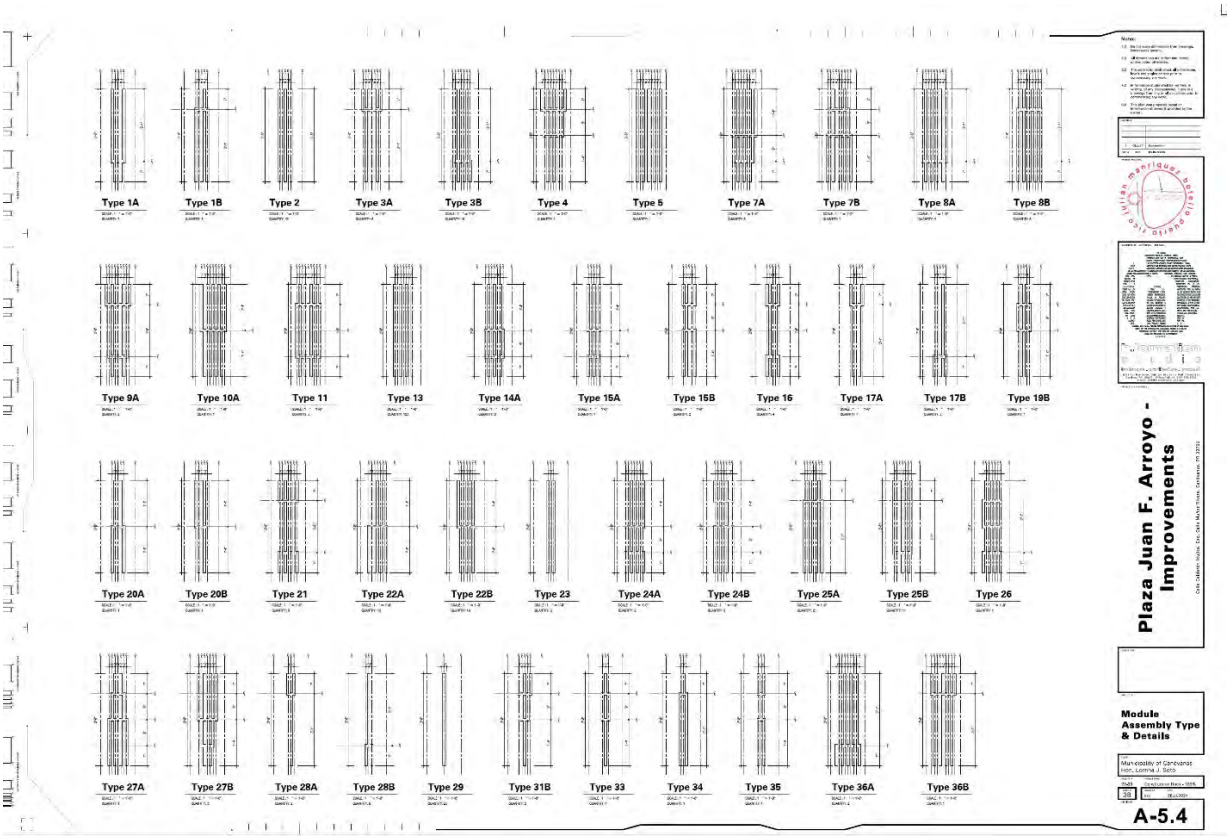


Figure 49: Module Assembly Type and Details

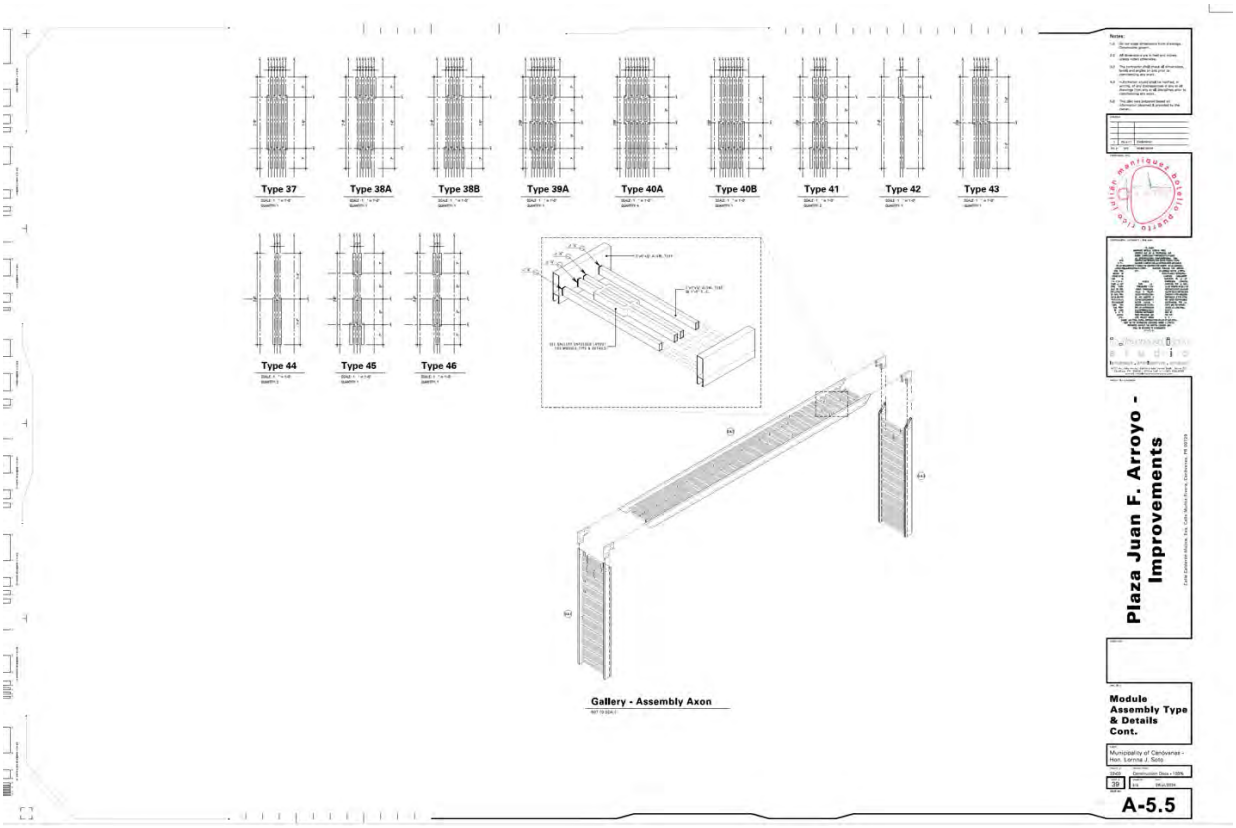


Figure 50:Electrical Closet-Elevations, Sections and Detail

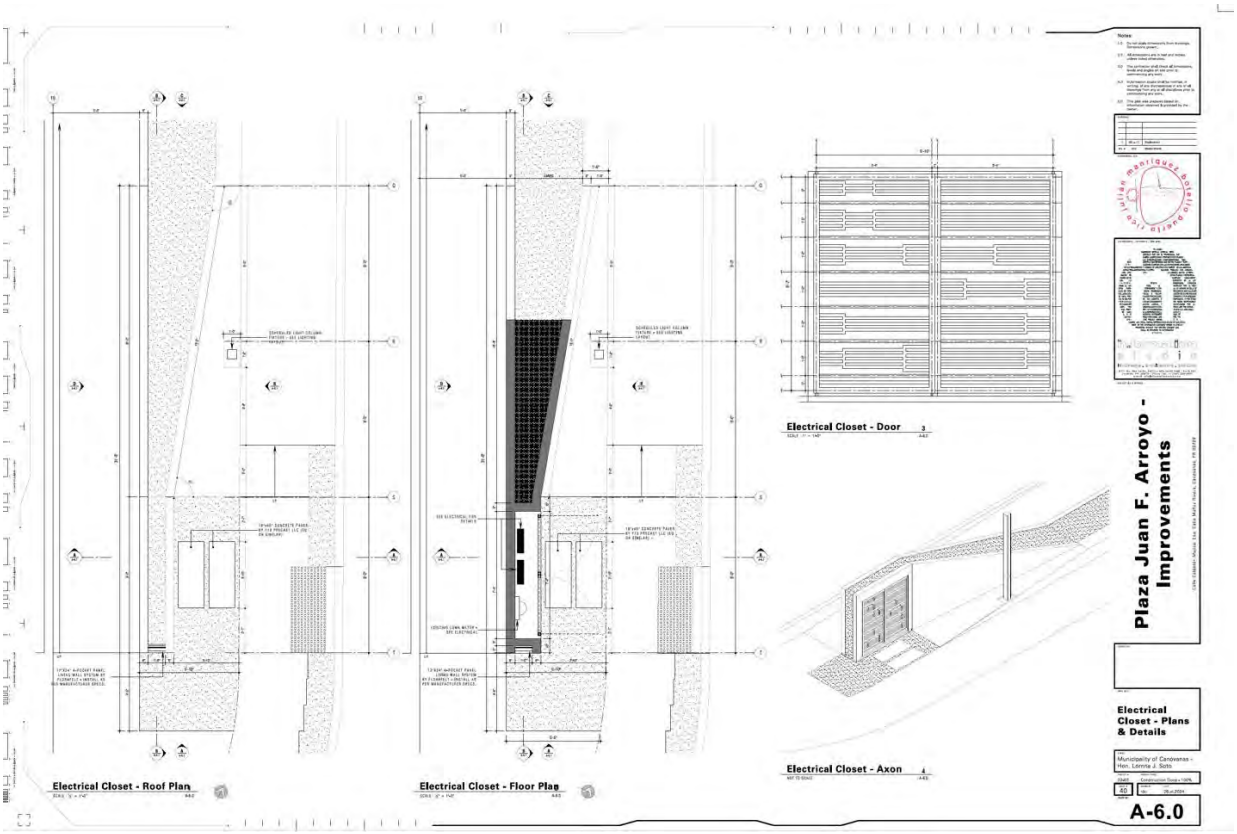


Figure 51:Electrical Closet-Elevations, Sections and Detail

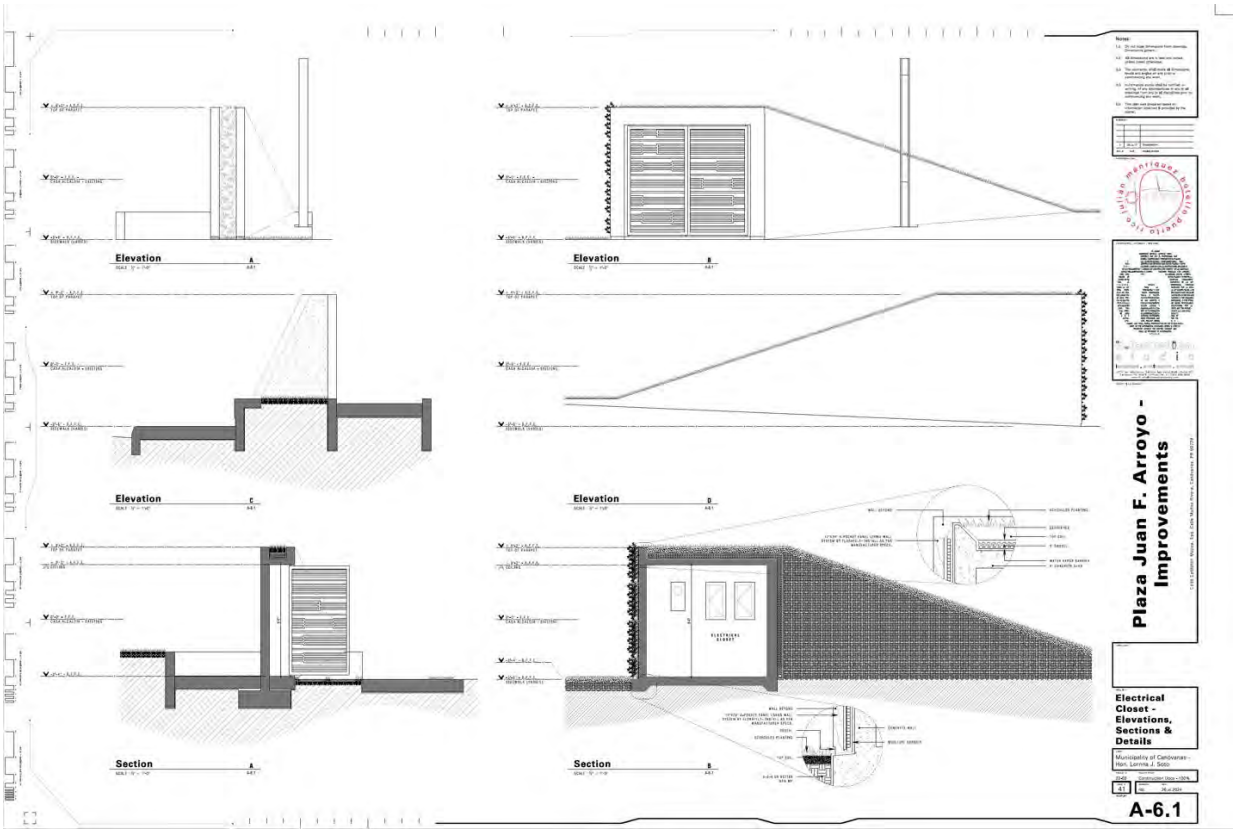


Figure 52:Paver Pattern Layout Plan

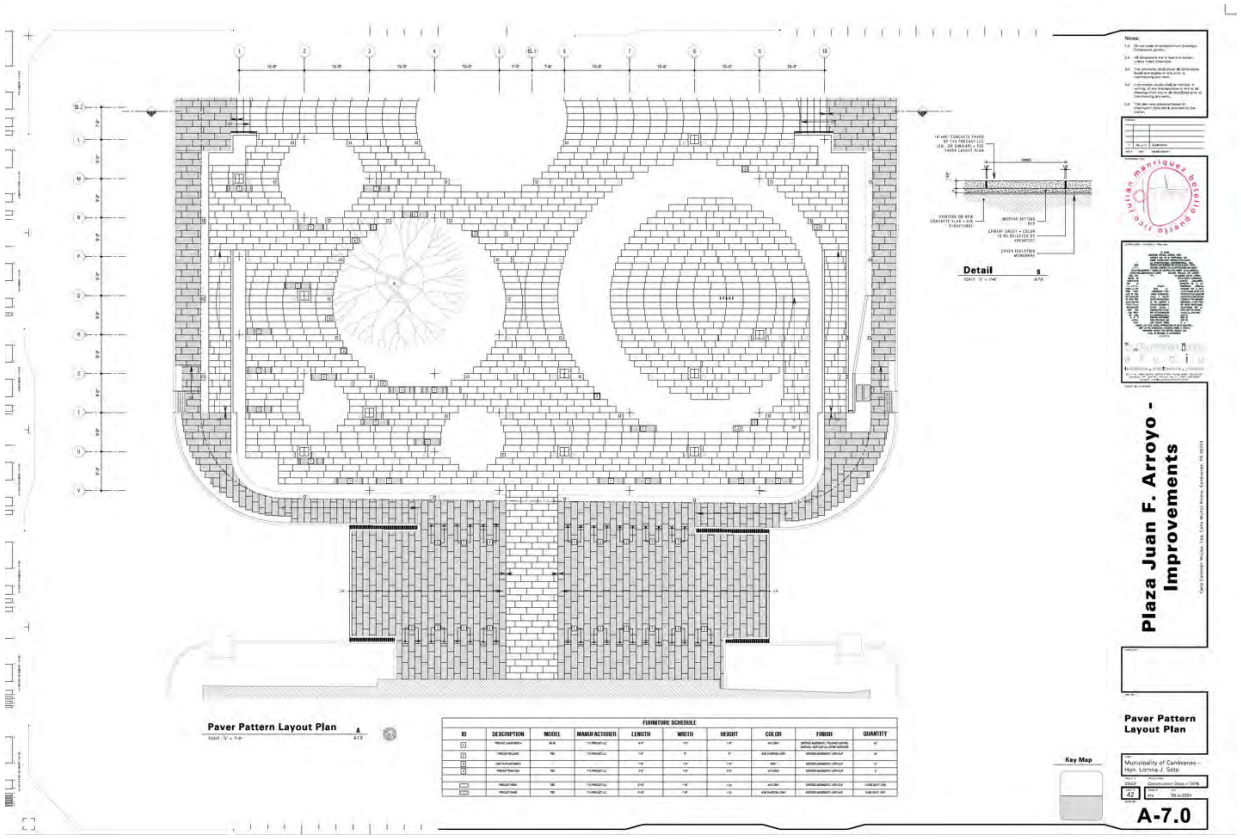


Figure 53: Paver Pattern Layout Plan

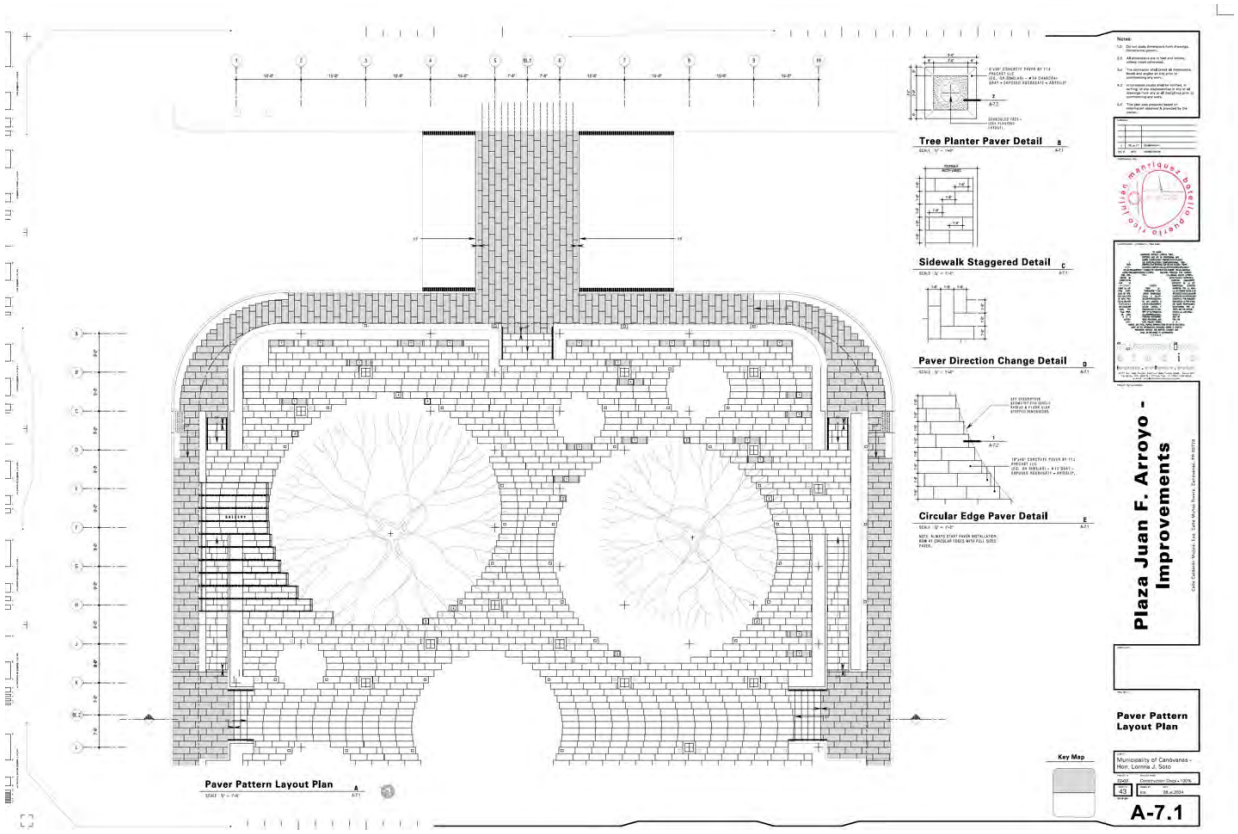


Figure 54:Pavers - Details

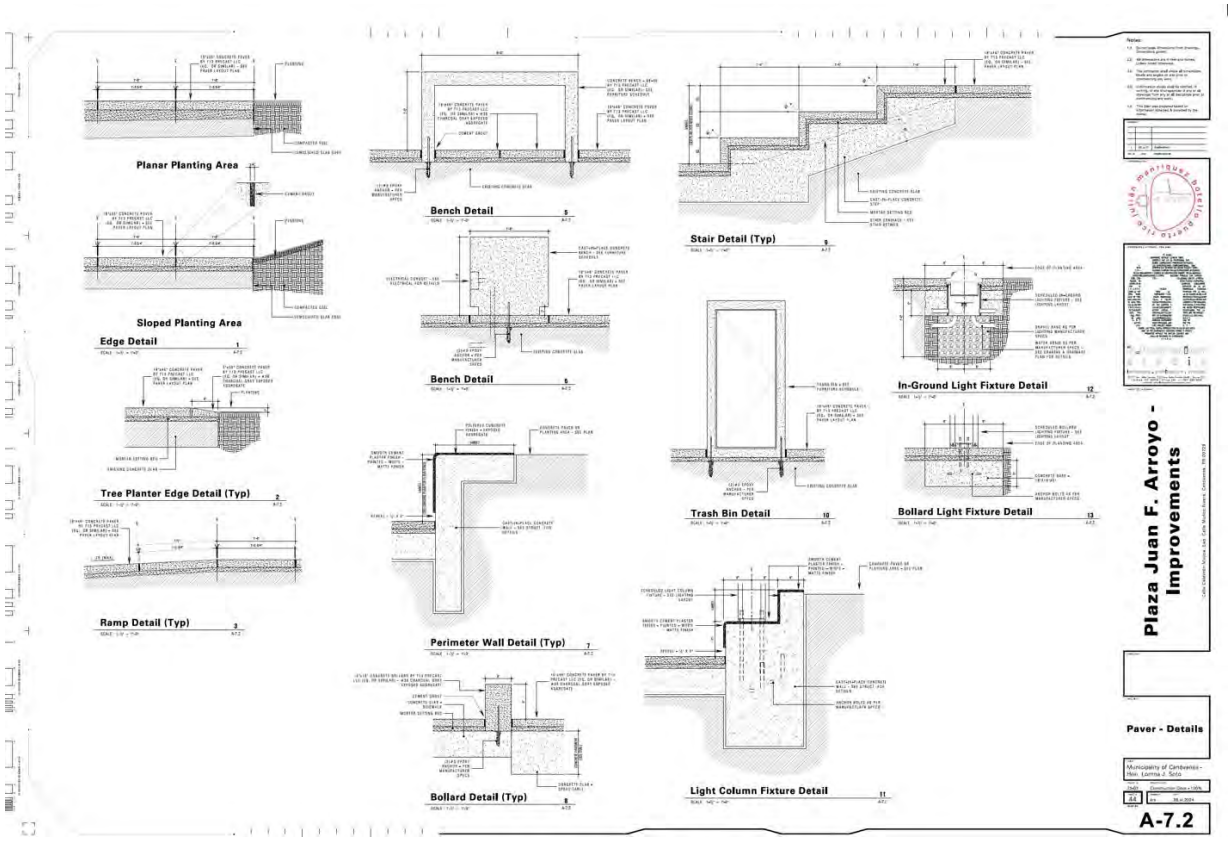


Figure 55: Project 3D visualization



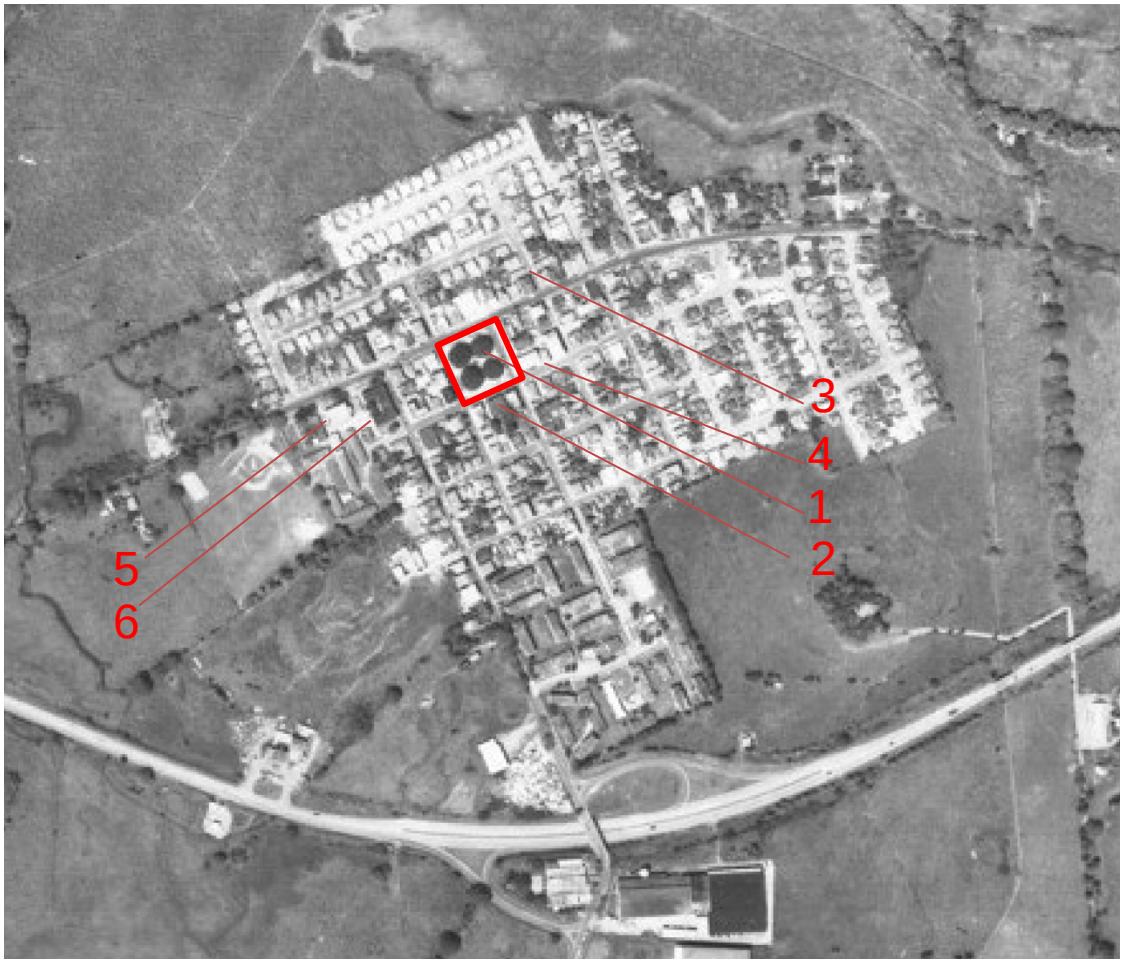
Figure 56:Photograph Key – USGS 1930



1. Juan F. Arroyo Public Square, is the direct APE (in Red)
2. Canóvanas Town hall, it's 30 feet away from APE.
3. Andres Flores Lopez Public school, it's 0.1mile away from APE.
4. Eugenio Maria de Hostos Public school, it's 397 feet away from APE.

N

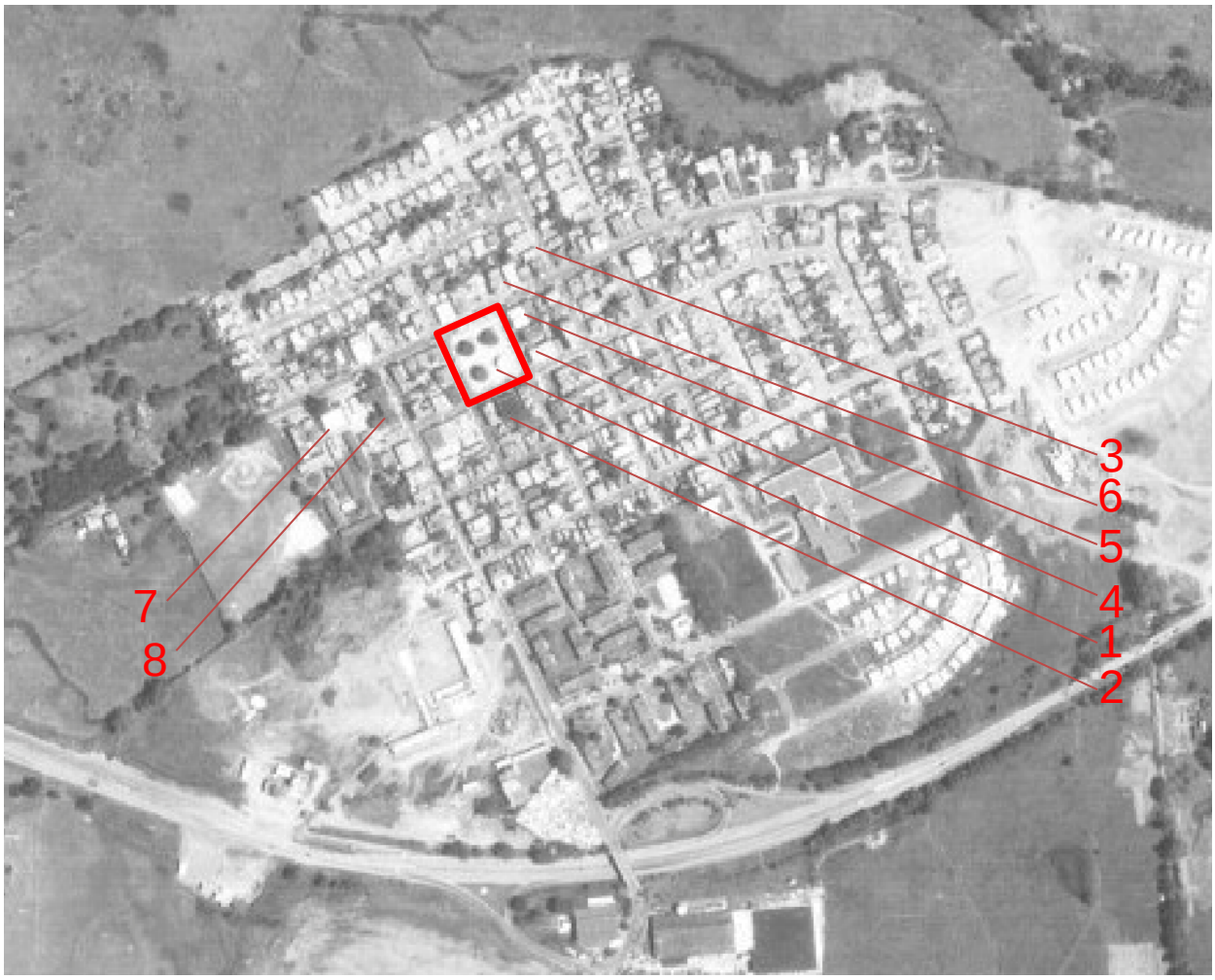
Figure 57:Photograph Key – USGS 1964



1. Juan F. Arroyo Public Square, is the direct APE (in Red)
2. Canóvanas Town hall, it's 30 feet away from APE.
3. Canóvanas Fire Station, it's 0.1 mile away from APE.
4. Colegio Nuestra Señora del Pilar, it's 108 feet away from APE.
5. Andres Flores Lopez Public school, it's 0.1mile away from APE.
6. Eugenio Maria de Hostos Public school, it's 397 feet away from APE.

N

Figure 58: Photograph Key – USGS 1971



1. Juan F. Arroyo Public Square, is the direct APE (in Red)
2. Canóvanas Town hall, it's 30 feet away from APE.
3. Canóvanas Fire Station, it's 0.1 mile away from APE.
4. Colegio Nuestra Señora del Pilar, it's 108 feet away from APE
5. Commercial three-story building, it's 256 feet away from APE.
6. Commercial two-story building, it's 0.1 mile away from APE.
7. Andres Flores Lopez Public school, it's 0.1mile away from APE.
8. Eugenio Maria de Hostos Public school, it's 397 feet away from APE.

N

Figure 59:Photograph Key – USGS 2018



1. Juan F. Arroyo Public Square, is the direct APE (in Red)
2. Canóvanas Town hall, it's 30 feet away from APE.
3. Canóvanas Fire Station, it's 0.1 mile away from APE.
4. Colegio Nuestra Señora del Pilar, it's 108 feet away from APE.
5. Commercial three-story building, it's 256 feet away from APE.
6. Commercial two-story building, it's 0.1 mile away from APE.
7. Andres Flores Lopez Public school, it's 0.1mile away from APE.
8. Eugenio Maria de Hostos Public school, it's 397 feet away from APE.

N



Photo #:1 Description (include direction):

Date: 04/09/23 Public Square west entrance looking east



Photo #:2 Description (include direction):

Date: 04/09/23 Public Square northwest entrance looking South



Photo #:3	Description (include direction):
Date: 04/09/23	Bronze statue in Public square statue facing north



Photo #:4	Description (include direction):
Date: 04/09/23	Bronze statue in the Public Square Statue looking south



Photo #:5	Description (include direction):
Date: 04/09/23	General View of the Public Square



Photo #:6	Description (include direction):
Date: 04/09/23	General View of the Public Square



Photo #:7	Description (include direction):

Date: 04/09/23	Existing lamps on the Public Square
	
Photo #:8	Description (include direction):
Date: 04/09/23	Existing condition of the Public Square, Planters



Photo #:9	Description (include direction):
Date: 04/09/23	Existing condition of the Public Square, Planters



Photo #:10	Description (include direction):
Date: 04/09/23	Existing condition of the Public Square, ramps



Photo #:11	Description (include direction):
Date: 04/09/23	Existing condition of the Public Square, ramps



Photo #:12	Description (include direction):

Date: 04/09/23	Existing condition of the Public Square, ramps



Photo #:13	Description (include direction):
Date: 04/09/23	Eligible Property, City Hall main Façade facing west



Photo #:14	Description (include direction):

Date: 04/09/23	Eligible Property, Canóvanas Fire Station main Façade facing East



Photo #:15	Description (include direction):
Date: 04/09/23	Eligible Property, Colegio Nuestra Señora del Pilar, main facade facing west



Photo #:16	Description (include direction):

Date: 04/09/23	Eligible Property, Commercial three-story building, main façade facing west. Parcel ID: 089-076-010-01



Photo #:17	Description (include direction):
Date: 04/09/23	Eligible Property, Commercial two-story building, Main façade facing south. Parcel ID: 089-076-048-12



Photo #:18	Description (include direction):

Date: 04/09/23	Canóvanas Urban context, Calderon Mujica St. Looking south



Photo #:19	Description (include direction):
Date: 04/09/23	Canóvanas Urban context, Munoz Rivera St. Looking east

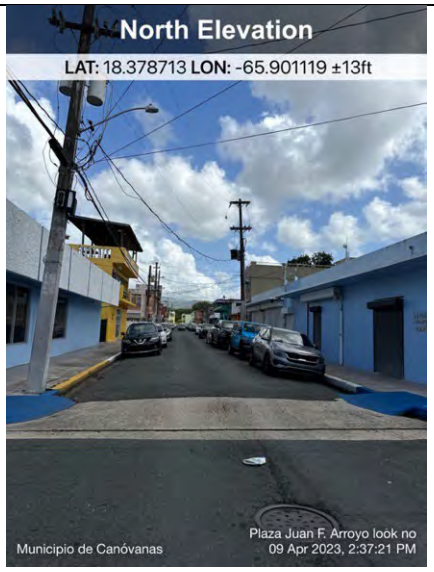


Photo #:20	Description (include direction):
Date: 04/09/23	Canóvanas Urban context, Luis Henaiz Veronne. Looking South



Photo #:21	Description (include direction):
Date: 04/09/23	Canóvanas Urban context, Calderon Mujica St. Looking North



Photo #:22	Description (include direction):
Date: 04/09/23	Canóvanas Urban context Palmer St. looking East



Photo #:23	Description (include direction):
Date: 04/09/23	Existing condition of the Public Square, ramps

PR-CRP-000312

Plaza Juan F. Arroyo Improvements

Canóvanas, Puerto Rico

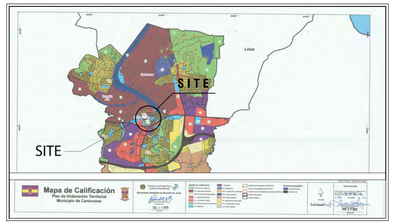
90% Design Drawings



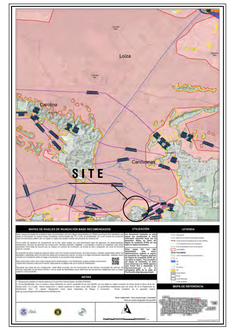
Project Image



Location Map



Zoning Map



Flood Map

Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

h.formation
studio
landscape . architecture . product

Drawing List

T-1 TITLE SHEET

Civil

C-1.0 CIVIL PLAN
C-1.1 CIVIL DETAILS
C-2.0 GRADING PLAN
C-3.0 TRAFFIC CONTROL PLAN & DETAILS
C-3.1 PEDESTRIAN CROSSING PLANS & DETAILS
C-3.2 SPEED TABLE PLANS & DETAILS
C-4.0 MAINTENANCE OF TRAFFIC PLAN
C-4.1 MOT DETAILS

Structural

S-1.0 FOUNDATION PLAN & DETAILS
S-1.1 FOUNDATION PLAN & DETAILS CONT.
S-1.2 FOUNDATION & DETAILS
S-1.3 PAVILIONS FOUNDATION PLAN & DETAILS
S-2.0 PAVILIONS STRUCTURAL PLAN & DETAILS
S-3.0 STRUCTURAL NOTES & DETAILS

Architecture

L-1.0 SYMBOLS, LEGEND & ABBREVIATIONS
GN-1.0 GENERAL NOTES
GDN-1.0 GENERAL DEMOLITION NOTES
AS-1.0 SITE PLAN
ED-1.0 DEMOLITION PLAN & NOTES
ED-1.1 DEMOLITION PLAN & NOTES
A-1.0 FLOOR PLAN & DETAILS
A-1.1 FLOOR PLAN & DETAILS CONT.
A-1.2 DESCRIPTIVE GEOMETRY
A-1.3 DESCRIPTIVE GEOMETRY CONT.
A-1.4 DESCRIPTIVE GEOMETRY CONT.
A-2.0 GENERAL ELEVATIONS
A-3.0 GENERAL SECTIONS
A-4.0 STAIR PLANS & DETAILS
A-4.1 STAIR SECTIONS & DETAILS
A-5.0 GALLERY PLANS & DETAILS
A-5.1 GALLERY ELEVATIONS & SECTIONS
A-5.2 GALLERY UNFOLDED LAYOUT
A-5.3 GALLERY UNFOLDED LAYOUT CONT.
A-5.4 GALLERY UNFOLDED LAYOUT CONT.
A-6.0 PAVILION PLANS, ELEVATIONS & SECTIONS
A-6.1 PAVILION UNFOLDED LAYOUT
A-6.2 PAVILION UNFOLDED LAYOUT CONT.
A-6.3 GALLERY & PAVILION ELEMENTS TYPES
A-6.4 GALLERY & PAVILION ELEMENTS TYPES CONT.
A-7.1 PAVER DETAILS

Electrical

E-1.0 ELECTRICAL LIGHTING LAYOUT, NOTES, LEGEND & LOAD SCHEDULE
E-1.1 POWER PLAN
E-1.2 POWER PLAN CONT.

Plumbing

P-1.0 PLUMBING LAYOUT PLAN & NOTES
P-2.0 PLUMBING NOTES & DETAILS

Telecommunications

T-1.0 TTC SITE PLAN

Cadastral No: 089-086-015-01

Plaza Juan F. Arroyo - Improvements

Calle Muñoz Rivera
Canóvanas,PR 00729

LANDSCAPE
XXX
XXX

CIVIL
XXX
XXX

STRUCTURAL
JOG Engineering, Corp.
José O. González García, P.E.

MECHANICAL A/C
XXX
XXX

PLUMBING
Jorge Torres Scandali
Jorge Torres Scandali

FIRE PROTECTION
XXX

ELECTRICAL
Requena & Asociados
Carlos Lázaro, P.E.

Consultants

VOICE/DATA COMMUNICATIONS
XXX
XXX

ELECTRONIC/AUDIOVISUAL
XXX
XXX

THEATER/ACOUSTICAL
XXX
XXX

LIGHTING DESIGN
XXX
XXX

INTERIORS
XXX
XXX

SECURITY
XXX
XXX

ENVIRONMENTAL - HAZARDOUS MATERIAL
XXX
XXX

DIGITAL FABRICATION
XXX
XXX

Specialty Consultants

Abbreviations

A-I		J-Z	
[E]	EXISTING	**JAN**	JANITOR
[N]	NEW	**JT**	JOINT
AB	ANCHOR BOLT	**LAM**	LAMINATE
ACT	ACCOUSTICAL CEILING TILE	**LP**	LOW POINT
ACCOUST	ACCOUSTICAL	**LAV**	LAVATORY
AFF	ABOVE FINISH FLOOR	**MAX**	MAXIMUM
AFFE	ABOVE FINISH FLOOR ELEVATION	**MECH**	MECHANICAL
AFFL	ABOVE FINISH FLOOR LEVEL	**MH**	MANHOLE
ALT	ALTERNATE	**MIN**	MINIMUM
ALUM	ALUMINUM	**MO**	MASONRY OPENING
APPROX	APPROXIMATE	**MISC**	MISCELLANEOUS
ARCH	ARCHITECTURAL	**MTD**	MOUNTED
ASPH	ASPHALT	**MTL**	METAL
BB	BOTTOM OF BEAM	**NIC**	NOT IN CONTRACT
BD	BOARD	**NO**	NUMBER
BLDG	BUILDING	**NTS**	NOT TO SCALE
BLKG	BLOCKING	**OC**	ON CENTER
BM	BEAM	**OD**	OUTSIDE DIAMETER
BOD	BOTTOM OF DECK	**OH**	OVERHEAD
BOS	BOTTOM OF SLOPE	**OPNG**	OPENING
BOT	BOTTOM	**OPP**	OPPOSITE
BT	BOTTOM CURB	**PBC**	PLUMBING CONTRACTOR
BS	BOTH SIDES	**PL**	PLATE
BW	BOTTOM WALL	**PLAS LAM**	PLASTIC LAMINATE
CB	CATCH BASIN	**PLYWD**	PLYWOOD
CJ	CONTROL JOINT	**PNT**	PAINT
CLG	CEILING	**PR**	PAIR
CL	CENTER LINE	**PT**	POINT OF TANGENCY
CLR	CLEAR	**RAD**	RADIUS
CMU	CONCRETE MASONRY UNIT	**RD**	ROOF DRAIN
COL	COLUMN	**REINF**	REINFORCED
CONC	CONCRETE	**REQD**	REQUIRED
CONT	CONTINUOUS	**RESIL**	RESILIENT
CONTR	CONTRACTOR	**RM**	ROOM
CPT	CARPET	**RO**	ROUGH OPENING
CT	CERAMIC TILE	**RTU**	ROOF TOP UNIT
CTR	CENTER	**SHTG**	SHEATHING
DBL	DOUBLE	**SIM**	SIMILAR
DET	DETAIL	**SPECS**	SPECIFICATIONS
DIA	DIAMETER	**SQ**	SQUARE
DN	DOWN	**SS**	STAINLESS STEEL
DR	DOOR	**STA**	STATION
DS	DOWN SPOUT	**STD**	STANDARD
DWG	DRAWING	**STL**	STEEL
EA	EACH	**STRUCT**	STRUCTURAL
EF	EACH FACE	**SUSP CLG**	SUSPENDED CEILING
EJ	EXPANSION JOINT	**TBD**	TO BE DETERMINED
ELC	ELECTRICAL CONTRACTOR	**TBS**	TO BE SELECTED
ELEC	ELECTRICAL	**TOB**	TOP OF BEAM
ELEV	ELEVATION (FACADE)	**TOC**	TOP OF CURB
EQ	EQUAL	**TOPA**	TOP OF PANEL
EQUIP	EQUIPMENT	**TOP**	TOP OF PARAPET
EXF	EXHAUST FAN	**TOS**	TOP OF STAIR
EXP	EXPANSION	**TOW**	TOP OF WALL
EXIST	EXISTING	**TYP**	TYPICAL
EW	EACH WAY	**UNF**	UNFINISHED
EWC	ELECTRIC WATER COOLER	**UON**	UNLESS OTHERWISE NOTED
FD	FREE DISCHARGE (ROOF DRAIN)	**VCT**	VINYL COMPOSITE TILE
FDN	FOUNDATION	**VIF**	VERIFY IN FIELD
FFE	FINISH FLOOR ELEVATION	**W/**	WITH
FH	FIRE HYDRANT	**WD**	WOOD
FIN	FINISH (ED)		
FLR	FLOOR		
FP	FIREPROOF		
FTG	FOOTING		
FURR	FURRING		
GA	GAUGE		
GALV	GALVANIZED		
GCC	GENERAL CONSTRUCTION CONTRACTOR		
GL	GLASS		
GRD	GRADE		
GYP	GYPSUM		
HAC	HEATING & A/C CONTRACTOR		
HB	HOSE BIB		
HC	HOLLOW CORE		
HDWD	HARDWOOD		
HM	HOLLOW METAL		
HORIZ	HORIZONTAL		
HP	HIGHT POINT		
HT	HEIGHT		
ID	INSIDE DIAMETER		
IDC	INSIDE DIMENSION CLEAR		
INSUL	INSULATION		
INT	INTERIOR		

Acronyms

SAD	SEE ARCHITECTURAL DRAWINGS
SSD	SEE STRUCTURAL DRAWINGS
SCD	SEE CIVIL DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SED	SEE ELECTRICAL DRAWINGS
SLD	SEE LANDSCAPE DRAWINGS
SD & TD	SEE DATA & TELECOMMUNICATION DRAWINGS

Symbols

NORTH ARROW

ELEVATION DESIGNATION / REFERENCED DRAWING — ELEVATION - EXTERIOR

SECTION DESIGNATION / REFERENCED DRAWING — GENERAL SECTION

PARTIAL OR WALL SECTION DESIGNATION / REFERENCED DRAWING — PARTIAL OR WALL SECTION

ELEVATION - INTERIOR

DETAIL DESIGNATION / REFERENCED DRAWING — DETAIL

DOOR DESIGNATION # / HARDWARE DESIGNATION # — DOOR DESIGNATION

WINDOW DESIGNATION

NOTE INDICATOR

DEMOLITION NOTE INDICATOR
A. ACCESSORIES/MISCELLANEOUS
C. CEILING
D. DOORS/FRAMES
F. FLOOR
M. MECHANICAL/PLUMBING
P. PARTITIONS
W. WINDOWS

REVISION INDICATOR

ROOM NAME — SPACE IDENTIFICATION NAME

23 — SPACE DESIGNATION #

REF. CLG. / FLOOR / WALL / BASE — FINISHES KEY

1 — FIXTURE/EQUIPMENT IDENTIFIER

+14'-6" A.F.F.E. — ELEVATION - AT FINISH FLOOR LEVEL

+14'-0" A.F.E.E. — ELEVATION - AT CEILING LEVEL

1 / A-2.6 — DETAIL SECTION

CHANGE IN FLOOR FINISH

CHANGE OF FLOOR FINISH WHERE THRESHOLD OR SADDLE OCCURS

XX — STRUCTURAL AXIS

CHANGE IN FLOOR LEVEL

HIDDEN OUTLINE (SHOWING CONDITION BELOW, ABOVE, BEHIND OR BEYOND)

MATCH LINE

12% — SLOPE

136.6' — EXISTING SPOT ELEVATION

136.6' — PROPOSED SPOT ELEVATION

6" — DIMENSION - PRIMARY - TXT HT. 3/32" - & OFFSET 1/16"

6" — DIMENSION - SECONDARY - TXT HT. 3/64" - & OFFSET 1/32"

ANNOTATION ARROW

ANNOTATION DOT

℄ — CENTER LINE

BREAK LINE

Floor Plan

A

SCALE : 1/128" = 1'-0"

A-2.1

BID SET
NOT FOR CONSTRUCTION

February 25, 2017

Legend

- EXISTING CONSTRUCTION TO REMAIN
- WALLS TO BE DEMOLISHED
- STRUCTURAL CONCRETE WALL
- CONCRETE BLOCK WALL
- GWB. PARTITION
- ELEMENTS TO BE REMOVED
- PROPERTY LINE

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
LIC. MAX 00000 19
EXP. 19.X.2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

n.formation studio
landscape . architecture . product
6177 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Symbols, Legend, Abbreviations & Acronyms

CLIENT

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
2	jmb / 05.ii.2024

DISCIPLINE

L-1.0

General Notes

1.0 THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AT SITE AND NOTIFY, THE PROJECT ARCHITECT OR CONSTRUCTION REPRESENTATIVE OF ANY AND ALL DISCREPANCIES AND LIST ANY WORK NOT YET COMPLETED BEFORE STARTING WORK.

2.0 ALL WORK ON THIS PROJECT SHALL BE IN ACCORDANCE WITH ALL CODES, SUB-CODES AND BUILDING DEPARTMENTS HAVING JURISDICTION. GENERAL CONTRACTOR TO CONTACT LOCAL BUILDING OFFICIALS FOR SPECIFIC REQUIREMENTS FOR THIS PROJECT.

3.0 THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS FOR THE GENERAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS REQUIRED FOR THE WORK NOTED ON THESE PLANS AND SPECIFICATIONS.

4.0 BOTH THE OWNER'S GENERAL CONTRACTORS AND ALL SUBCONTRACTORS WORKING ON THIS PROJECT ARE RESPONSIBLE FOR CONTACTING THE PUBLIC UTILITY COMPANIES SUPPLYING UTILITIES TO THE AREA WHERE THE PROJECT IS LOCATED, IN ORDER TO VERIFY LOCATIONS OF UTILITIES, UNDERGROUND OR OVERHEAD, AND SECURE THE PROPER PROCEDURES WHILE WORKING ADJACENT TO, ABOVE OR NEAR SUCH UTILITIES TO AVOID ANY PROBLEMS WITH EXPLOSIONS, DISCONNECTIONS, REMOVALS, ETC.

5.0 THE GENERAL CONTRACTOR SHALL LAY OUT WORK AS SPECIFIED IN THE DRAWINGS AND SHALL BE HELD RESPONSIBLE FOR PROPER ESTABLISHMENT AND MAINTENANCE OF ALL LINES AND DIMENSIONS, BEFORE DOING ANY WORK. THIS GENERAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE SITE AND NOTIFY THE ARCHITECT, THE OWNER AND THE OWNER'S CONSTRUCTION REPRESENTATIVE OF ANY DISCREPANCIES VERBALLY AND THEN IN WRITING.

6.0 ALL CONTRACTORS SHALL BE BONDABLE, LICENSED CONTRACTORS POSSESSING GOOD LABOR RELATIONS AND MUST BE CAPABLE OF QUALITY WORKMANSHIP, IN HARMONY WITH OTHER CONTRACTORS WORKING ON THE PROJECT. THE OWNER TO BE NOTIFIED OF THE NAMES OF ALL POTENTIAL SUBCONTRACTORS PRIOR TO AWARDING BIDS.

7.0 PRIOR TO COMMENCEMENT OF ANY WORK, THE GENERAL CONTRACTOR SHALL CONTACT AND MEET WITH OWNER AND PROJECT MANAGEMENT REPRESENTATIVE FOR A PRE-CONSTRUCTION MEETING, AT WHICH TIME THE GENERAL CONTRACTOR WILL PRESENT TO ALL PARTIES A LIST OF NAMES, ADDRESSES, BUSINESS AND HOME TELEPHONE NUMBERS OF THE SUBCONTRACTORS FOR THIS PROJECT.

8.0 THE GENERAL CONTRACTOR, ALL SUBCONTRACTORS OR OUTSIDE SERVICES COMPLETING WORK ON THIS PROJECT SHALL COMPLY WITH ALL THE PROVISIONS OF O.S.H.A. (OCCUPATIONAL SAFETY AND HEALTH ACT).

9.0 THE GENERAL CONTRACTOR SHALL HAVE AT ALL TIMES, AT THE PREMISES, APPROVED WORKING DRAWINGS (IF APPLICABLE) AND BUILDING DEPARTMENT APPROVED PERMIT DRAWINGS.

10.0 ALL CLEARANCES OF PIPES AND DUCT WORK INSTALLED BY THE GENERAL CONTRACTOR OR SUBCONTRACTORS MUST BE MAINTAINED FOR ADEQUATE HEIGHTS REQUIRED FOR CEILING SYSTEM AND LIGHT FIXTURES.

11.0 THE CONTRACTORS AND SUBCONTRACTORS PARTICIPATING IN THE PERFORMANCE OF WORK SHALL REMOVE AND DISPOSE OF, AT LEAST ONCE A WEEK AND MORE FREQUENTLY AS MAY DIRECT, ALL DEBRIS AND RUBBISH CAUSED BY OR RESULTING FROM THE PERFORMANCE OF WORK AND, UPON COMPLETION THEREOF, REMOVE ALL TEMPORARY STRUCTURES, SURPLUS MATERIALS, DEBRIS AND RUBBISH OF WHATEVER KIND REMAINING IN THE WORK AREA WHICH HAD BEEN BROUGHT IN OR CREATED BY THE CONTRACTOR AND SUBCONTRACTORS IN THE PERFORMANCE OF WORK. THIS CONTRACTOR MUST MAINTAIN A CLEAR PATH OF EGRESS AT THE SITE FREE FROM TRASH AND RUBBISH AT ALL TIMES. ALL REMOVAL OF CONSTRUCTION DEBRIS TO AN APPROVED DUMPING SITE TO BE INCLUDED IN THE GENERAL CONTRACTOR'S WORK.

12.0 ALL FINISH AND EXPOSED WOOD SHALL RECEIVE A FIRE RETARDANT COATING OR TREATMENT IF REQUIRED BY CODE OR THE LOCAL FIRE MARSHALL. NO WOOD OR COMBUSTIBLE MATERIAL SHALL BE USED ABOVE THE SUSPENDED CEILING UNLESS NON-COMBUSTIBLE LUMBER IS USED AND IS SPECIFICALLY ALLOWED BY U.B.C. LOCAL BUILDING CODES, THE FIRE MARSHALL AND ALL AGENCIES HAVING JURISDICTION. IF FIRE TREATED WOOD IS REQUIRED FOR FIXTURING ITEMS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR EXECUTING THIS WORK AS PER BUILDING OFFICIALS' REQUIREMENTS. THE WOOD MUST BEAR THE U.L. APPROVAL AND MILL STAMP INDICATING IT WAS PROPERLY TREATED.

13.0 ALL EQUIPMENT, MILLWORK AND FIXTURES SUPPLIED BY OWNER TO BE UNLOADED, ASSEMBLED AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE REPRESENTATIVE.

14.0 ANY SUBSTITUTIONS OF FINISH MATERIALS MUST BE APPROVED BY THE ARCHITECT IN WRITING. GENERAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING TWO (2) SAMPLES OF EACH SUBSTITUTION.

15.0 EACH CONTRACTOR AND SUBCONTRACTOR PERFORMING WORK SHALL MAINTAIN CONTINUOUS PROTECTION OF ADJACENT PREMISES IN SUCH MANNER AS TO PREVENT ANY DAMAGE TO ADJACENT PROPERTY AND IMPROVEMENTS BY REASON OF THE PERFORMANCE OF WORK. EACH CONTRACTOR AND SUBCONTRACTOR SHALL PROPERLY PROTECT WORK WITH LIGHTS, GUARD RAILS, AND BARRICADES AND SECURE ALL PARTS THEREOF AGAINST STORM AND ACCIDENT.

16.0 WHEN BIDDING THIS PROJECT, EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND VERIFYING EXISTING CONDITIONS AS REFLECTED IN THESE CONTRACT DOCUMENTS. ANY EXTRA WORK REQUIRED BUT NOT INCLUDED IN THE DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY.

17.0 GENERAL CONTRACTORS AND ALL SUBCONTRACTORS ARE REQUIRED TO FURNISH THE MINIMUM COVERAGE AND LIMITS OF LIABILITY DESCRIBED ON THE CONTRACT DOCUMENTS.

18.0 GENERAL CONTRACTORS ARE REQUIRED TO FAMILIARIZE ALL PERSONS AND SUBCONTRACTORS WORKING ON THIS PROJECT WITH THESE GENERAL NOTES AND THE CONTRACT DOCUMENTS NOTED IN THESE DRAWINGS. GENERAL CONTRACTORS SHALL BE RESPONSIBLE FOR FULLY ACQUAINTING THEMSELVES WITH THE CONTENT AND SCOPE OF THESE SPECIFICATIONS, AND SPECIAL ATTENTION SHOULD BE GIVEN THE SPECIFICATIONS THROUGHOUT THE SPAN OF THIS PROJECT BY THESE GENERAL CONTRACTORS, SUPERVISORS AND SUBCONTRACTORS, AS THE STANDARD ESTABLISHED HEREIN SHALL BE APPLIED, WITH EMPHASIS TO ALL WORK, WORK DECLARED UNACCEPTABLE BY THE OWNER/ARCHITECT SHALL BE CORRECTED IN A MANNER AND TO A DEGREE OF QUALITY AS ACCEPTABLE BY THE OWNER.

19.0 THE GENERAL CONDITIONS OF THE "CONTRACT FOR CONSTRUCTION" DOCUMENT A-201, ISSUED BY THE AMERICAN INSTITUTE OF ARCHITECTS, 1981 EDITION, RELATES TO THE WORK OF THIS PROJECT AND IS HEREBY MADE A PART OF THESE DRAWINGS AS THOUGH FULLY CONTAINED IN THESE DRAWINGS. THE GENERAL CONTRACTORS AND ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY NUMBER OF COPIES OF DOCUMENT A-201, TO ACQUAINT HIMSELF WITH THE ARTICLES CONTAINED THEREIN AND TO REVIEW WITH ALL SUBCONTRACTORS, SUPPLIERS AND ANY OTHER PARTIES TO THE CONTRACT OR INDIVIDUALS OR AGENCIES ENGAGED ON THE WORK AS TO ITS CONTENTS.

20.0 ONLY THE CLIENT'S REPRESENTATIVE, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK, ALTER, ADD TO, OR DEDUCT FROM THE CONTRACT WORK. THE CONTRACT SUM SHALL BE ADJUSTED ACCORDINGLY, AND SUCH COSTS SHALL BE COMPETITIVE WITH LOCAL CONSTRUCTION COSTS.

21.0 AT THE TIME OF FINAL SUBMITTAL FOR ALL COSTS BY THE GENERAL CONTRACTOR TO THE OWNER, INCLUDING BASE BID, EXTRAS AND CREDITS, THE OWNER'S GENERAL CONTRACTOR'S SUBCONTRACTORS SHALL FURNISH TO THE OWNER A WRITTEN GUARANTEE STIPULATING THAT, AT NO ADDITIONAL COST TO THE OWNER CONTRACTOR, ANY DEFECTIVE WORK OR MATERIALS SHALL BE REPAIRED OR REPLACED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF WORK, UNLESS OTHERWISE NOTED.

22.0 NO EXTRAS FOR COSTS CAN BE AUTHORIZED UNLESS APPROVED IN WRITING BY THE ARCHITECT OR THE OWNER'S CONSTRUCTION REPRESENTATIVE. ANY ISSUES OF CREDITS TO BE CALCULATED BASED ON COMPETITIVE RATES AND EQUIPMENT'S COSTS APPROVED BY THE ARCHITECT.

23.0 FOR CLARIFICATION PURPOSES, CLIENT AND OWNER ARE THE SAME PARTY. GENERAL CONTRACTOR WILL BE REQUIRED TO HANDLE ALL WORK IN THESE DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE.

24.0 THE CONTRACTORS ARE REQUIRED TO HAVE ALL SUBCONTRACTORS REVIEW THESE ABOVE NOTES PRIOR TO BIDDING AND TO FOLLOW-UP AND EXECUTE AS WRITTEN.

25.0 THE DESIGN CONCEPT LEAVES ZERO OR MINIMAL CLEARANCE FOR ERROR IN REGARD TO LAYOUT. "HOLD DIMENSION" INDICATIONS ARE TO BE ADHERED TO AND THE CONTRACTOR IS TOTALLY RESPONSIBLE FOR ERROR OR OMISSION. ANY QUESTIONS RELATING TO DIMENSIONING ARE TO BE ADDRESSED TO THE ARCHITECT ONLY.

26.0 ALL PAYMENTS MADE TO THE GENERAL CONTRACTOR FOR THIS PROJECT ARE TO BE ALLOCATED FOR THIS PROJECT ONLY. FOR PAYMENTS TO SUBCONTRACTORS, MATERIAL SUPPLIERS AND AGENTS AUTHORIZED BY THE SPECIFIC CONTRACTOR TO PERFORM WORK OR SUPPLY MATERIALS TO THIS PROJECT ONLY. THE GENERAL CONTRACTORS ARE REQUIRED TO SUBMIT PARTIAL WAIVERS OF LIENS FOR THEIR WORK AS WELL AS SUBCONTRACTORS OR MATERIAL SUPPLIERS, UPON THE REQUEST OF THE CLIENT OR THE CLIENT'S ARCHITECT AND THE REQUEST FOR THE FINAL 10% RETENTION ON THIS PROJECT MUST INCLUDE SIGNED AND EXECUTED WAIVERS OF LIEN INDICATING 100% COMPLETION AND 100% PAYMENT IN FULL, BY ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS.

27.0 ALL EXITS SHALL BE UNOBSTRUCTED AT ALL TIMES, DURING CONSTRUCTION AND OCCUPANCY.

28.0 THE GENERAL CONTRACTOR, AT THE POINT OF "SUBSTANTIAL COMPLETION" AND "TURNOVER" MUST COMPLETE, AT GENERAL CONTRACTOR'S COST AND EXPENSE (FINAL PAYMENT CANNOT BE REQUESTED UNLESS ALL OF THIS WORK NOTED IS COMPLETED):
A) FINAL INSPECTIONS BY ALL BODIES HAVING JURISDICTION NECESSARY FOR FINAL COMPLETION, CERTIFICATE OF OCCUPANCY OR COMPLETION, WHICHEVER IS APPLICABLE.
B) FINALIZE ALL PUNCH LISTS AND/OR REQUIREMENTS, TO THE SATISFACTION OF BOTH THE ARCHITECT AND THE OWNER
C) FINALIZE CHANGES ON PLANS AND SPECIFICATIONS AND MARK ALL APPROVED BUILDINGS DEPARTMENT, FIRE MARSHALL AND OWNER CHANGES ON A SET OF COPIES FOR BOTH OWNER ARCHITECT AND FORWARD SUCH INFORMATION TO BOTH PARTIES VIA COURIER. MARKUPS SHALL BE COMPLETED USING A CLOUD PROCEDURE WITH A MAGIC MARKER TO EASILY DISTINGUISH CHANGES FROM ORIGINAL WORK.

29.0 IF THE OWNER OR ARCHITECT DO NOT MAKE REPEATED SITE VISITS CONTINUALLY OR AT ALL, THE GENERAL CONTRACTOR IS NOT RELIEVED OF ANY RESPONSIBILITY OR DUTIES INVOLVED IN THIS CONSTRUCTION WORK.

30.0 THE CONSTRUCTION DRAWINGS LISTED ON THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BASED ON THE BEST INFORMATION AVAILABLE DURING PREPARATION OF PLANS. IN THE EVENT THAT PROBLEMS ARISE DURING THE COURSE OF THE PROJECT, DUE TO UNKNOWN SITE CONDITIONS OR CODE AND REQUIREMENTS (IF ANY) THAT CONFLICT WITH DRAWINGS, THE GENERAL CONTRACTOR SHALL INFORM THE ARCHITECT IMMEDIATELY.

31.0 THE PROPER RECEIPT OF ALL NEW MATERIALS AND EQUIPMENT AT THE JOB SITE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, AND/OR HIS/HER SUBCONTRACTORS (IF ANY). SECURE AND SAFE STORAGE OF ALL NEW AND EXISTING MATERIALS AND EQUIPMENT TO REMAIN (IF ANY) WILL BE PROVIDED BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR TO IMMEDIATELY ADVISE CONSTRUCTION DEPT. OF ALL DAMAGED OR DEFICIENT SHIPMENTS OF MATERIALS AND EQUIPMENT, WHETHER SUPPLIED BY TENANT OR DIRECTLY BY CONTRACTOR OR HIS/HER SUPPLIERS. GENERAL CONTRACTOR TO COMPLETE AND SUBMIT ALL NECESSARY PAPERWORK AND ARRANGE INSPECTIONS OF DAMAGED GOODS AS PER TENANT CONSTRUCTION DEPT. REQUIREMENTS.

32.0 THE GENERAL CONTRACTOR IS REQUIRED TO ADHERE TO ALL NEW REQUIREMENTS, STATED OR NOT ON THESE PLANS AND SPECIFICATIONS, FOR THE LATEST A.D.A. LAW EFFECTIVE JANUARY 26, 1992. THIS LAW IS A CIVIL RIGHTS LAW AND THE EXCLUSION OF REQUIREMENTS BY THE LOCAL CODE OFFICIALS DOES NOT RELIEVE THE TENANT OR THE TENANT'S CONTRACTOR OF ADHERING TO THESE NECESSARY WORK, EITHER DURING CONSTRUCTION OR AFTER OCCUPANCY.

33.0 QUALITY STANDARDS: ALL SUCH WORK SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER AND SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION THEREOF. GENERAL CONTRACTOR SHALL REQUIRE ANY PERSON PERFORMING ANY SUCH WORK TO GUARANTEE THE SAME TO BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND MATERIALS FOR ONE (1) YEAR FROM THE DATE OF COMPLETION THEREOF. OWNER SHALL ALSO REQUIRE ANY SUCH PERSON TO BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR WITHOUT ADDITIONAL CHARGE, OF ANY AND ALL WORK DONE OR FURNISHED BY OR THROUGH SUCH PERSON, WHICH SHALL BECOME DEFECTIVE WITHIN ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION OF THE WORK. THE CORRECTION OF SUCH WORK SHALL INCLUDE, WITHOUT ADDITIONAL CHARGE, ALL EXPENSES AND DAMAGES IN CONNECTION WITH SUCH REMOVAL, REPLACEMENT OR REPAIR OF ANY PART OF THE WORK WHICH MAY BE DAMAGED OR DISTURBED THEREBY. ALL WARRANTIES OR GUARANTEES AS TO MATERIALS OR WORKMANSHIP ON OR WITH RESPECT TO OWNER'S WORK SHALL BE CONTAINED IN THE CONTRACT OR SUBCONTRACT WHICH SHALL INURE TO THE BENEFIT OF OWNER, AND CAN BE DIRECTLY ENFORCED BY HIM/HER. GENERAL CONTRACTOR TO HAVE THIS CLAUSE IN EVERY SUBCONTRACTOR AGREEMENT FOR THE PROJECT AND IF SUCH CLAUSE IS NOT INCLUDED, IT WILL NOT RELIEVE THE GENERAL CONTRACTOR OF THE REQUIREMENTS OR WORK STATED HEREIN.

34.0 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT, UNLESS CONTRACT DOCUMENTS GIVE OTHER SPECIFIC INSTRUCTIONS CONCERNING THESE MATTERS. SEE AIA DOCUMENT A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ARTICLE 3, SECTION 3.3.1 (1987 EDITION)

35.0 THE ARCHITECT SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT FOR CONSTRUCTION.

36.0 THE GENERAL CONTRACTOR AND/OR HIS/HER SUBCONTRACTOR IS TO COMPLETE ALL FINISHES AS PER PLANS AND SPECIFICATIONS. THE FINISHES NOTED MAY FOR VARIOUS REASONS BE CHANGED BASED ON AVAILABILITY AND/OR APPROVAL OF DIFFERENT MANUFACTURES AND/OR HIS/HER SUBCONTRACTOR WILL BE REQUIRED TO ADHERE TO THE EXACT SPECIFICATION ON DRAWINGS, BASED ON THE TYPE OF SUBSTRATE AND/OR THE SUBSTRATE PREPARATION, AND CORRECT APPLICATION AND/OR NECESSARY WORK FOR PROPER ADHESION AND/OR EXPANSION/CONTRACTION OF THE FINISH MATERIAL OR SUCH SUBSTRATE.

37.0 IF THERE IS A DISCREPANCY BETWEEN A SMALLER DETAIL OR PLAN REGARDING INFORMATION, SIZING, MEASURING, ETC., AND A LARGER DETAIL OR PLAN, THE GENERAL CONTRACTOR AND/OR THE SUBCONTRACTOR WORKING ON THE DETAIL/PLAN IS TO CONTACT THE ARCHITECT OR THE ARCHITECT'S REPRESENTATIVE PRIOR TO STARTING THAT PARTICULAR WORK.

38.0 THE CONSTRUCTION DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONDITIONS, ETC.) REFER TO EXISTING CONDITIONS AT THE SITE AT THE TIME THE DOCUMENT'S PRODUCTION COMMENCED. THE ARCHITECTS ARE NOT RESPONSIBLE FOR ANY ADDITIONAL DESIGN WORK RELATED TO DAMAGE, ALTERATIONS, OR CONSTRUCTION WORK PERFORMED ON SITE AFTER MENTIONED DATE.

39.0 WORDS "SUPPLY", "INSTALL", "PROVIDE", "REPLACE", ETC, REFER TO NEW MATERIALS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AS PART OF THE CONSTRUCTION CONTRACT, UNLESS SPECIFIED OTHERWISE ON INSTALLATION DETAILS WHERE NOT ALL MATERIALS OR PROCEDURES ARE SPECIFIED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PARTS AND SHALL CARRY ON ALL STANDARD GOOD CONSTRUCTION PRACTICE METHODS.

40.0 ALL METAL, CONCRETE, CONCRETE COMPOSITE, GYPSUM BOARD, MASONRY, WOOD AND OTHER MATERIAL INTERIOR AND EXTERIOR SURFACES, EITHER NEW OR EXISTING, EXCLUDING DOOR AND WINDOW HARDWARE, ACOUSTIC CEILINGS, FLOOR FINISHES, CERAMIC TILES AND GLASS SURFACES, SHALL BE PAINTED ACCORDING TO PAINT SPECIFICATIONS. THIS INCLUDES ALL CEILINGS, WALLS, RAILINGS, HANDRAILS, PARAPETS, GATES, FIXED GRILLES, DOORS, DOOR FRAMES, WINDOWS, ETC, CLEAN AND PREPARE ALL SURFACES AS PER PAINT SPECIFICATIONS BEFORE APPLYING NEW PAINT, THE ARCHITECT SHALL SUBMIT THE COLOR SCHEMES.

41.0 ACCESS TO THE PROJECT SHALL BE COORDINATED WITH OWNER BEFORE CONSTRUCTION COMMENCEMENT. CONSTRUCTION SITE ACCESS SHALL BE CONTROLLED BY THE CONTRACTOR AND ALL HIS EMPLOYEES SHALL BE DULY IDENTIFIED.

42.0 THE CONTRACTOR SHALL MAINTAIN A GRAPHIC AND WRITTEN RECORD OF ALL CHANGES IN THE DRAWINGS TO SUBMIT TO THE OWNER AT THE END OF THE CONSTRUCTION.

43.0 THE ARCHITECT HAS THE PREROGATIVE OF CHARGING A FEE OF $125.00 PER HOUR FOR THE REVISION OF SUBSTITUTIONS PRESENTED BY THE CONTRACTOR DURING THE BID OR CONSTRUCTION PERIODS.

44.0 THE CONTRACTOR SHALL TAKE INTO ACCOUNT ALL PRECAUTIONS NOT TO DAMAGE EXISTING TREES AND/OR PLANTS TO REMAIN.

45.0 ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AIR CONDITIONING AND STRUCTURAL EQUIPMENT AND/OR INSTALLATION DETAIL SHALL BE INCLUDED IN THE BASE BID EVEN THOUGH THEY ONLY APPEARS ON ARCHITECTURAL DRAWINGS (AND NOT ON ELECTRICAL, STRUCTURAL, MECHANICAL OR CIVIL DRAWINGS) OR ON ELECTRICAL, STRUCTURAL, MECHANICAL OR CIVIL DRAWINGS (AND NOT ON ARCHITECTURAL DRAWINGS), THE CONTRACTOR SHALL VERIFY THE DRAWINGS BEFORE SUBDIVIDING THE DRAWING SETS FOR SUBCONTRACTOR QUOTATIONS.

46.0 THE CONTRACTOR SHALL INSTALL SIGNS FOR THE HANDICAPPED ON WALLS NEXT TO RAMPS, COMPLYING WITH THE ADA CODE. SUBMIT SAMPLE FOR THE ARCHITECT'S APPROVAL.

47.0 ALL MATERIAL SPECIFIED MUST BE INSTALLED OR APPLIED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

48.0 THE CONSTRUCTOR MUST SUBMIT FINISH SAMPLES FOR THE ARCHITECT'S APPROVAL.

49.0 ALL CONCRETE, CONCRETE BLOCK WALLS & CEILINGS TO BE PLASTERED, UNLESS OTHERWISE NOTED.

50.0 THIS IS A PUBLIC BID THEREFORE WHENEVER AND WHEREVER ON THIS PLANS REFERENCE IS MADE TO A SPECIFIC PRODUCT BRAND OR SUPPLIER THE GENERAL CONTRACTOR SHALL UNDERSTAND THAT AN EQUAL OR SIMILAR MATERIAL OR COMPONENT CAN BE SUBMITTED FOR EVALUATION AND POSSIBLE APPROVAL OR DISAPPROVAL OF THE ARCHITECT.

51.0 CONSTRUCTION TIME & REQUIREMENT FOR THIS PROJECT REFER TO CONTRACT DOCUMENTS.

52.0 CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE STREETS, SIDEWALKS AND BUILDING AREAS TO FAMILIARIZE WITH THE EXTENT OF EXISTING ELEMENTS TO BE DEMOLISHED AND REMOVED. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING ALL DEMOLISHED MATERIALS AND EQUIPMENT AWAY FROM THE SITE AT NO COST TO THE OWNER.

53.0 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO ACTUAL CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES, ERRORS OR OMISSIONS, SO THAT PROPER CORRECTIONS ARE MADE. ALL CHANGES AND REVISIONS TO THE EXTENT OF WORK WILL BE AT NO EXTRA COST TO THE OWNER.

54.0 THE CONTRACTOR SHALL COORDINATE OR VERIFY THE LOCATION OF EXISTING UTILITIES, SUCH AS TELEPHONE, ELECTRICAL CONDUITS, SANITARY, WATER AND STORM SEWER LINES. PRIOR TO PROCEED WITH ANY EXCAVATION OR CONSTRUCTION, IN CASE OF INTERFERENCE WITH EXISTING CONDITION, THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER AT NO COST TO THE OWNER.

55.0 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTIONS TO EXISTING UTILITIES, SUCH US TELEPHONE, ELECTRICAL CONDUITS, SANITARY, WATER AND STORM SEWER LINES WITH NO EXPOSED ENDS, UNLESS OTHERWISE NOTED.

56.0 ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.

57.0 PROVISIONS FOR DETAIL, NOT SPECIFICALLY DRAWN, SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH ACI 318 BUILDING CODE AND/OR CLARIFIED WITH THE DESIGNER.

58.0 ALL DETAILING AND CONSTRUCTION TO BE MADE IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE" (ACT 315), "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACT 318) AND ALL OTHER AMERICAN CONCRETE INSTITUTE STANDARDS AND RECOMMENDATIONS FOR ACCEPTABLE PRACTICES.

59.0 IN CASE OF DOUBT IN THE INTERPRETATION OF ALL ASPECT IN THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATIONS, THE DESIGNER SHALL BE CONSULTED.

60.0 THE CONTRACTOR SHALL REPAIR, CLEAN, AND RESTORED TO FINISHED GRADE, AS REQUIRED ALL CURBS, SIDEWALKS AND AREAS AFFECTED DURING THE CONSTRUCTION OPERATION, DUE TO THE MOVEMENT OF HEAVY EQUIPMENT OR THE TEMPORARY STOCKING OF CONSTRUCTION MATERIALS, AT NO ADDITIONAL COST TO THE OWNER, IN ORDER TO MINIMIZE DAMAGE, THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER AND LIMIT TO A MINIMUM THE USE OF AREAS FOR SITE MOVEMENT AND STORAGE OF MATERIALS AND EQUIPMENT.

61.0 CONTRACTOR SHALL REMOVE FROM THIS SITE SCRAP MATERIAL OR ANY OTHER ELEMENT DISCARDED WITHIN THE PROJECT. THIS MAY REQUIRE INSPECTION, HANDLING AND/OR DISPOSAL AT CONTRACTOR OWN EXPENSE.

62.0 THE CONTRACTOR IS ADVISED TO INSPECT THE SITE PRIOR TO HIS BIDDING TO ASCERTAIN THE EXTENT OF WORK REQUIRED IN THE DEMOLITION AND REMOVAL OF EXISTING STRUCTURES AND/OR ELEMENTS.

63.0 DURING DEMOLITION AND CONSTRUCTION WORK, INCLUDING EXCAVATIONS, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES, SUCH AS SANITARY, WATER AND STORM SYSTEMS BUILDING CONNECTIONS, AND UNDERGROUND ELECTRICAL FACILITIES, ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR WITHIN 12 HOURS OF ITS OCCURRENCE WITHOUT ADDITIONAL COMPENSATION.

64.0 WHERE REQUIRED, CONCRETE WATER VALVE BOXES, CATCH BASINS AND MANHOLES SHALL BE RAISED OR LOWERED TO MATCH PROPOSED GRADING AND PROVIDED NEW COVER, STANDARD GRATING, OR STANDARD MANHOLE COVER, MANHOLES OR VALVE BOXES HIGHER THAN THE PROPOSED GRADING MAY REMAIN UNALTERED IF DRAINAGE IS NOT IMPAIRED.

65.0 CONSTRUCT WHEEL CHAIR RAMPS AT CORNER WHERE SIDEWALK IS REPLACED OR NEW SIDEWALK INSTALLED.

65.0 THE MAXIMUM CONTROL JOINT SPACING AT CURB AND SIDEWALK IS 3 METERS, JOINT MUST BE 0.003 METERS WIDE.

67.0 FORMS SHALL BE OF METAL AND SHALL EXTEND FOR THE FULL DEPTH OF THE CONCRETE. WOODEN FORMS MAY BE USED, WHEN AUTHORIZED BY THE ENGINEER, ON SHORT RADIUS CURVES SUCH AS AT STREET INTERSECTIONS AND AT SUCH OTHER LOCATIONS FOR WHICH CURVED METAL FORMS MAY NOT BE AVAILABLE. ALL FORMS SHALL BE FREE FROM WARP AND OF SUFFICIENT STRENGTH TO RESIST THE PRESSURE OF THE CONCRETE WITHOUT DISPLACEMENT. BRACING AND STAKING OF FORMS SHALL BE SUCH THAT THE FORMS OF REMAIN IN BOTH HORIZONTAL AND VERTICAL ALIGNMENT UNTIL THEIR REMOVAL. ALL FORMS SHALL BE CLEANED AND COATED WITH AN APPROVED FORM RELEASE AGENT OR FORM OIL BEFORE CONCRETE IS PLACED. DIVIDER PLATES SHALL BE OF METAL. FORMS SHALL CONFORM TO THE SPECIFIED RADIUS WHEN PLACED ON CURVES.

68.0 WHERE EXISTING SIDEWALK IS BEING RECONSTRUCTED AND WHERE NEW SIDEWALK IS BEING BUILT ALONG LOCAL ROADS, THE CONTRACTOR SHALL INSTALL CURB AND GUTTER TYPE AS SPECIFIED AND AS SHOWN IN PLANS.

69.0 SAW CUT SHALL BE MADE AT THE BOUNDARIES OF EXISTING ASPHALT OR CONCRETE PAVEMENT AND A NEW OR EXISTING SIDEWALK TO BE RECONSTRUCTED AT LEAST 2 INCHES DEEP.

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explication

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MAX OCCC III
EXP. 19.X.2021

CERTIFICACIÓN - COTPRMTS - NÚM. NAME

COLEGIO DE ARQUITECTOS Y ARQUITECTAS DE PUERTO RICO, EL COLEGIO DE INGENIEROS Y AGRIMENSORES DE PUERTO RICO, EL COLEGIO DE INGENIEROS, AGRIMENSORES Y ARQUITECTOS DE PUERTO RICO Y EL COLEGIO DE PROFESIONALES DE LA CONSTRUCCIÓN DE PUERTO RICO

CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN EN ESTE PROYECTO.

JURISDICCIÓN, CERTIFICO: QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES EN LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN EN ESTE PROYECTO.

ESTE PROYECTO ES POR NATURALEZA, EXCLUSIVO, Y POR LO TANTO, SU USO EN OTRO LUGAR PODRÍA CONSTITUIR UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR DEL ARQUITECTO. EL USO DE ESTE DISEÑO EN OTRO LUGAR REQUIERE LA AUTORIZACIÓN POR ESCRITO DEL ARQUITECTO.

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PROJEC

tres pulgadas = un pie
pulgada y media = un pie
una pulgada = un pie
media pulgada = un pie
un cuarto de pulgada = un pie
un octavo de pulgada = un pie
un dieciseis de pulgada = un pie
un treinta y dos de pulgada = un pie

General Demolition Notes

ALL INFECTION CONTROL CRITERIA AS SPECIFIED IN SECTION 01 00 00 - GENERAL REQUIREMENTS - SHALL BE ADHERED TO DURING ALL PHASES OF THE PROJECT.

1. THE DEMOLITION DRAWINGS FOR ARCHITECTURAL AND ENGINEERING WORK HAVE BEEN PREPARED USING "MEASURED DRAWINGS/AS-DESIGNED" DOCUMENTS PROVIDED BY THE OWNER. NEITHER THE OWNER NOR THE ARCHITECT WARRANT THESE TO BE "AS-BUILT" DOCUMENTS, AND ACTUAL CONDITIONS MAY VARY. THE DEMOLITION WORK INDICATED IS INTENDED TO SHOW THE GENERAL SCOPE OF THE DEMOLITION WORK AND IN NO WAY RELIEVES THE CONTRACTOR FROM PERFORMING ANY AND ALL DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
2. DEMOLITION NOTES INDICATED ON DRAWINGS MAY NOT BE ALL INCLUSIVE. REMOVE ALL ITEMS REQUIRED FOR RECONSTRUCTION ACTIVITIES.
3. VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE ARCHITECT IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
4. ALL STRUCTURAL ELEMENTS SHALL BE PROTECTED DURING DEMOLITION & THROUGHOUT CONSTRUCTION.
5. ALL DEMOLISHED MECHANICAL AND ELECTRICAL ITEMS SHALL BE REMOVED INCLUDING MAIN RUNS AND SERVICE LINES TO SOURCE. ALL SYSTEM LINES ARE NOT SHOWN ON CONSTRUCTION DOCUMENTS.
6. ALL WALLS, SUB-STRUCTURAL FRAMES, PARTITIONS, EQUIPMENT, ETC. INDICATED BY DASHED LINES (----) SHALL BE REMOVED. ALL MECHANICAL, ELECTRICAL, PLUMBING AND OTHER SERVICES WHICH ARE CONTAINED IN THE AREA TO BE REMOVED SHALL ALSO BE REMOVED OR REROUTED. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH NEW CONSTRUCTION BEFORE STARTING DEMOLITION.
7. AFTER REMOVAL OF EXISTING FLOOR FINISH, CONCRETE FLOOR SHALL BE GROUND SMOOTH AND LEVELED BEFORE INSTALLATION OF NEW FINISH PER ROOM FINISH SCHEDULE. AT DISSIMILAR FLOOR ELEVATIONS, FEATHER SELF-LEVELING UNDER-LAYMENT COMPOUND TO EACH FLOOR ELEVATION AND GRIND SMOOTH. AT DISSIMILAR FLOOR MATERIALS, AND/OR AT JUNCTIONS BETWEEN NEW AND EXISTING FLOORS, PROVIDE APPROPRIATE TRANSITION STRIP.
8. WHERE EXISTING DOORS, DOOR FRAMES, EQUIPMENT, PORTIONS OF WALLS AND PARTITIONS ARE REQUIRED TO BE REMOVED FOR THE COMPLETION OF THE WORK, EXERCISE CAUTION TO AVOID DISRUPTING SURROUNDING MATERIALS. SALVAGE EXISTING MATERIALS AS MUCH AS POSSIBLE FOR REUSE IN PATCHING SURROUNDING FINISHES WHEN APPROVED BY THE OWNER'S REPRESENTATIVE OR INDICATED ON CONSTRUCTION DRAWINGS.
9. WHERE REMOVAL OF EXISTING WALLS, PARTITIONS, EQUIPMENT, ETC. DISRUPTS EXISTING ELECTRICAL, MECHANICAL AND PLUMBING SERVICES, MAKE PERMANENT (OR IF NECESSARY, PROPER TEMPORARY) CONNECTIONS TO RESTORE AFFECTED SERVICES TO ORIGINAL CONDITION IN AREAS NOT SCHEDULED FOR DEMOLITION AND REMODELING.
10. REPAIR ANY DAMAGE TO ITEMS INDICATED TO REMAIN AS A RESULT OF DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. SEE SITE, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
11. ERECT AND MAINTAIN TEMPORARY CONSTRUCTION BARRIERS. COORDINATE LOCATIONS WITH CONSTRUCTION DOCUMENTS, PROJECT PHASING, ARCHITECT AND OWNER'S REPRESENTATIVE.
12. MAINTAIN CLEAR EXIT PATHS DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
13. UTILITIES/MEDICAL SYSTEM SHUTDOWNS (INCLUDING MEDICAL GASES) SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE, PER THE SPECIFICATIONS.
14. PRIOR TO MOBILIZATION, OR WORK COMMENCEMENT, THE CONTRACTOR SHALL COMMUNICATE IN WRITING THE PRESENCE/ABSENCE OF ASBESTOS OR LEAD IN ANY PART OF THE EXISTING STRUCTURE.
15. THE CONTRACTOR IS RESPONSIBLE FOR ASBESTOS ABATEMENT AND SHALL COORDINATE SUCH ABATEMENT WITH DEMOLITION WORK.
    A. THE OWNER BELIEVES THAT A CERTAIN AMOUNT OF THE EXISTING TILE HAS ASBESTOS-BASED MASTIC.
    B. THE OWNER BELIEVES THAT EXISTING LEAD BASED PAINT MAY BE PRESENT IN HE EXISTING STRUCTURE.
16. ALL DEMOLITION WORK SHALL BE PERFORMED WITH "DUE CARE AND DILIGENCE" SO AS TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH COULD NOT BE PREDETERMINED UNTIL DEMOLITION WAS STARTED. ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A LOCATION DIFFERENT FROM FLOOR TO FLOOR, ETC., OR ARE UNIDENTIFIED, SHALL BE REPORTED TO THE ARCHITECT BEFORE REMOVAL FOR FINAL DISPOSITION.
17. REMOVE PORTIONS OF EXISTING CONSTRUCTION AS DRAWN AND PATCH TO MATCH ADJACENT CONSTRUCTION. PATCH TO MATCH ADJACENT SURFACES OF EXISTING WALLS AND FLOORS IN ALL AREAS REQUIRED DUE TO THE REMOVAL OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT OR FIXTURES. NEW WORK SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED.
18. WHERE DEMOLITION WORK UNCOVERS OR LEAVES OPENINGS IN PARTITIONS OR INCOMPLETE PARTITIONS, EXTEND, RESTORE, AND/OR CLOSE OPENING IN PARTITION AS INDICATED AND/OR AS REQUIRED TO MAINTAIN FIRE RATINGS. MATCH EXISTING CONSTRUCTION, U.N.O., WITHIN THE LIMITS AND TOLERANCES FOR MATERIALS AS SPECIFIED OR RECOMMENDED BY THE MANUFACTURER. REFINISH SURFACES TO ALIGN FLUSH WITH EXISTING.
19. WHERE DEMOLITION WORK OR RELOCATION OF EXISTING ITEMS LEAVES UNFINISHED SURFACES AND/OR SUBSTRATES, CUT AND PATCH AS REQUIRED TO RESTORE SUBSTRATE AND/OR FINISH MATERIAL EVEN AND FLUSH WITH ADJOINING SURFACES. TEXTURE AND REFINISH TO MATCH EXISTING UNLESS NOTED OTHERWISE.
20. APPLY SELF-LEVELING COMPOUND TO FLOORING WHERE CMU WALLS ARE DEMOLISHED. GRIND FLOOR PRIOR TO APPLYING SELF-LEVELING COMPOUND IF REQUIRED TO ALLOW FOR LEVEL FLOOR SURFACE.
21. WHERE DEMOLITION OR RELATED WORK LEAVES FLOOR SURFACES WITH IMPERFECTIONS OR NOT LEVEL TO TOLERANCES SPECIFIED FOR NEW WORK, PROVIDE SELF-LEVELING UNDERLAYMENT.
22. REMOVAL OF EXISTING FIXTURES AND EQUIPMENT WILL REQUIRE ISOLATING THE PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. INSTALL NEW ISOLATION VALVES WHERE REQUIRED FOR COMPLETION OF WORK.
23. REMOVAL OF EXISTING PLUMBING FIXTURES AND EQUIPMENT, ETC. WILL REQUIRE CAPPING AND SEALING EXISTING MAINS OR BRANCHES AS NECESSARY AND REQUIRED TO ALLOW THE REMAINING SYSTEMS TO FULLY OPERATE WITHOUT DEGRADATION. CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK, AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK. REFER TO GENERAL CONDITIONS AND DIVISION 1 SECTIONS IN THE SPECIFICATIONS.
24. ALL DRAINED PIPING RISERS AND MAINS SHALL BE REFILLED WITH PROPER FLUID AND PROPERLY VENTED BY THE CONTRACTOR, ONCE NEW WORK HAS BEEN INSTALLED.
25. CEILINGS WHICH ARE IN CONFLICT WITH NEW WORK SHALL BE REMOVED OR RELOCATED ALONG WITH ALL MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS. COORDINATE WITH GENERAL CONTRACTOR THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILINGS, WALLS, ETC. AS REQUIRED FOR THE SPECIFIC WORK.
26. EXISTING PIPING AND EQUIPMENT, ETC., NOT TO BE UTILIZED IN THE COMPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED AS REQUIRED. ALL ENDS OF DISCONTINUED PIPING SHALL BE CAPPED IN THE NEAREST WALL, CEILING OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. OPENINGS LEFT IN WALLS, CEILINGS, ETC., WHERE EQUIPMENT AND PIPE, ETC., ARE REMOVED AND NOT REPLACED, SHALL BE PATCHED NEATLY WITH SIMILAR MATERIAL TO ADJACENT CONSTRUCTION. REFER TO DRAWINGS DELINEATING NEW WORK FOR ADDITIONAL INFORMATION REGARDING SYSTEMS OR PORTIONS OF SYSTEMS WHERE USE IS TO BE DISCONTINUED.
27. WHEREVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC., ARE REQUIRED TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGARS, BRACING, FOUNDATION, ETC. AFTER REMOVAL, AFFECTED CONSTRUCTION AND SURFACES, SUCH AS FLOORS ,WALLS, BASES, AND CEILINGS, SHALL BE FINISHED TO MATCH ADJACENT SURFACES UNLESS OTHERWISE NOTED.
28. EXISTING PIPING, FIXTURES AND EQUIPMENT THAT ARE NOT TO BE REUSED SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE OWNER IF THEY WISH TO RETAIN OWNERSHIP OF SAME. IF NOT, EQUIPMENT SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AS SOON AS PRACTICAL AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
29. ALL CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
30. WHERE EXISTING PIPING AND EQUIPMENT, ETC., THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.
31. PORTIONS OF EXISTING SYSTEMS MAY BE SHOWN FOR CLARITY EVEN THOUGH IT MAY NOT BE NECESSARY TO MODIFY OR REVISE THEM. ALL EXISTING SYSTEMS ARE SHOWN BASED ON ORIGINAL OR REMODEL BUILDING DRAWINGS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.
32. ALL WORK MUST BE COORDINATED AND SCHEDULED WITH THE OWNER AND OCCUPANTS OF THIS BUILDING SO AS TO PROVIDE THE LEAST AMOUNT OF DISRUPTION OF BUILDING ACTIVITIES AS POSSIBLE.
33. ALL ACCESSIBLE ABANDONED PIPING AND DUCTWORK SHALL BE REMOVED AND PROPERLY DISPOSED OF.
34. CONTRACTOR SHALL REPAIR ALL SURFACES TO LIKE NEW AFTER TEMPORARY WALLS AND DOORS HAVE BEEN REMOVED.

Demolition Keynotes

Accessories/Miscellaneous

- A1 REMOVE AND DISPOSE OF EXISTING TOILET
- A2 REMOVE AND DISPOSE OF EXISTING COUNTERTOP, SHELVING, AND WORKSTATION
- A3 REMOVE AND DISPOSE OF EXISTING CANOPY AND RELATED ITEMS

Ceiling

- C1 REMOVE AND DISPOSE OF EXISTING CEILING SYSTEM.
- C2 REMOVE AND DISPOSE OF EXISTING TRACKS.
- C3 REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURES.

Doors and Frames

- D1 REMOVE AND DISPOSE OF EXISTING DOOR, FRAME, HARDWARE AND SIDELIGHT.
- D2 REMOVE AND DISPOSE OF EXISTING SLIDING DOOR, FRAME, HARDWARE AND RELATED ITEMS.
- D3 REMOVE AND DISPOSE OF EXISTING BI-FOLDING DOOR, FRAME, HARDWARE AND RELATED ITEMS.
- D4 NOT USED.

Floor

- F1 REMOVE AND DISPOSE OF EXISTING FLOOR COVERING TO SLAB.
- F2 REMOVE AND DISPOSE OF EXISTING CONCRETE WALKWAY/ STOOP.
- F3 REMOVE AND DISPOSE OF EXISTING RECESSED WALK OFF FLOOR MAT AND FLOOR COVERING LEVEL RECESS WITH SELF LEVELING UNDER-LAYMENT COMPOUND.
- F4 REMOVE AND DISPOSE OF EXISTING..
- F5 REMOVE AND DISPOSE OF EXISTING..

Mechanical/Plumbing

- M1 REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE (UTILITY SINK, FLOOR DRAIN, WATER CLOSET, URINAL, SHOWER AND/OR LAVATORY), RE: MEP.
- M2 NOT USED.
- M3 REMOVE AND DISPOSE OF EXISTING FIN TUBE RADIATOR, RE: MEP.
- M4 REMOVE AND DISPOSE OF EXISTING FAN COIL UNIT HEATER, RE: MEP.
- M5 NOT USED.

Partitions

- P1 REMOVE AND DISPOSE OF EXISTING MASONRY PARTITION AND RELATED ITEMS.
- P2 REMOVE AND DISPOSE OF EXISTING STUD PARTITION AND RELATED ITEMS.
- P3 REMOVE AND DISPOSE OF EXISTING STUD PARTITION/ FURRING AND RELATED ITEMS AROUND COLUMN. STEEL COLUMN SHALL REMAIN.
- P4 REMOVE AND DISPOSE OF EXTERIOR WALL SYSTEM AND RELATED ITEMS.
- P5 NOT USED.

Protection Notes

1. GENERAL: CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION TO REMAIN AS REQUIRED TO PREVENT DAMAGE. ALL EXISTING MATERIALS, SURFACES, EQUIPMENT, ETC. DAMAGED DURING THE WORK SHALL BE REPAIRED TO THE OWNER'S REPRESENTATIVE SATISFACTION OR REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER. PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO THE START OF ALL DEMOLITION, AND MAINTAINED THROUGHOUT CONSTRUCTION AS NEEDED.
2. COORDINATE LOCATION AND TYPE OF ALL PROTECTION BARRIERS WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
3. PROVIDE FLOOR PROTECTION COVERINGS AS REQUIRED TO PREVENT DAMAGE TO EXISTING FLOOR COVERINGS AND FINISHES TO REMAIN THROUGHOUT ALL CONSTRUCTION AND DEMOLITION ACTIVITY.
4. EXISTING EMERGENCY EXITS MUST BE MAINTAINED ACCESSIBLE DURING THE PERIOD OF CONSTRUCTION
5. CONTRACTOR SHALL SEAL ALL DOOR OPENINGS AND HVAC OPENINGS IN ALL AREAS OF DEMOLITION AND CONSTRUCTION PRIOR TO CUTTING, SANDING, ETC. TO PREVENT DUST MIGRATION TO ADJACENT ROOMS.
6. CONTRACTOR SHALL PROVIDE TEMPORARY WEATHER PROTECTION FOR ALL EXTERIOR OPENINGS WHERE DOORS, WINDOWS, LOUVERS, ROOF HATCHES AND ROOF EQUIPMENT OPENINGS ARE REMOVED OR WHERE NEW EXTERIOR OPENINGS ARE INSTALLED UNTIL PERMANENT ITEMS OR WEATHER PROTECTION ARE INSTALLED.

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explication

PROFESSIONAL SEAL

julián manriquez botello puerto rico
arquitecto licenciado
LIC: MXX DCCC III
EXP: 18.X.2025

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

YO, JULIÁN MANRIQUEZ BOTELLO, LICENCIA PROFESIONAL, CERTIFICO QUE SOY EL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA. RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE. THIS DRAWING AND ITS CONTENTS ARE THE INTELLECTUAL PROPERTY OF IN.FORMATION STUDIO LLC, AND SHALL BE USED AS A REFERENCE DOCUMENTS AND WORKING INSTRUMENT ONLY BY AUTHORIZED PERSONNEL AND FOR THE SPECIFIC PROJECT HEREIN DESIGNED. ANY, TOTAL, PARTIAL REPRODUCTION OR USE OF SAID DOCUMENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT THE WRITTEN CONSENT AND SHALL BE RETURNED TO IN.FORMATION STUDIO.

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e-mail: info@nformationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

General Demolition & Protection Notes

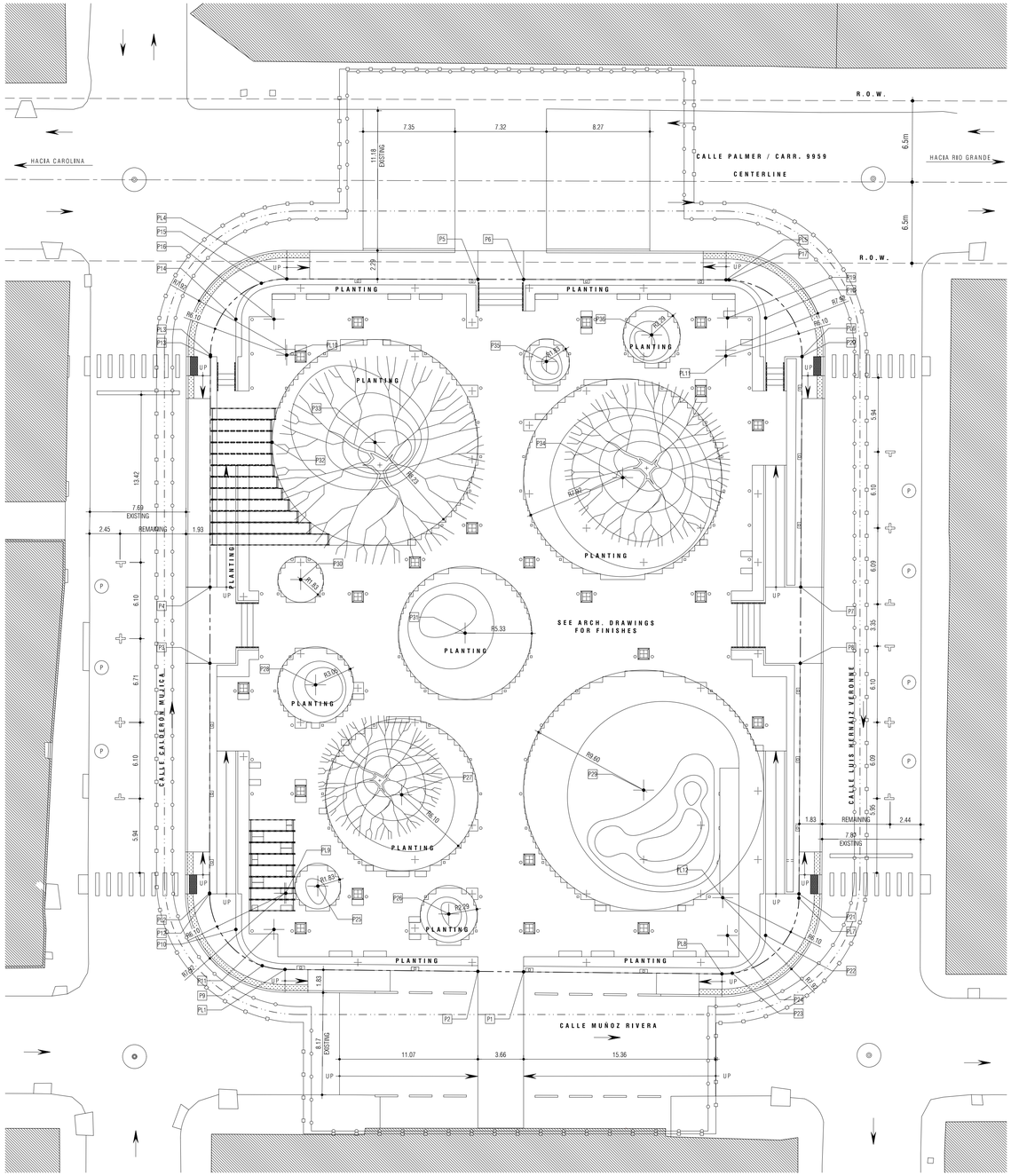
CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
4	jmb	05.ii.2024

DISCIPLINE

GDN-1.0


R.O.W.
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HACIA RIO GRANDE
CALLE PALMER / CARR. 9959
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6.5m
7.35
7.32
8.27
11.18
DISTING
PLANTING
SEE ARCH. DRAWINGS FOR FINISHES
CALLE CALDERÓN MUJICA
CALLE LUIS HERNÁIZ VERONNE
CALLE MUÑOZ RIVERA
REMAINING
EXISTING
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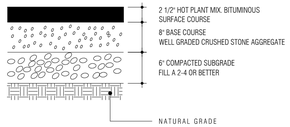
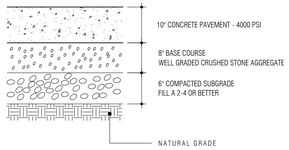
R1.83



Heavy Duty Asphalt Pavement Detail 1

NOT TO SCALE C-3.0



Heavy Duty Concrete Pavement Detail 2

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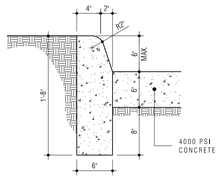
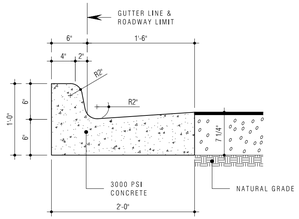


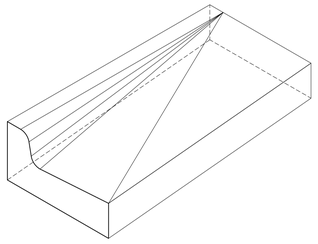
Standard Curb 3

SCALE : 1" = 1'-0" C-3.0



Curb Type 1 4

SCALE : 1" = 1'-0" C-3.0



Curb Type 1 - Transition 5

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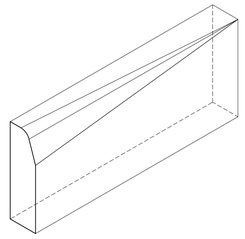
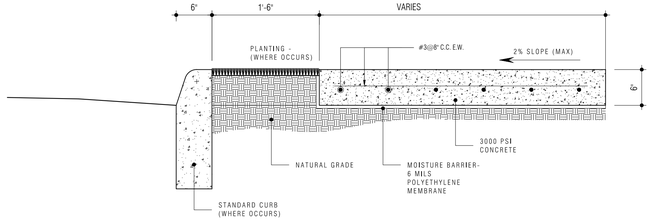


Curb Type 1 - Transition 6

NOT TO SCALE C-3.0



Concrete Sidewalk Detail 7

SCALE : 1" = 1'-0" C-3.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL



CERTIFICACIÓN - COTTIPRINTS - FIRM NAME

Y O
JULIAN MANRIQUEZ BOTELLO
LICENCIA NÚMERO 18,029
CERTIFICO: IDENTIFICADO Y PREPARE ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, Y QUE, A MI LEAL SABER Y ENTENDER, DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA DE CONSTRUCCION DE LA CUAL SE HACEN LOS MISMOS. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA ETICA PROFESIONAL Y LA LEY QUE REGULA EL EJERCICIO DE LA PROFESION DE INGENIERIA EN PUERTO RICO. LOS NUMEROS DE SELLO DE CERTIFICACION QUE APARECEN EN ESTOS PLANOS ESTAN VIGENTES AL MOMENTO DE SU PREPARACION Y FIRMA.
ESTOS PLANOS Y ESPECIFICACIONES NO PODRAN SER REVISADOS, ENMENDADOS O MODIFICADOS, O PARA CUALQUIER OTRO PROPOSITO, SIN LA AUTORIZACION ESCRITA DEL SUSCRITO. CUALQUIER ENMIENDA, REVISION O CAMBIO REALIZADO A ESTOS PLANOS Y ESPECIFICACIONES SIN LA AUTORIZACION ESCRITA DEL SUSCRITO, INVALIDARA LA CERTIFICACION AQUI EMITIDA Y EXIME AL SUSCRITO DE CUALQUIER RESPONSABILIDAD QUE SURJA DE DICHA ENMIENDA, REVISION O CAMBIO.
ESTE PROYECTO FUE DISEÑADO PARA SER CONSTRUIDO EN UNA SOLA FASE. CUALQUIER CAMBIO EN LA FASE DE CONSTRUCCION PUEDE AFECTAR LA INTEGRIDAD ESTRUCTURAL DE LA OBRA Y EXIME AL SUSCRITO DE CUALQUIER RESPONSABILIDAD QUE SURJA DE DICHO CAMBIO.
ESTOS PLANOS Y ESPECIFICACIONES SON PROPIEDAD INTELECTUAL DEL SUSCRITO Y NO SERAN USADOS EN NINGUNA OBRA QUE NO SEA EL PROYECTO INDICADO EN ESTOS DOCUMENTOS, SIN EL CONSENTIMIENTO ESCRITO DEL SUSCRITO. ESTOS PLANOS Y ESPECIFICACIONES NO PODRAN SER REPRODUCIDOS, ALTERADOS O MODIFICADOS SIN EL CONSENTIMIENTO ESCRITO DEL SUSCRITO. ESTOS PLANOS Y ESPECIFICACIONES SERAN DEVUELTOS AL SUSCRITO A LA TERMINACION DE LA OBRA.

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PROJECT TEE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

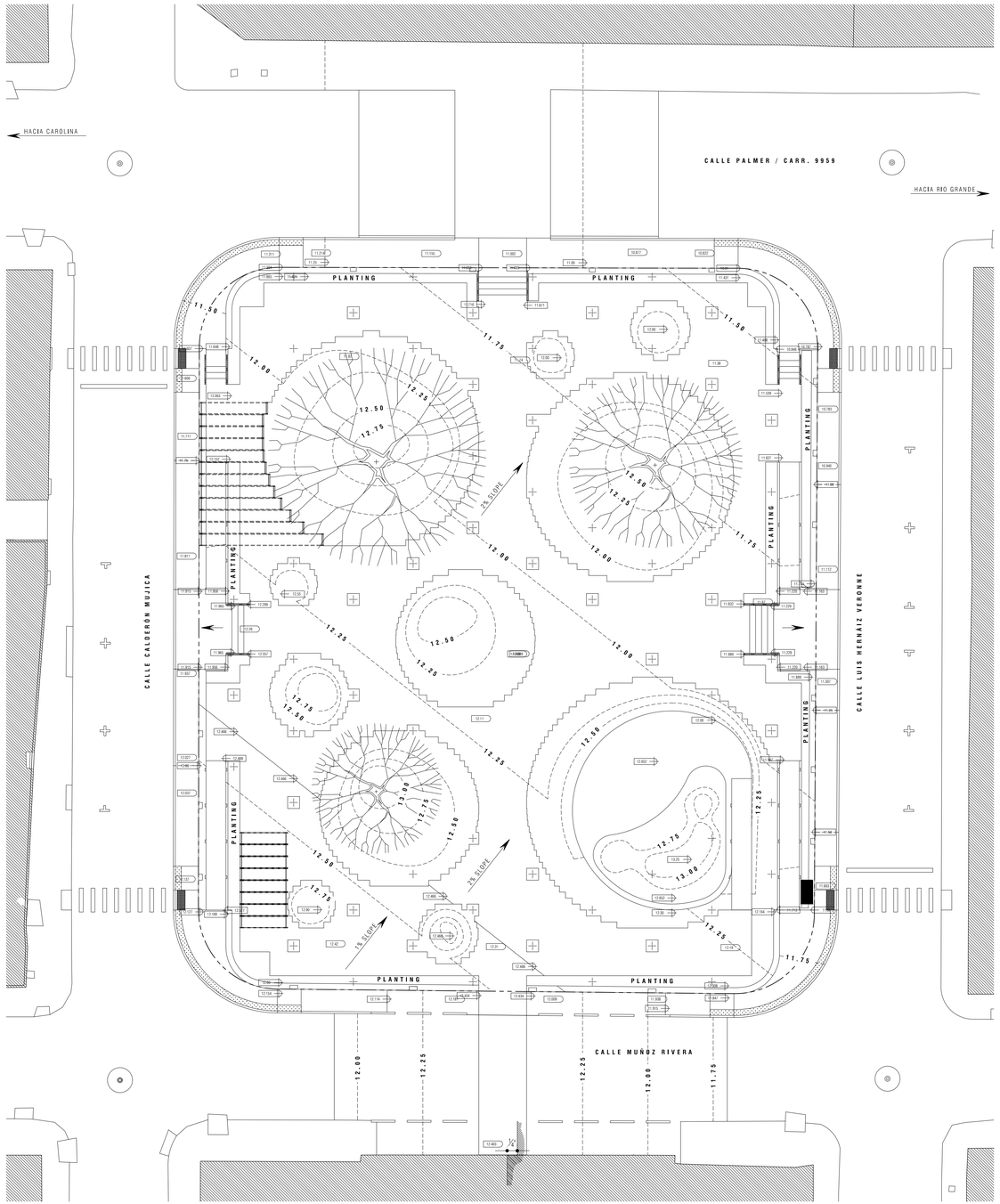
Civil Notes & Details

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 6
DRAWN BY jmb
DATE 05.ii.2024

DISCIPLINE

C-1.1



Grading Site Plan

SCALE : 1/16" = 1'-0"

Legend

- XX% — SLOPE
- RUNOFF FLOW
- 000.00' — EXISTING SPOT ELEVATION
- 000.00' — PROPOSED SPOT ELEVATION
- XX.XX — CONTOUR
- PROPERTY LINE

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manriquez botello puerto rico

LIC. SAS# DCCC-III EXP. 19 X 2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

[illegible] CERTIFICACIÓN [illegible] CERTIFICATION [illegible]

[illegible] CERTIFICADO Y PREPARADO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS [illegible] CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS [illegible] JURISDICCIÓN. CERTIFICO: QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LAS LEYES Y REGLAMENTOS APLICABLES POR LA PRESENTE. [illegible] ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LAS LEYES NÚMERO 93 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADAS, Y EL REGLAMENTO NÚM. 13 POR DECLARA-CIÓN JURADA, POR MI, MIS AGENTES O POR CUALQUIER PERSONA BAJO MI CONTROL O SUPERVISIÓN. [illegible] ESTOS PLANOS Y ESPECIFICACIONES HAN SIDO PREPARADOS, O APROBADOS, O PUESTOS BAJO MI SUPERVISIÓN O CONTROL DIRECTO. [illegible] THIS DRAWING AND ITS CONTENTS ARE INTELLECTUAL PROPERTY OF in.formation studio AND SHALL BE USED AS A SINGLE USE DOCUMENT ONLY FOR AUTHORIZED PROJECT AND SHALL NOT BE USED, PARTIALLY OR IN FULL, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT AND SHALL BE RETURNED TO in.formation studio.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Proposed Grading Plan

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT # 22-01

PROJECT PHASE Construction Docs - 90%

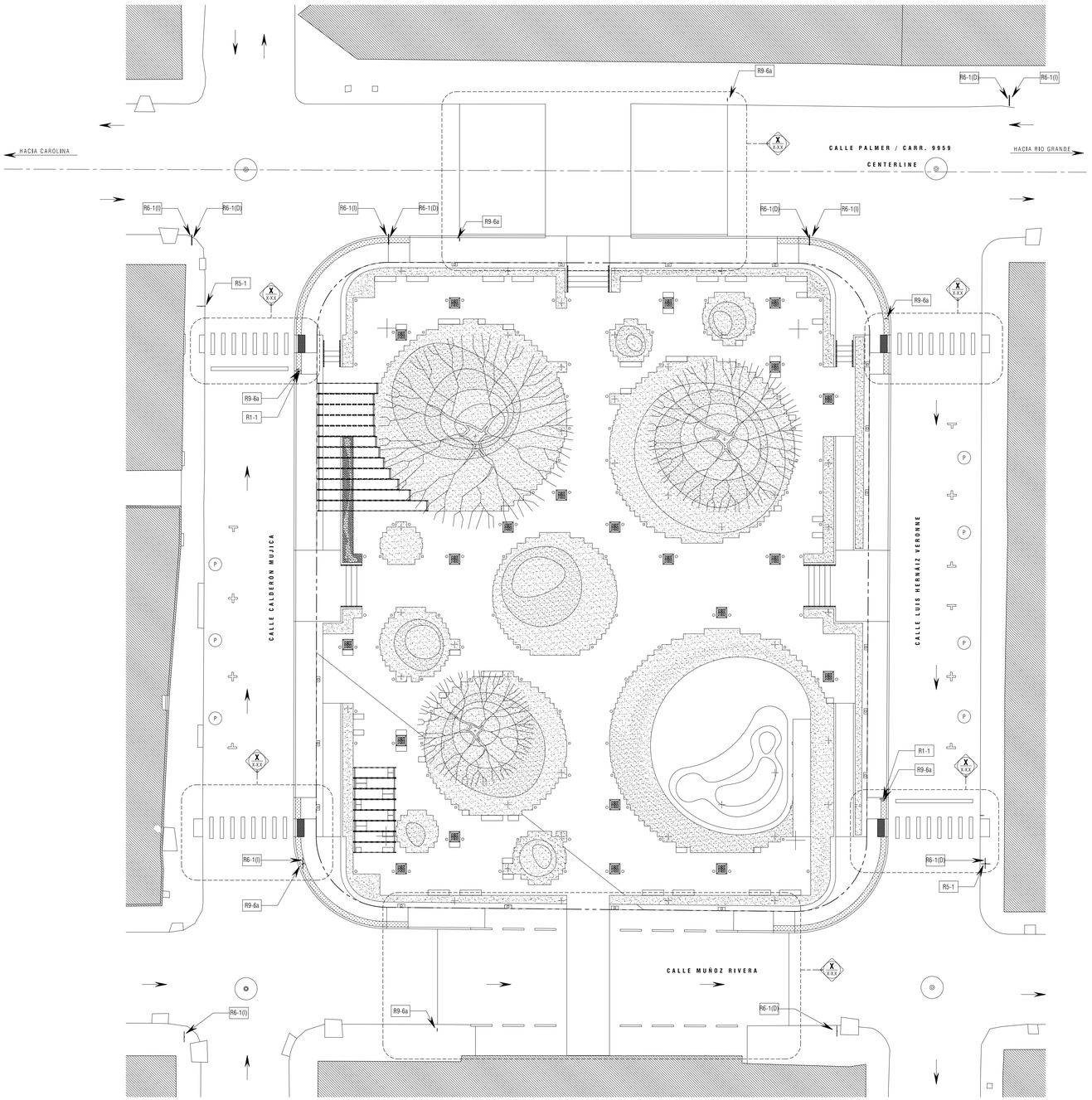
SHEET # 6

DRAWN BY jmb

DATE 05.ii.2024

DISCIPLINE

C-2.0



Traffic Control Plan

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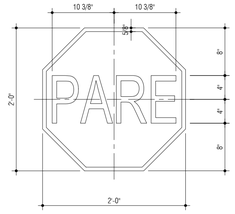
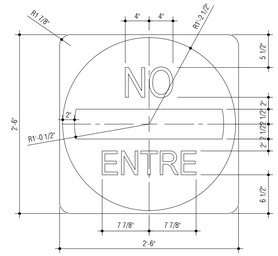


R1-1 (Minimo)

SCALE : 1" = 1'-0"



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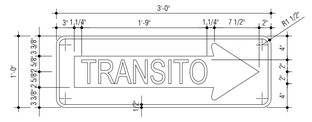

R6-1 (D)

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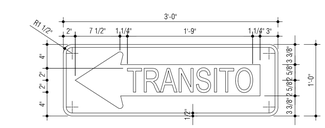
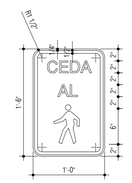


R6-1 (I)

SCALE : 1" = 1'-0"



R9-6a (PR)

SCALE : 1" = 1'-0"

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez boteello puerto rico

LIC. MAX DCCC III
EXP. 19.X.2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

[illegible] CERTIFICACIÓN NÚM. [illegible]
CERTIFICATION NUMBER

ESTE DISEÑO CUMPLE CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS. JUNTO REGLAMENTACIONES O CONFIGURACIONES PÚBLICAS QUE NO HAN SIDO CUMPLIDAS O ATENDIDAS EN ESTOS PLANOS Y ESPECIFICACIONES.

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THESE PLANS AND SPECIFICATIONS COMPLY SUBSTANTIALLY WITH THE LAWS AND REGULATIONS IN FORCE OF THE AGENCIES. ANY PUBLIC REGULATIONS OR CONFIGURATIONS THAT HAVE NOT BEEN COMPLIED WITH OR ADDRESSED IN THESE PLANS AND SPECIFICATIONS.

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DISCLAIMER: ESPECIFICACIONES Y PLANOS ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTAN- TES SON PROPIEDAD DE in.formation studio Y NO PODRÁN SER USADOS EN NINGUNA OBRA SIN EL CONSENTIMIENTO ESCRITO DE in.formation studio.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Traffic Control Plan

REVISION

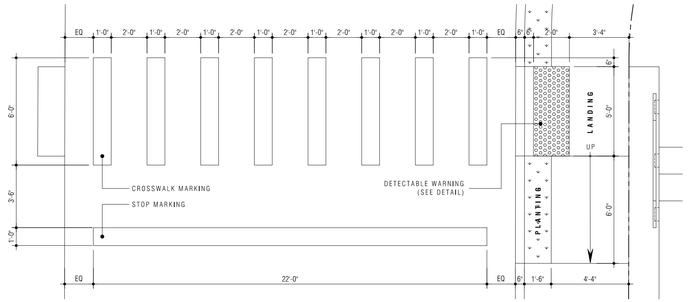
CLIENT

Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
-	krs / 05.ii.2024

DISCIPLINE

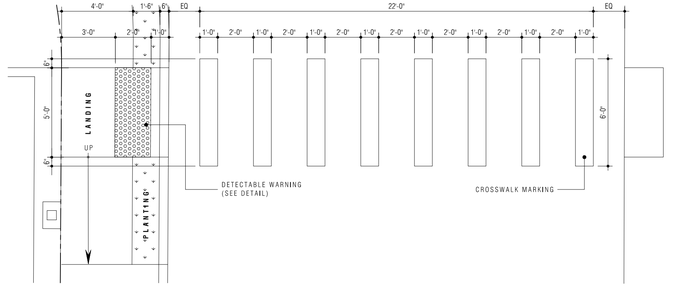
C-3.0



Blow-Up Plan

SCALE : 1/4" = 1'0"

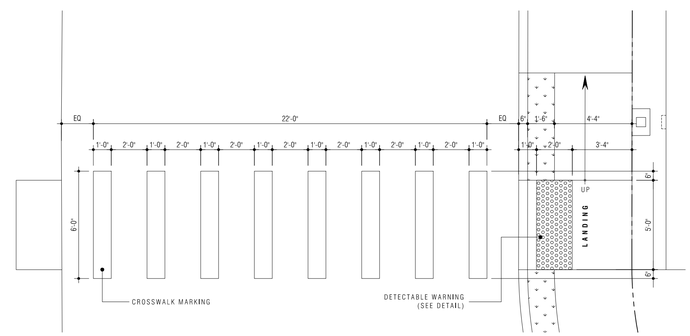
A
C-3.1



Blow-Up Plan

SCALE : 1/4" = 1'0"

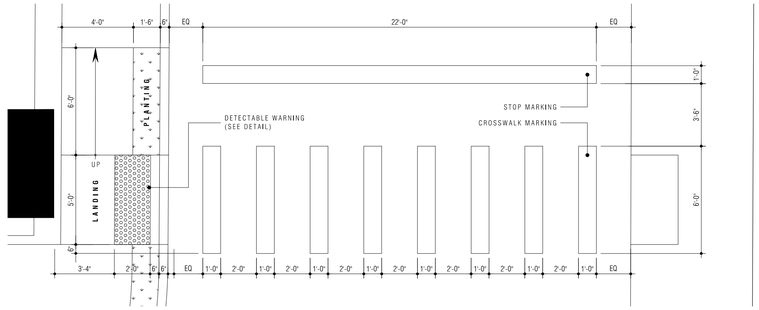
A
C-3.1



Blow-Up Plan

SCALE : 1/4" = 1'0"

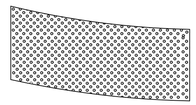
A
C-3.1



Blow-Up Plan

SCALE : 1/4" = 1'0"

A
C-3.1



DETECTABLE WARNING FIELD

SCALE : 1-1/2" = 1'-0"

AS-1.0

TRUNCATED DOME

1

SCALE : 1-1/2" = 1'-0"

AS-1.0

Blow-Up Plan

SCALE : 1/4" = 1'0"

A
C-3.1

LEGEND

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- PROPOSED TREE
- DIRECTION OF TRAVEL

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MAK 00CC III
EXP. 1-9-X-2025

CERTIFICACIÓN - COTPRMTE - FIRM NAME

[illegible]

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Carolina, PR, 00979 - Office Tel: +1 (787) 256-0630
e-mail: info@informationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderon Musica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Pedestrian Crosswalks Plans & Details

CLIENT

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
-	krs / 05.ii.2024

DISCIPLINE

C-3.2



Maintenance of Traffic (MOT) Plan

SCALE : 1 = 500

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manriquez botello puerto rico

LIC. MAY. DCCC 11 EXP. 19 X 2025

CERTIFICACIÓN - COPYRIGHTS + FIRM NAME

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Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

SHEET TITLE

Maintenance of Traffic Plan

CLIENT
Municipio de Canóvanas - Hon. Lorna Soto Villanueva

PROJECT # 22-01

PROJECT PHASE Construction Docs - 90%

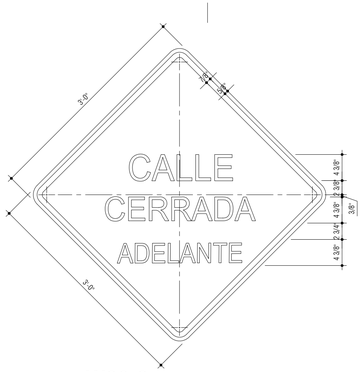
SHEET # -

DRAWN BY krs

DATE 05.ii.2024

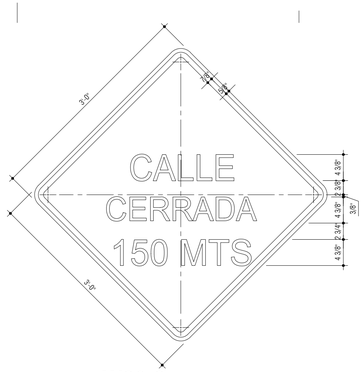
DISCIPLINE

C-4.0



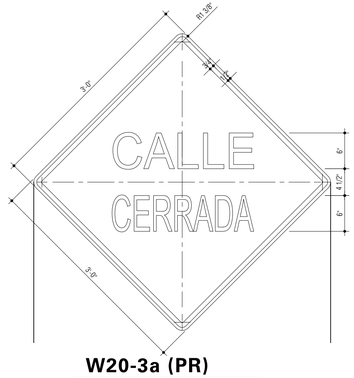
W20-3

SCALE : 1"=1'-0"



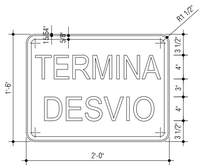
W20-3

SCALE : 1"=1'-0"



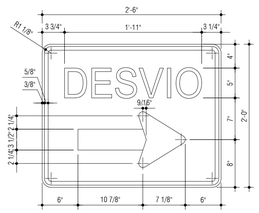
W20-3a (PR)

SCALE : 1"=1'-0"



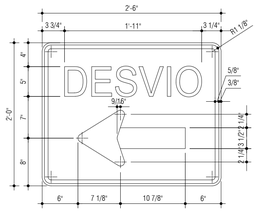
M4-8a

SCALE : 1"=1'-0"



M4-9 (D)

SCALE : 1"=1'-0"



M4-9 (I)

SCALE : 1"=1'-0"

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL



CERTIFICACIÓN - COPYRIGHTS + FIRM NAME

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ARQUITECTÓNICA
SIN PREVIO CONSENTIMIENTO Y PROPIAMENTE ESTOS
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ARQ. SON INSTRUMENTOS DE SERVICIO PROFESIONAL PREPARADOS
PLANOS Y ESPECIFICACIONES COMPLEN CON LAS
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUC-
CION VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES
PUBLICAS JURISDICCION, CERTIFICO,
C O N BAJO JURAMENTO, QUE LOS
E S T E PLANOS Y ESPECIFICA-
CIONES SE HAN CUMPLIDO CABALMENTE
H A N S I D O CON LAS DISPOSICIONES
P R E P A R A D O S COMPRENDIDAS EN LOS
CUMPLEN LA LEY REGLAMENTOS VIGENTES
ESTAN FIRMADOS Y SELLADOS POR LA PRESENTE
POR EL SUSCRITO LEY NUMERO 96 DEL 9 DE
ARQUITECTO QUE JULIO DE 1975, Y QUE LOS
HACE LA PRESENTE MISMOS HAN SIDO PREPARADOS
CERTIFICACION. BAJO MI SUPERVISION.
FIRMADO Y SELLADO POR MI EN
ESTE DIA 18 DE OCTUBRE DE 2023.
D O C U M E N T O S
P R E P A R A D O S
POR MI, BAJO MI
SUPERVISION O BAJO
MI CALIDAD COMO
EMPLEADO DE:
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e-mail: info@informationstudio.com

PROJECT TEE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Maintenance of Traffic Notes & Details

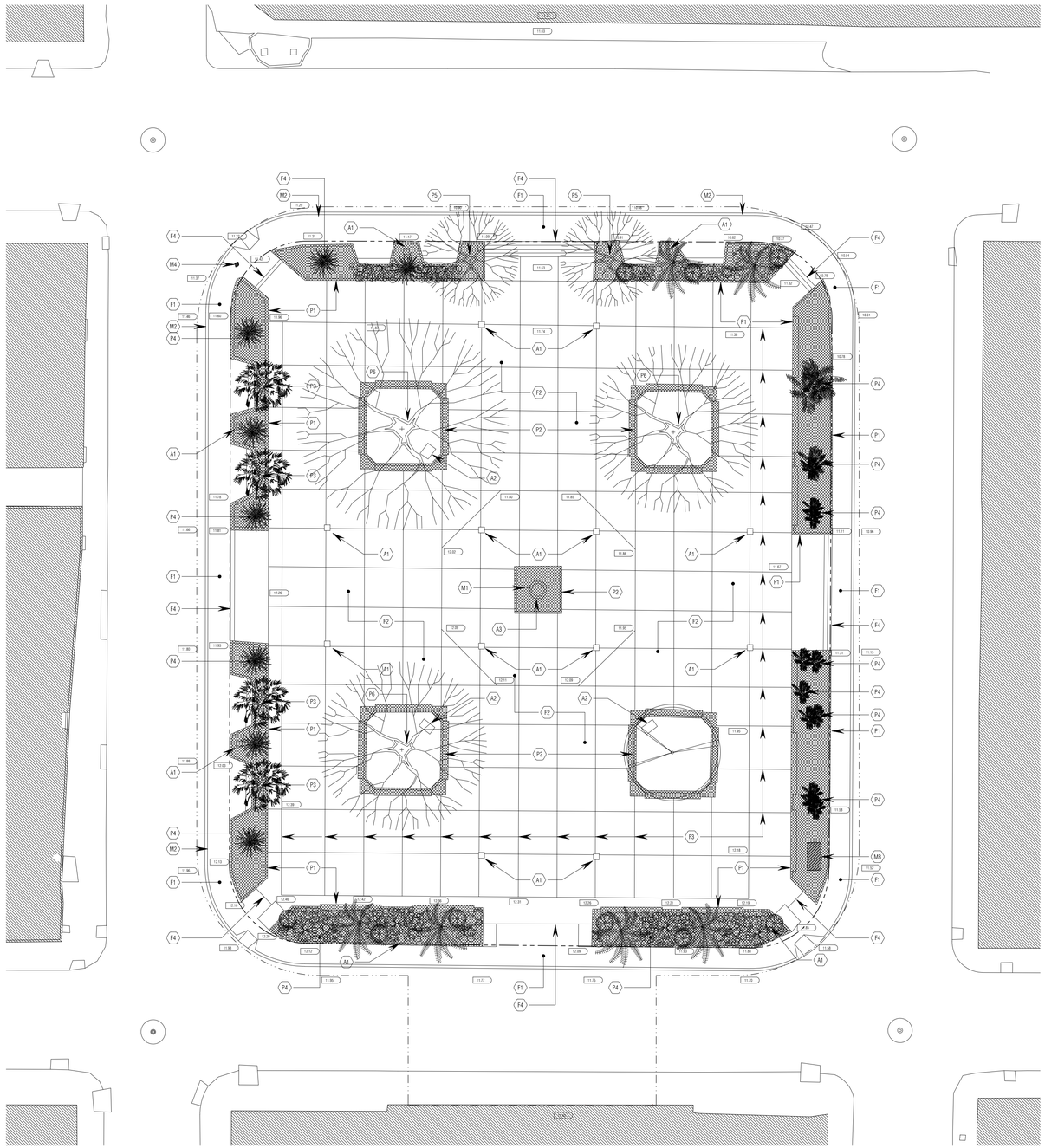
CLIENT

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
-	krs / 05.ii.2024

DISCIPLINE

C-4.1



Existing & Demolition Plan

SCALE : 1/16" = 1'-0"

LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- WALL/OPENINGS TO BE DEMOLISHED
- STRUCTURAL/REINFORCED CONCRETE WALL
- CONCRETE BLOCK WALL
- GWB. PARTITION
- ELEMENTS TO BE REMOVED
- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- EXISTING TREE - CUT & DISPOSE

Demolition Keynotes

Accessories/Miscellaneous

- A1 REMOVE AND DISPOSE OF EXISTING LIGHT POST.
- A2 REMOVE AND DISPOSE OF BRASS PLAQUES.
- A3 REMOVE & RELOCATE CANOVANAX SCULPTURE.

Floor

- F1 REMOVE AND DISPOSE OF EXISTING SIDEWALK SLAB.
- F2 REMOVE AND DISPOSE OF EXISTING CONCRETE PAVEMENT.
- F3 REMOVE AND DISPOSE OF EXISTING BRASS JOINTS.
- F4 REMOVE AND DISPOSE OF EXISTING CONCRETE STAIRS AND RAMPS.
- F5 REMOVE AND DISPOSE OF EXISTING.

Elcrrical/Mechanical/Plumbing

- M1 REMOVE & RELOCATE HOSEBIB.
- M2 REMOVE ELECTRICAL POLE & BURY ALL ELECTRICAL LINES.
- M3 REMOVE AND DISPOSE OF EXISTING CONCRETE STRUCTURE & ELECTRICAL PANEL
- M4 EXISTING HYDRANT TO BE RELOCATED

Planters/Partitions/Walls

- P1 REMOVE AND DISPOSE OF EXISTING PLANTER AND RELATED ITEMS.
- P2 REMOVE AND DISPOSE OF EXISTING PLANTER AND RELATED ITEMS.
- P3 REMOVE AND PREPARE TREE/PLAM TREE TO BE RELOCATED.
- P4 REMOVE AND DISPOSE OF PLANT MATERIAL; BUSHES AND PALM TREES.
- P5 EXISTING TREE TO BE RELOCATED
- P6 EXISTING TREE TO REMAIN -

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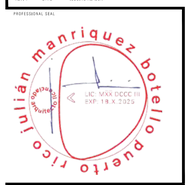
REVISIONS:

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL:



CERTIFICACIÓN - COPYRIGHTS + VIEW NAME:

SEAL
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-
CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES
PÚBLICAS
C E R T I F I C O
C O N
QUE ESTOS PLANOS CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-
CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS
C E R T I F I C O
C O N
QUE ESTOS PLANOS CUMPLEN CON LA LEY NÚMERO 9 DE 18 DE JULIO DE 1975, SEGÚN ENMENDADA, MEDIANTE LA CUAL SE PROMUEVE EL USO DE PERSONAS IMPEDIDAS EN EDIFICIOS PÚBLICOS.
D A D O A
P R O - L A
RESOLUCIÓN Y SOBRE LA
CUAL SE EMITIÓ EL
DICTAMEN FAVORABLE
DE CALIDAD SUSCRITO
POR MÍ, MIS AGENTES
O EMPLEADOS, EL PRO-
YECTO ARRIBA CITADO.
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CON LAS DISPOSICIONES
APLICABLES DE LA LEY
ANTERIORMENTE CITADA.
LOS NÚMEROS DE SEL O DE
REGISTRO DE LOS PLANOS
REGISTRO O POR NEGOCIO,
O EMPLEADOS, O POR
LA PERSONA QUE ESTOS
SUSCRIBE, CONSULTANTS
AND ITS CONTENTS ARE
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Carolina, PR, 00979 - Office: Tel. +1 (787) 296-0630
e-mail: info@informationstudio.com

PROJECT TIES & ADDRESS:

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT:

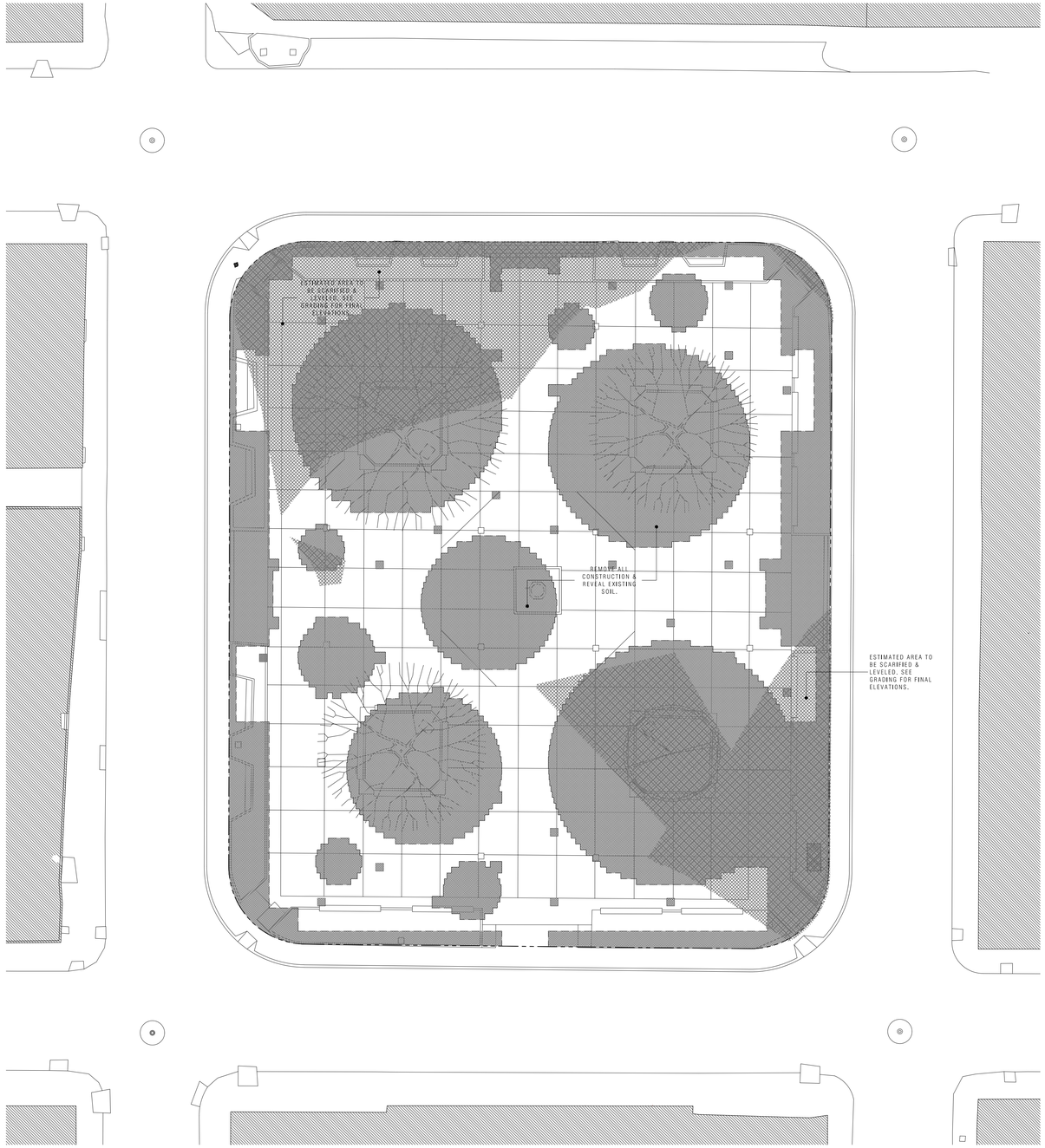
DWG. TITLE:

Existing & Demolition Plan

CLIENT:
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #: 22-01
PROJECT PHASE: Construction Docs - 90%
SHEET #: 5
DRAWN BY: jmb
DATE: 05.ii.2024
DISCIPLINE:

ED-1.0



Existing & Demolition Plan

SCALE : 1/16" = 1'-0"

LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- WALL/OPENINGS TO BE DEMOLISHED
- STRUCTURAL/REINFORCED CONCRETE WALL
- CONCRETE BLOCK WALL
- GWB. PARTITION
- ELEMENTS TO BE REMOVED
- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- EXISTING TREE - CUT & DISPOSE

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REVISIONS:

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL:

julián manriquez botello puerto rico

LIC. MAS 00CCIII
EXP. 19 X 2025

CERTIFICACIÓN - CUTTYNOTE + NEW NAME:

SEL.
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-
CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES
PÚBLICAS
QUE TENGAN
ESTE PROYECTO
BAJO SU
JURISDICCIÓN, CERTIFICO
QUE LOS MISMOS HAN SIDO
PLANEADO Y ESPECIFICADO
CUMPLIDO CABALMENTE
CON DICHAS DISPOSICIONES
REGLAMENTOS Y CÓDIGOS
APLICABLES A POR NUESTRA
O EMPLEADOS, O POR
LOS NUEVOS DE DEL O DE
LOS TERCEROS QUE LLEVEN
A CABO LOS TRABAJOS
INCLUIDOS EN ESTE PLANO
O ESPECIFICACIÓN.
ESTE PROYECTO ES PARTE DE
LA INFORMACIÓN CONTENIDA
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Carolina, PR, 00979 - Office Tel. +1 (787) 296-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS:

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT:

DWG. TITLE:

Existing & Demolition Plan

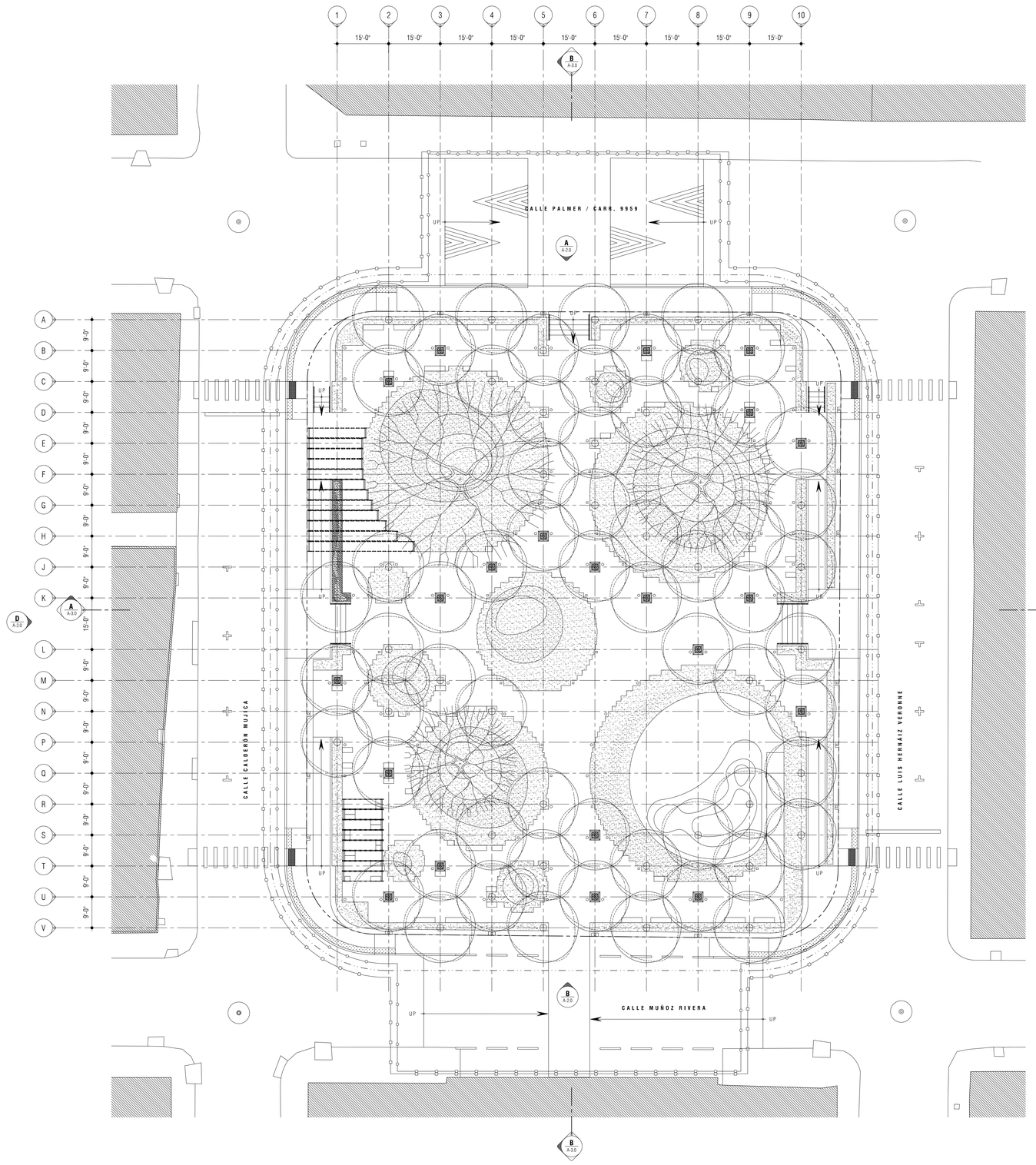
CLIENT:
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
5	jmb	05.ii.2024

DESIGN NO.

ED-1.1



Proposed Site Plan

SCALE : 1/16" = 1'-0"

LEGEND

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- PROPOSED TREE

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1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. MAX DCCC III
EXP. 1 IX 2025

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

PLANOS Y MEMORIAL DE CONSTRUCCIÓN
PLANS AND CONSTRUCTION MEMORIAL

DISEÑO: COMPUESTO Y PREPARÉ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, BAJO MI DIRECCIÓN, PARA EL USO EN ESTA OBRA Y CERTIFICO QUE HAN SIDO CONFECCIONADOS Y COMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES EN LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CONSEJOS PÚBLICOS C O N

DESIGN: I COMPOSED AND PREPARED THESE PLANS AND SPECIFICATIONS COMPLEMENTARY, UNDER MY DIRECTION, FOR USE IN THIS WORK AND CERTIFY THAT THEY WERE CONFECTIONED AND COMPLY WITH THE PROVISIONS APPLICABLE OF THE REGULATIONS AND CODES OF CONSTRUCTION IN FORCE IN THE VARIOUS AGENCIES, REGULATORY JUNTAS OR PUBLIC COUNCILS.

JURISDICCIÓN, CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS FUERON PREPARADOS Y CUMPLEN CABALMENTE CON LAS LEYES VIGENTES EN LA ISLA CARIBE, ESPECIFICAMENTE PARA EL PROYECTO DE DISEÑO A QUE SE REFIERE ESTA OBRA.

JURISDICTION, I CERTIFY THAT THESE PLANS AND SPECIFICATIONS COMPLEMENTARY WERE PREPARED AND COMPLY WITH THE LAWS IN FORCE IN THE ISLAND CARIBBEAN, SPECIFICALLY FOR THE PROJECT DESIGN TO WHICH REFERS THIS WORK.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Proposed Site Plan

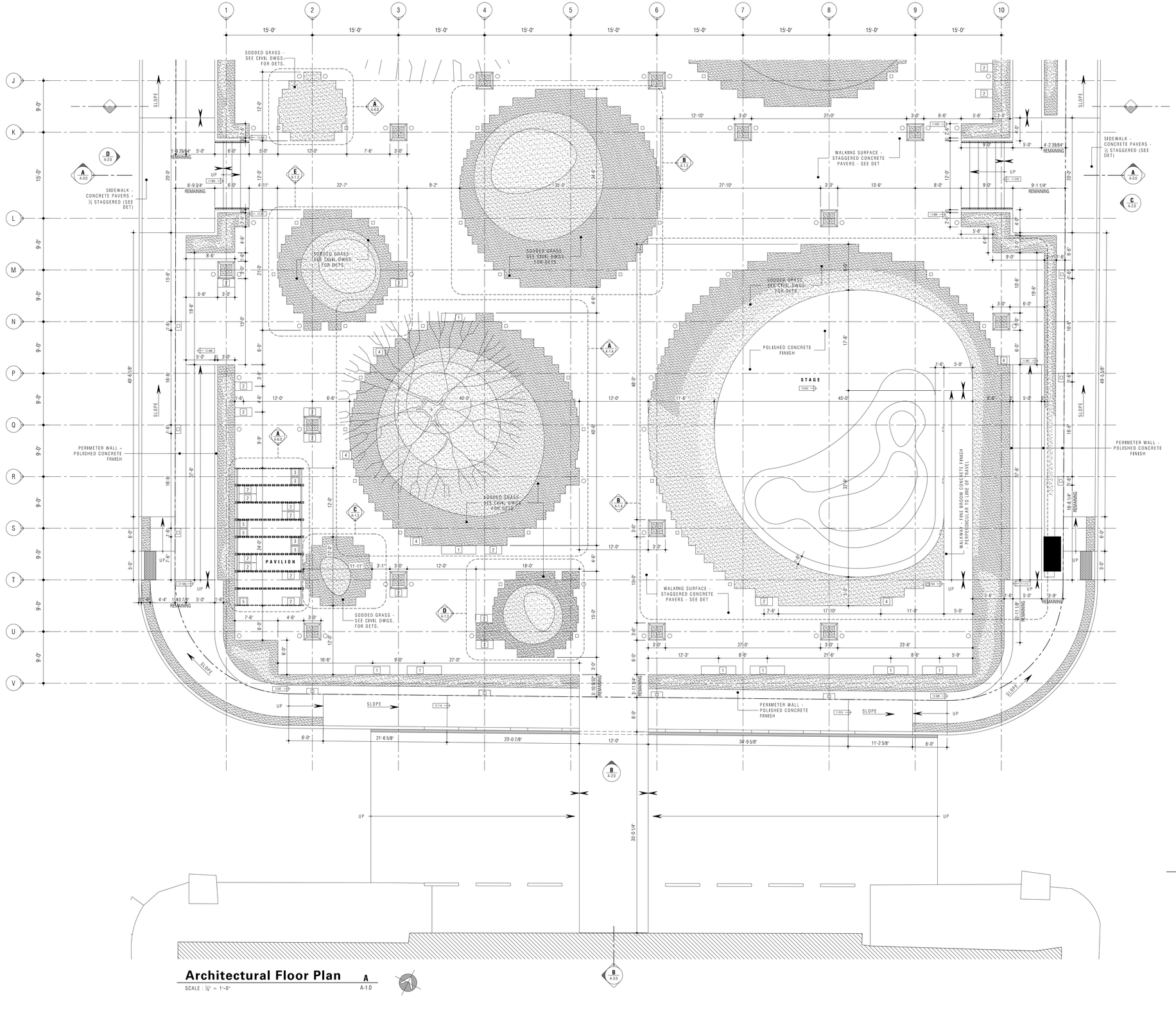
CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
6	jmb	05.ii.2024

DISCIPLINE

AS-1.0



Architectural Floor Plan

SCALE : 1/8" = 1'-0"

A-1.0

Finishes & Equipment

F1	WHITE CEMENT PRECAST CONCRETE PLANKS - EXPOSED AGGREGATE
F2	GRAY CEMENT PRECAST CONCRETE PLANKS - EXPOSED AGGREGATE
F3	WHITE CEMENT - CAST IN PLACE - EXPOSED AGGREGATE
1	PRECAST CONCRETE BENCH - 6'-0"
2	PRECAST CONCRETE BENCH - 3'-0"
3	PRECAST CONCRETE BENCH - 1'-6"
4	PRECAST CONCRETE TRASH BIN - 2'-0"
5	CAST IN PLACE CONCRETE BENCH - 1'-6"

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
LIC. MMX 00CC III
EXP. 19.X.2025

CERTIFICACIÓN - CUMPLIMIENTO - FIRMA NAME

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e-mail: info@informationstudio.com

PROJECT TEXT & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñoz, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

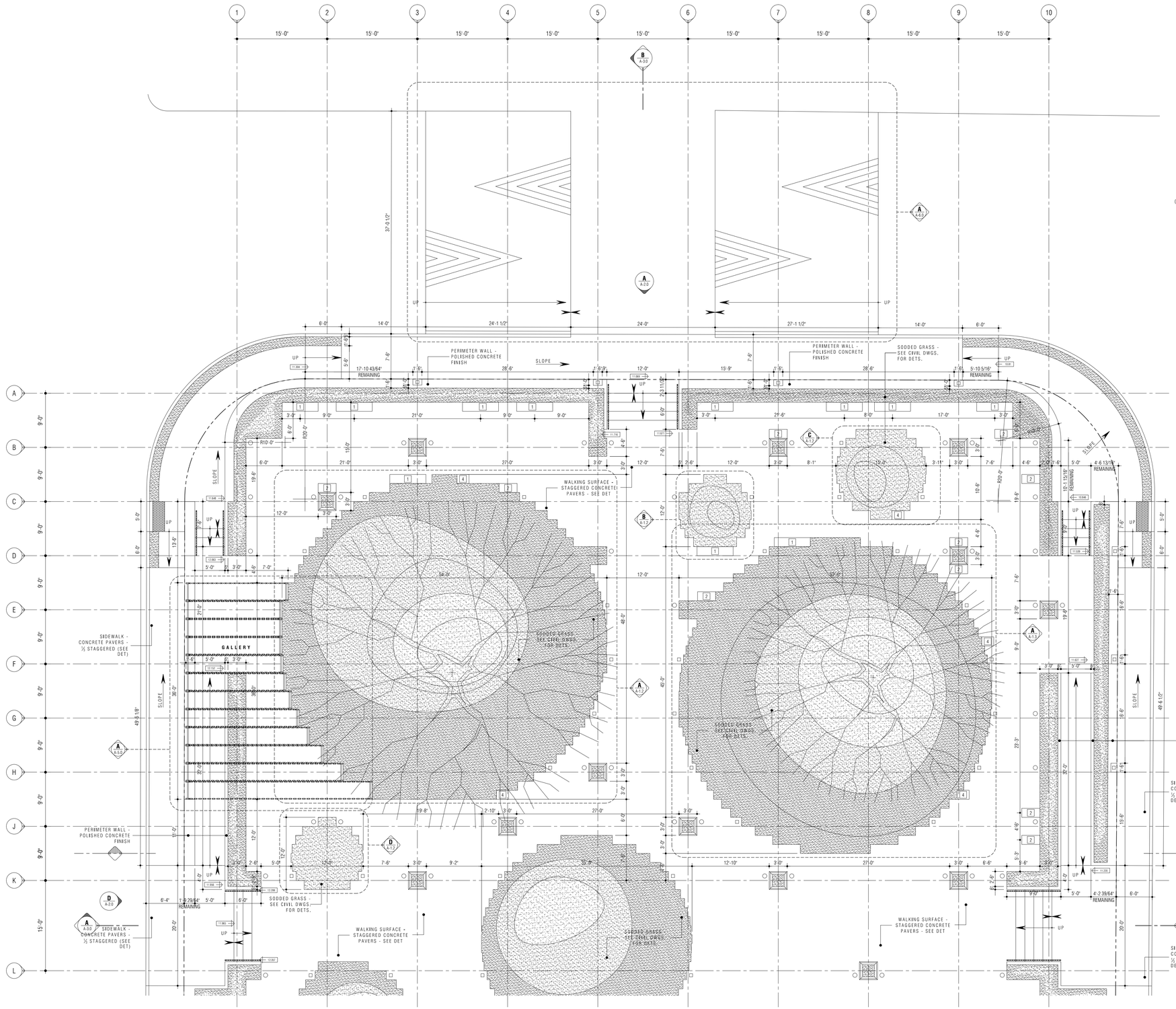
DWG. TITLE

Proposed Floor Plan

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

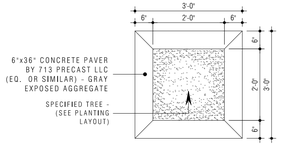
PROJECT #: 22-01
PROJECT PHASE: Construction Docs - 90%
SHEET #: 8
DRAWN BY: jmb
DATE: 05.ii.2024
DISCIPLINE

A-1.0



Architectural Floor Plan A

SCALE : 1/16" = 1'-0" A-1.1



Tree Planter Plan B

SCALE : 1/2" = 1'-0" A-1.1

Finishes & Equipment

F1	WHITE CEMENT PRECAST CONCRETE PLANKS - EXPOSED AGGREGATE
F2	GRAY CEMENT PRECAST CONCRETE PLANKS - EXPOSED AGGREGATE
F3	WHITE CEMENT - CAST IN PLACE - EXPOSED AGGREGATE
1	PRECAST CONCRETE BENCH - 6'-0"
2	PRECAST CONCRETE BENCH - 3'-0"
3	PRECAST CONCRETE BENCH - 1'-6"
4	PRECAST CONCRETE TRASH BIN - 2'-0"
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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez bottello puerto rico
LIC. MAX 0CCE III
EXP. 19 X 2025

CERTIFICACIÓN - CUTTHROATS - NEW NAME

[illegible] PLANOS, ESPECIFICACIONES COMPLEMENTARIAS Y DOCUMENTOS RELACIONADOS PREPARADOS BAJO MI SUPERVISIÓN CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS QUE TENGAN JURISDICCIÓN SOBRE LA OBRA. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NÚMERO 173 DE 12 DE AGOSTO DE 1988, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY ORGÁNICA DE LA OFICINA DE GERENCIA PARA PERMISOS" (OGPE) Y CON LA LEY NÚMERO 76 DE 5 DE JUNIO DE 2000, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE LA OFICINA DE GERENCIA PARA EL DESARROLLO SOCIOECONÓMICO Y AMBIENTAL DE PUERTO RICO" (OGPAD). [illegible] ESTÁN HECHOS Y PUESTOS A PUNTO PARA SOMETERSE POR LA PERSONA AUTORIZADA POR MI, BAJO ASUNTO DE LA LEY NÚMERO 9 DEL 24 DE JULIO DE 1970, SEGÚN ENMENDADA, Y LA LEY NÚMERO 173 DE 12 DE AGOSTO DE 1988, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY ORGÁNICA DE LA OFICINA DE GERENCIA PARA PERMISOS" (OGPE). ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NÚMERO 76 DE 5 DE JUNIO DE 2000, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE LA OFICINA DE GERENCIA PARA EL DESARROLLO SOCIOECONÓMICO Y AMBIENTAL DE PUERTO RICO" (OGPAD). [illegible] ESTÁN HECHOS Y PUESTOS A PUNTO PARA SOMETERSE POR LA PERSONA AUTORIZADA POR MI, BAJO ASUNTO DE LA LEY NÚMERO 9 DEL 24 DE JULIO DE 1970, SEGÚN ENMENDADA, Y LA LEY NÚMERO 173 DE 12 DE AGOSTO DE 1988, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY ORGÁNICA DE LA OFICINA DE GERENCIA PARA PERMISOS" (OGPE).

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

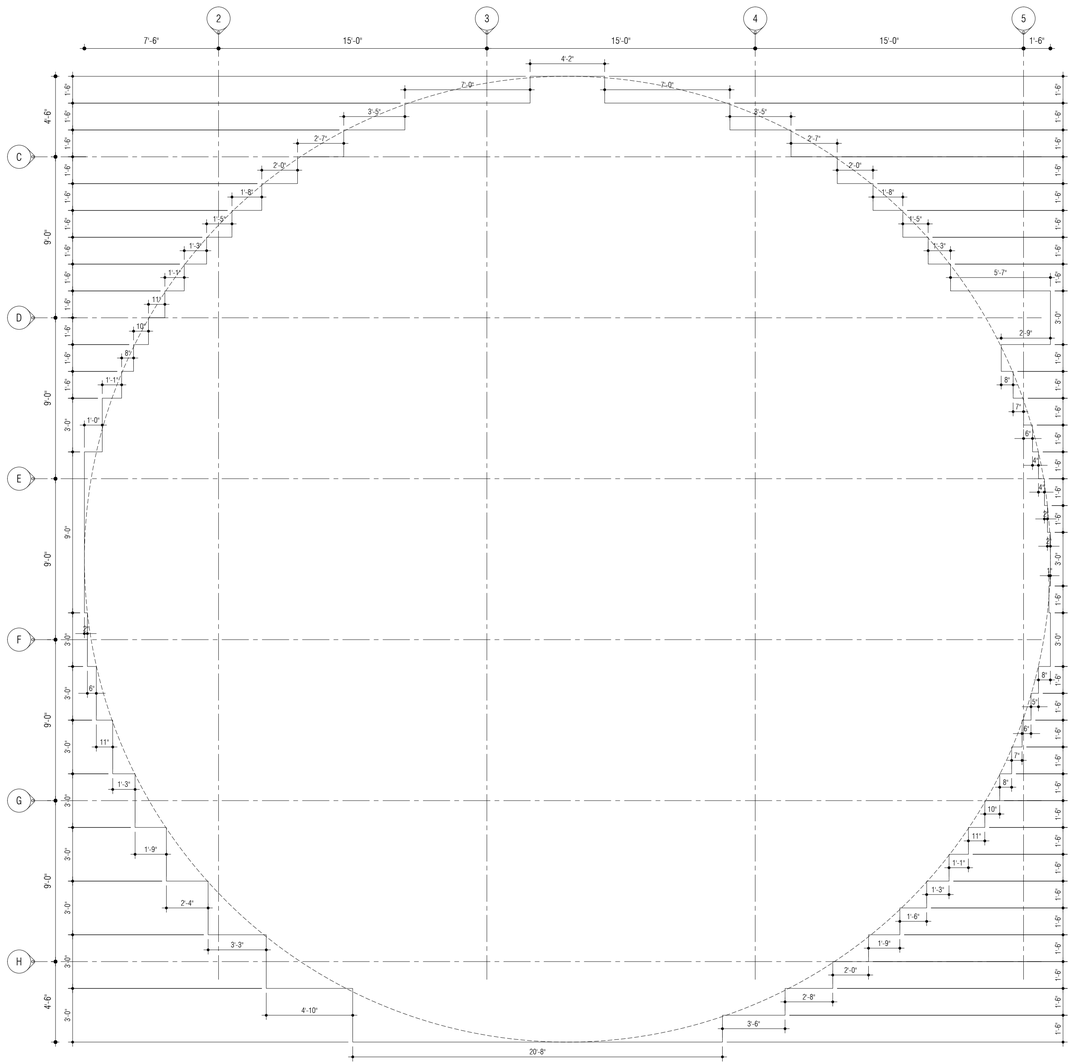
Proposed Floor Plan

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	jmb / 05.ii.2024

DISCIPLINE

A-1.1

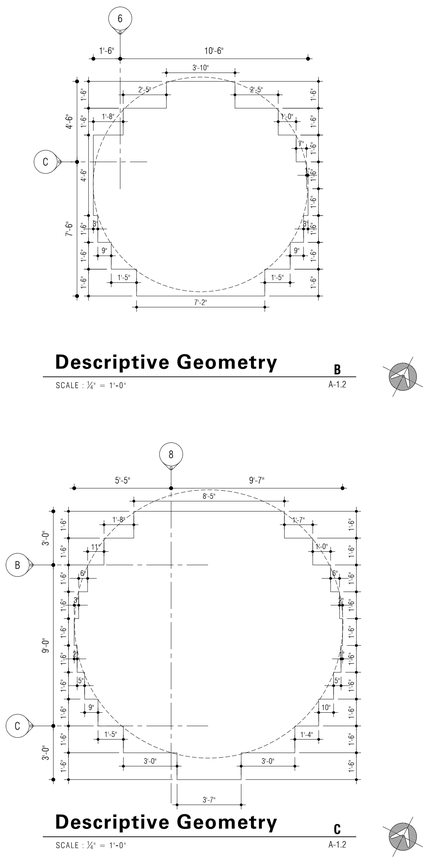


Descriptive Geometry

SCALE : ¼" = 1'-0"

A

A-1.2



Descriptive Geometry

SCALE : ¼" = 1'-0"

B

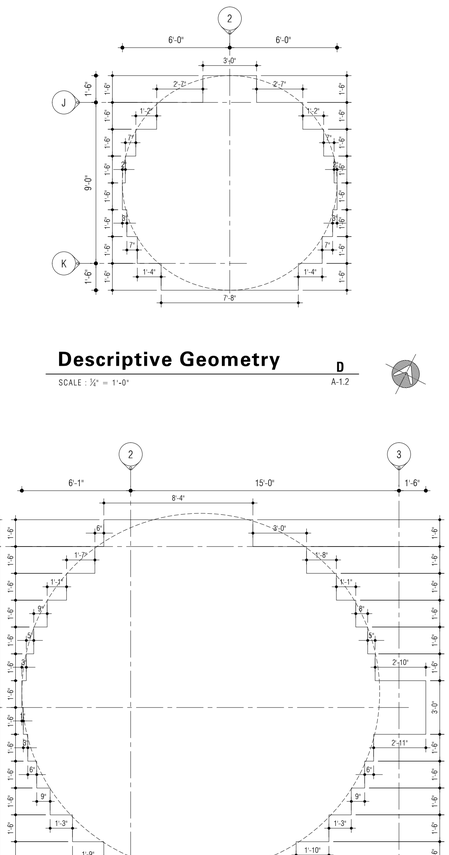
A-1.2

Descriptive Geometry

SCALE : ¼" = 1'-0"

C

A-1.2



Descriptive Geometry

SCALE : ¼" = 1'-0"

D

A-1.2

Descriptive Geometry

SCALE : ¼" = 1'-0"

E

A-1.2

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñoz, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Descriptive Geometry

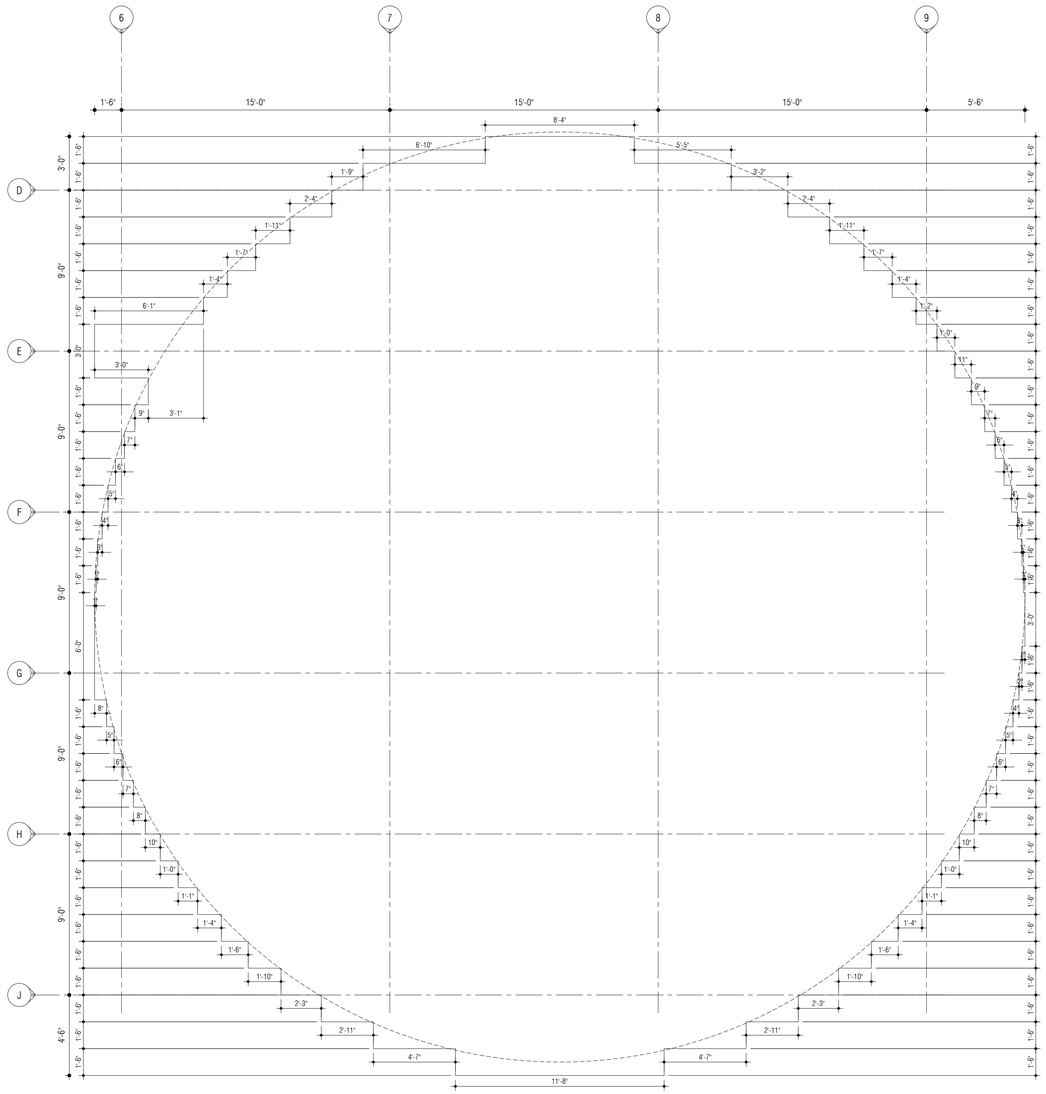
CLIENT

Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	jmb / 05.ii.2024

DISCIPLINE

A-1.2

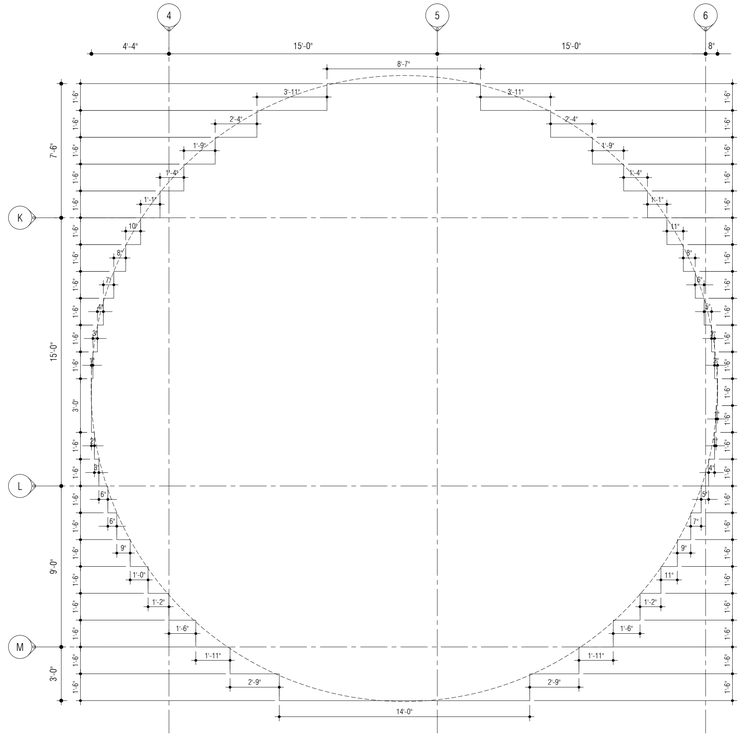


Descriptive Geometry

SCALE : ¼" = 1'-0"

A

A-1.3

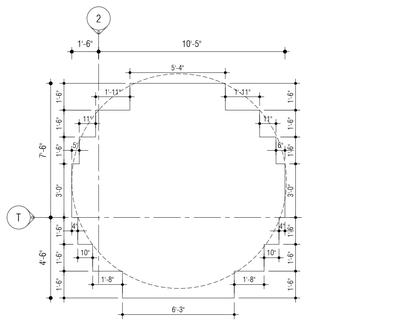


Descriptive Geometry

SCALE : ¼" = 1'-0"

B

A-1.3

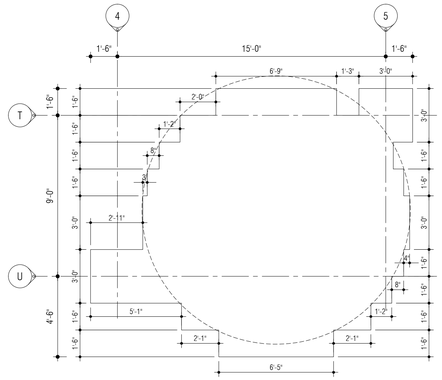


Descriptive Geometry

SCALE : ¼" = 1'-0"

C

A-1.3



Descriptive Geometry

SCALE : ¼" = 1'-0"

D

A-1.3

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

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PROJECT TEXT & ADDRESS

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Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Descriptive Geometry

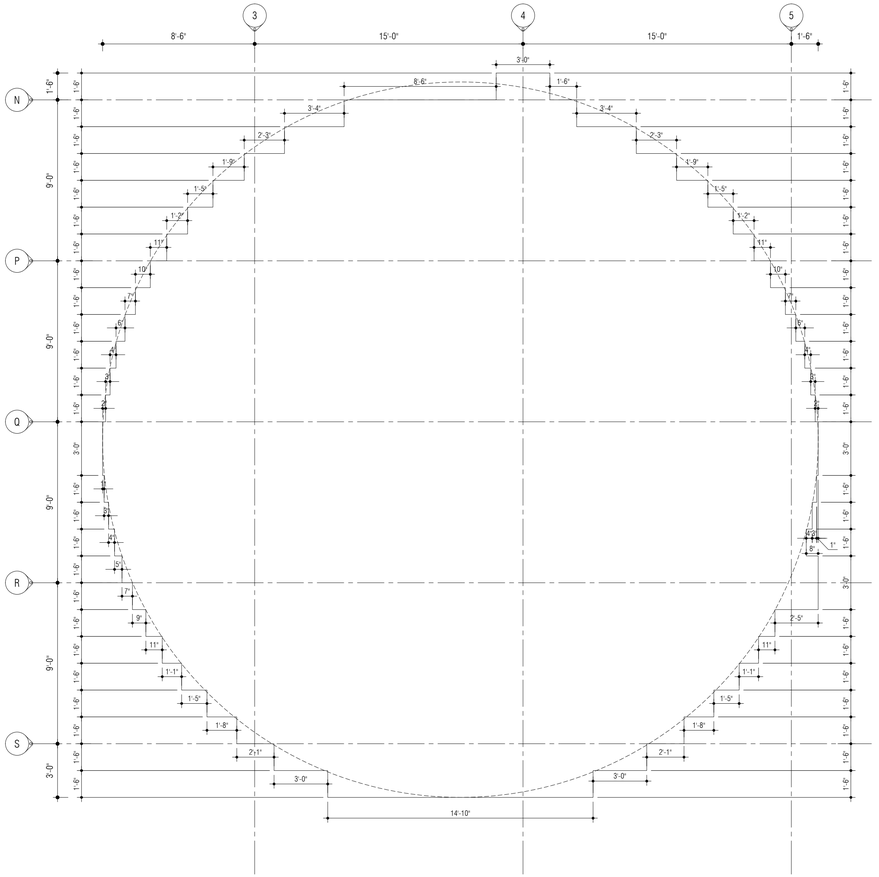
CLIENT

Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	jmb / 05.ii.2024

DISCIPLINE

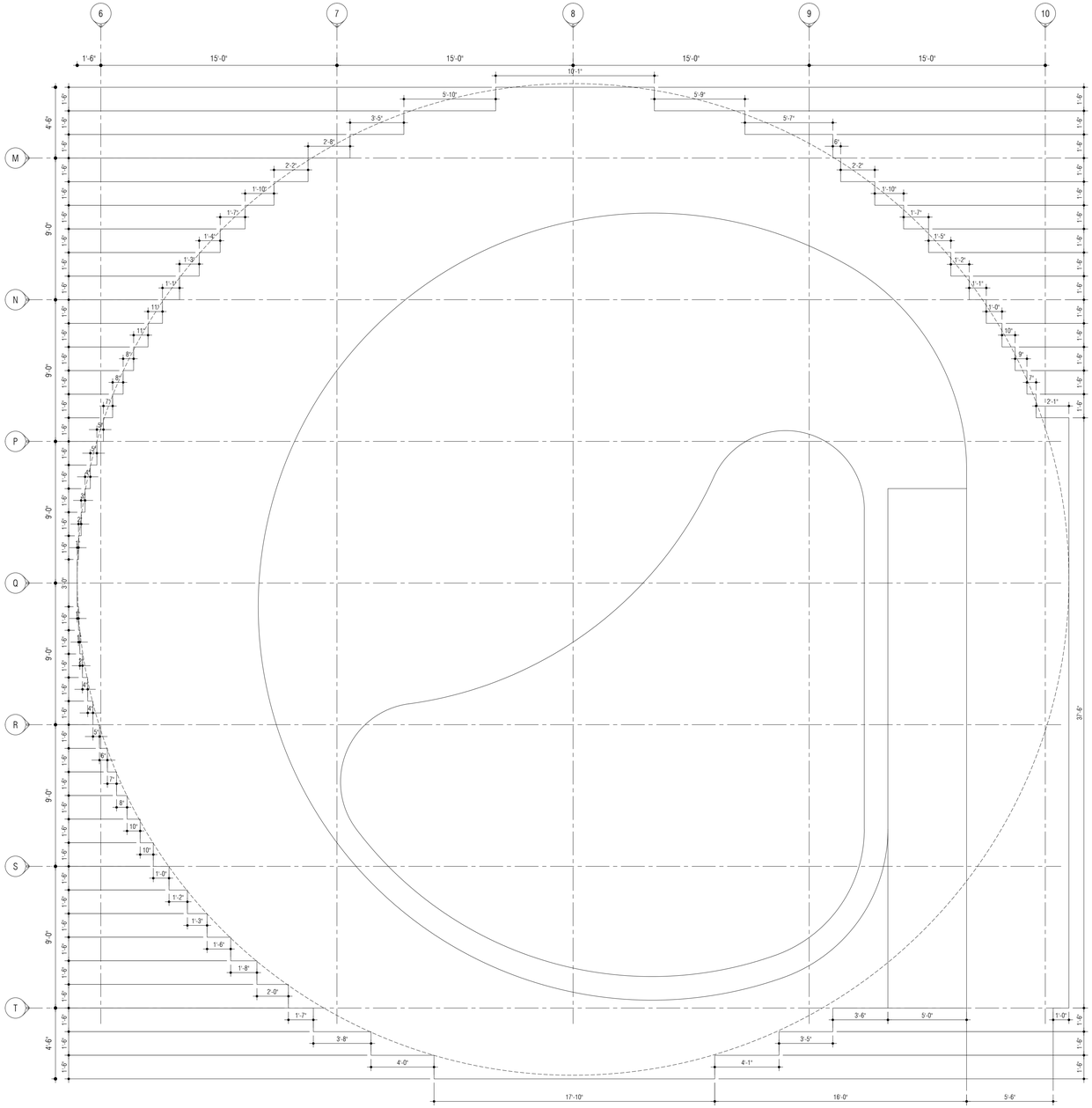
A-1.3



Descriptive Geometry A

SCALE : ¼" = 1'-0"

A-1.4



Descriptive Geometry B

SCALE : ¼" = 1'-0"

A-1.4

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

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PROJECT TITLE & ADDRESS

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Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Descriptive Geometry

CLIENT

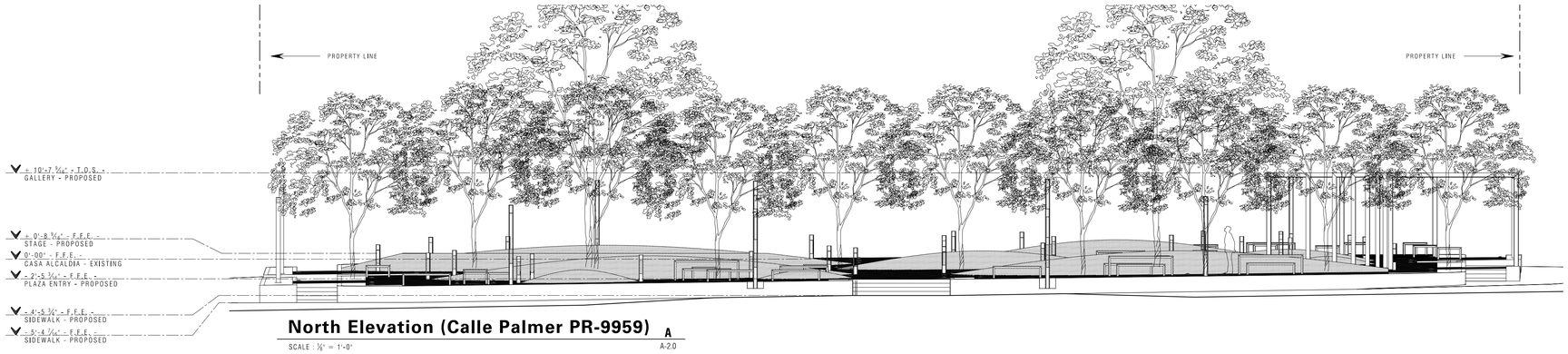
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
8	jmb	05.ii.2024

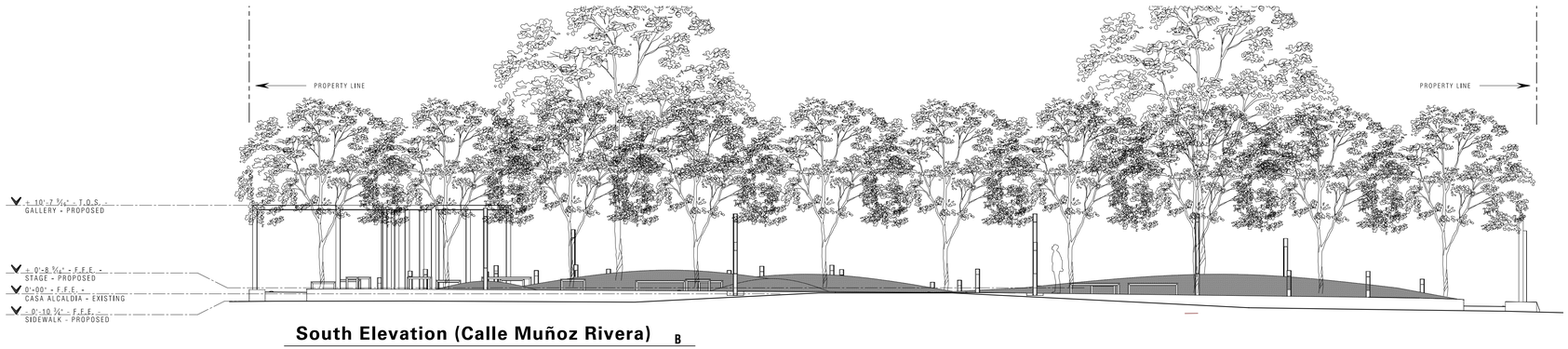
DESCIPLINE

A-1.4



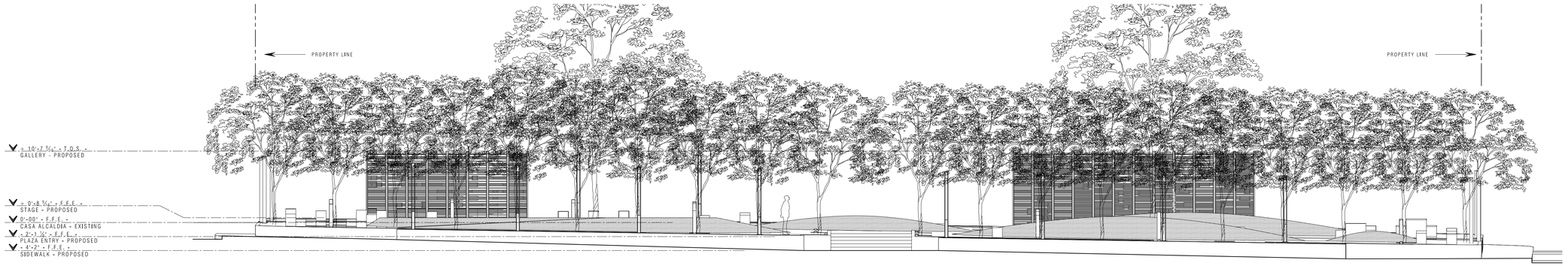
North Elevation (Calle Palmer PR-9959) A

SCALE : ⅛" = 1'-0" A-2.0



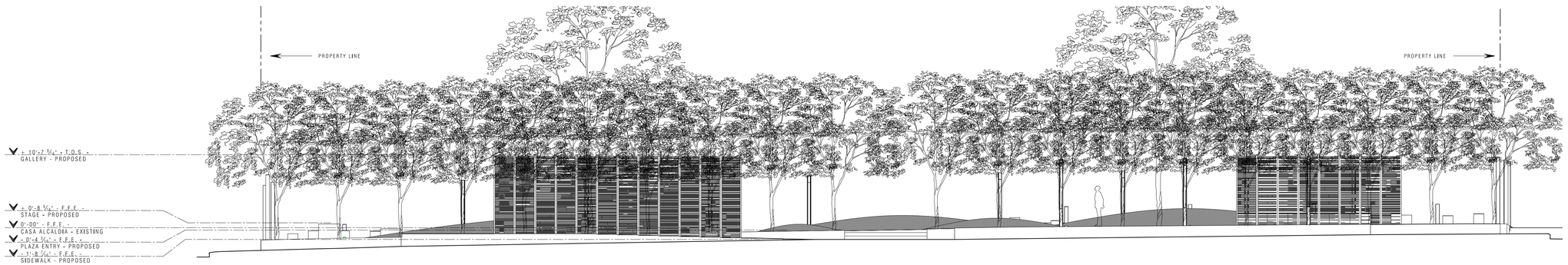
South Elevation (Calle Muñoz Rivera) B

SCALE : ⅛" = 1'-0" A-2.0



East Elevation (Calle Luis Hernaiz) C

SCALE : ⅛" = 1'-0" A-2.0



West Elevation (Calle Calderon Mujica) D

SCALE : ⅛" = 1'-0" A-2.0

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. NMA 00CC-19
EXP. 19 X 2025

CERTIFICADOS - CERTIFICATES - NEW NAME

S E C C I Ó N 6 1 0 1
PLANOS, ESPECIFICACIONES Y MEMORIALES DE CONSTRUCCIÓN
CERTIFICADOS
SE REQUIERE: ENVOLVIDORES Y PLANOS SELLADOS
PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS
SEC. PLANOS, ESPECIFICACIONES Y CÁLCULOS ESTRUCTURALES
PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS
C O N
JURISDICCIÓN, CERTIFICO, QUE LOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES EN PUERTO RICO, EXCEPTO POR LO SIGUIENTE:
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P A R A L A
F I R M A L A
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SPECIFIC PURPOSE INTENDED BY THE ARCHITECT/ENGINEER. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ARCHITECT/ENGINEER FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE ARCHITECT/ENGINEER. ANY SUCH VERIFICATION OR ADAPTATION SHALL ENTITLE THE ARCHITECT/ENGINEER TO FURTHER COMPENSATION AT RATES TO BE AGREED UPON BY USER AND ARCHITECT/ENGINEER.

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6177 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

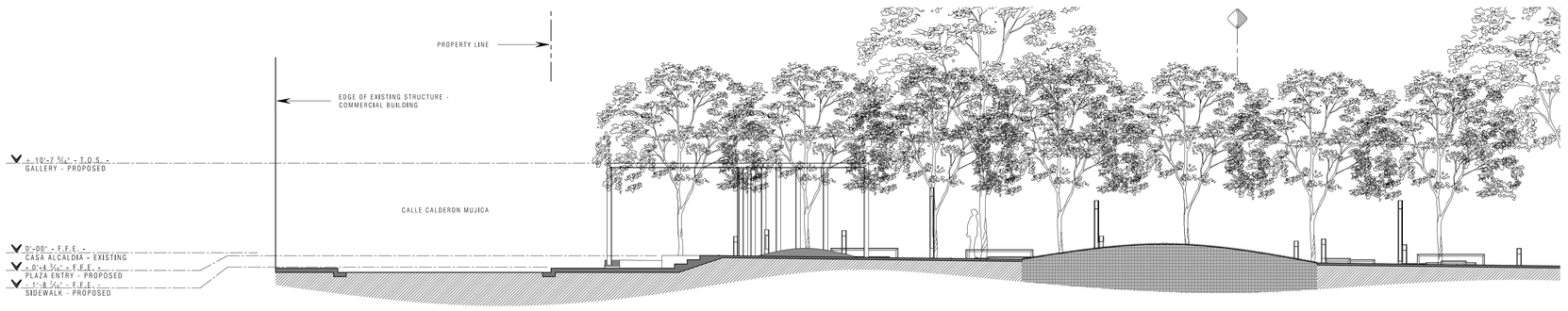
Elevations

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
9	jmb / 05.ii.2024

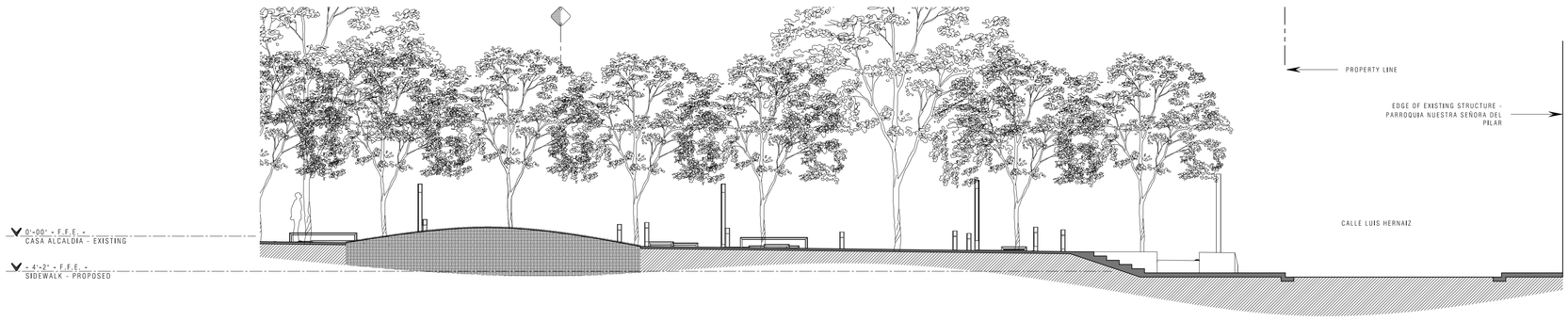
DISCIPLINE

A-2.0



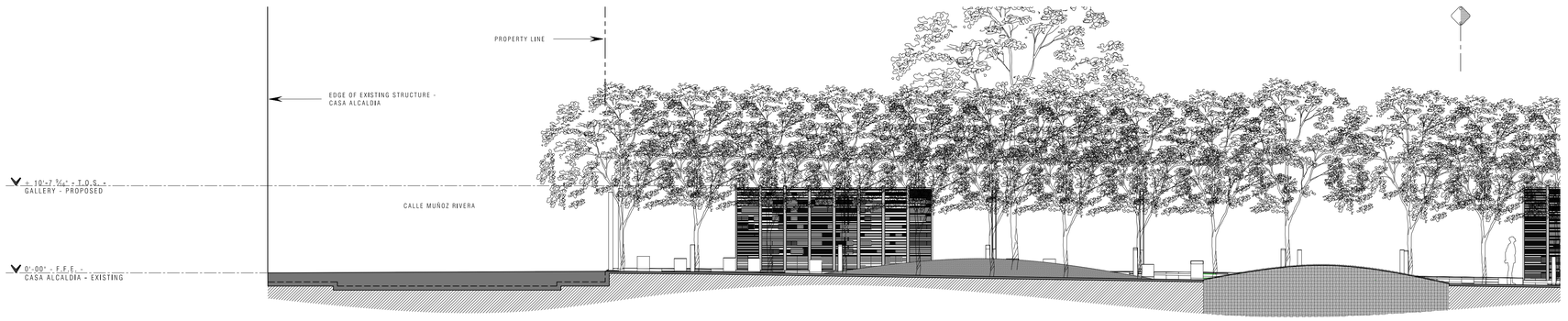
Section A

SCALE : 1/8" = 1'-0" A-3.0



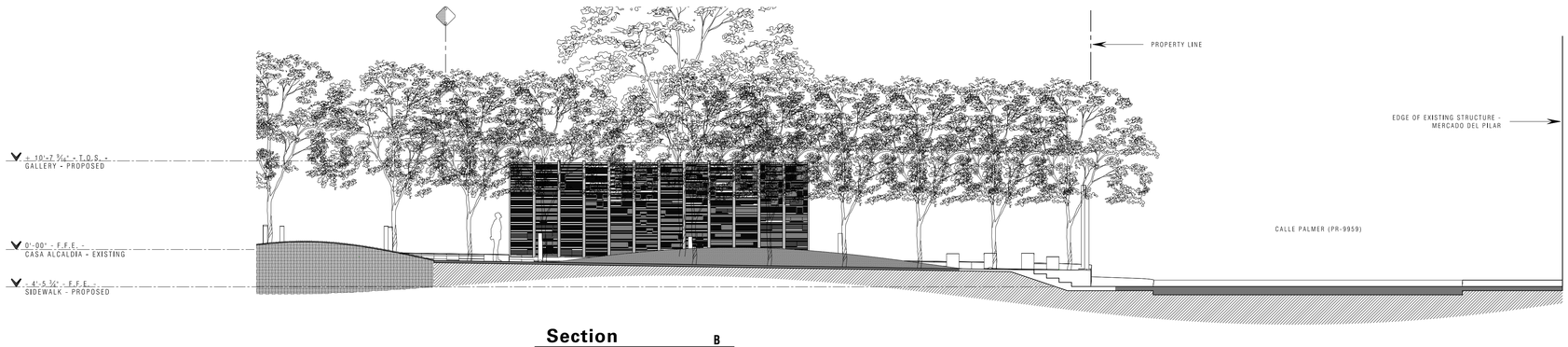
Section A

SCALE : 1/8" = 1'-0" A-3.0



Section B

SCALE : 1/8" = 1'-0" A-3.0



Section B

SCALE : 1/8" = 1'-0" A-3.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. MAK 00CC III
EXP. 19.X.2025

CERTIFICADOS - COTTPRINTS - NEW RAME

[illegible boilerplate]

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6177 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TIES & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Sections

CLIENT

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT # 22-01

PROJECT PHASE Construction Docs - 90%

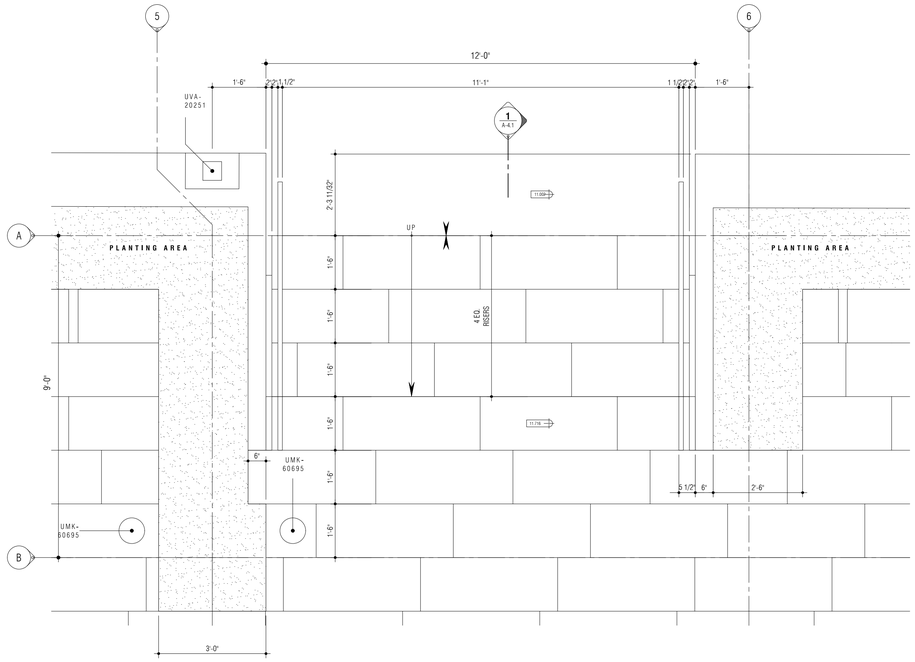
SHEET # 10

DRAWN BY jmb

DATE 05.ii.2024

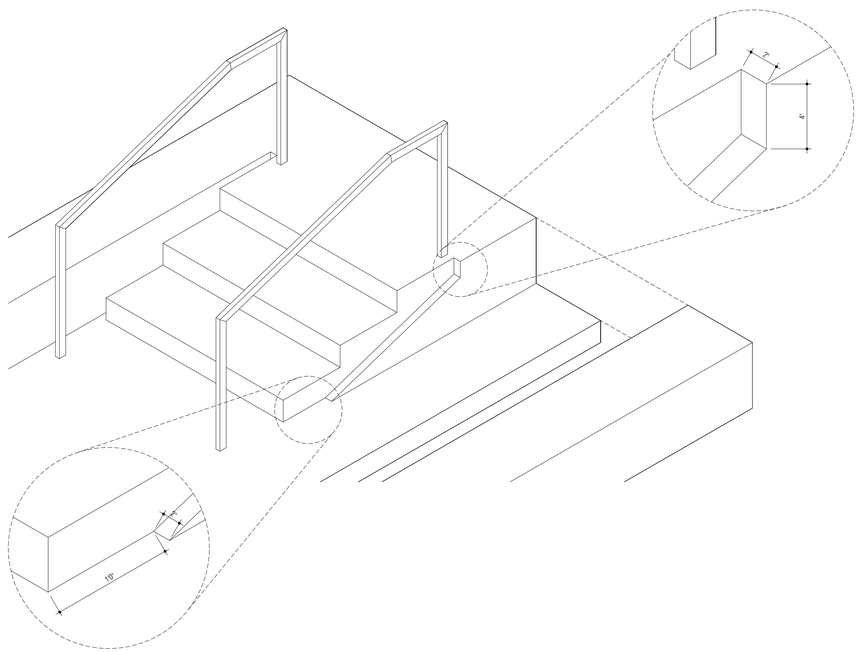
DISCIPLINE

A-3.0



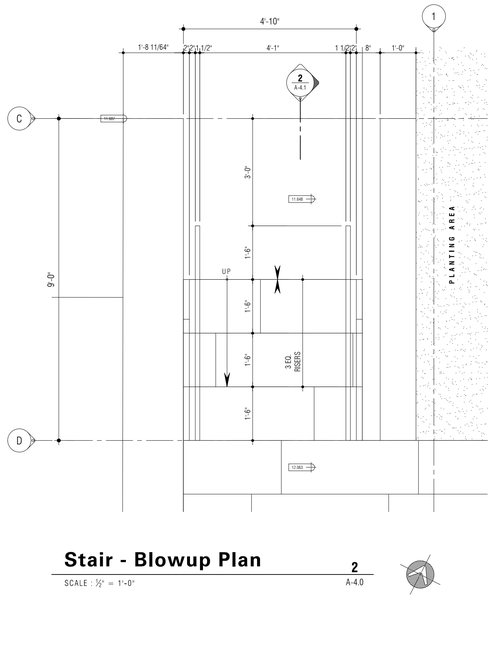
Stair - Blowup Plan 1

SCALE : ½" = 1'-0" A-4.0



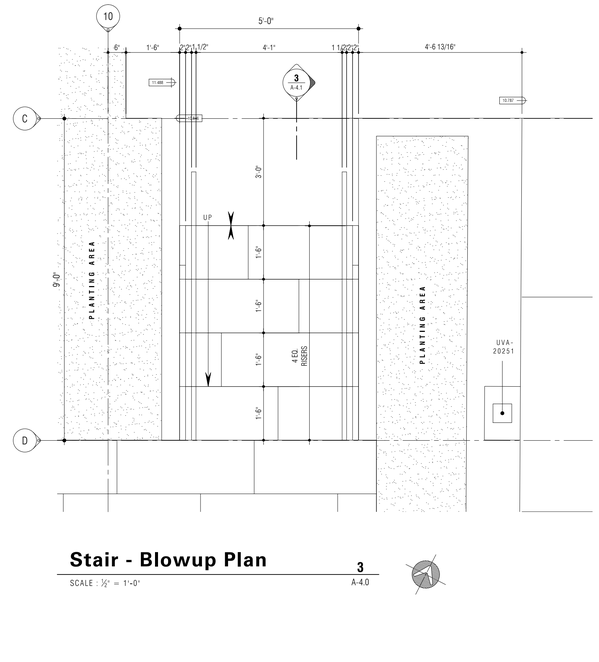
Stair Drainage - Axo 1

NOT TO SCALE A-4.0



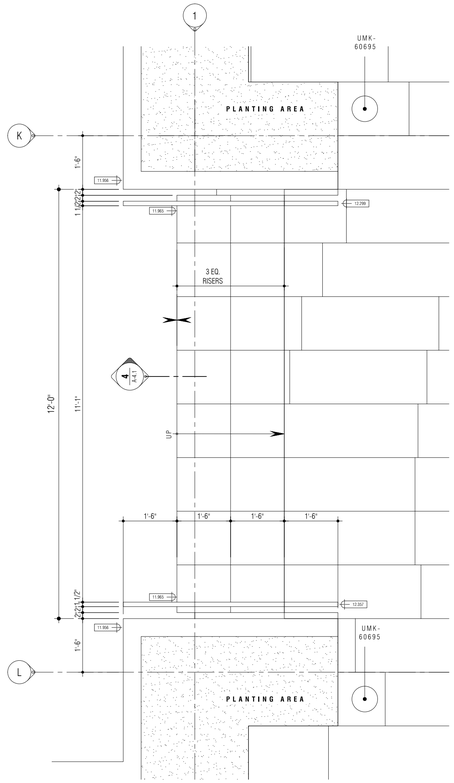
Stair - Blowup Plan 2

SCALE : ½" = 1'-0" A-4.0



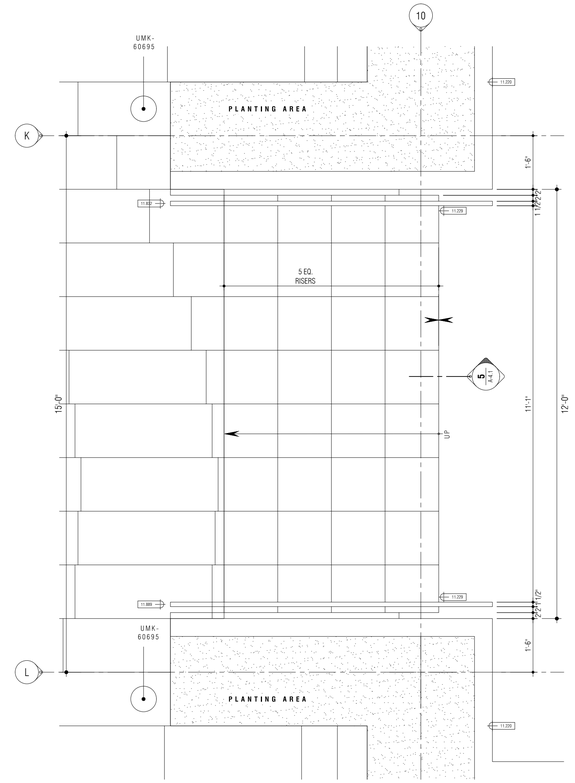
Stair - Blowup Plan 3

SCALE : ½" = 1'-0" A-4.0



Stair - Blowup Plan 4

SCALE : ½" = 1'-0" A-4.0



Stair - Blowup Plan 5

SCALE : ½" = 1'-0" A-4.0

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REVISIONS

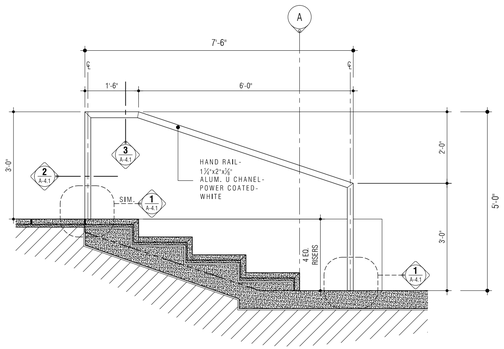
REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MAY. DCCC IX
EXP. 1.X.2025

CERTIFICACIÓN - COTTONETE - FIRM NAME

SEL.
[illegible] PROFESSIONAL SERVICES CERTIFICATION
CERTIFICACIÓN DE SERVICIOS PROFESIONALES
CERTIFICAMOS: ESPECIFICADO Y PREPARADO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, DE ACUERDO CON LOS REQUISITOS DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN APLICABLES DE LOS ASCENSORES, JUNTO A LOS REGLAMENTOS ESTATALES Y

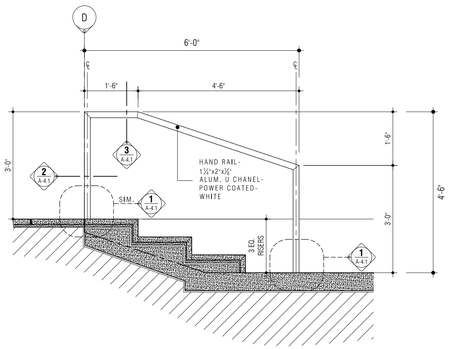


Stair - Blowup Section

SCALE : ½" = 1'-0"

A

A-4.1

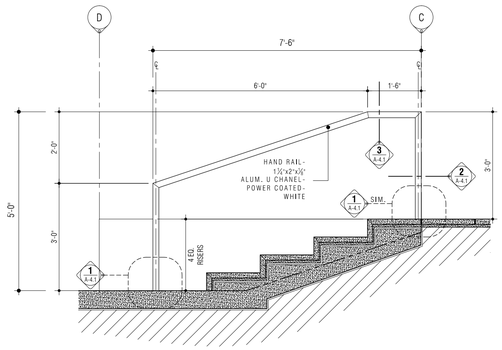


Stair - Blowup Section

SCALE : ½" = 1'-0"

B

A-4.1

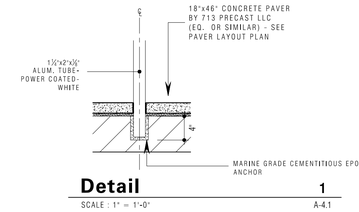


Stair - Blowup Section

SCALE : ½" = 1'-0"

C

A-4.1

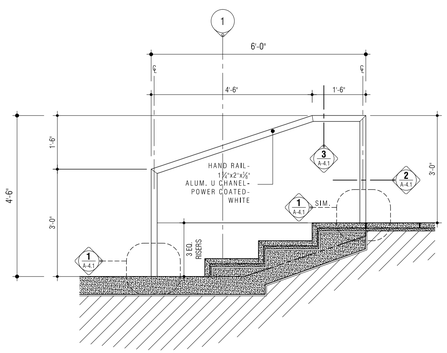


Detail

SCALE : 1" = 1'-0"

1

A-4.1

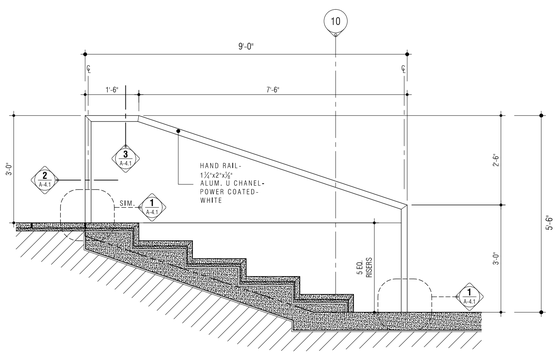


Stair - Blowup Section

SCALE : ½" = 1'-0"

D

A-4.1

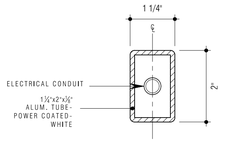


Stair - Blowup Section

SCALE : ½" = 1'-0"

E

A-4.1

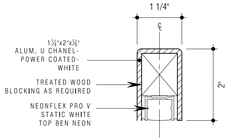


Detail

SCALE : 6" = 1'-0"

2

A-4.1



Detail

SCALE : 6" = 1'-0"

3

A-4.1

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

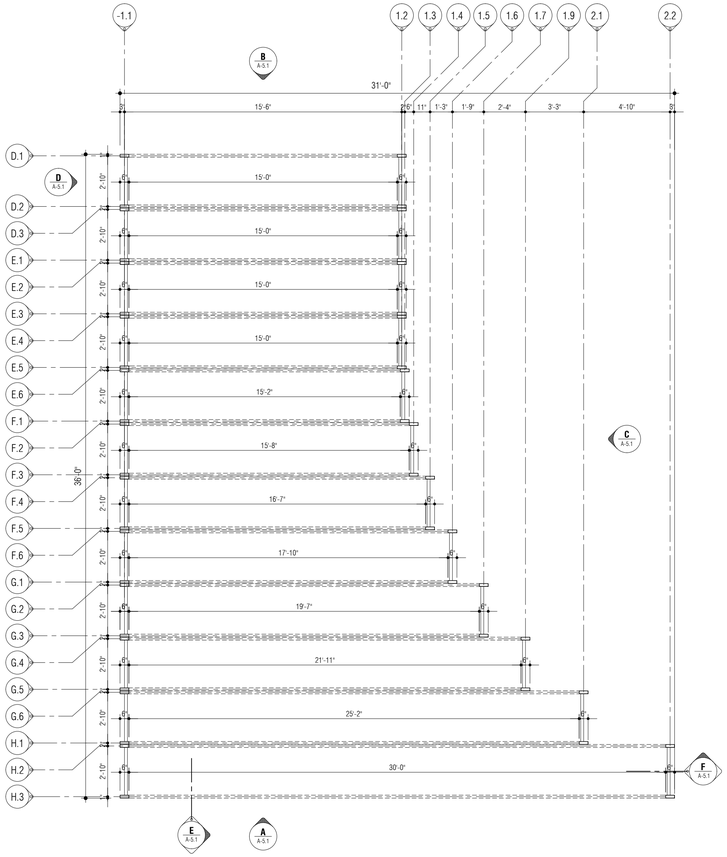
PROFESSIONAL SEAL

julián manriquez botello puerto rico

LIC. MAX 00CC 11 EXP. 18 X 2025

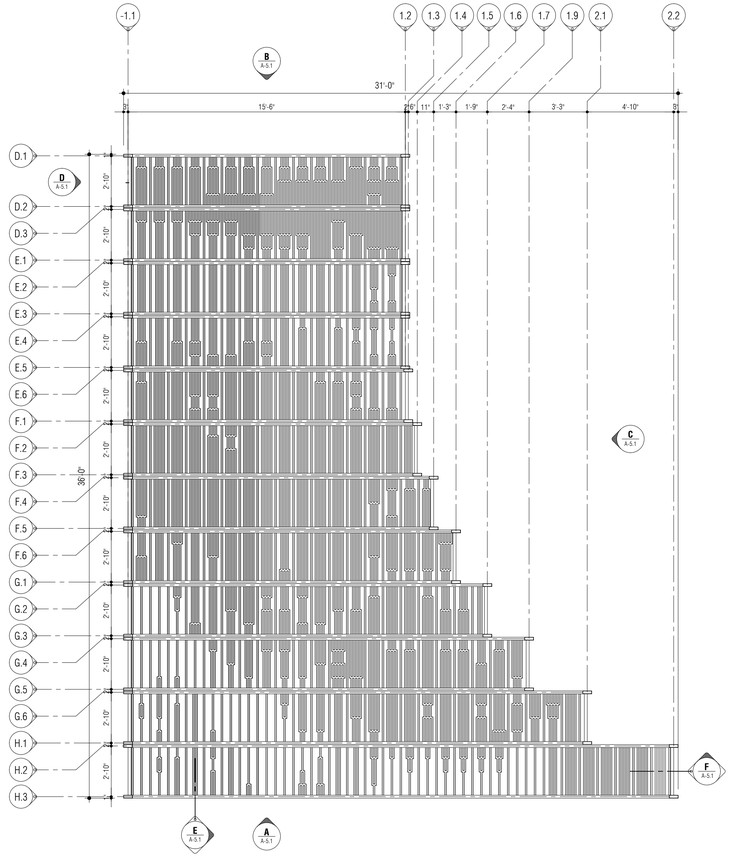
CERTIFICACIÓN - COPYRIGHTS + FIRM NAME

[illegible] DISPONIBLE Y PUESTAS EN OBRA, PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS DEBERÁN ESTAR EN EL SITIO DE LA OBRA. LOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS [illegible] CON JURISDICCIÓN. CERTIFICO QUE LOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NÚMERO 96 DEL 9 DE JULIO DE 1978, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA PROTEGER EL PÚBLICO CONTRA LA MALA PRÁCTICA EN LA ARQUITECTURA". [illegible] REGISTRO Y CON LA REGLAMENTACIÓN PROMULGADA POR LA MISMA. [illegible]



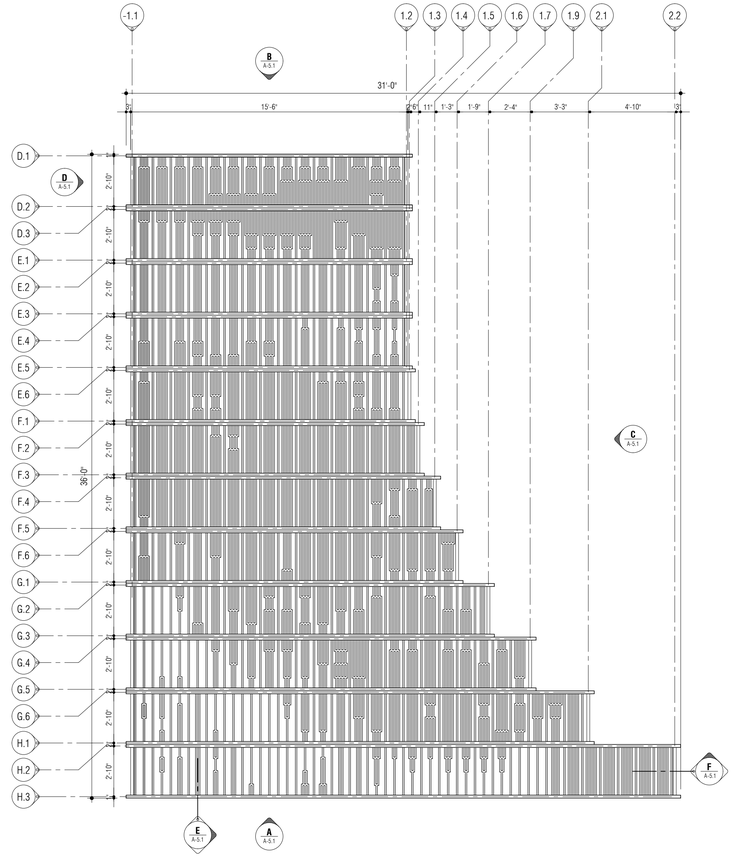
Gallery - Layout Plan

SCALE : ¼" = 1'-0" — 1 — A-5.0



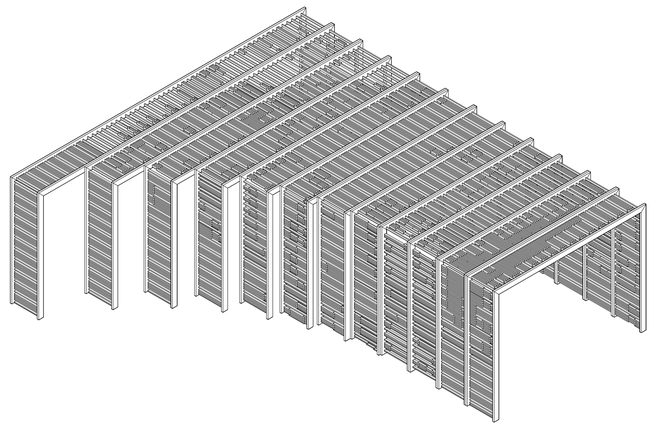
Gallery - Reflected Ceiling Plan

SCALE : ¼" = 1'-0" — 2 — A-5.0



Gallery - Roof Plan

SCALE : ¼" = 1'-0" — 3 — A-5.0



Gallery - Axon

NOT TO SCALE

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MAS 00CC III
EXP. 18.X.2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

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Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

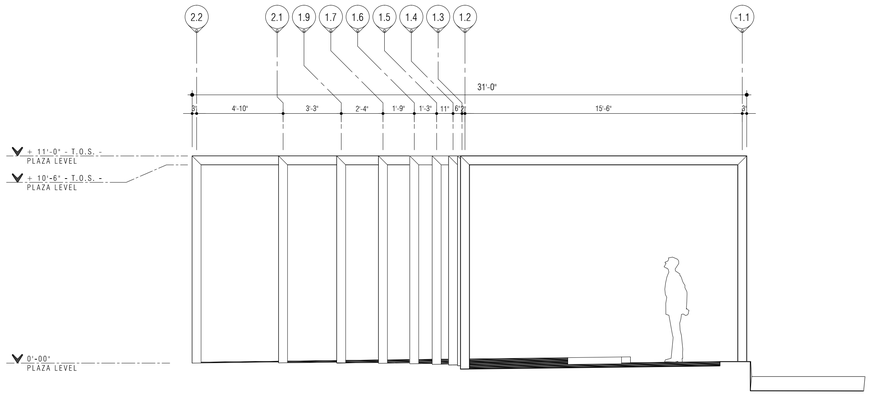
DWG. TITLE

Gallery Layout Plan

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 8
DRAWN BY jmb
DATE 05.ii.2024
DISCIPLINE

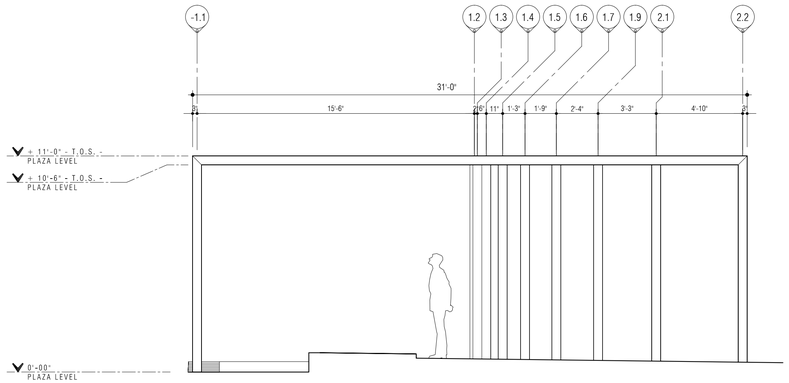
A-5.0



Gallery - Elevation

SCALE : ¼" = 1'-0"

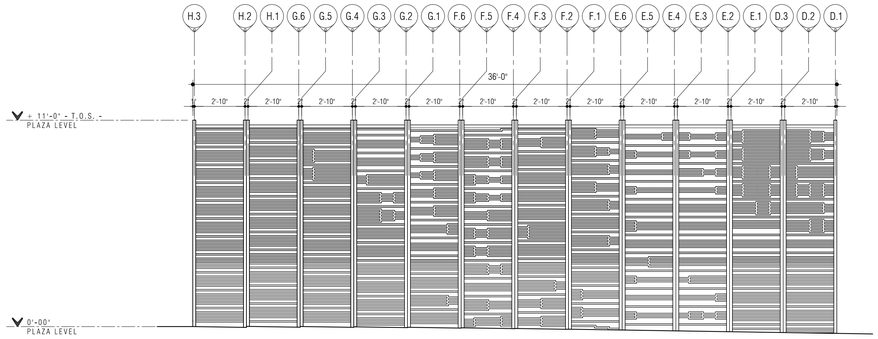
A
A-5.1



Gallery - Elevation

SCALE : ¼" = 1'-0"

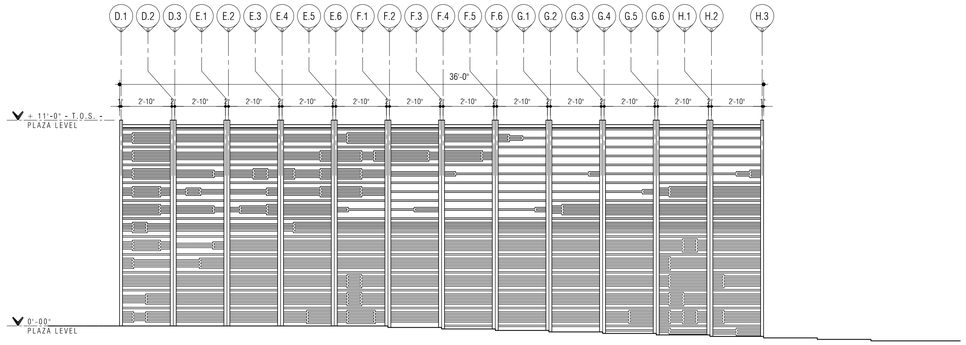
B
A-5.1



Gallery - Elevation

SCALE : ¼" = 1'-0"

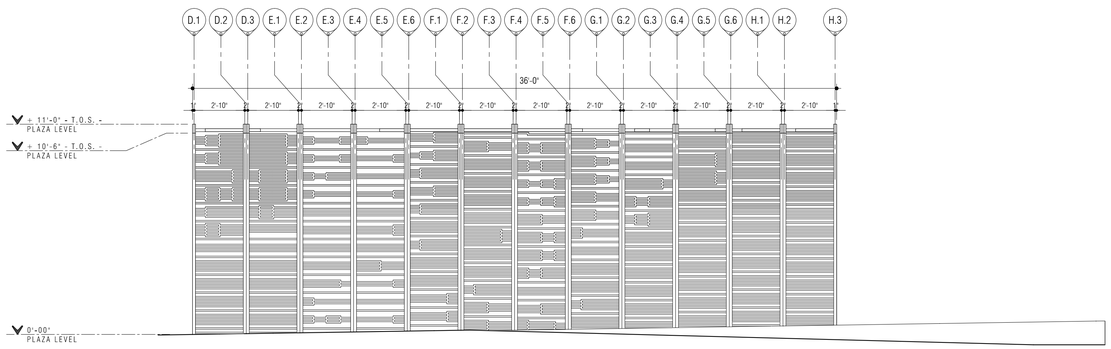
C
A-5.1



Gallery - Elevation

SCALE : ¼" = 1'-0"

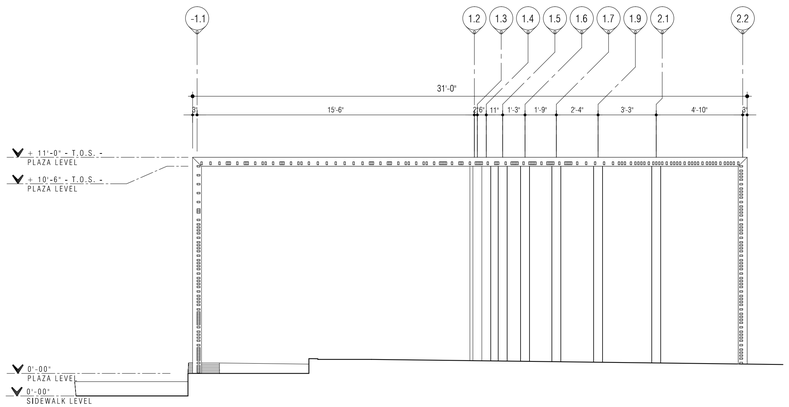
D
A-5.1



Gallery - Section

SCALE : ¼" = 1'-0"

E
A-5.1



Gallery - Section

SCALE : ¼" = 1'-0"

F
A-5.1

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manriquez botello puerto rico

LIC. MAS 00CC-111
EXP. 19.X.2025

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

Y O
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PREPARADOS POR ESTE OFICINA
SON INSTRUMENTOS DE SERVICIOS PROFESIONALES ESTOS
PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS
SON PROPIEDAD INTELECTUAL DE in.formation studio
PLANOS Y ESPECIFICACIONES ESCRITAS, COMPLEN CON LAS
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUC-
CION VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES
PUBLICAS
C O N
JURISDICCION, CERTIFICO;
QUE ESTOS PLANOS Y
PLIEGOS Y ESPECIFICA-
CIONES ESCRITAS HAN SIDO
PREPARADOS BAJO MI
SUPERVISION, CUMPLEN
CON LAS DISPOSICIONES DE
LA LEY NUMERO 96 DEL 9 DE
JULIO DE 1976, SEGUN
ENMENDADA, Y CUMPLEN CON
LAS PARTES QUE ME
COMPETEN DE LOS
REGLAMENTOS Y CODIGOS
APLICABLES A MI
ESPECIALIDAD.
FIRMADO EN MI PRESEN-
CIA, SELLADO Y
ENTREGADO EN MI
OFICINA, A LOS
DIAS DEL MES DE
DE 20

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Carolina, PR. 00979 - Office Tel: +1 (787) 256-0630
e-mail: info@informationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderon Musica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Gallery Elevations & Sections

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #
22-01

PROJECT PHASE
Construction Docs - 90%

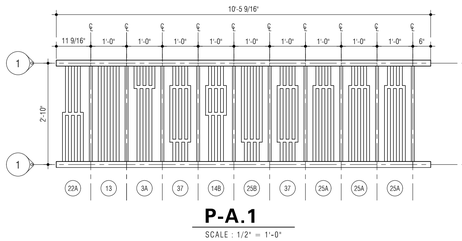
SHEET #
8

DRAWN BY
jmb

DATE
05.ii.2024

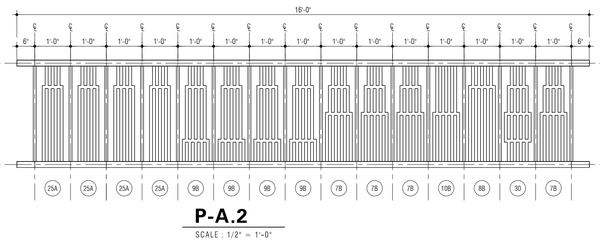
DISCIPLINE

A-5.1



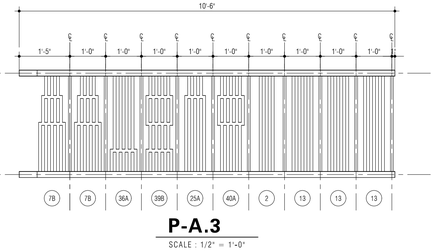
P-A.1

SCALE : 1/2" = 1'-0"



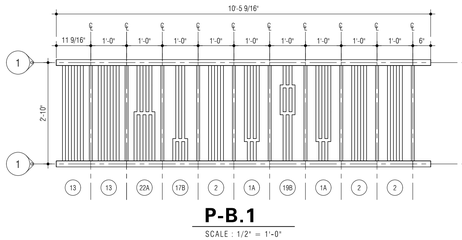
P-A.2

SCALE : 1/2" = 1'-0"



P-A.3

SCALE : 1/2" = 1'-0"



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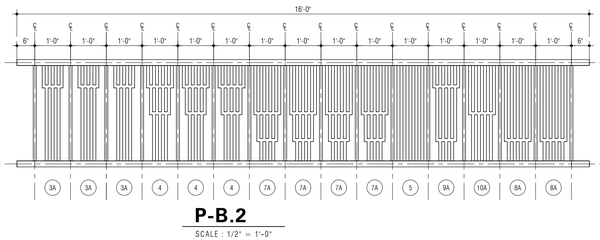
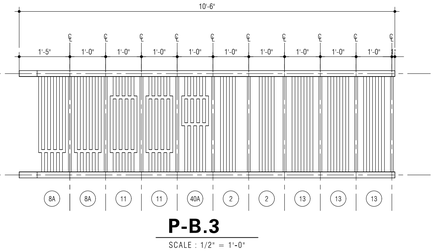
SCALE : 1/2" = 1'-0"



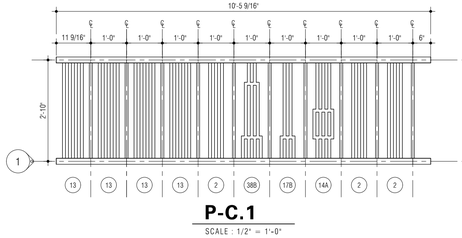
P-B.2

SCALE : 1/2" = 1'-0"



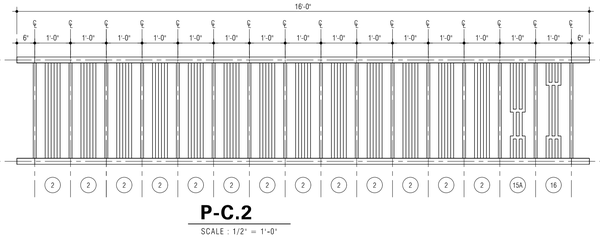
P-B.3

SCALE : 1/2" = 1'-0"



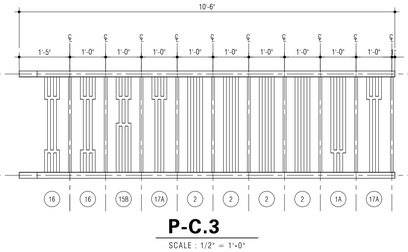
P-C.1

SCALE : 1/2" = 1'-0"



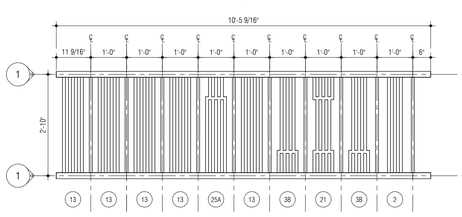
P-C.2

SCALE : 1/2" = 1'-0"



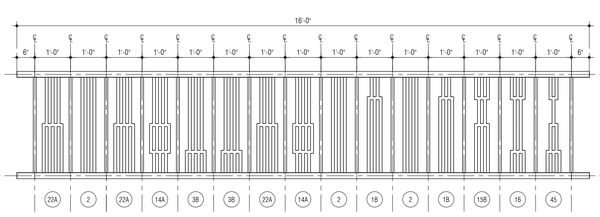
P-C.3

SCALE : 1/2" = 1'-0"



P-D.1

SCALE : 1/2" = 1'-0"



P-D.2

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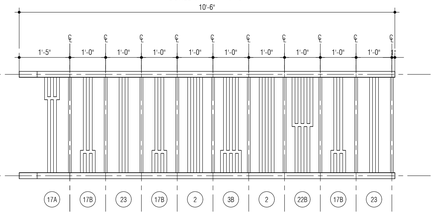

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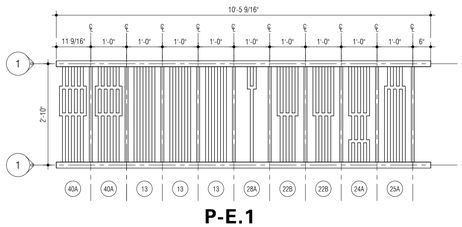
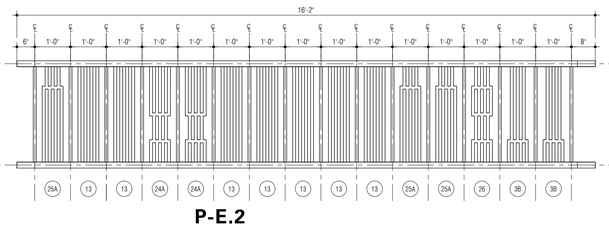


P-E.1

SCALE : 1/2" = 1'-0"



P-E.2

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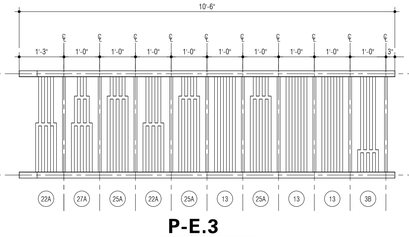

P-E.3

SCALE : 1/2" = 1'-0"

Gallery - Unfolded Layout

SCALE : ½" = 1'-0"

3
A-6.0

un cuarto de pulgada = un pie
un octavo de pulgada = un pie
un dieciseis de pulgada = un pie
un treinta y dos de pulgada = un pie

Notes:

1.0 Do not scalle dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico
LIC. VAK OCCC III
EXP. 19.X.2025

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

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ESTE DIBUJO ESPECIFICACIONES Y PLANOS SON
PLANOS Y LAS ESPECIFICACIONES COMPLEMENTOS
ESTÁN HECHOS DE ACUERDO CON LOS CÓDIGOS DE
PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-
CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTACIONES O CORPORACIONES
PÚBLICAS JURISDICCIÓN, CERTIFICO,
C O N BAJO LA GRAVEDAD DE JURAMENTO, QUE LOS
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LEY NÚMERO 96 DEL 9 DE
JULIO DE 1976, ENMENDADA, Y LA LEY NÚMERO 84 DEL 13 DE JULIO DE 1994,
PARA PROVEER, SEGÚN ENMENDADAS, Y PROVEEN EL DISEÑO PARA ACCESIBILIDAD
SEGÚN YA SEA EL DISEÑO REQUERIDO POR ESTAS LEYES.
ESTRUCTURAL, O POR EL CÓDIGO DE CONSTRUCCIÓN
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OTRO PROYECTO. UNA VIOLACIÓN
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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

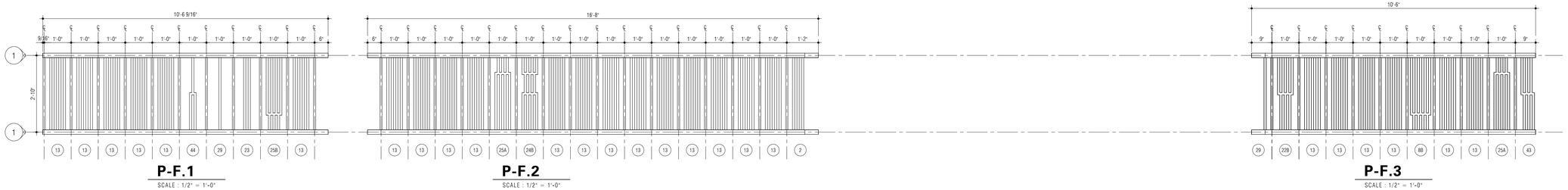
Gallery - Unfolded Layout Plan

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	imb / 05.ii.2024

DESCRIPTION

A-5.2



Gallery - Unfolded Layout

SCALE : ½ " = 1'-0"

3

A-6.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez bottello puerto rico

LIC. MAR. DCCC 11
EXP. 19.X.2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

Y O
PLANOS, ESPECIFICACIONES Y/O MEMORIAL DE CONSTRUCCIÓN
SELLADOS
ESTE SELLO CERTIFICA QUE ESTOS PLANOS, ESPECIFICACIONES Y/O MEMORIAL DE CONSTRUCCIÓN SELLADOS CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS QUE TENGAN JURISDICCIÓN. ESTOS PLANOS, ESPECIFICACIONES Y/O MEMORIAL DE CONSTRUCCIÓN SELLADOS CUMPLEN CABALMENTE CON LA LEY NÚMERO 10 DE 6 DE JUNIO DE 1972, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA PROTEGER EL DISEÑO ARQUITECTÓNICO DE PUERTO RICO", Y CON LA LEY NÚMERO 173 DE 12 DE AGOSTO DE 1988, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA PROTEGER EL DISEÑO ARQUITECTÓNICO DE PUERTO RICO". ESTOS PLANOS, ESPECIFICACIONES Y/O MEMORIAL DE CONSTRUCCIÓN SELLADOS NO SE HAN SELLADO PARA PROPÓSITOS DE CONSTRUCCIÓN.
S E L L A D O P O R : J. M. FECHA Y HORA DE SELLADO: 05/04/2024 10:00 AM
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SELLADO POR MEL ASENTES
ESTE SELLO CERTIFICA QUE ESTOS PLANOS, ESPECIFICACIONES Y/O MEMORIAL DE CONSTRUCCIÓN SELLADOS CUMPLEN CABALMENTE CON LA LEY NÚMERO 10 DE 6 DE JUNIO DE 1972, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA PROTEGER EL DISEÑO ARQUITECTÓNICO DE PUERTO RICO". ESTOS PLANOS, ESPECIFICACIONES Y/O MEMORIAL DE CONSTRUCCIÓN SELLADOS NO SE HAN SELLADO PARA PROPÓSITOS DE CONSTRUCCIÓN.
SELLADO POR MEL ASENTES

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

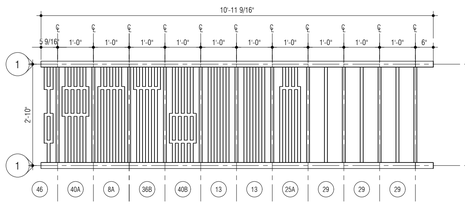
Gallery - Unfolded Layout Plan

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	imb / 05.ii.2024

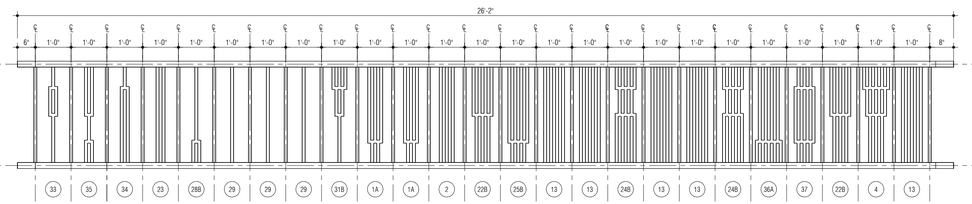
SHEET UNIT

A-5.3



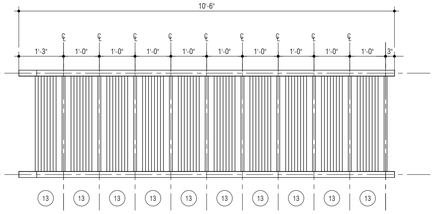
P-K.1

SCALE : 1/2" = 1'-0"



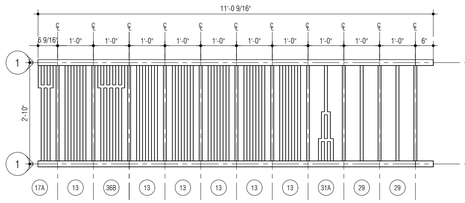
P-K.2

SCALE : 1/2" = 1'-0"



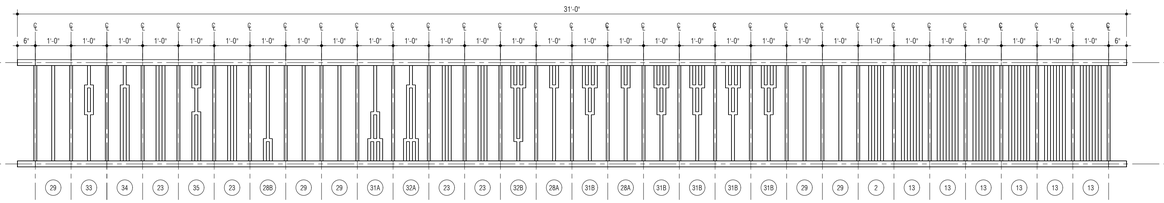
P-K.3

SCALE : 1/2" = 1'-0"



P-L.1

SCALE : 1/2" = 1'-0"



P-L.2

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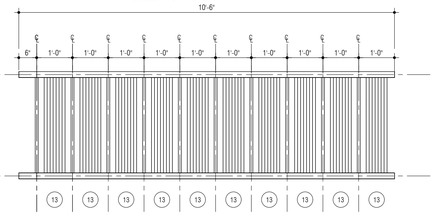

P-L.3

SCALE : 1/2" = 1'-0"

Gallery - Unfolded Layout

3
A-6.0

SCALE : ½" = 1'-0"

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manriquez botello puerto rico

LIC. NÚM. 00CCCIII
EXP. 19.X.2023

CERTIFICACIÓN - COPYRIGHTS + FIRM NAME

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Y DERECHOS RESERVADOS

ESTE PLANO: ESPECIFICIDAD Y PROPIEDAD ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS SON INSTRUMENTOS DE SERVICIO PROFESIONAL Y SON PROPIEDAD INTELECTUAL DE LOS ARQUITECTOS. LOS PLANOS Y ESPECIFICACIONES SE COMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O CORPORACIONES PUBLICAS Q U E TIENEN JURISDICCIÓN. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY DE DERECHOS DE AUTOR DE 1976, ENMENDADA HASTA FECHA, SEGÚN TA LEY DE DERECHOS DE AUTOR DE PUERTO RICO, LEY NÚMERO 96 DEL 15 DE JULIO DE 1988, ENMENDADA HASTA LA FECHA. ESTOS PLANOS Y ESPECIFICACIONES SON PROPIEDAD INTELECTUAL DE LOS ARQUITECTOS Y NO PODRÁN SER USADOS, PUBLICADOS O REPRODUCIDOS EN FORMA ALGUNA, PARCIAL O TOTAL, SIN EL CONSENTIMIENTO ESCRITO DE LOS ARQUITECTOS.

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COPYRIGHT PROTECTED.
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THIS PROJECT HEREIN IS, AND SHALL REMAIN THE EXCLUSIVE PROPERTY OF THE ARCHITECTS. THIS DRAWING SHALL BE USED AS A CONSTRUCTION DOCUMENT ONLY BY AGENCIES, PARTIES AND FOR THE PURPOSE AUTHORIZED BY THE ARCHITECTS. ANY UNAUTHORIZED USE, PARTIAL OR TOTAL REPRODUCTION OR MODIFICATION OF THIS DRAWING OR ANY PART THEREOF IS STRICTLY PROHIBITED WITHOUT THE WRITTEN CONSENT AND SHALL BE RETURNED TO THE ARCHITECTS.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

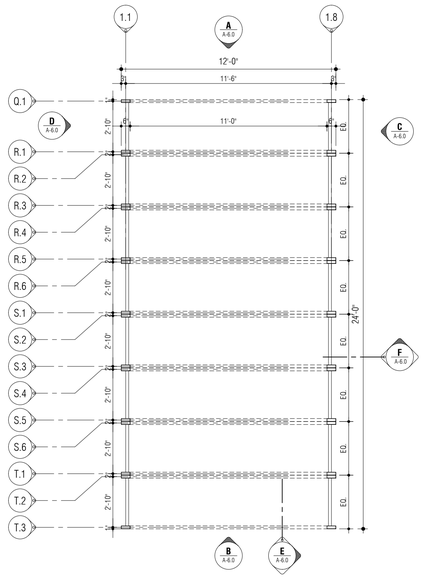
Gallery - Unfolded Layout Plan

CLIENT

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

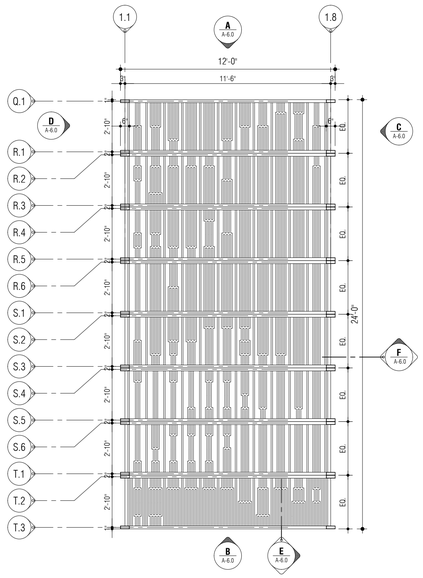
PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 8
DRAWN BY jmb
DATE 05.ii.2024
DISCIPLINE

A-5.4



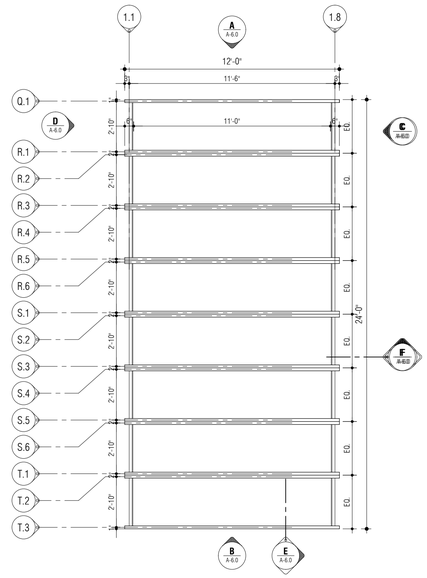
Pavilion - Layout Plan 1

SCALE : ¼" = 1'-0" A-6.0



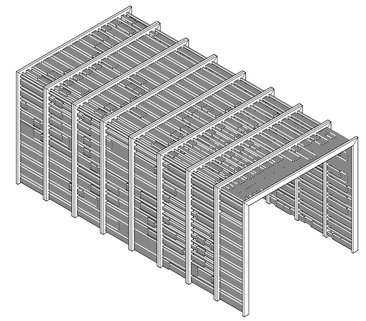
Pavilion - Reflected Ceiling Plan 2

SCALE : ¼" = 1'-0" A-6.0



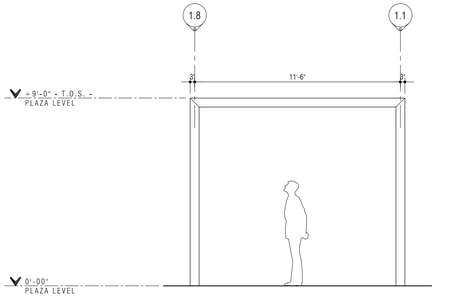
Pavilion - Roof Plan 3

SCALE : ¼" = 1'-0" A-6.0



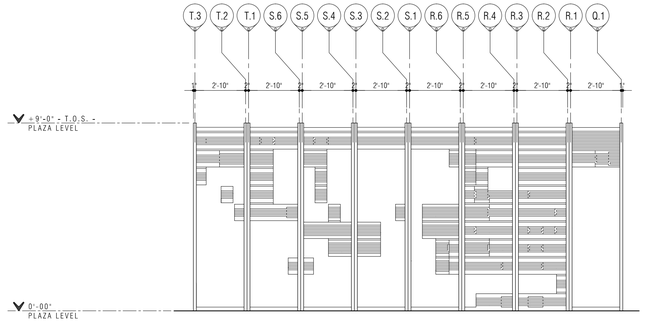
Pavilion - Axon

NOT TO SCALE



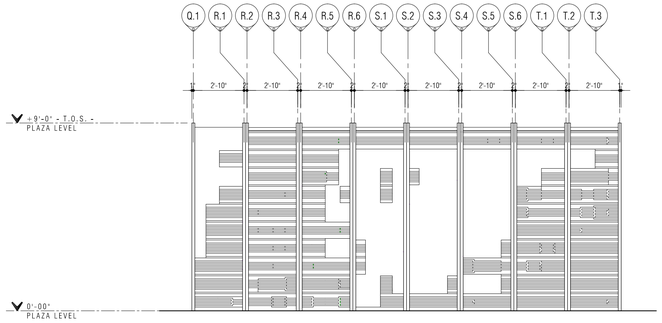
Pavilion - Elevation A

SCALE : ¼" = 1'-0" A-6.0



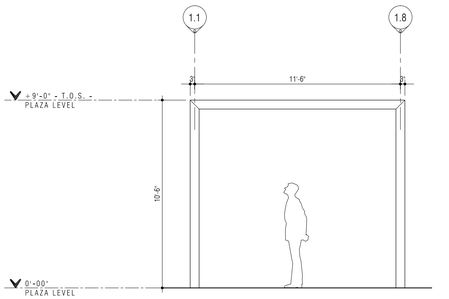
Pavilion - Elevation C

SCALE : ¼" = 1'-0" A-6.0



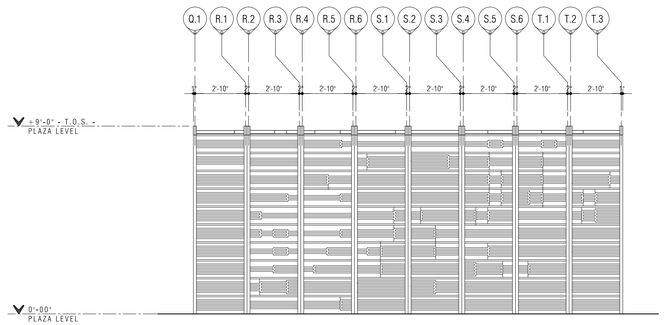
Pavilion - Elevation D

SCALE : ¼" = 1'-0" A-6.0



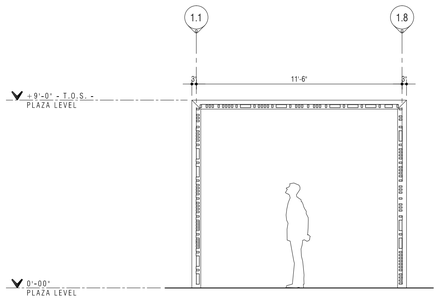
Pavilion - Elevation B

SCALE : ¼" = 1'-0" A-6.0



Pavilion - Section E

SCALE : ¼" = 1'-0" A-6.0



Pavilion - Section F

SCALE : ¼" = 1'-0" A-6.0

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

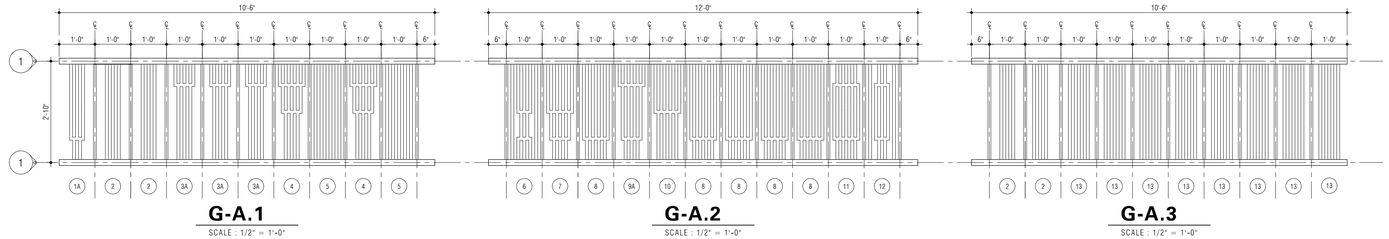
REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MXX DCCC IV
EXP. 1 R X 2025

CERTIFICACIÓN - COPYRIGHTS + VIEW RAME

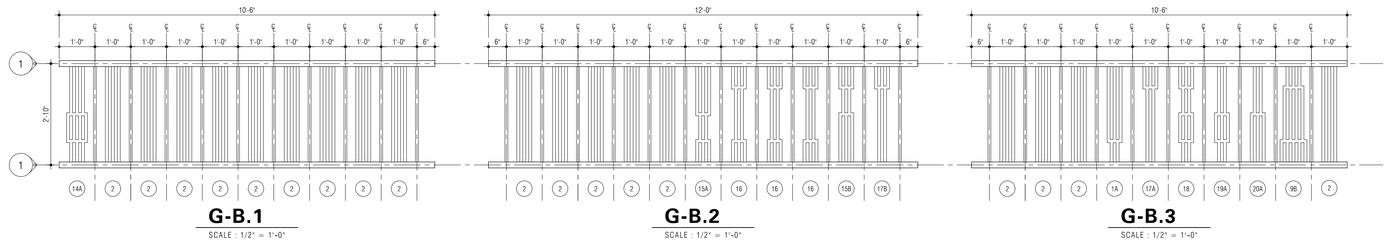
[illegible] DISEÑO PROFESIONAL REQUERIDO POR LA LEY NÚM. 173 DE 12 DE AGOSTO DE 1988, SEGÚN ENMENDADA. PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS PARA CONSTRUCCIÓN. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS JUNTOS REGLAMENTADORAS O CORPORACIONES PÚBLICAS C O N [illegible] CUMPLIDO CABALMENTE CON TODOS LOS REQUISITOS ESTABLECIDOS POR LA REGLAMENTACIÓN VIGENTE. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE



G-A.1 SCALE : 1/2" = 1'-0"

G-A.2 SCALE : 1/2" = 1'-0"

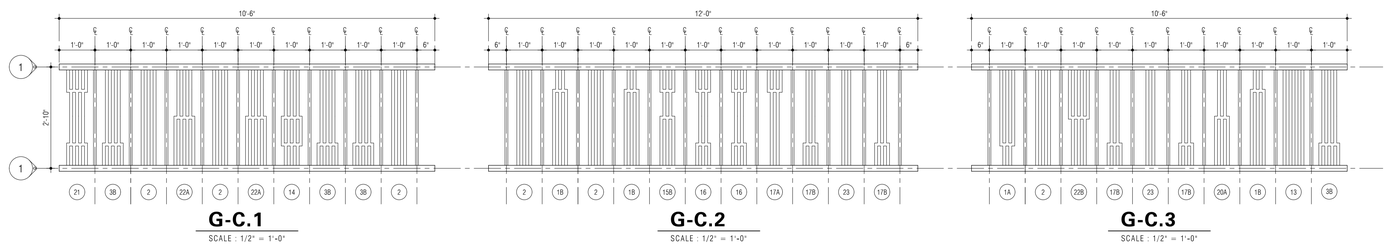
G-A.3 SCALE : 1/2" = 1'-0"



G-B.1 SCALE : 1/2" = 1'-0"

G-B.2 SCALE : 1/2" = 1'-0"

G-B.3 SCALE : 1/2" = 1'-0"



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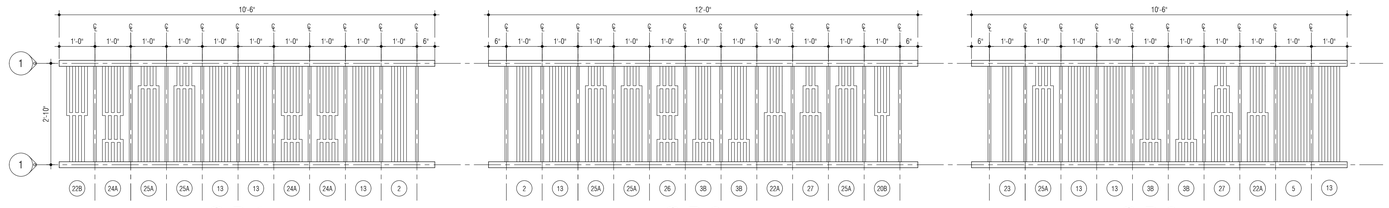
G-C.2 SCALE : 1/2" = 1'-0"

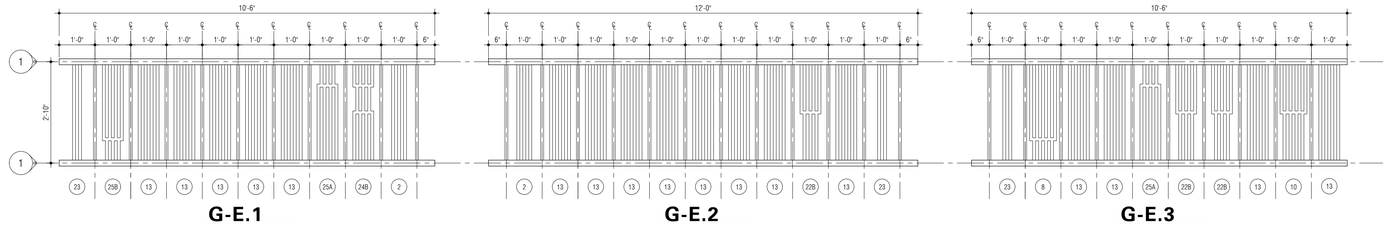
G-C.3 SCALE : 1/2" = 1'-0"



G-D.1 SCALE : 1/2" = 1'-0"

G-D.2 SCALE : 1/2" = 1'-0"

G-D.3 SCALE : 1/2" = 1'-0"



G-E.1 SCALE : 1/2" = 1'-0"

G-E.2 SCALE : 1/2" = 1'-0"

G-E.3 SCALE : 1/2" = 1'-0"

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MAS OCCC III
EXP: 19.X.2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

SEL.

DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O CORPORACIONES PÚBLICAS

C O N

S T R U C

CIONES DE AM-

B O S

T A D O S

COMO LA "1ST

STING TURTON-

JULIO DE 1979,

ENMENDADA,

HAYA PRODUCI-

DENSIN TA SEN

TIDO LA(S) OBRA(S)

ESPECIFICADA(S)

P O R - LA

TAS ANTICI-

L I C. AND

E R S O N

ENTRA-

PUER-

TO PROJECT MEDIA OR

SIA SEAN DECEMENT AS THE REPRODUCTION CONSIDERED

VISION IS STRICTLY PROHIBITED WITHOUT THE WRITTEN

CONSENT AND SHALL BE RETURNED TO

INFORMATION STUDIO.

J U R I S D I C C I O N

P R O - L A

REGULADA Y DON LA

DISEÑO ENMENDADA,

ESTÁ PROTEGIDA

SO POR DERECHOS

POR WC. NOS ASENTIS

TAS ANTICIPADOS

EN CALIFORNIA CODES.

DEPT: THIS DRAWING

(S)TOTAL PROPERTY OF

SHALL BE USED AS A

CONSTRUCTION DOCU-

MENT ONLY BY AUTHO-

DERNEL AND FOR THE

PROJECT NOTED ABOVE.

JURISDICCIÓN

PROTEGIDA POR DERE-

CHOS DE AUTOR(ES).

ESTÁ PROHIBIDA LA

REPRODUCCIÓN, TOTAL

O PARCIAL, DE ESTE

DISEÑO SIN EL PERMI-

SO ESCRITO DE LA(S)

PERSONA(S) AUTORIZA-

DA(S) POR EL(LOS)

DUEÑO(S) DE LA(S)

OBRA(S) ESPECIFICA-

DA(S) EN ESTE DISEÑO.

CERTIFICACIÓN

PROFESIONAL

Yo

(NOMBRE PROFESIONAL EN LETRA DE IMPRENTA)

CERTIFICO QUE:

ESTOS PLANOS Y ESPECIFICACIONES

PLANOS Y LAS ESPECIFICACIONES COMPLEMENTA-

RIAS SOMETIDAS CUMPLEN CON LOS

PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS

DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-

CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O CORPORACIONES

PÚBLICAS

J U R I S D I C C I O N

C O N

JURISDICCIÓN, CERTIFICO:

QUE LOS PLANOS Y ESPECIFICA-

CIONES

PLANOS Y ESPECIFICA-

CUMPLEN CABALMENTE

CIONES SOMETIDOS

CON LAS DISPOSICIONES

APLICABLES DE LOS REGLA-

MENTOS Y CÓDIGOS DE CONS-

TRUCCIÓN VIGENTES EN PUERTO RICO,

INCLUYENDO PERO SIN LIMITARSE A LA

LEY NÚMERO 96 DEL 9 DE

JULIO DE 1979, SEGÚN ENMENDADA,

Y SUS REGLAMENTOS.

PROYECTO(S) POR NOSO-

TROS(AS) PREPARADO(S)

O SUPERVISADO(S) BAJO

NUESTRA DIRECTRIZ PROFESIONAL

Y QUE EL(LOS) MISMO(S) HA(N) SIDO

DISEÑADO(S) PARA SER CONSTRUIDO(S)

EN EL SOLAR LOCALIZADO EN:

REVISÓ:

F E C H A :

S E L O :

OFICIAL

n.formation
s t u d i o
landscape . architecture . product
6177 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

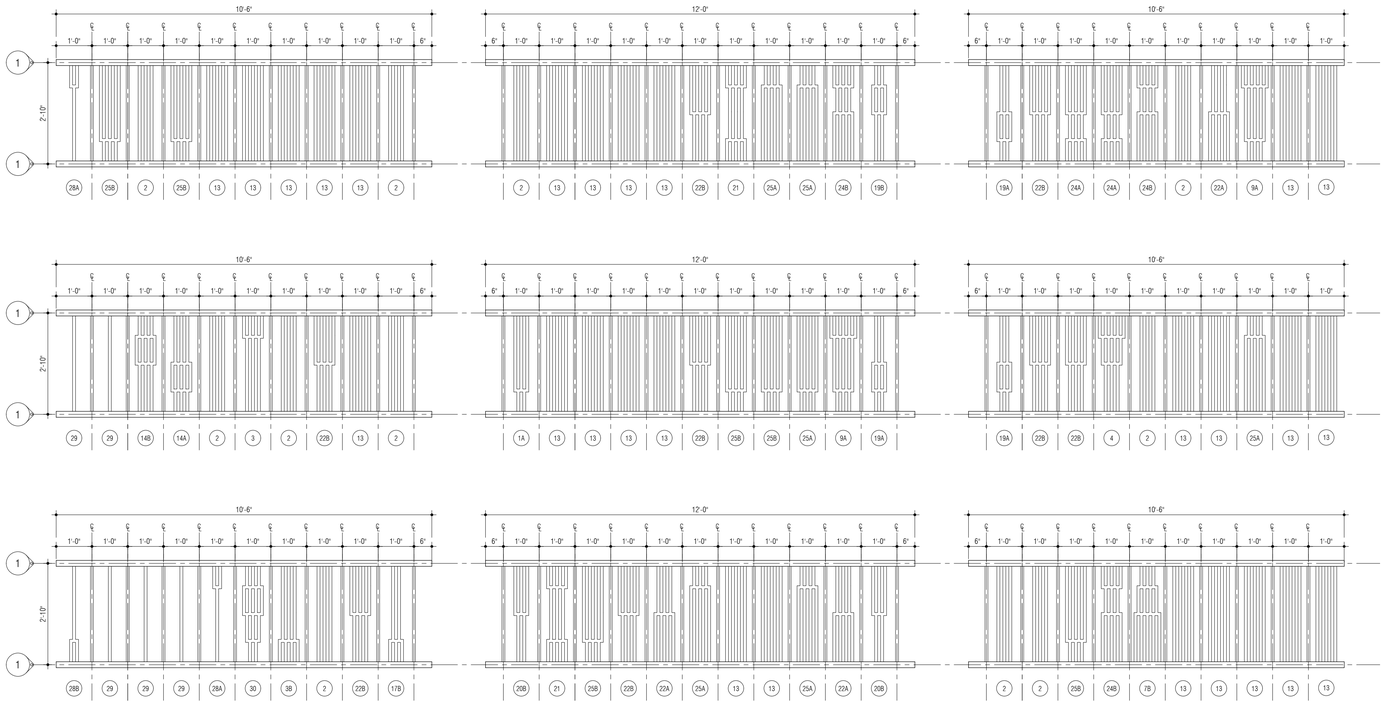
DWG. TITLE

Pavilion - Unfolded Layout Plan

CLIENT	
Municipio de Canóvanas - Hon. Lornna Soto Villanueva	
PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	jmb / 05.ii.2024

DESCRIPTION

A-6.1



Pavilion - Unfolded Layout

SCALE : 1" = 1'-0"

3
A-6.0

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REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. MAX DCCC III
EXP. 19 X 2025

CERTIFICACION - CERTIFICATE - FIRM NAME

[illegible]

in.formation studio

landscape . architecture . product

6777 Av. Isla Verde, Edificio Isla Verde Mall - Suite 221
Carolina, PR, 00979 - Office Tel: +1 (787) 256-0630
e-mail: info@informationstudio.com

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Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

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Pavilion - Unfolded Layout Plan

CLIENT

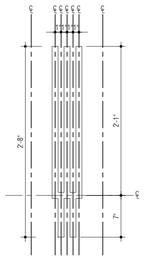
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
8	jmb	05.ii.2024

DISCIPLINE

A-6.2



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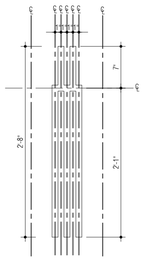

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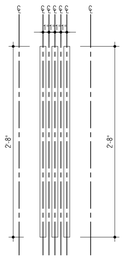

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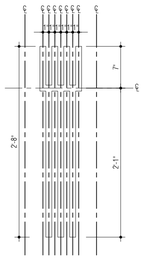

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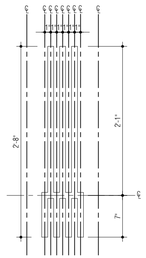

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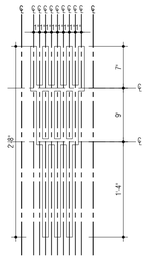

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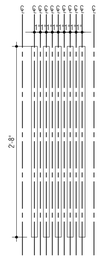

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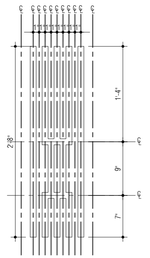

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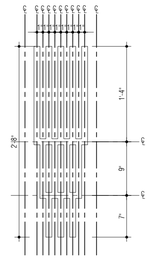

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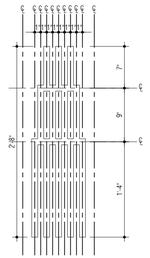

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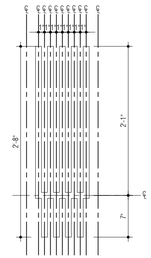

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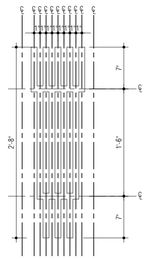

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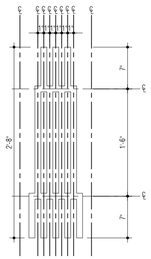

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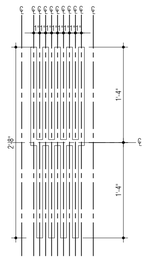

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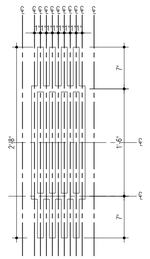

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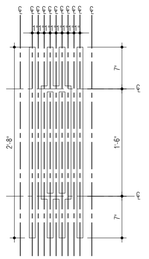

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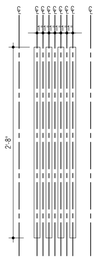

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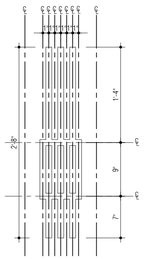

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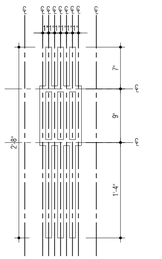

Type 14B

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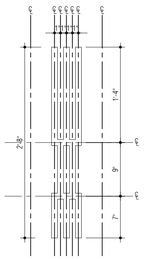

Type 15A

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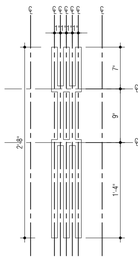

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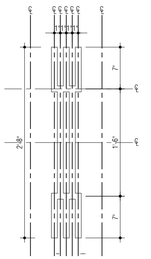

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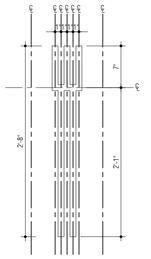

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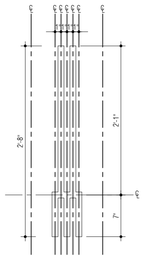

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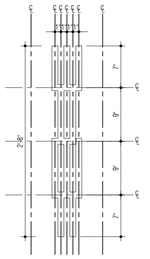
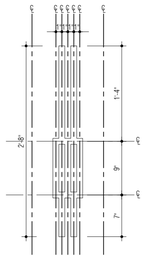


Type 18

SCALE : 1 " = 1'-0"
QUANTITY: N



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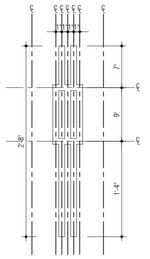

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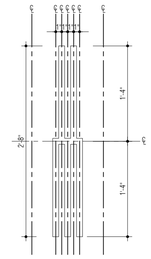
QUANTITY: N



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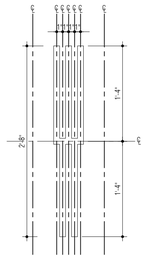

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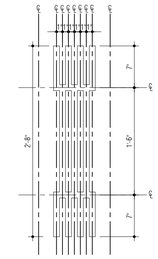

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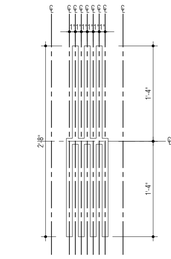

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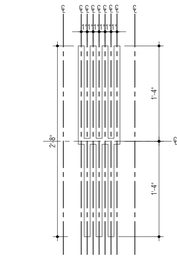

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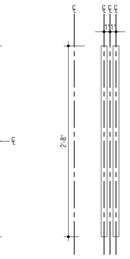

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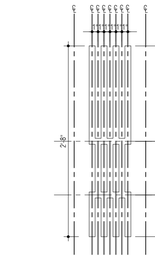

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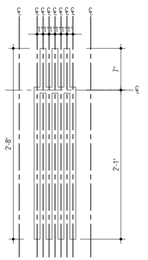

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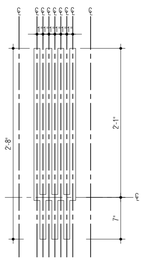

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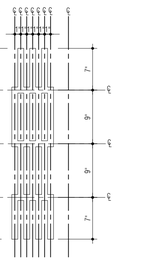

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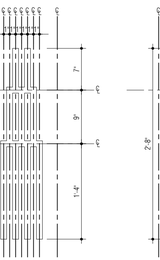

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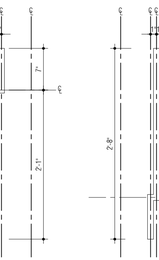

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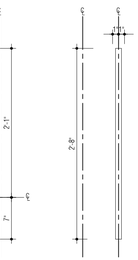

Type 28B

SCALE : 1 " = 1'-0"
QUANTITY: N

Type 29

SCALE : 1 " = 1'-0"
QUANTITY: N

Type 30

SCALE : 1 " = 1'-0"
QUANTITY: N

Type 31A

SCALE : 1 " = 1'-0"
QUANTITY: N

Type 31B

SCALE : 1 " = 1'-0"
QUANTITY: N

Type 32A

SCALE : 1 " = 1'-0"
QUANTITY: N

Type 32B

SCALE : 1 " = 1'-0"
QUANTITY: N

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

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julián manriquez botello
LIC. MAS 00CC III
EXP. 19.X.2025

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6177 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Pavilion - Unfolded Layout Plan

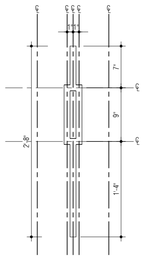
CLIENT

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	jmb / 05.ii.2024

DISCIPLINE

A-6.3



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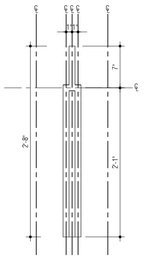

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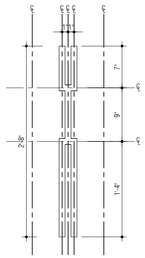

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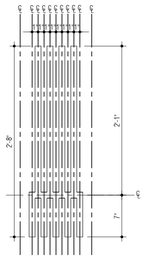

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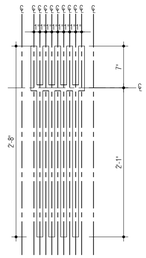

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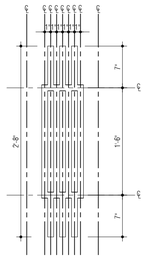

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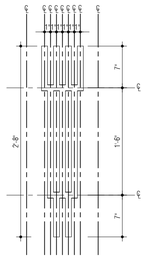

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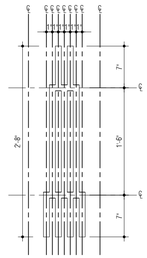

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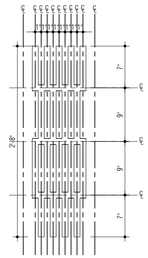

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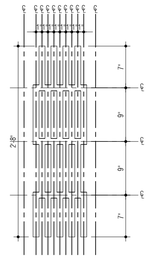

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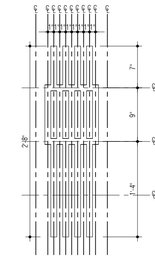

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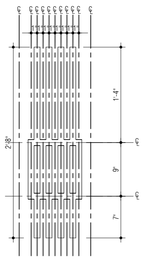

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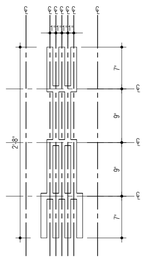

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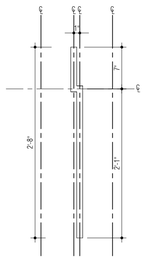

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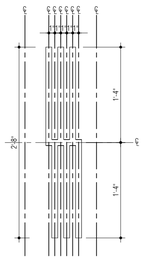

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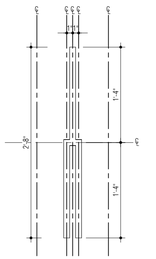

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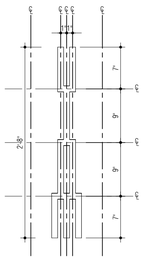

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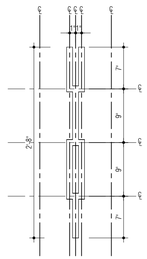

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SCALE : 1 " = 1'-0"
QUANTITY: N

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1	05/ix/17	Explanation

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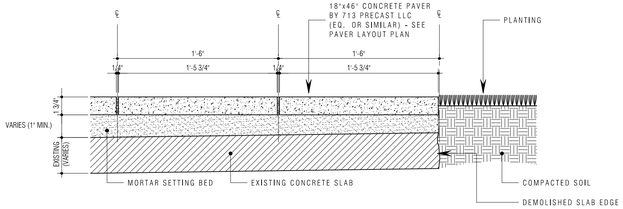
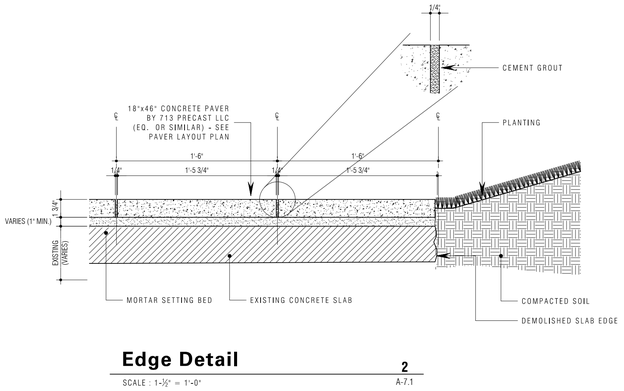
CCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES Y CORPORACIONES
PÚBLICAS C O N JURISDICCIÓN, CERTIFICO;
QUE LOS MISMOS HAN SIDO
P R E P A R A D O S BAJO MI
CUIDADO SE HA PREPARADO
Y SUPERVISADO LOS
PLANOS Y ESPECIFICA-
CIONES Y QUE LA MISMA
CUMPLEN CABALMENTE
CON LA LEY NÚMERO 173
DEL 1988 SEGÚN ENMENDADA,
CONOCIDA LA "LEY
ORGÁNICA DE LA OFICINA
DEL GOBERNADOR PARA
ASUNTOS DE LA VIEJA
SAN JUAN" Y LA LEY
NÚMERO 9 DEL 24
DE AGOSTO DE 1970,
SEGÚN ENMENDADA,
CONOCIDA COMO LA
"LEY PARA PROTEGER
EL PAISAJE Y LA
BELLEZA Y CON LA
VISTA PANORÁMICA
DESDE LAS CARRETE-
SEGUN TU SEAN
RAS Y AUTOPISTAS".
ESTOS PLANOS Y
ESPECIFICACIONES
SU PUN DISEÑADO
FUERON PREPARADOS
POR MÍ, MIS AGENTES
O EMPLEADOS BAJO
MI SUPERVISIÓN.
ESTOS PLANOS Y
ESPECIFICACIONES
SON PROPIEDAD
DEL ARQUITECTO
QUIEN LOS PREPARÓ
Y NO PUEDEN SER
UTILIZADOS EN
NINGUNA OBRA
SIN SU AUTORIZACIÓN
POR ESCRITO



Edge Detail

SCALE : 1-½" = 1'-0"

1 A-7.1



Edge Detail

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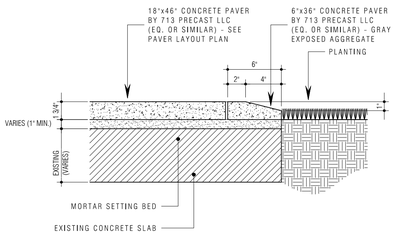
2 A-7.1



Tree Planter Edge Detail (Typ)

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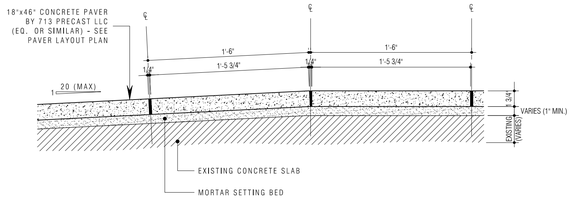
3 A-7.1



Ramp Detail (Typ)

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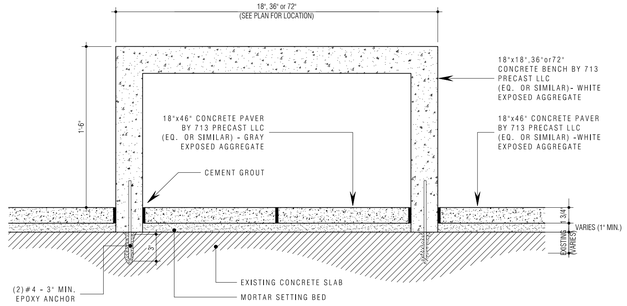
4 A-7.1



Bench Detail (Typ)

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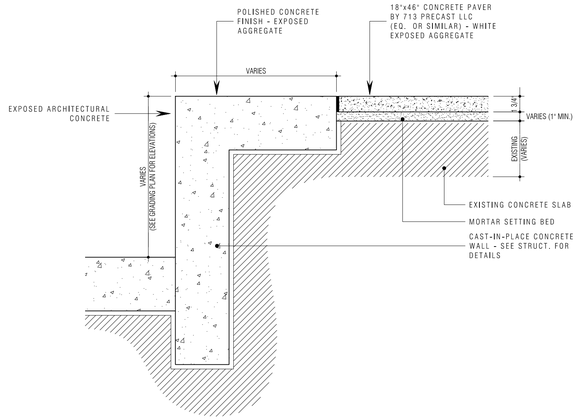
5 A-7.1



Perimeter Wall Detail (Typ)

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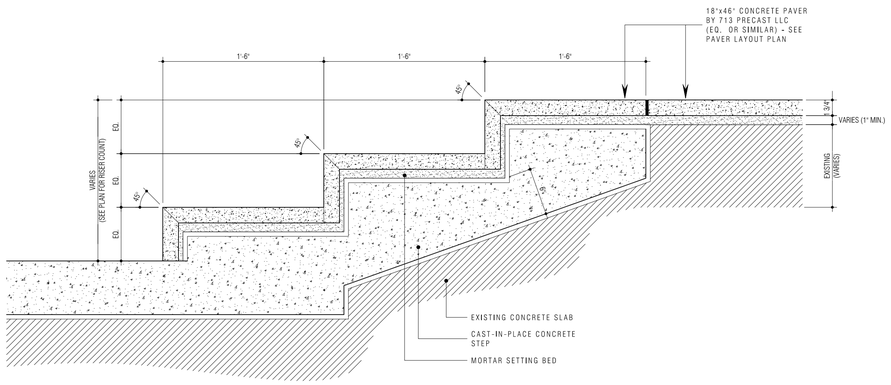
6 A-7.1



Stair Detail (Typ)

SCALE : 1-½" = 1'-0"

7 A-7.1

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julián manriquez botello puerto rico

LIC. MXX CCCC PR EXP. 18.X.2025

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in.formation studio

landscape . architecture . product

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderon Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

OWG. TITLE

Paper - Details

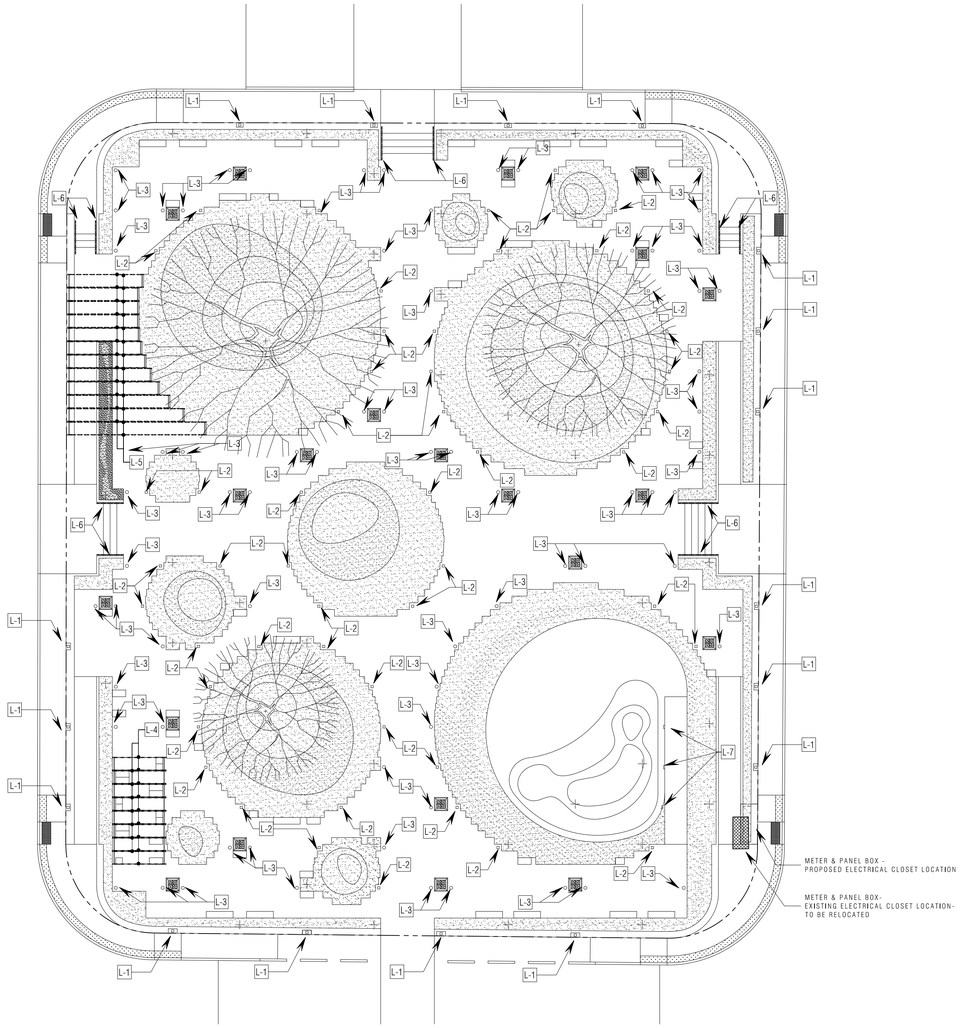
CLIENT

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	jmb / 05.ii.2024

DISCIPLINE

A-7.1



Proposed Lighting Layout Plan

SCALE : 1/16" = 1'-0"

LIGHT FIXTURE SCHEDULE							
ID	DESCRIPTION	HEIGHT	LENGTH	INPUT VOLTAGE (V)	POWER (W)	LOCATION	REQ.
L-1	UVA-20251 VANCOUVER 55 - LIGHT COLUMN - BY LIGMAN LIGHTING	9.8'	-	220 - 240	33	SIDEWALK - SEE LIGHTING LAYOUT	17
L-2	UVA-10151 VANCOUVER 39 - BOLLARD - BY LIGMAN LIGHTING	40"	-	220 - 240	15	VARIES - SEE LIGHTING LAYOUT	51
L-3	UMK-60695 Mask 2 Ingrade 2 Sector 90°/90°	2"	-	220 - 240	8	VARIES - SEE LIGHTING LAYOUT	72
L-4	NEONFLEX PRO V - LINEAR LIGHTING - BY AMERICAN LIGHTING	-	366' (TOTAL LENGTH)	24V DC	3.05 / FT	PAVILION	-
L-5	NEONFLEX PRO V - LINEAR LIGHTING - BY AMERICAN LIGHTING	-	600' (TOTAL LENGTH)	24V DC	3.05 / FT	GALLERY	-
L-6	NEONFLEX PRO V STATIC WHITE - LINEAR LIGHTING - BY AMERICAN LIGHTING	-	9'	24V DC	3.05 / FT	HANDRAIL	10
L-7	HSL13 STATIC WHITE - STEP LIGHT - BY HYDREL	-	-	120 - 277	8	STAGE ENTRY	3

Notes

1-EMT CONDUIT SHALL BE USED EXCEPT WHERE NOT ALLOWED BY N.E.C. OR UNLESS OTHERWISE INDICATED, 3/4" IPS MINIMUM SIZE.

2-EMT FITTINGS SHALL BE CONCRETE TIGHT.

3-THHN WIRE SHALL BE USED UNLESS OTHERWISE INDICATED, #12 A.W.G. MINIMUM SIZE.

4-WIRING DEVICES AND PLATES SHALL BE WHITE COLORED, SPECIFICATION GRADE.

5-ELECTRICAL INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH N.E.C. AND P.R.E.P.A. REGULATIONS, LATEST EDITION.

6-INSTALLATION DETAILS ARE ILLUSTRATIVE AND SHOULD NOT BE USED WITHOUT VERIFYING JOB SITE CONDITIONS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ANY DEVIATION THEREFROM.

7-DIMENSIONS OF JUNCTION OR PULL BOXES SHALL BE REVISED BY ELECTRICAL CONTRACTOR ACCORDING TO ACTUAL FIELD CONDITIONS TO SECURE AT LEAST PERMISSIBLE MINIMUM CABLE BENDING RADIUS.

8-ALL CONVENIENCE RECEPTACLES SHALL HAVE A #12 GREEN JUMPER BETWEEN RECEPTACLE GROUNDING SCREW AND THE OUTLET BOX GROUNDING SCREW.

9-CONNECTIONS IN WIREWAYS SHALL BE MADE BY USE OF CABLE CONNECTION BLOCKS EQUAL OR SIMILAR TO "KEYTAP" AS MANUFACTURED BY KEYSTONE MFG. CORP.

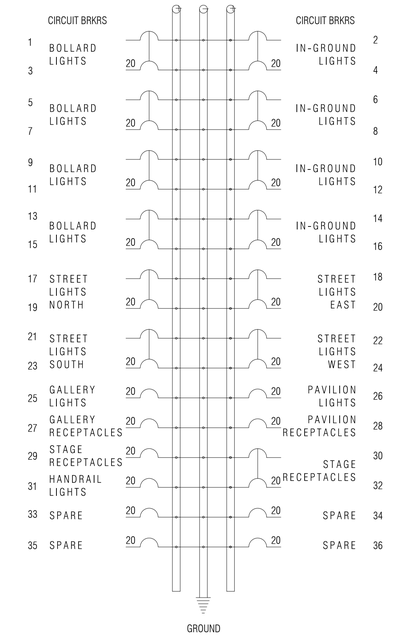
10-RACEWAY SHALL BE PROVIDED WITH APPROVED EXPANSION FITTINGS WHERE CROSSINGS BUILDING EXPANSION JOINT.

11-ELECTRICAL CONTRACTOR SHALL PROVIDE POWER & CONNECT ALL EQUIPMENT FURNISHED UNDER OTHER SECTION OF THE SPECIFICATIONS. FINAL CONNECTION SHALL BE DONE UNDER THE SUPERVISION OF THE RESPECTIVE CONTRACTORS.

12-LAUNDRY RECEPTACLES SHALL BE INSTALLED 6' ABOVE WATER FAUCETS SERVING WATER.

13-ANY UNDERGROUND CONDUIT FOR SECONDARY FEEDER SHALL BE BURIED AT A MINIMUM DEPTH OF 36" BELOW FINISHED GRADE, UNLESS COVERED BY 4" CONCRETE ENVELOPE IN WICH CASE MINIMUM DEPTH SHALL BE 18" BELOW FINISHED GRADE.

ELECTRICAL LOAD DISTRIBUTION
PANEL NO:1
RECESSED MOUNTED
100 AMPS CIRCUITS
120/220 VOLTS SINGLE PHASE



Demolition notes

1-CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT AND MATERIALS FROM AREAS TO BE REMODELED, TAKING CARE THAT CIRCUITS THAT ARE TO BE KEPT ENERGIZED, ARE COORDINATED TO MAINTAIN THESE SERVICES.

2-EXISTING CIRCUITS AFFECTED BY THIS REMODELING SHALL BE VERIFIED SO THAT THEY ARE LEFT WITHOUT SHORTS AND FREE FROM ANY DEFECTS.

3-IN ALL AREAS TO BE REMODELED, THE CONTRACTOR SHALL REMOVE ALL CONDUITS NOT EMBEDDED IN CONCRETE. CONDUITS EMBEDDED IN CONCRETE THAT ARE TO BE ABANDONED SHALL REMAIN WITHOUT ANY CONDUCTORS. ALL BOXES SHALL BE PROVIDED WITH BLANK PLATES.

4-CONTRACTOR SHALL VERIFY IN FIELD ALL ELECTRICAL OUTLETS, SWITCHES AND JUNCTION BOXES. SOME MAY BE RELOCATED TO MEET ARCHITECTURAL INTENTIONS.

TL812 OR APPROVED
BRANCH SERVICE CONDUIT 3#2
THW/1-8THW IN 1 1/2" PVC

DISTRIBUTION PANEL TYPE
GENERAL ELECTRIC MODEL NO

RANGE CIRCUIT 3#6 THW IN 3/4" PVC
ALL OTHER CIRCUIT 3#12 THW IN 1/2" PVC
(GROUND ALL CIRCUITS WITH 1#12 THW)

NOTE: 3 WIRE WITH GROUND REQUIRED FOR ALL CEILING OUTLETS.

Legend

J	JUNCTION BOX IN HUNG CEILING
J	WALL MOUNTED JUNCTION BOX, HEIGHT AS SHOWN ON DWGS.
	CEILING LIGHTING OUTLET.
	WALL LIGHTING OUTLET.
	FLOOD LIGHTING OUTLET.
	LINEAR CEILING LIGHTING OUTLET.
	DUPLEX RECEPTACLE 20A- 125V- 3W- GD. TYPE.
	DUPLEX SPLIT WIRE RECEPTACLE 20A- 125V- 3W, GROUNDING TYPE, ONE SIDE CONTROLLED BY SWITCH, AT 1'-6" A.F.F.
	DUPLEX RECEPTACLE 20A- 125V- 3W GROUNDING TYPE W/G.F.C.I. AT 3'-6" A.F.F.
	SINGLE RECEPTACLE 30A-125/250V-4W-3POLE-GROUNDING TYPE
$	SINGLE POLE SWITCH 20A- 277V- QUIET TYPE, 4'-6" A.F.F.
$ 3W	DITTO, BUT 3 WAY.
$ 4W	DITTO, BUT 4 WAY.
$	DOUBLE POLE SWITCH 30A,250V,3W, QUIET TYPE, AT 4'-0" A.F.F.
	CONDUIT EMBEDDED IN FLOOR SLAB OR WALLS.
	CONDUIT RUN EXPOSED OR EMBEDDED IN WALLS OR CEILING.
	CONDUIT IN HUNG CEILING OR WALLS.
	CONDUIT RUN TO EXISTING PANEL BOARD.
	ELECTRIC PANELBOARD, SEE PANEL SCHEDULE.
E	DENOTES "EXISTING".
A.F.F.	DENOTES "ABOVE FINISH FLOOR".
WP	DENOTES "WATER PROOF".
J	WATER TIGHT PVC JUNCTION BOX.
	COMBINATION MAGNETIC STARTER & FUSIBLE DISCONNECT SWITCH.

Notes:

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3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS		
1	05.ix.17	Explanation
REV. #	DATE	ISSUING REASON

PROFESSIONAL SEAL

CERTIFICADOS - COPYRIGHTS - FIRM NAME

V. B.
PLANOS PRESENTADOS RECIBIDOS
DEPARTAMENTO DE LA VIVIENDA
SOMETIMIENTO: ESPECIFICACIONES Y PLANOS ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTAN- SE MU. DISPOSICIONES APLICABLES DEL LOS REGLAMENTOS Y CODIGOS DE CONSTRU- CCION VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. C O N
JURISDICCION, CERTIFICO: QUE ESTOS PLANOS Y ESPECIFICA- CIONES Y ESPECIFICA- CUMPLEN CABALMENTE CON LAS DISPOSICIONES DE LA REGLAMENTO O PUR NUEVA CONSTRUCCION REGLAMENTO PUR LA PROVI- LEY NUMERO 96 DEL 9 DE JULIO DE 1985, SEGUN ENMENDADA.
REGLAMENTO O PUR NUEVA CONSTRUCCION O MEJORAS O AMPLIACIONES, O PUR LEY NUMERO 76 DEL 5 DE AGOSTO DE 1975, SEGUN ENMENDADA.
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PROJECT TEE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

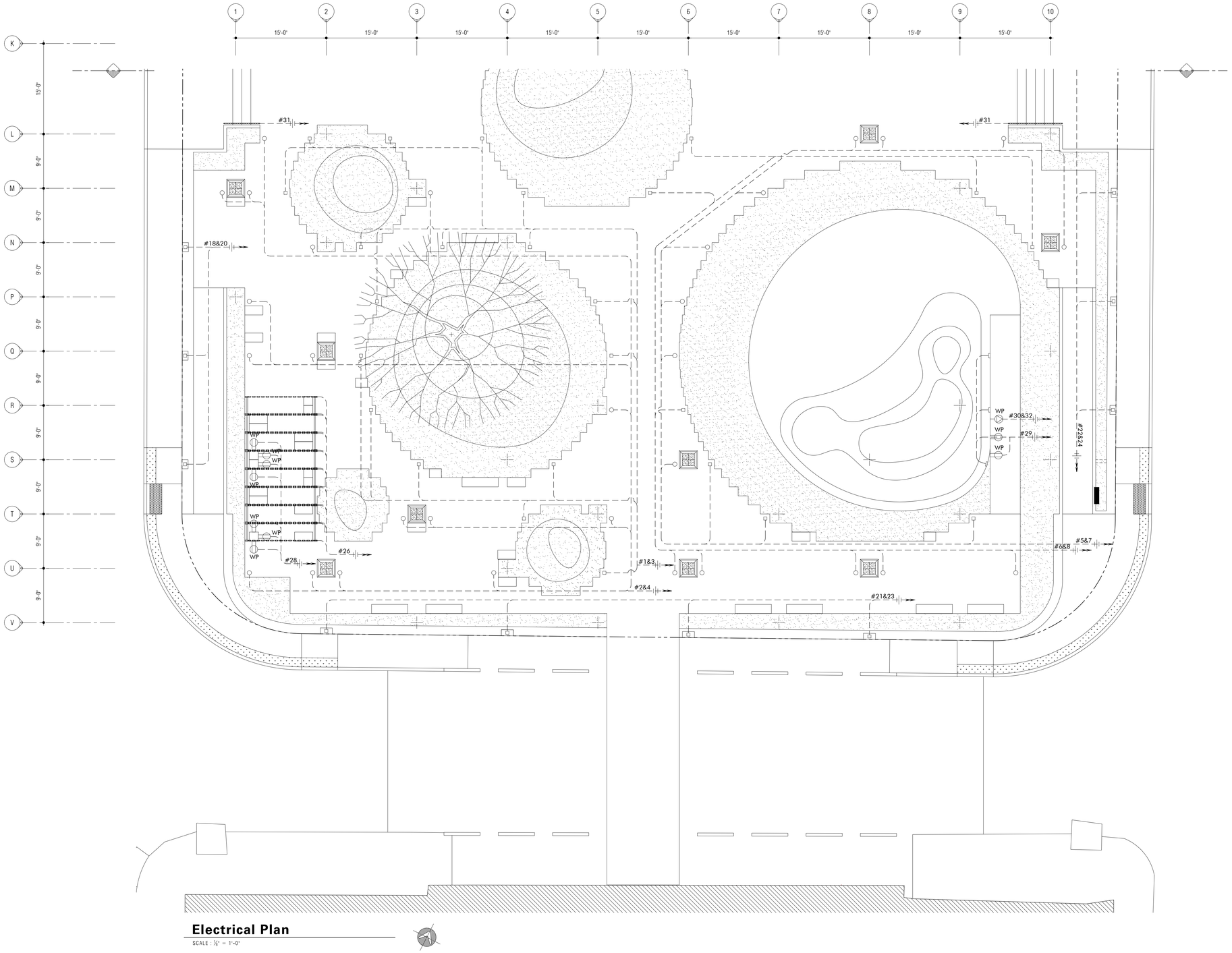
Proposed Lighting Layout Plan

CLIENT
Municipio de Canóvanas -
Hon. Lorna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
6	jmb / 05.ii.2024

DISCIPLINE

E-1.0



Electrical Plan

SCALE : 1/8" = 1'-0"

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

CERTIFICACION - COPYRIGHTS - FIRM NAME

V O
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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Proposed Electrical Plan

CLIENT

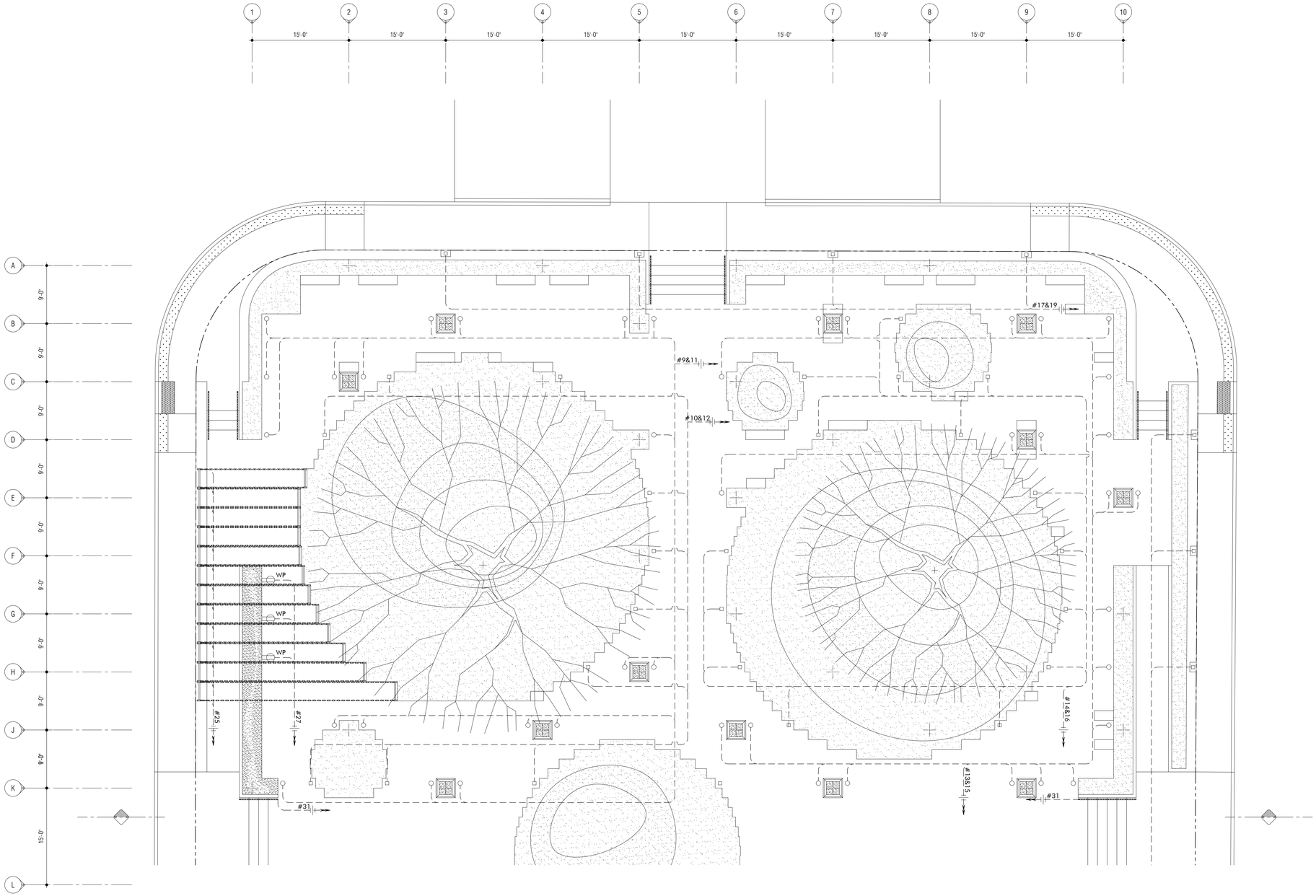
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
8	jmb	05.ii.2024

DISCIPLINE

E-1.1



Electrical Plan

SCALE : 1/8" = 1'-0"

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REVISIONS:

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

CERTIFICACIÓN - COPYRIGHTS + FIRM NAME

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FOR CONSTRUCTION

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J U E G O S
P A R A L A
R E G U L A R
C O M P R O B A C I Ó N
Y
A P R O B A C I Ó N
D E
A G E N C I A S
P Ú B L I C A S
Y
J U N T A S
R E G L A M E N T A D O R A S

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PREPARED & PERMISSION TO SWITCHED, IF PERMISSION IS GIVEN BY THE OWNER & ARCHITECT AND ITS CONSENTS HAS BEEN OBTAINED.

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PROJECT TIES & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

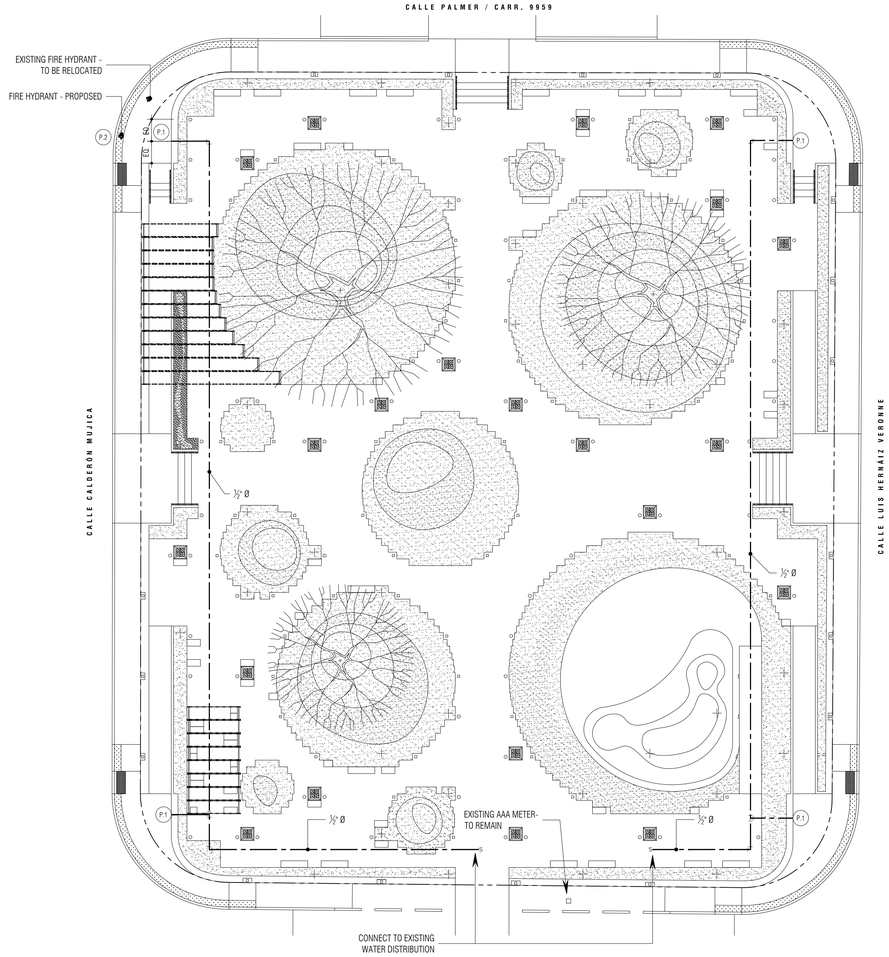
DWG. TITLE

Proposed Electrical Plan

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #: 22-01
PROJECT PHASE: Construction Docs - 90%
SHEET #: 8
DRAWN BY: jmb
DATE: 05.ii.2024
DISCIPLINE

E-1.2



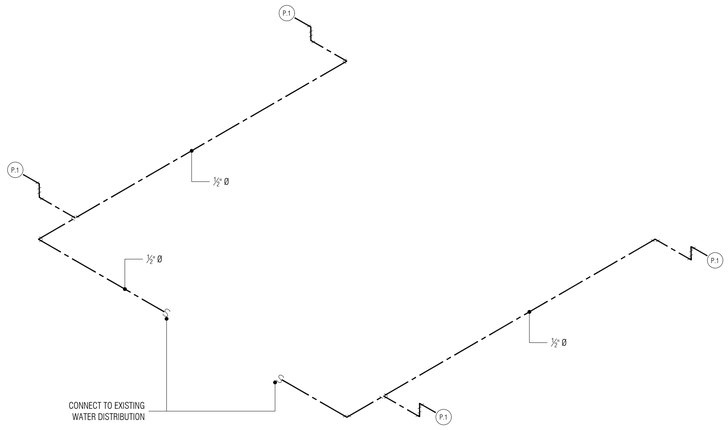
Plumbing Distribution Plan

SCALE : 1/16" = 1'-0"

Legend

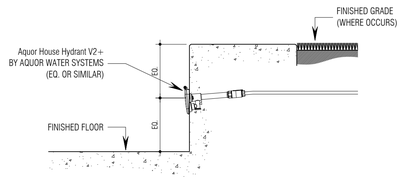
WATER DISTRIBUTION LINE

FIXTURE SCHEDULE					
ID	DESCRIPTION	COLD WATER	HOT WATER	DRAINAGE	REQ,
P-1	WALL HYDRANT	½"	N/A	N/A	4
P-2	FIRE HYDRANT				1



Supply Isometric

NOT TO SCALE



Wall Hydrant Detail

SCALE: 1" = 1'-0"

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

CERTIFICADOS - COTTONETE - NEW NAME

Y O
PARA PROPOSITOS DE PUBLICACION
NO. DE SELLO
SELLO DIGITAL
SEGÚN LA(S) DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS QUE TENGAN JURISDICCIÓN, CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS QUE TENGAN JURISDICCIÓN.
CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NÚMERO 96 DEL 9 DE JULIO DE 1976, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY ORGÁNICA DE LA PROFESIÓN DE INGENIERÍA Y DE AGRIMENSURA" Y CON LA LEY NÚMERO 76 DEL 5 DE AGOSTO DE 1976, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY ORGÁNICA DE LA PROFESIÓN DE ARQUITECTURA".
ESTOS PLANOS Y ESPECIFICACIONES NO PUEDEN SER USADOS POR NINGUNA OTRA PERSONA SIN MI AUTORIZACIÓN ESCRITA Y SOLAMENTE SON VÁLIDOS PARA LA APLICACIÓN Y EL PROPÓSITO PARA LOS CUALES FUERON PREPARADOS.
FECHA
FIRMA
NOMBRE COMPLETO
NÚMERO DE COLEGIADO
ESTOS PLANOS Y ESPECIFICACIONES NO PUEDEN SER USADOS POR NINGUNA OTRA PERSONA SIN MI AUTORIZACIÓN ESCRITA Y SOLAMENTE SON VÁLIDOS PARA LA APLICACIÓN Y EL PROPÓSITO PARA LOS CUALES FUERON PREPARADOS.
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FIRMA
NOMBRE COMPLETO
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PROJECT TAG & ADDRESS

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CONSULTANT

DWG. TITLE

Plumbing Distribution Plan

CLIENT

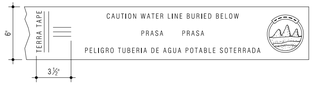
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
6	jmb	05.ii.2024

DESCRIPCIÓN

P-1.0



COLOR:
GREEN

MATERIAL:
ALUMINUM FOIL LAMINATED BETWEEN TWO LAYERS
OF INERT PLASTIC FILM

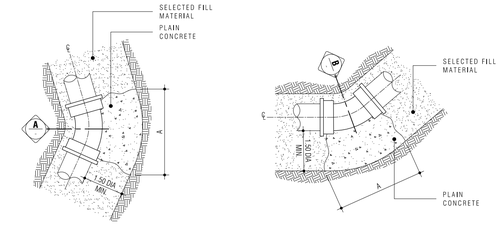
IMPRINT COLOR:
BLACK

COSTUMER:
PRASA SAN JUAN, PR

PRODUCT CODE:
6" 0521556,
3" 0531556

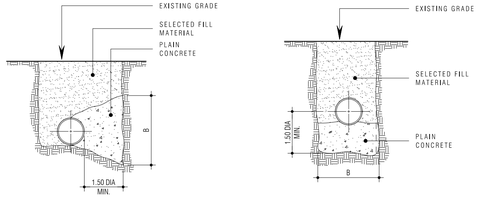
6" Detectable Marking Tape Detail for Water Main

NOT TO SCALE



Plan

Profile



Section A

Section B

90° BEND		
DIA.	A	B
0'-4"	2'-0"	2'-0"
0'-6"	3'-0"	3'-0"
0'-8"	4'-0"	4'-0"
0'-10"	4'-0"	4'-0"
1'-4"	7'-0"	7'-0"

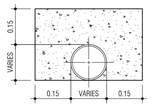
22.5° BEND		
DIA.	A	B
0'-4"	1'-0"	1'-0"
0'-6"	2'-0"	2'-0"
0'-8"	2'-0"	2'-0"
0'-10"	2'-0"	2'-0"
1'-4"	4'-0"	4'-0"

45° BEND		
DIA.	A	B
0'-4"	2'-0"	2'-0"
0'-6"	2'-0"	2'-0"
0'-8"	3'-0"	3'-0"
0'-10"	3'-0"	3'-0"
1'-4"	5'-0"	5'-0"

11.25° BEND		
DIA.	A	B
0'-4"	1'-0"	1'-0"
0'-6"	1'-0"	1'-0"
0'-8"	2'-0"	2'-0"
0'-10"	2'-0"	2'-0"
1'-4"	3'-0"	3'-0"

Thrust Block For Horizontal & Vertical Bends

NOT TO SCALE



Concrete Protection for House Connection Detail

NOT TO SCALE

Plumbing Notes for PRASA

1. ALL WATER METER BOXES TO BE INSTALLED OUTSIDE OF PROPERTY LIMITS, DRIVING LANES, PARKING, OR VEHICULAR ACCESS RAMPS.
2. ALL WATER METERS SHALL REGISTER WATER VOLUME IN CUBIC METERS.
3. ALL WATER METER BOXES TO BE BUILT FROM EITHER FLEXIBLE COPPER TYPE "K" OR BRONZE.
5. ALL BRANCH CONNECTIONS OF MAIN WATER LINE SHALL BE MECHANICAL CONNECTIONS (FLARE OR BOLTED). FOR FLEXIBLE COPPER, TYPE "K" ARE REQUIRED. FOR BRONZE, BOLTED CONNECTIONS ARE REQUIRED. WELDED CONNECTIONS ARE NOT ALLOWED.
6. ALL COLD WATER PIPES INSIDE & OUTSIDE OF BUILDING SHALL BE COPPER TYPE "K".
7. THE HORIZONTAL DISTANCE BETWEEN SANITARY AND WATER SUPPLY HOUSE CONNECTION LINES SHALL BE OF AT LEAST 5 FEET. THESE SHALL NOT BE INSTALLED WITHIN THE SAME EXCAVATION TRENCH.
8. CONTRACTOR SHALL VERIFY ON FIELD EXISTING LOCATION OF MAIN COLD WATER LINES ON STREET AND INSTALL NEW CONNECTIONS AS PER DETAIL.
9. WATER MAIN & CITY SEWER CONNECTIONS SHALL BE AS APPROVED BY P.R.A.S.A.
10. VALVES SHALL BE PROVIDED IN ALL CONNECTIONS OF WATER PIPES AND EQUIPMENTS OF EQUAL SIZE.
11. HORIZONTAL WASTE LINES AND SOIL PIPES LESS THAN 4" DIA. TO BE OF ¼"/FT SLOPE & GREATER THAN OR EQUAL TO 4" DIA. TO BE OF ⅛"/FT SLOPE.
12. ALL P.V.C. DRAIN PIPES AND FITTINGS FOR DRAIN, WASTE, & VENT SERVICE SHALL CONFORM TO THE U.S. DEPARTMENT OF COMMERCE STANDARD TS, 5608, BE MADE FROM POLYVINYL (CHLORIDE) P.V.C. TYPE I OR II COMPOUND OR EQ. AS PER ASTM DESIGNATION D1784 COT. & BEAR THE SEAL OF APPROVAL BY THE NATIONAL SANITATION FOUNDATION.
13. ALL P.V.C. PIPE TO BE SCH. 40 (EXCEPT OTHERWISE SPECIFIED).
14. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS WITH JURISDICTION.
15. THESE DRAWINGS CALL FOR FINISHED WORK, TESTED, BALANCED, AND PREPARED FOR OPERATION. BALANCE RECORDS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO SYSTEM APPROVAL.
16. MINOR DETAILS NOT SHOWN NOR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION, SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S WORK.
17. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCY BETWEEN ACTUAL MEASUREMENTS AND THOSE INDICATED, AND NOT PROCEED WITH THE WORK PRIOR TO RECEIPT OF INSTRUCTIONS FROM THE OWNER.
18. THE CONTRACTOR SHALL WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO AVOID CONFLICT WITH THE WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK, WHILE MAINTAINING THE DESIGN INTENT OF THE ARCHITECT.
19. WHERE REQUIRED, THE CONTRACTOR SHALL PREPARE AND SUBMIT THE NECESSARY SHOP DRAWINGS FOR THE APPROVAL OF THE ARCHITECT.
20. ALL FIXTURES, MATERIALS, & EQUIPMENTS SHALL BE INSTALLED AS PER MANUFACTURER SPECIFICATIONS.
21. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENTS TO BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS.
22. THE CONTRACTOR SHALL PATCH ALL SURFACES AFFECTED BY THE REQUIRED WORK SHOWN IN THESE DRAWINGS.
23. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE OWNER.
24. SLEEVES SHALL BE PROVIDED FOR ALL MECHANICAL PIPING THRU CONCRETE FLOOR SLABS AND CONCRETE, MASONRY, TILE AND DRYWALL CONSTRUCTION.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING SANITARY INVERT ELEVATIONS PRIOR TO ANY CONCRETE POUR. AND NOTIFYING THE ARCHITECT IF ANY SANITARY SLOPE CAN NOT BE ACHIEVED.
26. FINAL SANITARY AND POTABLE WATER CONNECTIONS ARE SUBJECT TO P.R.A.S.A. APPROVAL.

General Notes

1. ALL PLUMBING TO BE COORDINATED BETWEEN GENERAL CONTRACTOR, PLUMBING SUB-CONTRACTOR, AND ARCHITECT.
2. REFER TO ARCHITECTURAL DRAWINGS FOR REFERENCE AND UTILITIES LOCATION.
3. ANY ISSUES, DISCREPANCIES, OR CONFLICTS BETWEEN THE ARCHITECTURAL INTENTIONS AND ANY OTHER DISCIPLINE MUST BE BROUGHT FORTH SO THAT ALL PARTIES CAN PROPOSE SOLUTIONS.
4. PLUMBING DIAGRAMS ARE TO BE INTERPRETED AS BEST THE SITUATION ALLOWS AS TO NOT CONFLICT WITH THE ARCHITECT'S INTENTIONS.
5. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE AND THE NATIONAL PLUMBING CODE (A.S.A-A 40.8-1955) SPECIFICATION ISSUED OF THIS PROJECT.
6. ALL PLUMBING MATERIAL SHALL BE AS INDICATED IN SPECIFICATION ISSUED FOR THIS PROJECT,EXCEPT OTHERWISE NOTED OR CALLED FOR BY OWNER.
7. ALL VALVES SHALL BE PROVIDED IN THE WALL ON FLOOR OR AS R.Q.D.
8. LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
9. ALL HORIZONTAL PORTIONS OF SOIL AND WASTE STACKS AND BRANCHES, SHALL BE OF SLOPE 1/4" PER FEET,EXCEPT AS FOR OTHERWISE SHOWN.
10. ALL PIPES SHALL BE ADEQUATE AND SUPPORTED ON HANGERS OR CARRIERS AS R.Q.D. HANGERS SHALL BE PLACE AT 8 FEET INTERVALS FOR PIPE SIZES UP TO 4" DIAMETER.
11. THE SIZE GIVEN IN FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE USED EXCEPT IN SOME CASES WHERE THEY SHALL BE INCREASED AS R.Q.D.BY PLUMBING CODE.
12. THE PLUMBING CONTRACTOR SHALL SEEK APPROVAL AND ADVICE FROM THE ARCHITECT AND STRUCTURAL ENGINEER FOR THE LOCATION OF PIPES INSIDE STRUCTURAL CONCRETE, COMPLYING WITH A.C.I. BUILDING CODE,ART 703 LATEST EDITION.

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

CERTIFICADOS - CERTIFICATES - NEW NAME

n.formation studio
landscape . architecture . product
6177 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TEE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

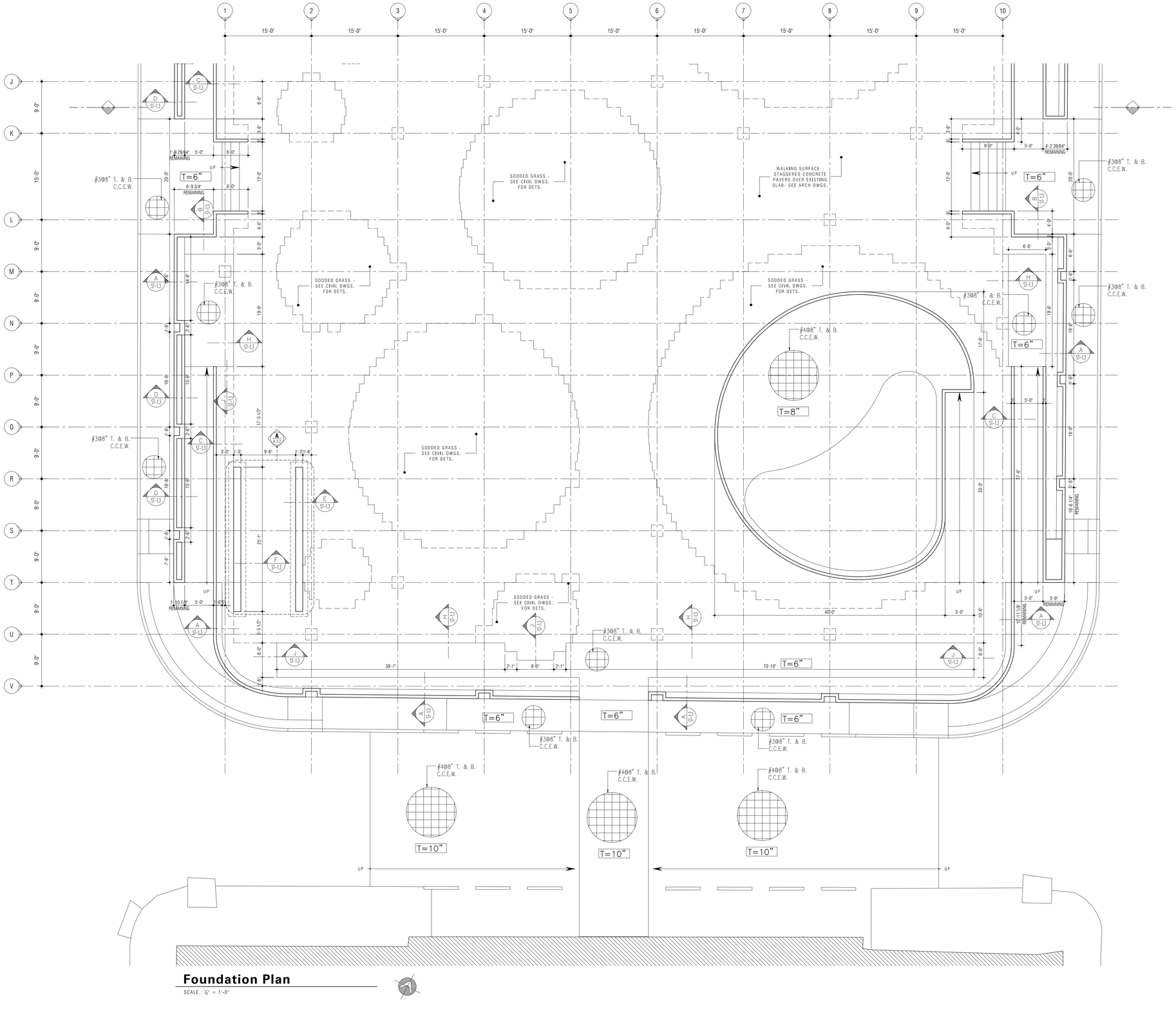
DWG. TITLE

Plumbing Notes & Details

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 6
DRAWN BY jmb
DATE 05.ii.2024
DISCIPLINE

P-1.1



Foundation Plan

SCALE : 1/8" = 1'-0"

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REVISIONS:

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL:

CERTIFICACIÓN - COPYRIGHTS - FAIR WARE

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TENGO CONOCIMIENTO DE LA LEY DE DERECHOS DE AUTOR Y PROPIEDAD INTELECTUAL DE PUERTO RICO, ESPECIFICAMENTE LOS ARTÍCULOS 1 AL 5 DEL CAPÍTULO 4 DE LA LEY NÚM. 96 DEL 15 DE JULIO DE 1988, CONOCIDA COMO LA "LEY DE PROPIEDAD INTELECTUAL DE PUERTO RICO" Y ENTIENDO QUE LOS PLANOS Y ESPECIFICACIONES QUE SE ENTREGAN PARA SU REVISIÓN Y APROBACIÓN POR LA AGENCIA CORRESPONDIENTE, CONSTITUYEN UNA OBRA PROTEGIDA POR DICHA LEY. POR TANTO, ME COMPROMETO A NO REPRODUCIR, PUBLICAR, EDITAR O CREAR OBRAS DERIVADAS DE LOS PLANOS Y ESPECIFICACIONES SIN EL CONSENTIMIENTO POR ESCRITO DE LA AGENCIA CORRESPONDIENTE Y DE LOS AUTORES DE LOS MISMOS, EXCEPTO LO AUTORIZADO POR LA LEY. ASIMISMO, ACEPTO QUE NINGUNA IDEA DE DISEÑO INCORPORADA EN LOS PLANOS Y ESPECIFICACIONES, ESCRITA O DIBUJADA, HA SIDO DIVULGADA A MI PERSONA O CONOCIDA AMPLIAMENTE POR OTROS EN EL CAMPO DE LA ARQUITECTURA, POR LO QUE NO ES UNA IDEA CONFIDENCIAL NI DE MI EXCLUSIVA PROPIEDAD INTELECTUAL. POR LO ANTERIOR EXPUESTO, RENUNCIO A CUALQUIER DERECHO QUE PUDIERA TENER SOBRE LOS PLANOS Y ESPECIFICACIONES QUE SE ENTREGAN PARA REVISIÓN Y APROBACIÓN. ESTOY CONSCIENTE DE QUE LA VIOLACIÓN DE LOS DERECHOS DE AUTOR ESTABLECIDOS EN LA LEY NÚM. 96 DEL 15 DE JULIO DE 1988, CONOCIDA COMO LA "LEY DE PROPIEDAD INTELECTUAL DE PUERTO RICO", CONLLEVA LA IMPOSICIÓN DE MULTAS ADMINISTRATIVAS, ASÍ COMO LA RESPONSABILIDAD POR DAÑOS Y PERJUICIOS.

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Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS:

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT:

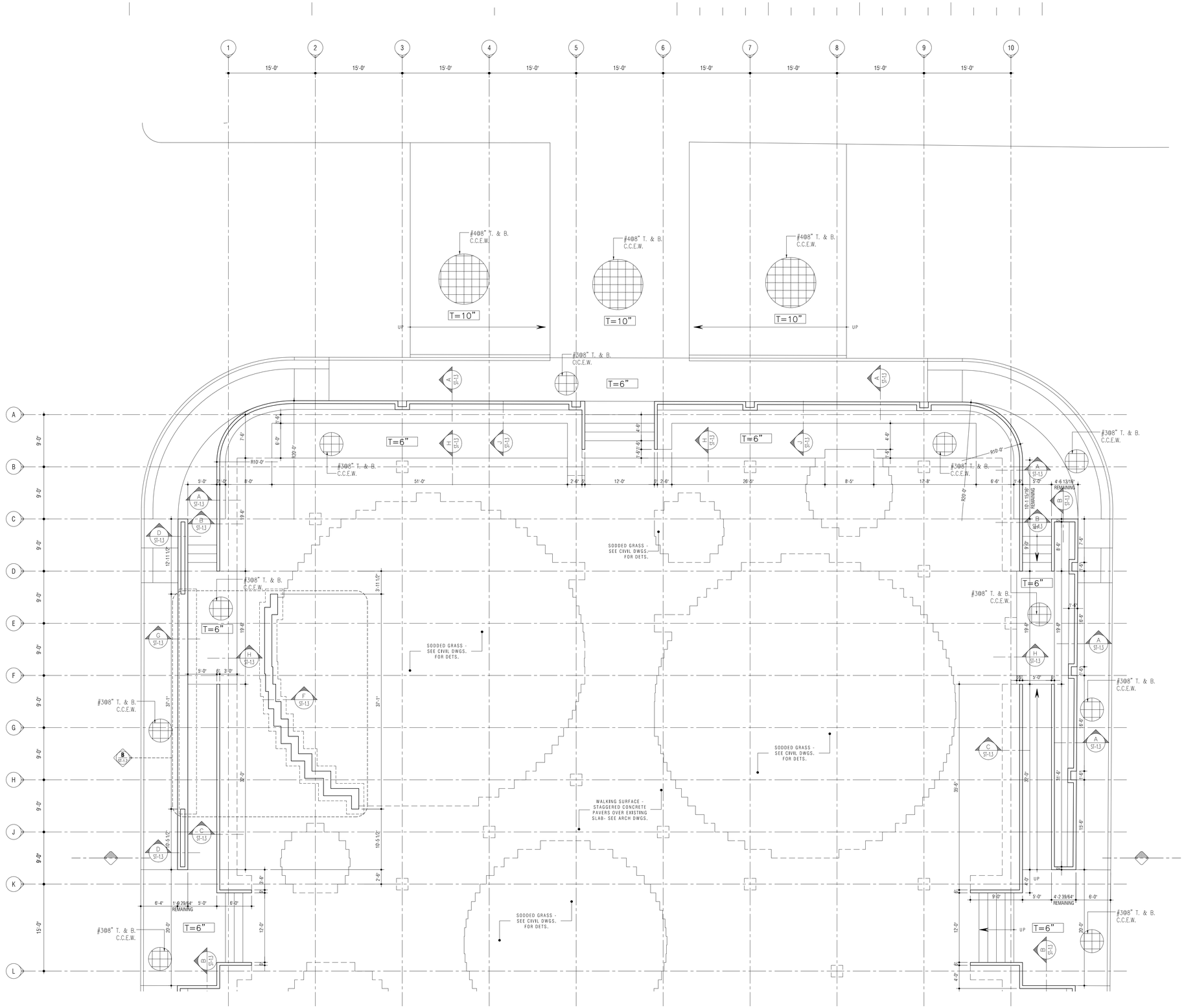
DWG. TITLE:

Foundation Plan

CLIENT:
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #: 22-01
PROJECT PHASE: Construction Docs - 90%
SHEET #: 8
DRAWN BY: jmb
DATE: 05.ii.2024
DISCIPLINE:

ST-1.0



Foundation Plan Cont.

SCALE : 1/8" = 1'-0"

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REVISIONS:

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL:

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

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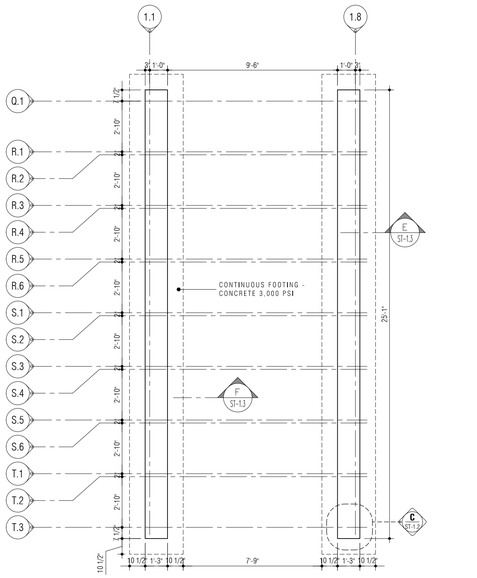
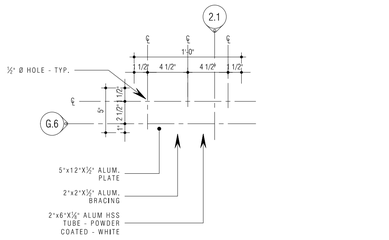


Pavilion - Foundation Plan A

SCALE : 1/4" = 1'-0"

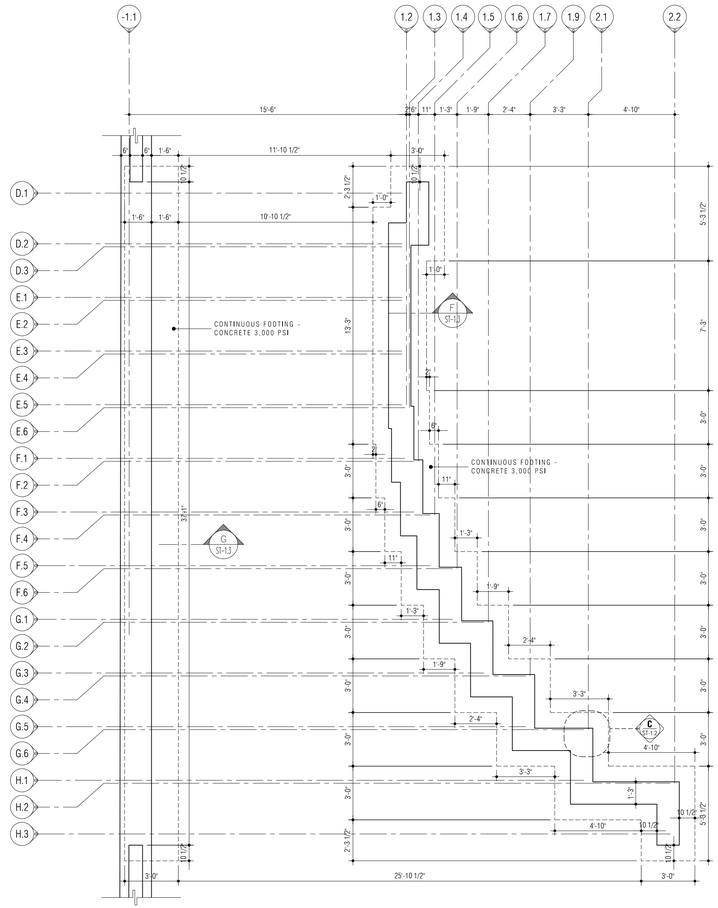
ST-1.2



Base Plate Detail C

SCALE : 1-½" = 1'-0"

ST-1.2



Gallery - Foundation Plan B

SCALE : 1/4" = 1'-0"

ST-1.2

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

CERTIFICACIÓN - CUMPLIMIENTO - FIRMA NAME

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

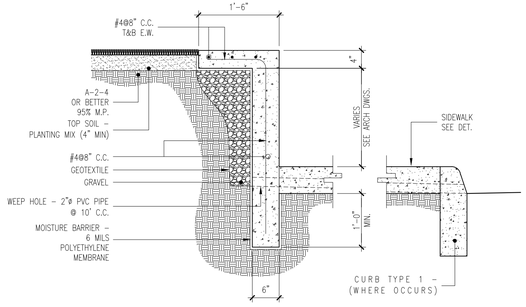
Foundation Blowup Plan

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	jmb / 05.ii.2024

DESIGN UNIT

ST-1.2



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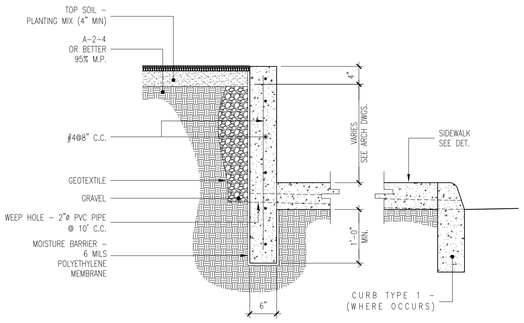

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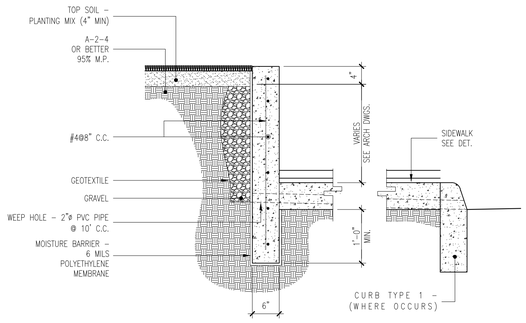

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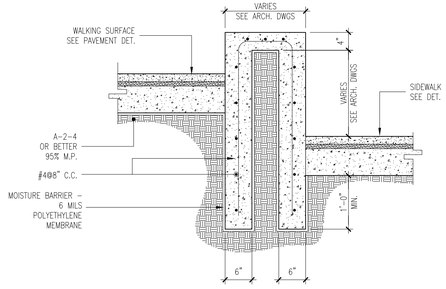

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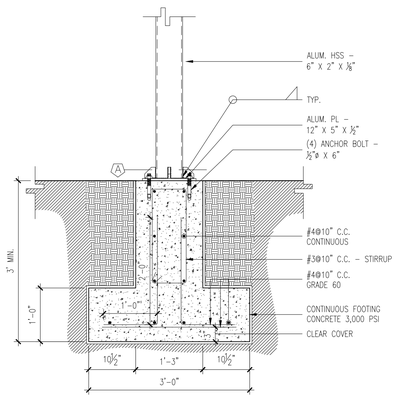

FOOTING SECTION (E / ST-1.3)
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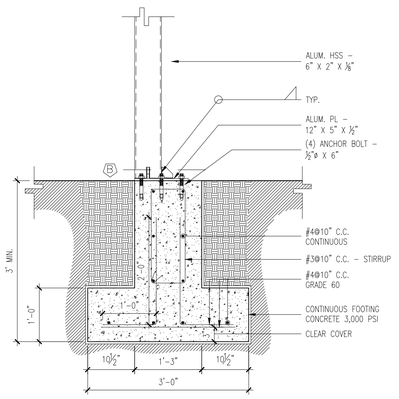

FOOTING SECTION (F / ST-1.3)
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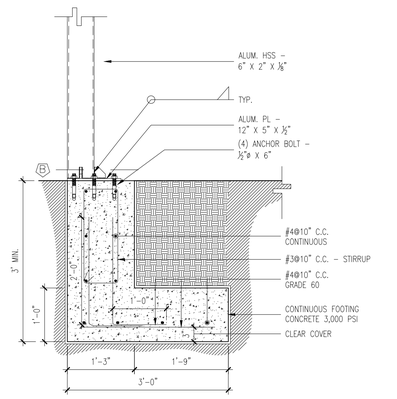

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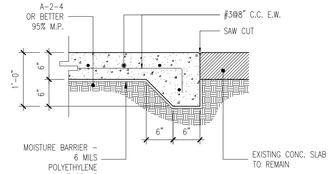

FOOTING SECTION (H / ST-1.3)
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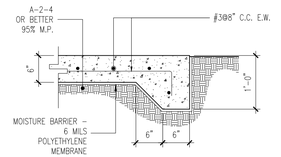

FOOTING SECTION (J / ST-1.3)
SCALE=3/4"=1'-0"

Notes:

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2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

CERTIFICACIÓN - COTTIMENTO - FIRM NAME

[illegible] PARA TRAMITACIÓN EXPEDICIÓN DE PERMISO

CERTIFICACIÓN: ESPECIFICACIONES Y PLANOS LISTOS
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PLANOS Y ESPECIFICACIONES Y CUMPLIR CON LAS
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-
CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES
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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

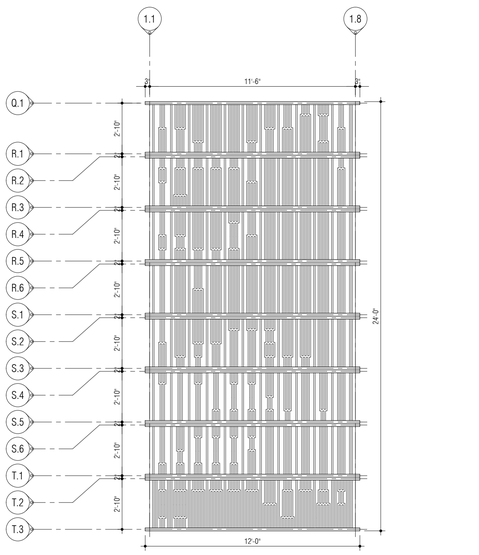
Foundation Details

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET # 8	DRAWN BY jmb
	DATE 05.ii.2024

DESIGN INFO

ST-1.3

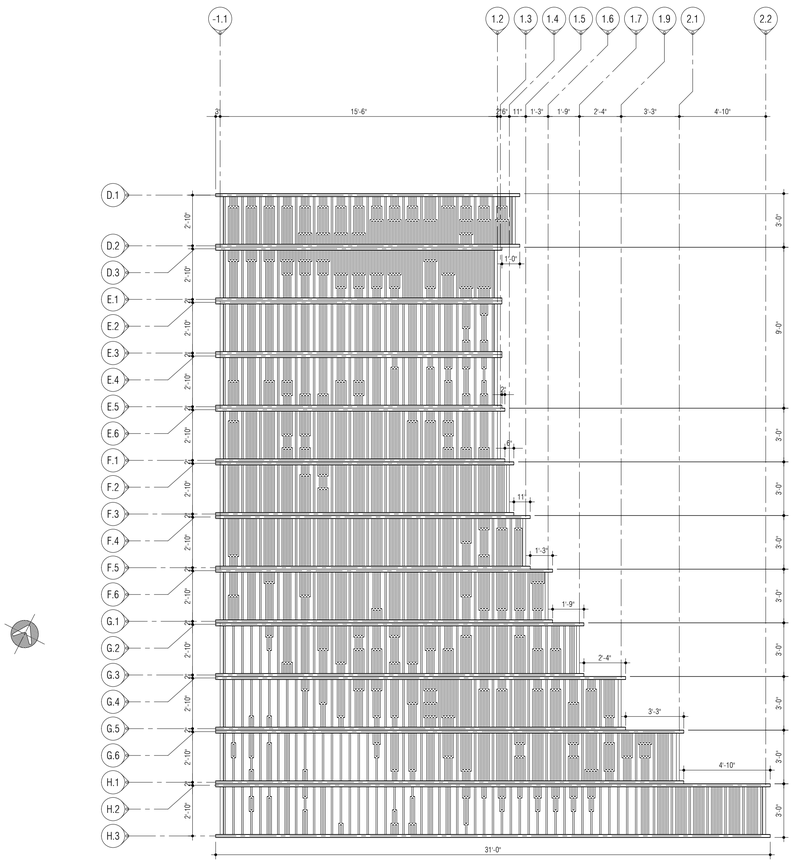


Pavilion - Structural Plan

A

SCALE : 1/4" = 1'-0"

ST-2.0

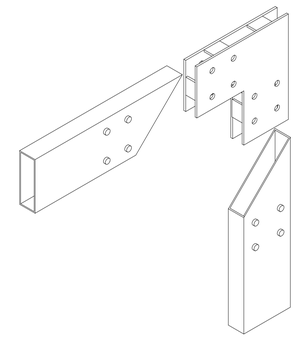


Gallery - Structural Plan

B

SCALE : 1/4" = 1'-0"

ST-2.0

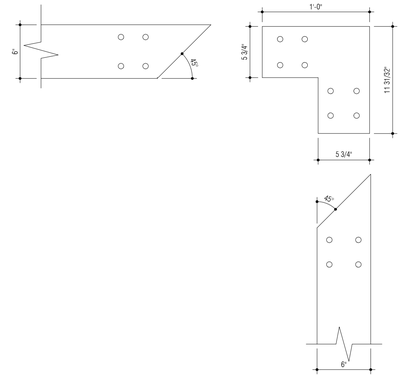


Connection Axonometric

B

SCALE : 1/4" = 1'-0"

ST-2.0



Connection Detail

B

SCALE : 1-1/2" = 1'-0"

ST-2.0

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REVISIONS

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1	05.ix.17	Explanation

PROFESSIONAL SEAL

CERTIFICACION - COPYRIGHTS + VIEW RAME

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PUERTO RICO BUILDERS AUTHORITY
AUTORIDAD DE EDIFICIOS PUBLICOS

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C O N

S E L L O

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JUNTA EXAMINADORA DE CONSULTORES EN ARQUITECTURA Y PAISAJISMO

C E R T I F I C A

P A R A : L A

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PROJECT TEE & ADDRESS

Plaza Juan F. Arroyo Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Structural Plan

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET # 8	DRAWN BY jmb
	DATE 05.ii.2024

SHEET NO.

ST-2.0

STRUCTURAL NOTES, GENERAL DETAILS & DEMOLITION SEQUENCE

DESIGN & CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS AND PROVISION OF THE FOLLOWING CODES AND SPECIFICATIONS:

1. AMERICAN CONCRETE INSTITUTE
2. UNIFORM BUILDING CODE, UBC 1997
3. AMERICAN SOCIETY FOR TESTING AND MATERIALS
4. CONCRETE REINFORCING STEEL INSTITUTE
5. AMERICAN WELDING SOCIETY
6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION

DESIGN LOADS:

1. GRAVITARY LIVE LOADS (100 PSF OPEN TERRACE) . . . . . UBC 1997
2. GRAVITARY LIVE LOADS (40 PSF ROOF) . . . . . UBC 1997
3. WIND LOADS. ASCE-7
4. EARTHQUAKE LOADS. . . . . UBC 1997

CAST-IN-PLACE REINFORCED CONCRETE:

1. CONCRETE SHALL HAVE A 28-DAY ULTIMATE COMPRESSIVE STRENGHT AS SET FORTH BELOW:

   A. WALLS, SLAB, BEAMS ..... 4,000 PSI.
   B. ALL OTHERS ..... 4,000 PSI.

2. SLUMP OF CONCRETE SHALL NOT EXCEED 4" UNLESS A HIGH RANGE WATER-REDUCING ADMIXTURE IS USED. THE SLUMP OF CONCRETE PRIOR TO ADDITION OF A HIGH RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 4". THE SLUMP OF CONCRETE CONTAINING A HIGH RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 10".
3. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE BETWEEN 4 AND 8 PERCENT.
4. THE NOMINAL COARSE AGGREGATE SIZE SHALL BE A MINIMUN OF 3/4" IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL
5. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STREGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS FOR EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY A REGISTERED LICENSED ENGINEER. PHYSICAL TESTS RESULTS FOR COARSE AND FINE AGGREGATES SHALL ALSO BE SUBMITED CERTIFIEDX BY A REGISTERED ENGINEER.
6. REINFORCING SHALL CONFORM TO ASTM A615, GR60, UNLESS NOTED OTHERWISE ON SPECS AND/OR DRAWINGS.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
8. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH ACI DETAILING MANUAL 1994 (SP-66)
9. ALL REINFORCING SHALL BE SUPPORTED IN FORMS USING STEEL CHAIRS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH CRSI "MANUAL OF STANDAR PRACTICE" (1989).
10. MINIMUN CONCRETE COVER, UNLESS NOTED OTHERWISE, AS FOLLOWS:
    UNFORMED SURFACE IN CONTACT WITH THE GROUND . . . . . 3 IN.
    FORMED SUFACES EXPOSED TO EARTH OR WEATHER
    #6 BARS AND LARGER..... 2 IN.
    #5 BARS AND SMALLER..... 1-1/ IN.
    FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
    BEAMS, GIRDERS, COLUMNS, AND GRADE BEMAS.. 1-1/2 IN.
    SLABS, WALLS
    #11 BARS AND SMALLER..... 3/4 IN.
    #14 AND #18 BARS..... 1-1/2 IN.
11. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE, WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "C" SPLICES.

TENSION SPLICES (INCHES)							COMPRESSION SPLICES (INCHES)
BAR SIZE	TOP BARS A	B	C	OTHER BARS A	B	C	
#3	13	16	21	12	12	15	12
#4	17	22	29	12	16	20	15
#5	21	27	36	15	20	26	19
#6	27	35	46	19	25	32	23
#7	37	48	63	26	34	44	26
#8	48	63	82	35	46	60	30
#9	61	80	104	44	57	75	34
#10	78	101	132	56	73	95	38
#11	96	124	163	68	88	116	42

COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS
LAP WELDED WIRE FABRIC ONE SPACING OF CROSS WIRES PLUS 2".

12. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.
13. CONCRETE WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATIONS.
14. ALL SYMBOLS AND STRESSES AS WELL AS CONCRETE WORK SHALL CONFORM TO THE STANDARD OF THE AMERICAN CONCRETE INSTITUTE (ACI-318-95).
15. ALL SLAB AND CORRESPONDING BEAMS, CURBS, OR APRONS SHALL BE POURED MONOLITHICALLY.
16. ALL SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE IN PLACE BEFORE CONCRETE IS POURED.
17. ALL OPENINGS IN CONCRETE WALLS SHALL BE REINFORCED AROUND WITH 2#5 BARS PLACED AT 2 INCHES FROM THE FACE AND EXTENDING 24 INCHES BEYOND CORNERS, UNLESS OTHERWISE SPECIFIED IN PLANS.
18. TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN ALL ONE WAY SLAB NORMAL TO THE PRINCIPAL REINFORCEMENT IN ACCORDANCE WITH ACI-318-95 BUILDING CODE.
19. FOR CONSTRUCTION JOINTS IN STRUCTURAL MEMBERS A VERTICAL BULKHEAD AND KEY JOINT MUST BE PROVIDED.
20. ALL NEGATIVE REINFORCEMENT (TOP REINF.) AND POSITIVE REINFORCEMENT, (BOTTOM REINF.) IN SLABS AND BEAMS SHALL BE EXTENDED BEYOND THE CENTER LINE OF THE END SUPPORTS IN ACCORDANCE WITH ACI-318-95 BUILDING CODE, UNLESS OTHERWISE SPECIFIED.
21. SLAB ON GROUND, AS INDICATED ON DRAWINGS.
22. FOR CONCRETE FORMWORK, SURFACE FINISHING, BEVELED CORNERS AND DRIPS, SEE ARCHITECTURAL PLANS.
23. PROVIDE DOWELS IN WALL AND COLUMN FOOTINGS EQUAL IN SIZE AND NUMBER TO VERTICAL REINFORCEMENT, EXTENDING A TENSION SPLICE LENGTH INTO WALL OR COLUMN AND 40 BAR DIAMETER INTO FOOTING. (THE LATERAL EMBEDMENT SHALL BE EXTENDED AS NECESSARY TO PROVIDE A MIMINUM HORIZONTAL LEG RESTING ON FOOTING REINFORCEMENT EQUAL TO THE CORRESPONDING "C" LENGTH FOR THE BAR SIZE.)
24. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALL) SO AS TO CAUSE SEGREGATION OF AGGREGATES IN SUCH CASES, HOOPERS OR VERTICAL CHUTES OR TRUNKS SHALL BE USED. THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED THE ABOVE REQUIREMENTS.
25. THE SIZE OF NAILS AND SIMILAR FASTENERS DRIVEN INTO CONCRETE SHALL BE SUCH, AS NOT TO CRACK OR IMPAIR IT. NEVERTHELESS, IF THE CONCRETE IS DAMAGED, IT SHALL BE PROPERLY REPAIRED AFTER REMOVING THE DAMAGED PORTION AND SUITABLE JOINT SURFACE ARE PROVIDED.
26. ALL FORMWORK FOR FLEXURAL MEMBERS SHALL BE BUILT WITH A CAMBER CORRESPONDING TO ITS WON DEFORMATION PLUS THE STRUCTURE DEAD LOAD DEFORMATIONS. IN DETERMINIG THE AMOUNT OF CAMBER, THE CONTRACTOR SHALL HAVE THE ASSISTANCE OF THE DESIGNER WHERE SO REQUESTED.
27. ALL CAST IN PLACE REINFORCED CONCRETE STRUCTURAL MEMBERS SHALL BE PROPERLY CURED IN ACCORDANCE WITH ACI-318-95 CHAPTER V.
28. ALL REINFORCING BARS SHALL BE HIGH TENSILE DEFORMED MEETING ASTM A-615 GRADE 60.
29. ALL LAPPING, BENDING AND PLACING OR REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH ACI-318-95 BUILDING CODE.

STRUCTURAL STEEL

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
   ALL WF, CHANNELS, ANGLES, PLATES, ETC. A36
   STRUCTURAL TUBE . . . . . A500 (Fy=46)
   STEEL PIPE . . . . . A53 (Fy=35)
   ANCHOR BOLTS AND UNFINISHED BOLTS A307
   BOLTS, NUTS AND WASHERS A325
   WELDING ELECTRODES . . . . . E333, CLASS E 7018XX
   UNLESS OTHERWISE CALL FOR IN DRAWINGS.
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE 1990). EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS AND/OR DRAWINGS.
3. THE STEEL STRUCTURE IS A PARTIAL-SELF-SUPPORTING STEEL RIGID FRAME AND IS DEPENDENT UPON DIAPHRAGM ACTION OF THE METAL ROOF DECK AND ATTACHMENT TO THE MASONRY WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETED AND ARE CAPABLE OF PROVIDING THIS LATERAL SUPPORT.
4. THE FABRICATOR IS RESPONSIBLE FOR THE SHOP DRAWINGS OF ALL CONNECTONS. CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE FABRICATOR'S ENGINEER WITH THE ENGINEER'S SEAL. ENGINEER'S MAY BE QUALIFIED "FOR DETAILING OF CONNECTIONS ONLY"
5. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
6. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. UNLESS NOTED OTHERWISE, ANCHOR BEAMS TO MASONRY WITH TWO (2) 3/4" DIAMETER ANCHOR BOLTS WITH 4" HOOK AND 4'-4" EMBEDMENT.
7. STRUCTURAL STEEL WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING & INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATION. AISC, ASTM & AWS SPECIFICATIONS WILL GOVERN ALL STRUCTURAL STEEL WORKS.
8. DESIGN & CONSTRUCTION SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION STANDARD PRACTICE.
9. STRUCTURAL STEEL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER AND IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY, AWS, REQUIREMENTS.
10. ALL INSPECTION AND TESTING OF WELDING SHALL BE DONE IN ACCORDANCE TO SECTION 501 THROUGH 607 OF THE AWS DLO-94 CODE FOR WELDING IN BUILDING CONSTRUCTION.
11. ALL CONNECTIONS SHALL BE BEARING TYPE UNLESS OTHERWISE SPECIFIED ON PLANS.
12. SHOP DRAWINGS FOR ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE SUBMITTED TO THE DESIGNER FOR APPROVAL WELL IN ADVANCE OF CONSTRUCTION.
13. INCORRECTLY FRABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIAL OR CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR RIVIEW AND APPROVAL OR REGECTION, PRIOR TO REMEDIAL OR CORRECTIVE ACTION TO BE IMPLEMENTED.

MISCELLANEOUS:

1. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSABLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
3. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHUOT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
5. OPENING 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
6. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
7. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT ONCE UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCE SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
10. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD REVIEW OF THE SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
11. CONCRETE ITEMS AND REINFORCEMENT SHALL BE ERECTED IN STRICT ACCORDANCE WITH OWNER APPROVED SHOP AND ERECTION DRAWINGS FOLLOWING THE DETAILS SHOWN ON PLANS.
12. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PRODUCE CORRECTLY ALIGNED CONCRETE AND STEEL ELEMENTS CONSIDERING AMONG OTHER THINGS, THE ELASTIC DEFORMATION OF THE STRUCTURAL MEMBERS.
13. WHERE "OWNER" IS MENTIONED IN PLANS IT IS TO BE UNDERSTOOD EITHER OWNER OR HIS AUTHORIZED REPRESENTATIVE.
14. CONTRACTOR SHALL SUBMIT FOR OWNERS' APPROVAL LOCATION AND DETAILS OF CONTRUCTION JOINTS IN SLABS AND BEAMS, AND IN ANY OTHER STRUCTURAL MEMBER.
15. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON STRUCTURAL PLANS AGAINST THE DIMENSIONS ON ARCHITECTURAL PLANS BEFORE LAYING OUT THE WORK.
16. ALL STRUCTURES HAVE BEEN DESIGNED ACCORDING TO FINAL BEHAVIOR AND CONDITIONS. HOWEVER, DURING ERECTION OF SAME, CERTAIN CONDITIONS CAN ARISE FOR WHICH THE BEHAVIOR OR THE STRUCTURE HAS NOT BEEN CONTEMPLATED. THEREFORE, THE CONTRACTOR SHOULD PROVIDE AT ALL TIME ADEQUATE SHORING AND RESTORING UNTIL THE DESIGN CONDITION HAVE BEEN MET. IF THERE IS ANY DOUBT DURING ANY PHASE OF THE CONSTRUCTION, PLEASE CONSULT AND/OR NOTIFY THE STRUCTURAL DESIGNERS.
17. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS PRIOR TO STARTING CONSTRUCTION. IF ANY DISCREPANCY ARISES IN THE STRUCTURAL AND ARCHITECTURAL PLANS, THE ARCHITECTS AND ENGINEERS SHALL BE NOTIFIED IMMEDIATELY.
18. CONTRACTOR MUST PROVIDE, SET AND VERIFY DIMENSIONS AND LOCATION OF ALL ANCHORS, INSERTS BOLTS, SLEEVES, CODUITS, ETC., SHOWN OR NOTED IN ARCHITECTURAL AND/OR MECHANICAL AND PLUMBING PLANS.
19. PROVISION FOR DETAILS NOT SPECIFICALLY DRAN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACI-318-95 BUILDING CODE AND/OR AISC SPECIFICATIONS AND CLARIFIED WITH THE DESIGNER.
20. HORIZONTAL MOVEMENT OF ANY HEAVY EQUIPMENT OVER STRUCTURAL FLOORS OR ROOF AND ITS TEMPORARY AND/OR DEFINITE LOCATIONS MUST BE PREVIOUSLY APPROVED BY THE DESIGNER SO AS NOT TO OVERLOAD THE STRUCTURE OR IN ANY OTHER WAY IMPAIR THE STRUCTURE. SAME PRECAUTION SHALL BE TAKEN FOR THE PILING OF CONSTRUCTIONS MATERIAL SUPON THE STRUCTURE.
21. ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS AND INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED.
22. IN CASE OF DOUBT IN THE INTERPRETATION OF ANY ASPECT OF THESE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS, DESIGNER SHALL BE CONSULTED.
23. AT HORIZONTAL JOINTS IN WALL AND COLUMNS, THE LOWER SURFACE SHALL BE THOROUGHLY CLEARED AND ALL WEAR OR LOOSE CONCRETE REMOVED FROM THERE BEFORE POURING THE UPPER CONCRETE. (SEE SPECS. FOR ADDITIONAL REQUIREMENTS). NO JOINT SHALL BE COVERED WITH PLASTER OR OTHERWISE WITHOUT A VISUAL EXAMINATION AND APPROVAL BY THE INSPECTOR.
24. NO DEFECTIVE CONCRETE SHALL BE CORRECTED OR COVERED WITH MORTAR, PLASTER ETC. WITHOUT THE INSPECTORS' APPROVAL.

QUALITY ASSURANCE:

1. THE OWNER WILL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY OR LABORATORY TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS. THE TESTING AGENCY SHALL BE LICENSED IN THE COUNTRY WHERE THE STRUCTURE IS LOCATED AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN THE COUNTRY WHERE THE STRUCTURE IS LOCATED.
2. FAILURE OF QUALITY ASSURANCE TESTING AND INSPECTIONS TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS NOTED, NOR SHALL IT OBLIGATE THE OWNER'S REPRESENTATIVE FOR FINAL ACCEPTANCE.
3. SEE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR QUALITY ASSURANCE TESTING AND INSPECTION:
   CONCRETE ACI-318-95
   REINFORCED MASONRY . . . .ASTM, CRSI, ACI
   STRUCTURAL STEEL . . . . . ASTM, AWS, AISC
   STEEL JOIST GIRDERS . . . . ASTM, AWS, SJI, AISC
   STEEL JOISTS . . . . . ASTM, AWS, SJI, AISC
   METAL ROOF DECK . . . . . ASTM, SDI, AISC
4. SEE GEOTECHNICAL REPORT FOR QUALITY ASSURANCE TESTING AND INSPECTIONS FOR FOUNDATION WORK.
5. THE TESTING AGENCY OR LABORATORY AND ITS REPRESENTATIVES ARE NOT AUTHORIZED TO REVOKE, ALTER, RELAX, ENLARGE OR RELEASE ANY PORTION OF THE WORK, PERFORM ANY DUTIES OF THE CONTRACTOR, OR BE A PARTY TO SHEDULING OF WORK.
6. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY OR LABORATORY AND THE OWNER'S REPRESENTATIVE A MINIMUM OF 24 HOURS IN ADVANCE OF ALL WORK REQUIRING QUALITY ASSURANCE TESTING AND INSPECTIONS AND ALL REASONABLE FACILITIES SHALL BE MADE AVAILABLE FOR TECHNICIANS.
7. RECORDS OF INSPECTIONS SHALL BE KEPT AVAILABLE TO THE BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND TWO YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT TESTING AGENCY.
8. ALL SLABS ON GROUND SHALL REST UPON EXISTING OR GRADED COMPETENT SUBSOIL MATERIAL OR UPON GRANULAR SELECTED WELL COMPACTED FILL MATERIAL, IN ACCORDANCE WITH LATEST AASHTO SPECIFICATIONS FOR FILL SOIL MATERIAL CLASSIFICATION AND COMPACTION REQUIREMENTS.

Tension Development Length (ld), (inches)

(Minimum Straight Embedment length)
for bars spaced less than 6" in, c.c.

Bar Size	f'c=3,000 psi		f'c=3,750 psi		f'c=4,000 psi		f'c=5,000 psi		f'c=6,000 psi	
	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars
#3	13	12	13	12	13	12	13	12	13	12
#4	17	12	17	12	17	12	17	12	17	12
#5	21	15	21	15	21	15	21	15	21	15
#6	27	19	25	18	25	18	25	18	25	18
#7	37	26	33	24	32	23	29	21	29	21
#8	48	35	43	31	42	30	38	27	34	25
#9	61	44	55	39	53	38	48	34	43	31
#10	78	56	70	50	67	48	60	43	55	39
#11	96	68	86	61	83	59	74	53	68	48
#14	130	93	117	83	113	81	101	72	92	66
#18	169	120	151	108	146	104	131	93	119	85

Basic Tension Splices For Grade 60 Bars

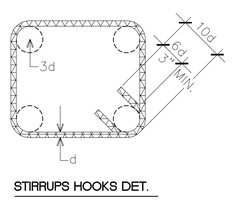
Bar Size	CLASS A,B, & C LAP SPLICE LENGTHS (INCHES)								
	f'c=3,000			f'c=4,000			f'c=5,000		
	A	B	C	A	B	C	A	B	C
#3	12	16	20	12	16	20	12	16	20
#4	12	16	20	12	16	20	12	16	20
#5	15	20	26	15	20	26	15	20	26
#6	19	25	33	18	24	31	18	24	31
#7	26	34	45	23	30	39	21	27	36
#8	35	45	59	30	30	51	27	35	46
#9	44	57	74	38	49	65	34	44	58
#10	56	72	95	48	63	82	43	56	73
#11	68	89	116	59	77	101	53	69	90

NOTE:
FOR OTHER CONDITIONS, CONSULT STRUCTURAL ENGINEERS
A. WHEN 33% OF BARS AT SECTION ARE CUT.
B. WHEN 50% OF BARS AT SECTION ARE CUT.
C. WHEN 100% OF BARS AT SECTION ARE CUT.

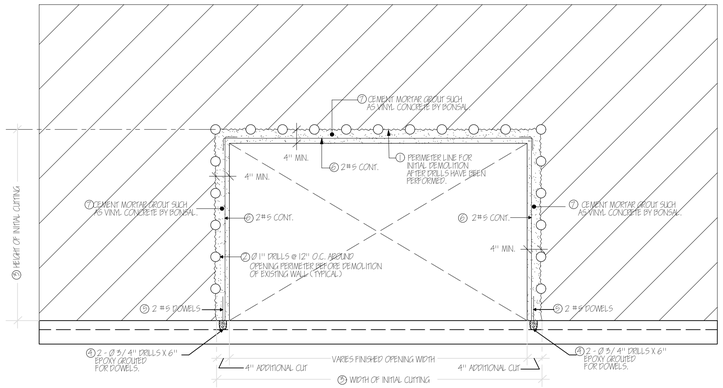
Tension Development Length (ld), (inches)

(Minimum Straight Embedment length)
for bars spaced 6" in, or more c.c.

Bar Size	f'c=3,000 psi		f'c=4,000 psi		f'c=5,000 psi	
	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars
#3	12	12	12	12	12	12
#4	14	12	14	12	14	12
#5	17	12	17	12	17	12
#6	22	15	20	14	20	14
#7	30	21	26	18	23	17
#8	38	28	34	24	30	22
#9	49	35	42	30	38	27
#10	62	45	54	38	48	34
#11	77	54	66	47	59	42
#14	104	74	90	65	81	58
#18	135	96	117	83	105	74



STIRRUPS HOOKS DET.



WALL OPENING TYPICAL DETAIL

DEMOLITION & REPAIRING SEQUENCE

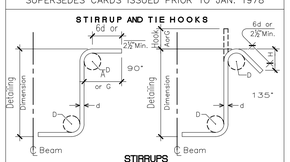
1. DELINEATE PERIMETER LINE OF INITIAL DEMOLITION AS IN FIGURE.
2. PERFORM DRILLS AS SHOWN, ø 1" @ 12" O.C. ON FIGURE.
3. CUT INITIAL OPENING AS SHOWN ON FIGURE.
4. BORE DRILLS FOR DOWELS @ WALL BOTTOM OR FOOTING.
5. INSTALL 2#5 DOWELS X 2'-0" AND GROUT WITH EPOXY COMPOUND
6. GROUT WITH VINYL CONCRETE AROUND OPENING PERIMETER AND DRILL HOLES FOR FINISHED DIMENSIONS.

ASTM STANDAR REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS, PER FOOT	NOMINAL DIMENSIONS-ROUND SECTIONS DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

SUPERSEDES CARDS ISSUED PRIOR TO JAN. 1978

STIRRUP AND TIE HOOKS

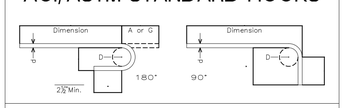


STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP AND TIE HOOK DIMENSIONS
Grades 40-50-60 ksi

Bar Size	D (in)	90 HOOK Hook A or G	135 HOOK Hook A or G	135 HOOK Approx. H
#3	1½"	4	4	2⅝"
#4	2"	4½	4½	3"
#5	2½"	6	5½	3⅝"

ACI/ASTM STANDARD HOOKS



SIZES OF 180-DEG. HOOKS
All Grades
D=6d for #3 through #8
D=8d for #9 #10 and #11
D=10d for #14 and #18

SIZES OF 90-DEG. HOOKS
All Grades
D=6d for #3 through #8
D=8d for #9 #10 and #11
D=10d for #14 and #18

RECOMMENDED END HOOK DIMENSIONS

Bar Size	180 HOOKS All Grades A or G	180 HOOKS All Grades J	90 HOOKS All Grades A or G
#3	5	3	6
#4	6	4	8
#5	7	5	10
#6	8	6	1-0
#7*	10	7	1-2
#8*	11	8	1-4
#9*	1-3	11¼	1-7
#10*	1-5	1-0¾	1-10
#11*	1-7	1-2¾	2-0
#14	2-2	1-8¾	2-7
#18	2-11	2-3	3-5

* These sizes-Grade 40-check availability. Sizes #14, #18, check availability; no Grade 40 under ASTM.

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x.17	Explanation

PROFESSIONAL SEAL

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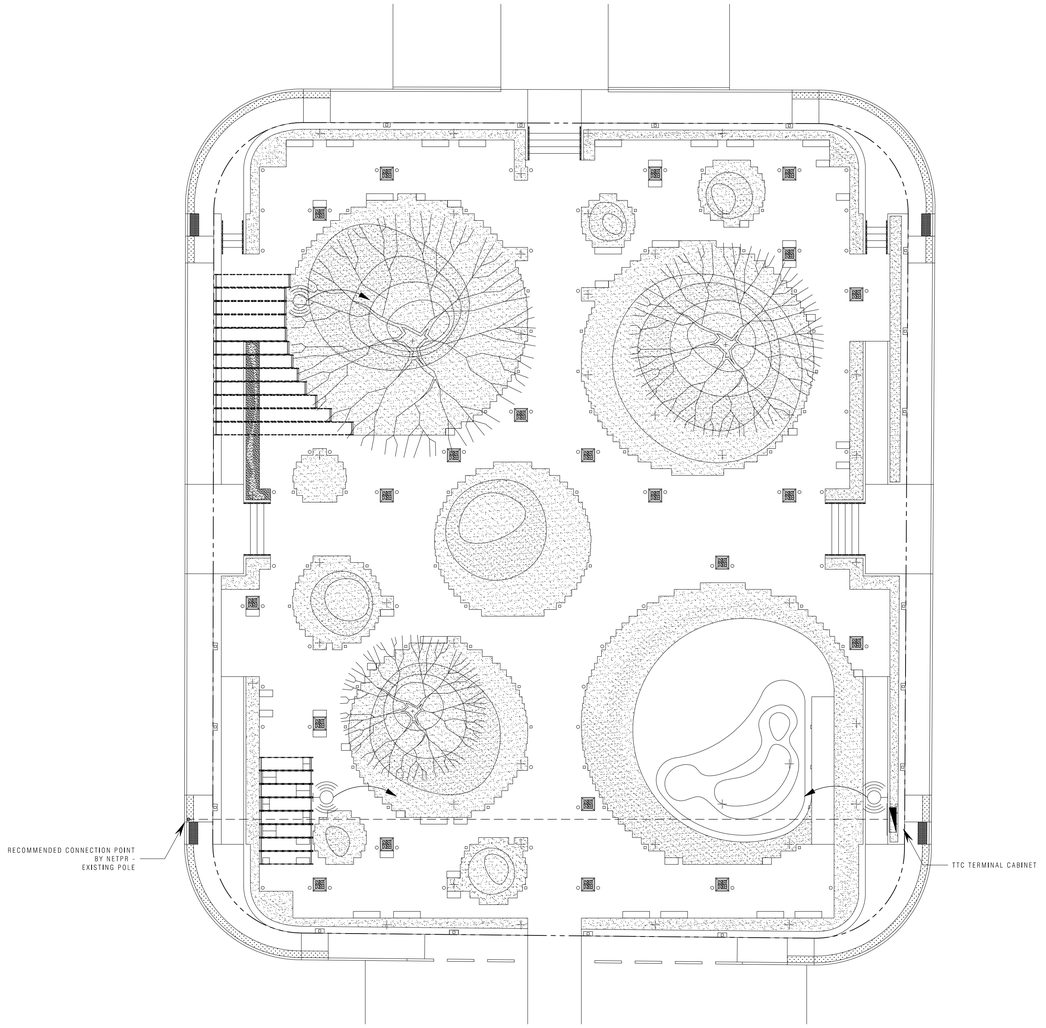

Telecommunication Site Plan

SCALE : 3/16" = 1'-0"

Legend

- 4' SQUARE BOX W/WIFI ANTENNA
- TELECOM TERMINAL BOX - RECESSED
- TELECOMMUNICATION CONDUIT RUN - (2) 2" PVC SCH. 40 CONDUITS BELOW GRADE.
- CONDUIT RUN TO TTC
- EXISTING POLE WITH NEW TELECOMMUNICATION RISER 2-2" PVC SCH. 40 CONDUITS.

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

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ACTUACIONES MENORES
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ESTE DISEÑO, ESPECIFICACIONES Y PLANOS ESTÁN PROTEGIDOS POR LAS LEYES Y REGLAMENTOS DE DERECHOS DE AUTOR Y PROPIEDAD INTELECTUAL. NINGUNA PERSONA, GRUPO O ENTIDAD PODRÁ UTILIZAR, COPIAR O DISTRIBUIR ESTE DISEÑO, ESPECIFICACIONES Y PLANOS SIN EL CONSENTIMIENTO ESCRITO Y EXPRESO DE LA FIRMA DISEÑADORA.
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PROJECT TEE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Proposed TTC Site Plan

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 6
DRAWN BY jmb
DATE 05.ii.2024
DISCIPLINE

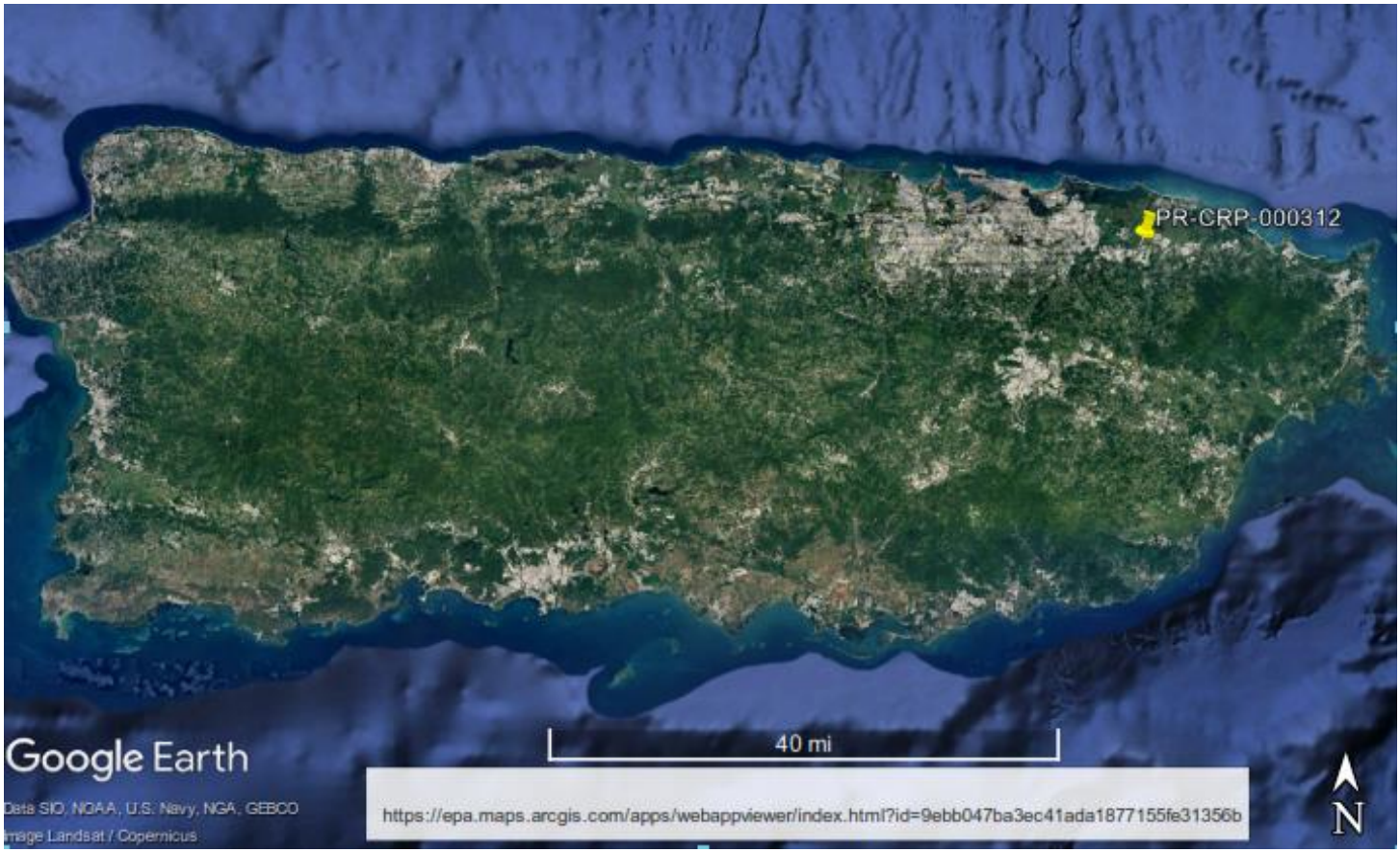
T-1.0

Appendix 11

Sole Source Aquifers Image – (PR-CRP-000312)
Plaza Juan F. Arroyo (PR-CRP-000312)

Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)





Legend:

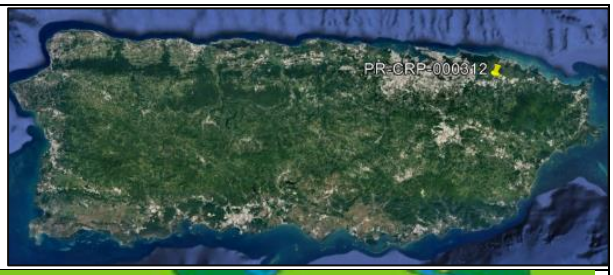
PR-CRP-000312

Source: Sole Source Aquifer Map (https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b)

Appendix 12

Wetlands Image – (PR-CRP-000312)
Plaza Juan F. Arroyo (PR-CRP-000312)

Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)





Legend:

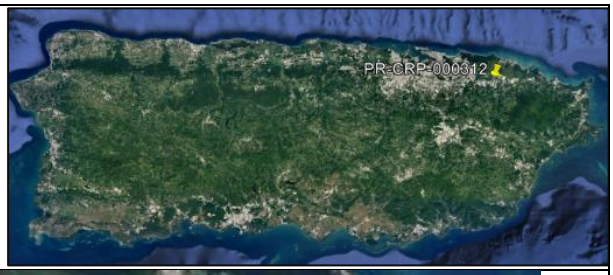
Plaza Juan F. Arroyo

Source: USFWS Wetland Inventory (https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/)

Appendix 13

Wild and Scenic Rivers Image – (PR-CRP-000312)
Plaza Juan F. Arroyo (PR-CRP-000312)

Calderon Mújica St., and Muñoz Rivera corner,
Canóvanas PR 00729
(Lat: 18.37913, Long: -65.90094)





Legend:

Distance (9.01 miles)

Source: Wild and Scenic Rivers
https://www.arcgis.com/apps/mapviewer/index.html?layers=a37eb56966cc4b11b69909e288414e53)

Appendix 14

Field Visit Checklist & Site Evaluation								
Project Name:	**Plaza Juan F. Arroyo (PR-CRP-000312)**			Latitude	**18.37913**			
First Name:		Last Name:		Longitude	**-65.90094**			
Street Address				Apt/Suite				
City:	**Canovanas**			State:	**PR**	Zip:		
Date of Visit:	**02/18/2025**		Field Visit Conducted By:		**Gamaliel Rivera Rivera**			

EXISTING ENVIRONMENTAL CONDITIONS ON & AROUND SITE		
Levee/Flood Control Structures (Levees, T-walls, pumping stations, etc.)		
Observations	Site Specific	Area
Not Apply	Not Apply	Not Apply
Toxic Chemicals & Radioactive Materials		
Petroleum or Chemical Storage		
	Site Specific	**Area**
Is there any evidence or indication of an underground storage tank (UST) may be located on site?	There No evidence or indication of an underground storage tank (UST) may be located on site	No Apply
If yes, are they in use?	Not Apply	No Apply
Are there any out-of-service underground fuel tanks?	There No out of service underground fuel tanks on the site	No Apply
Is there any evidence that any AST on the property are leaking?	There No AST on the property	No Apply
Polychlorinated Biphenyls (PCB): N/A		
	Site Specific	**Area**
Is there any evidence or indication of leaking electrical equipment (transformer - ground or pole mounted, capacitor, or hydraulic equipment) present on site?	There is no evidence or indication of leaking electrical equipment (transformer - ground or pole mounted, capacitor, or hydraulic equipment) present on site	No Apply

Hazardous Operations		
	Site Specific	**Area**
Is there any evidence of manufacturing operations utilizing or producing hazardous substances at or in close proximity to the site?	There No evidence of manufacturing operations utilizing or producing hazardous substances at or in close proximity to the site	No Apply
Is there any evidence or indication that past operations located on or in close proximity to the property used hazardous substances or radiological materials that may have been released into the environment?	There no evidence or indication that past operations located on or in close proximity to the property used hazardous substances or radiological materials that may have been released into the environment	No Apply
Notes/Observations:		

SITE PHOTOGRAPHS	Plaza Juan F. Arroyo (PR-CRP-000312)
Lat: 18.37913, Lon: -65.90094	



INSPECTION PHOTOGRAPHS	Plaza Juan F. Arroyo (PR-CRP-000312)
Lat: 18.37913, Lon: -65.90094	

Site North View



Site South View



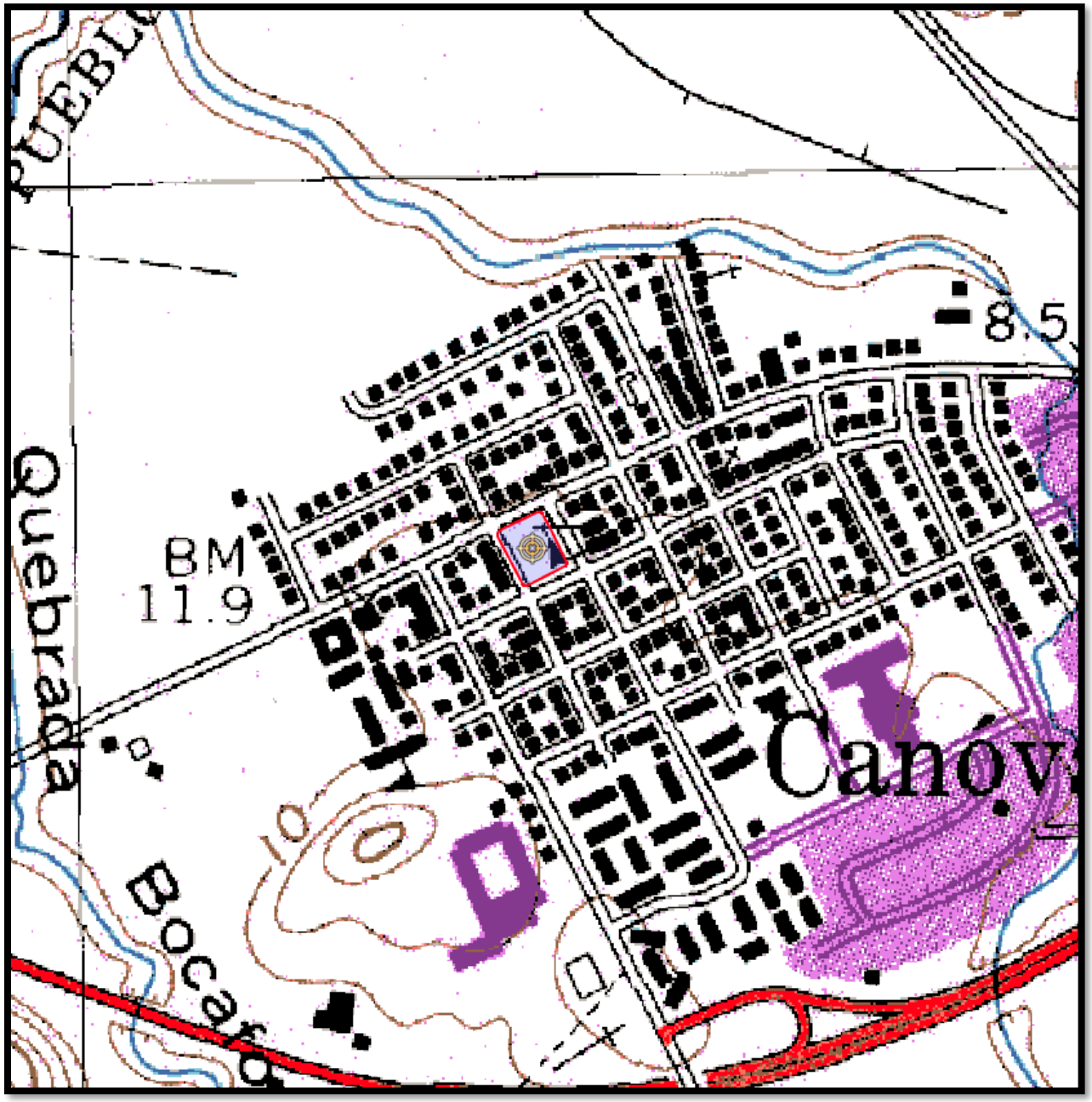
Site East View



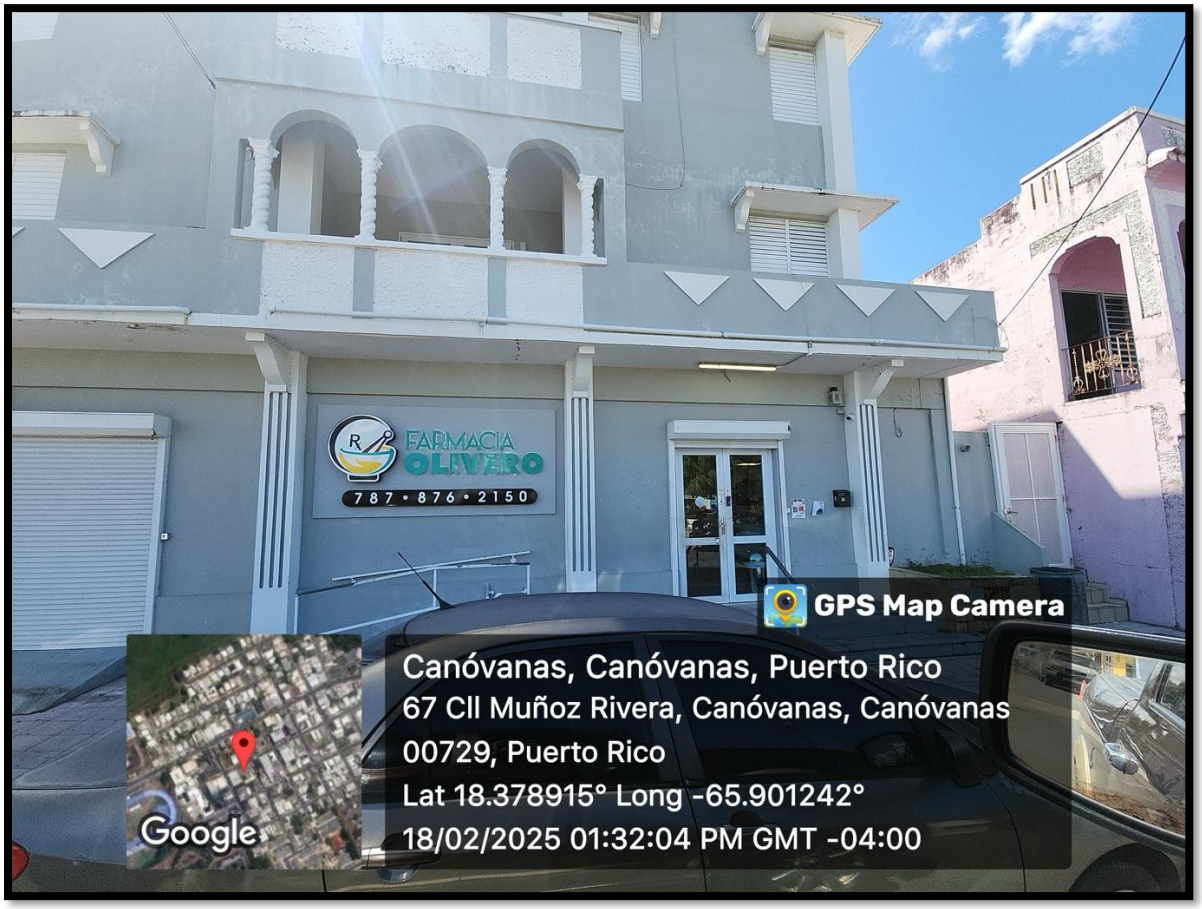
Site West View

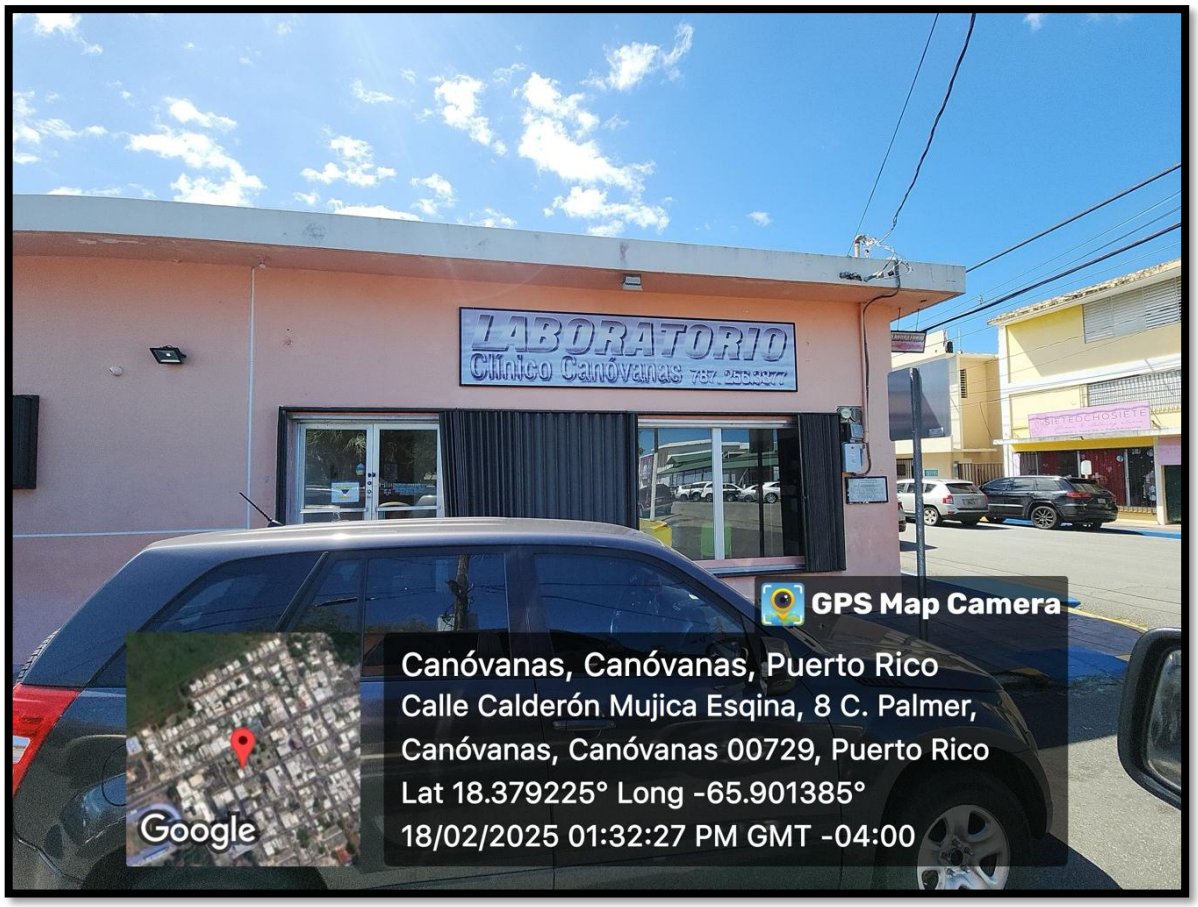


SITE TOPOGRAPHIC	Plaza Juan F. Arroyo (PR-CRP-000312)
Lat: 18.37913, Lon: -65.90094	



Around Area Photos	Plaza Juan F. Arroyo (PR-CRP-000312)
Lat: 18.37913, Lon: -65.90094	






DENTISTA
GENERAL Y PEDIATRICO
787-256-3115
DENTISTAS
TRANSITO
GPS Map Camera
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Canovanas, Canóvanas 00729, Puerto Rico
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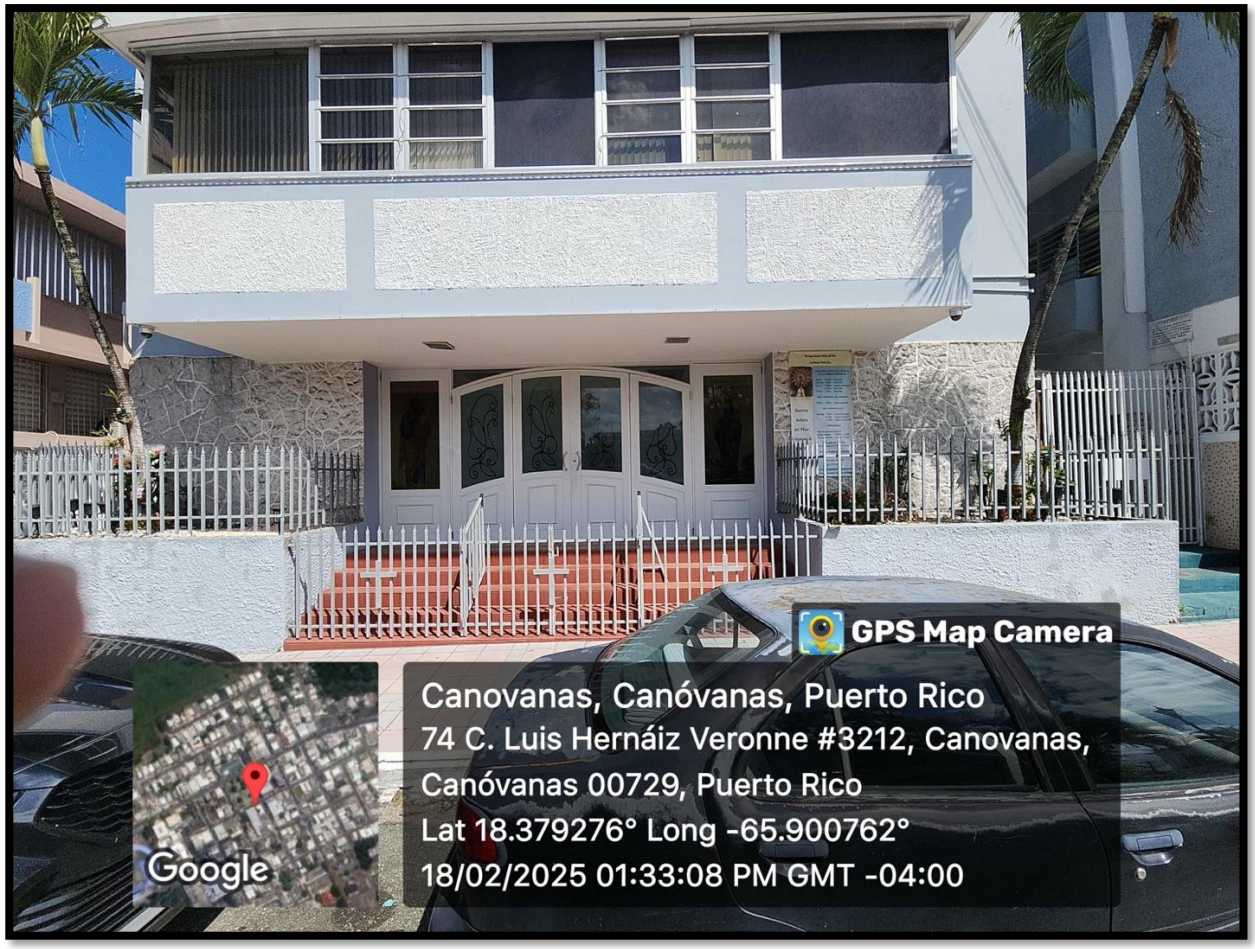
18/02/2025 01:32:54 PM GMT -04:00
Google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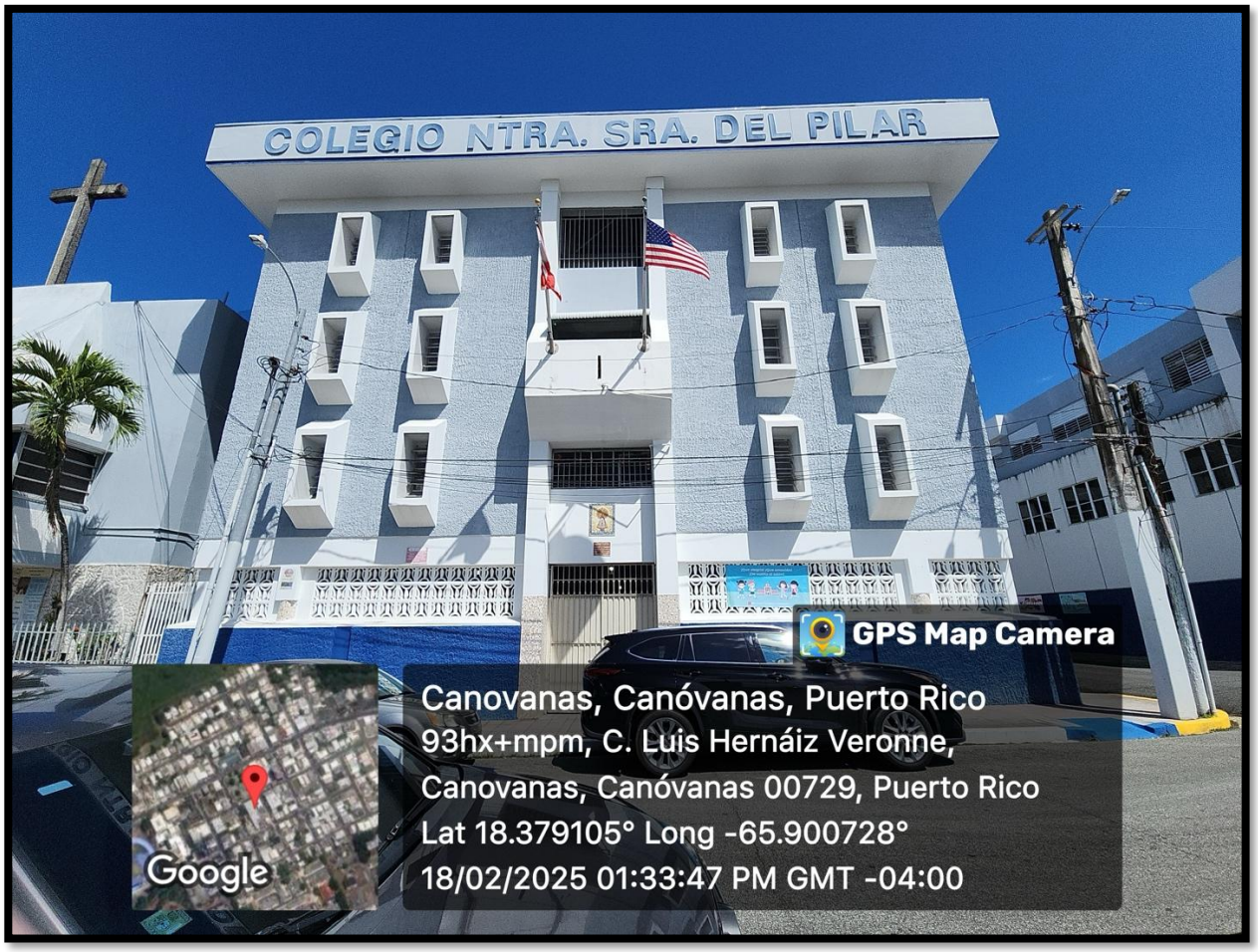
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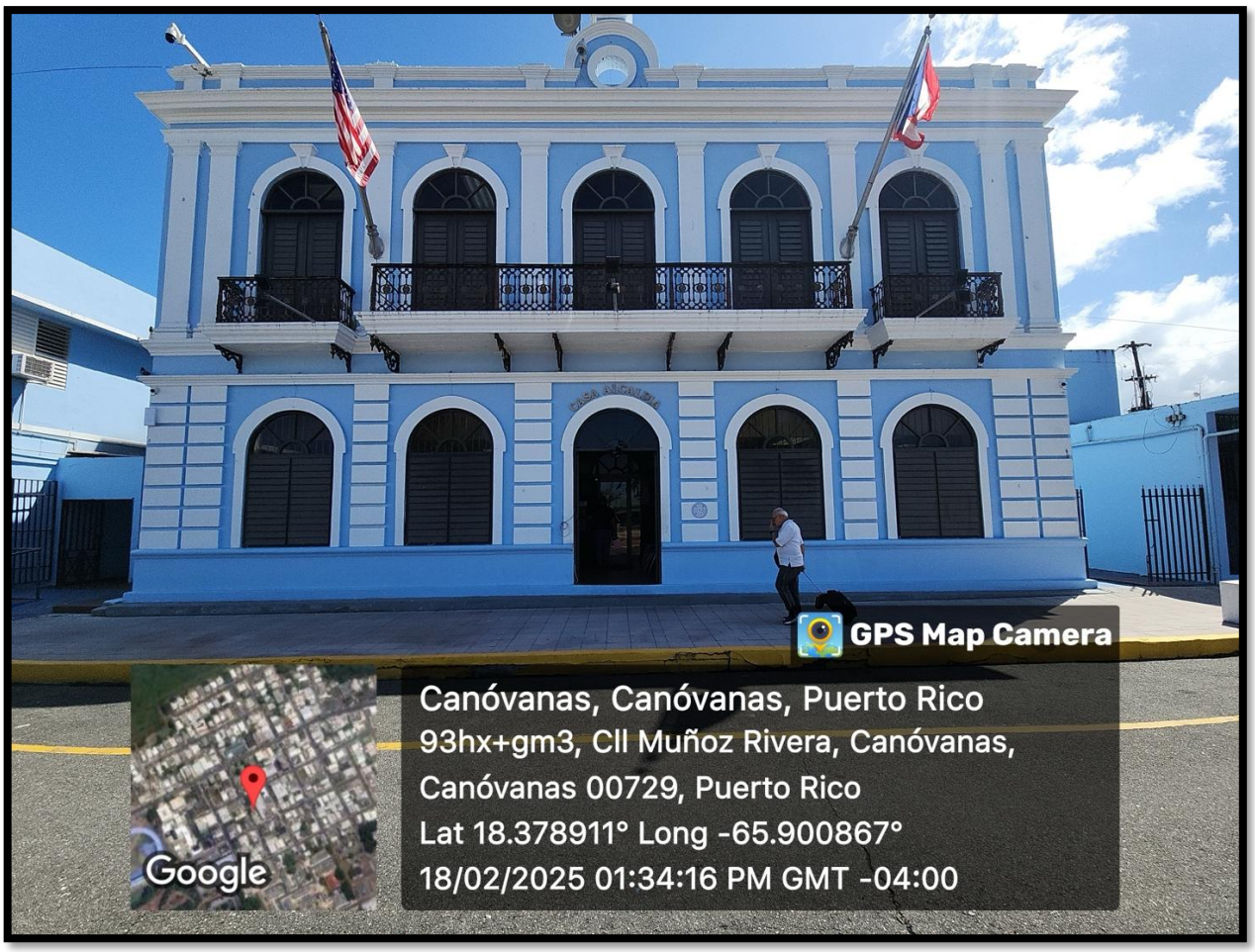
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Exhibit 10b

GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Thursday, February 6, 2025

Lauren B Poche

269 Avenida Ponce de León, San Juan, PR, 00917

SHPO-CF-01-27-25-02 PR-CRP-000312 (Canóvanas), Plaza Juan F. Arroyo Improvements

Dear Ms. Poche,

We have reviewed the archaeological monitoring plan, dated January 2025, prepared for the above referenced project. The plan is deemed acceptable.

If you have any questions regarding our comments, please do not hesitate to contact our Office.
Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/ MB

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery

January 27, 2025

Carlos A. Rubio Cancela
State Historic Preservation Officer
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá (Tercer Piso)
San Juan, PR 00902-3935

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program

Re: SHPO-CF-10-23-24-08 PR-CRP-000312: Plaza de Recreo Juan F. Arroyo Improvements Project, Canóvanas, Puerto Rico – *Archaeology Monitoring Work Plan Submission*

Dear Architect Rubio Cancela,

On behalf of the Puerto Rico Department of Housing (PRDOH), we thank you for your letter dated November 27, 2024, in response to the submission of documentation for PR-CRP-000312, Plaza Juan F. Arroyo Improvements project. The letter stated that the records of the Puerto Rico State Historic Preservation Office supported PRDOH's finding of no adverse effect on the proposed undertaking, based on the conditions proposed: Archaeological monitoring during ground-disturbing activities.

As such, we are submitting the requested Archaeological Monitoring and Protection Plan for the Plaza de Recreo Juan F. Arroyo Improvements Project (PR-CRP-000312/ SHPO-CF-10-23-24-08) prepared by Archaeologist Imandra Martínez. We are requesting your review of the prepared plan and concurrence that the implementation of the plan is appropriate for the undertaking.

Please contact me with any questions or concerns by email at lauren.poche@horne.com or phone at 225-405-7676.

Kindest regards,

Lauren B. Poche

Lauren Bair Poche. M.A.
Architectural Historian, EHP Senior Manager
LBP/JCO
Attachments

PR-CRP-000312

Plaza de Recreo Juan F. Arroyo Project

Canóvanas, Puerto Rico

Archaeology Monitoring Work Plan

PRDOH CDBG-DR CRP PROGRAM

Improvements to Plaza Juan F. Arroyo Canóvanas, Puerto Rico

PR-CRP-000312/SHPO-CF-10-23-24-08



Archaeological Monitoring Plan

Imandra Martínez, Archaeologist– Plexos Group
January 2025

Incorporating the Archaeological Monitoring Work Plan Template developed by Archaeologist Sharon Meléndez Ortiz, HORNE PR, 2023

PREAMBLE

The Municipality of Canóvanas is seeking Community Development Block Grant disaster recovery funds financed by the federal Department of Housing and Urban Development due to damage received by the 2017 Hurricanes Irma and María. The Puerto Rico Department of Housing (PRDOH) has established an Agreement between PRDOH and the Municipality of Canóvanas for the City Revitalization Program as part of the Community Development Block Grant for Disaster Recovery (CDBG-DR) Program. The Municipality of Canóvanas proposes to revitalize the Juan F. Arroyo Public Plaza, flanked by Palmer Street (PR 9959) to the north, Muñoz Rivera Street to the south, Calderón Mújica Street to the west, and Luis Hernaiz Street to the east. (18.37913, -65.90094) (Figures 1 and 2). The Puerto Rico State Historic Preservation Office (PRSHPO), in a letter dated October 23, 2024, concurred with a finding of No Adverse Effect for this undertaking conditioned to the implementation of archaeological monitoring during any ground-disturbing and excavation activities.

In accordance with the 90% construction plans[1], the undertaking will include the reconstruction of the plaza to comply with ADA standards and ensure universal access. This new access will involve the construction of stairs and ramps on all sides of the plaza without significantly altering existing levels. The project also includes surface area enhancement to increase permeability and urban reforestation with the installation of pavilions to provide shade. To maintain the current landscape, minimal excavation for foundations is planned. According to the Section 106 NHPA Effect Determination Form (Montenegro & González, 2023/2024), detailed technical specifications and plans adhere to the PR Building Code 2018. It also indicated that the project meets all regulatory requirements for Construction Permit approval (dated August 12, 2024) as it focuses on surface improvements and reforestation without altering the plaza's footprint or current usage. The direct APE is limited to the footprint of the Juan F. Arroyo Public Plaza, approximately 166 feet wide by 191 feet long, with an area of 31,706 square feet (0.72 acres). The boundaries of the APE are as follows: Palmer Street (PR 9959) on the north side, Calderón Mújica Street on the westside, Luis Hernaiz Street along with the church on the east side, and Muñoz Rivera Street on the south side, which is also bordered by the City Hall. The visual APE consists of one to two-story concrete commercial buildings built around ca. 1960 to 1980 with architectural styles of Spanish Neoclassical, Art Deco, and Modern.

The objectives of this archaeological monitoring plan are: (1) to establish measures to prevent indirect adverse effects on known historical resources; (2) to establish the protocol to be followed in archaeological monitoring; (3) to establish the protocol to be followed if previously unknown resources are identified; (4) to establish the protocol to be followed if there are any unexpected or previously unanticipated adverse effects; (5) to locate, evaluate, and document archaeological resources during project development; (6) to recover as much archaeological information as possible during excavation and construction; (7) to conserve and enhance the value of the archaeological resources

[1] Appendix B

located and documented; and (8) in the event that the archaeological resource cannot be conserved *in situ*, to conserve it through documentation (preservation by record).

This document complies with applicable federal and state laws, regulations, and guidelines, and is consistent with the Secretary of the Interior's (SOI) Guidelines for Archeological Documentation, the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, and Regulation #8932 of the Institute of Puerto Rican Culture (ICP). The plan was prepared by archaeologist Imandra Martínez, who meets the Professional Qualifications Standards set forth in 36 CFR Part 61.

This scope of work is divided into six (6) sections and one (1) appendix. The section following this preamble discusses the proposed construction works. The third section includes a brief description of the historic properties located within the APE and of the archaeological potential of the area. The fourth section provides a detailed description of the archaeological monitoring procedure to be carried out before, during, and after the construction works. The fifth section includes the professional qualifications of the team that will implement this monitoring plan, and the last section includes the references cited. The plan closes with an appendix with a model of monitoring daily activity sheet (Appendix A).

Figure 1. Project Location USGS map, 1969. Original scale 1: 20 000. The project location is highlighted in red (Source: United States Geological Survey).

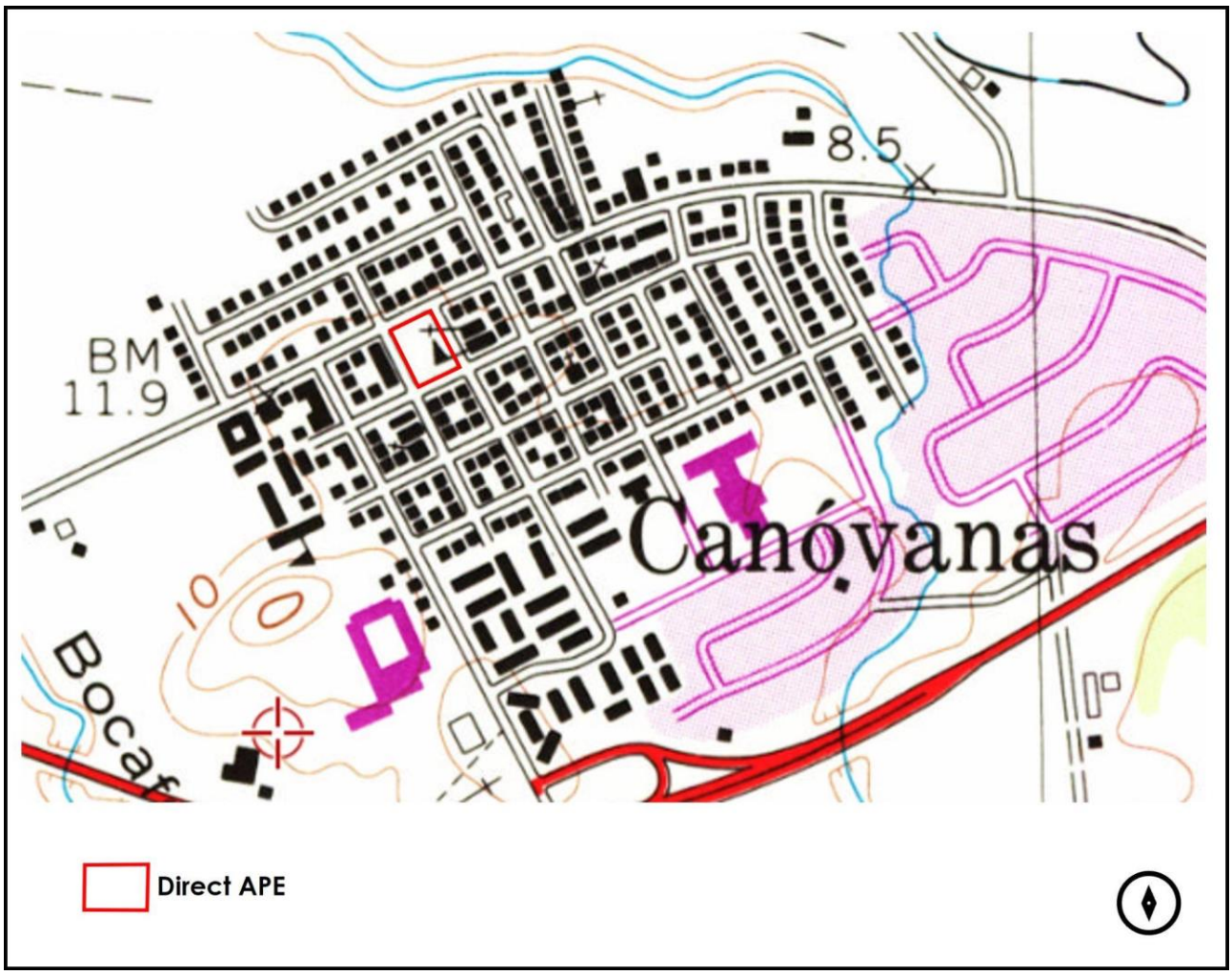


Figure 2. Project Parcel Location. Direct Area of Potential Effect Map (PR-CRP-000312, Plaza Juan F. Arroyo Improvements, Canóvanas, Puerto Rico, 2024).



1. PROJECT DESCRIPTION

The project aims[2] to revitalize the Juan F. Arroyo Public Plaza in the Municipality of Canóvanas, built in the 19th century and flanked by Palmer Street (PR 9959) to the north, Muñoz Rivera Street to the south, Calderón Mújica Street to the west, and Luis Hernaiz Street to the east. The direct APE is limited to the footprint of the public plaza, approximately 166 feet wide by 191 feet long, with an area of 31,706 square feet (0.72 acres).

The undertaking proposes to remove the concrete pavement in some areas and install concrete pavers in others where the pavement is intended to remain. The project proposes implementing ADA standards by constructing ramps on all sides of the plaza, and new stairs to facilitate easy access without altering existing levels. Urban reforestation will be carried out along with the installation of shade pavilions, lighting fixtures, benches, trash recipients, open roof areas, and the construction of cast-in-place planters, a perimeter wall, and new sidewalks around the plaza. According to the Section 106 NHPA Effect Determination Form ((Montenegro & González, 2023/2024)), the project, as proposed, does not require any infrastructure beyond the existing one and is not going to alter the footprint of the plaza, nor the design will change its urban setting.

According to the 90% project plans, the general improvements are as follows:

Ground disturbance:

1. Reforestation
2. Flooring
3. Shade Pavillion
4. Lighting fixtures
5. Lighting columns
6. Bollard lighting
7. In-grade lighting
8. Urban furniture

Demolition works:

1. Remove and dispose of existing light posts.
2. Remove and dispose of brass plaques.
3. Remove and dispose of the existing sidewalk slab.
4. Remove existing concrete pavement in the APE.
5. Remove and dispose of existing brass joints.
6. Remove and dispose of existing concrete stairs and ramps.
7. Move & relocate the hose bib.
8. Remove and dispose of existing planters and related items.

New construction:

1. Lighting system

[2] To better understand the proposed undertaking, see the attached most recent design plans (Appendix B).

2. Concrete benches
3. Trash recipients
4. Reconstruction of sidewalks around the plaza
5. Cast in place planters.
6. Installation of trellises (open roof areas)
7. The implementation of landscape to improve green areas.
8. Perimeter wall – 1ft below grade

The demolition works and excavations inside the plaza will be performed using lightweight equipment. The contractor shall take precautions during demolition works on environmentally, architecturally, and archaeologically sensitive areas. During the demolition and construction process, erosion and sedimentation control measures will be implemented to avoid sediment discharge into the road surface and storm sewer system during rainfall events.

***Figure 3. Existing and Demolition plan of* Plaza Pública Juan F. Arroyo *(Source: 90% Construction Document, Sheet # ED-1.0,* In.Formation Studio).**

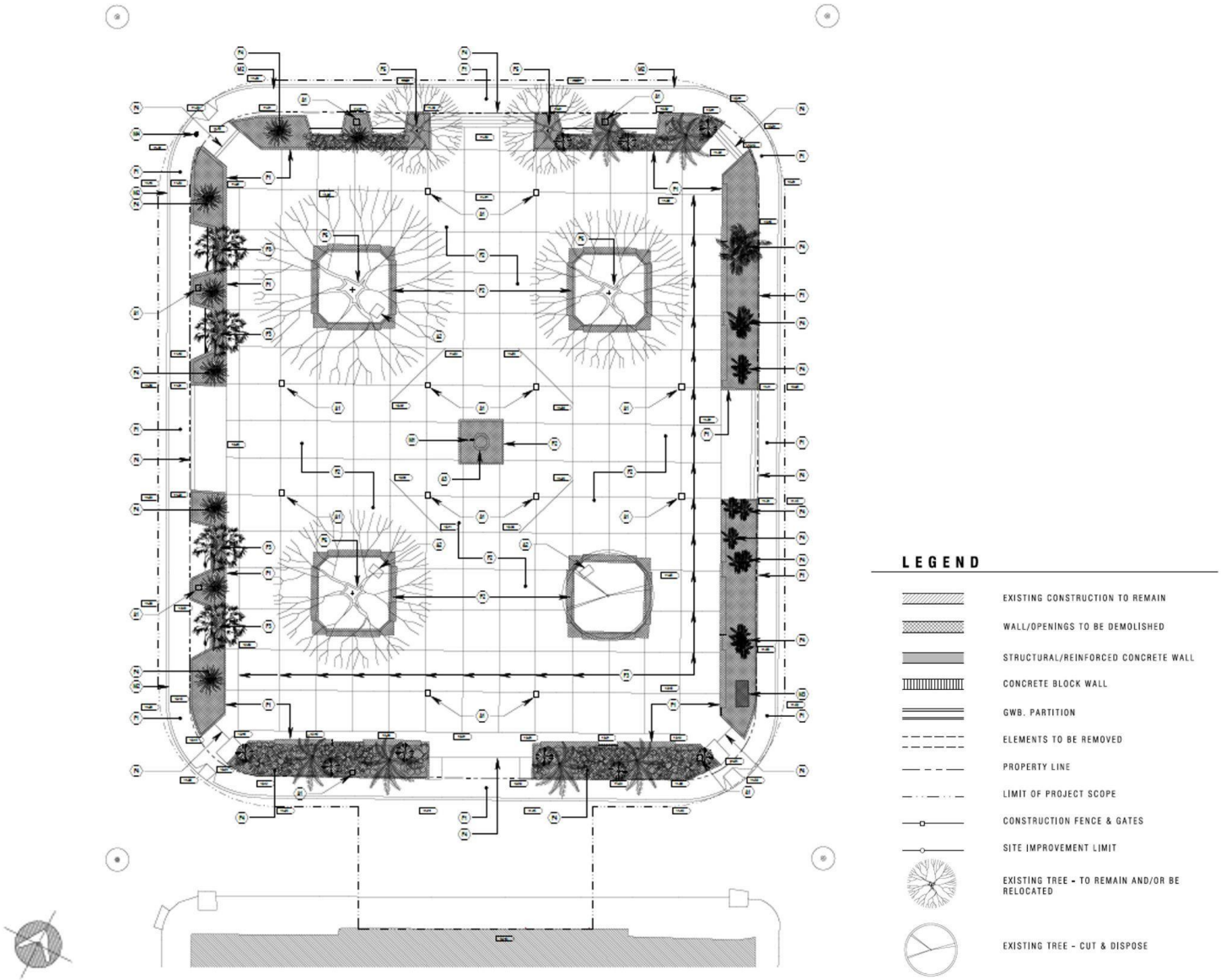
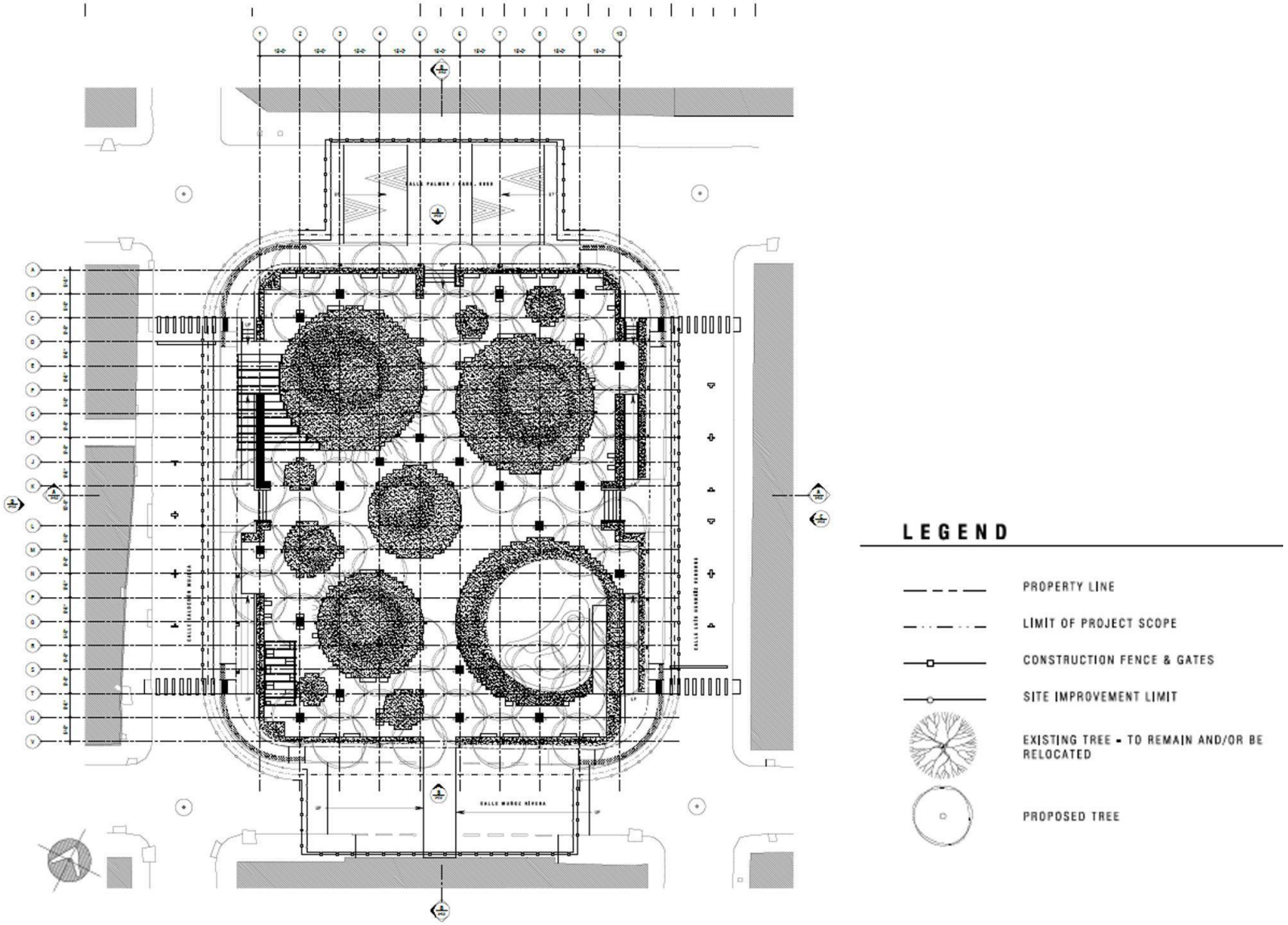


Figure 4. Proposed Floor Plan of* Plaza Pública Juan F. Arroyo *(Source: 90% Construction Document, Sheet # A-1.0,* In.Formation Studio*).



2. HISTORIC PROPERTIES WITHIN THE APE

The project area is in the official public plaza of the Municipality of Canóvanas (*Plaza Pública Juan F. Arroyo*). According to the previous investigation made by Cristina Montenegro Torres and Tamara González Vega, *Plaza Juan F. Arroyo Improvements, CRP-000312, Puerto Rico 2017 Disaster Recovery, CDBG-DR Program, City Revitalization Program (CRP), Section 106 NHPA Effect Determination*, *2023/2024*, the foundation of Canóvanas dates to the 19th century, when the municipality was officially separated from Loíza, of which Canóvanas was part of. For four centuries Canóvanas was the most important territory of Loiza due to its sugar production. It became a neighborhood with the most wealthy and established haciendas in comparison with its municipal government of Loiza. Thanks to this, a movement was created by political and economic sectors to transfer the center of municipal power from Loíza to Canóvanas. By 1910, The municipality of Canóvanas was inaugurated, although it still belonged to Loíza, it was not until 1973 that it was officially declared a legal municipality. The same research mentions that by the 20th century, the city reached about two blocks, and the urban layout followed the European orthogonal grid. The urban layout was composed of domestic buildings followed by defensive and public structures. It had a total of 30 blocks and the municipal cemetery had already been developed south of the town.

As mentioned above, the project will directly impact *Juan F. Arroyo* Plaza. The Plaza is part of the NRHP-eligible District Canóvanas Traditional Urban Center. It is important to note that *Plaza Pública Juan F. Arroyo*, in its character, is eligible for the National Register of Historic Places and is also a contributing site to the eligible Canóvanas Historic District. The *Plaza de Recreo* is an essential element in the urban history of our cities; in addition to their architectural significance, historically, they have been the center of social and cultural life in the island's towns, and it has yielded or may be likely to yield information essential of the urban development of the Canóvanas Traditional Urban Center. *Juan F. Arroyo* Public Plaza is the center of the Traditional Urban Center of Canóvanas. The plaza is rectangular in shape and its main facade faces the south. Its floor is made of concrete with concrete tiles. In the plaza center, there is an octagonal flooring concrete pattern along with a bronze statue and planters in each corner. According to historical cartography, the public square has maintained its shape and location since its layout in the 19th century and has undergone minimal changes in its original demarcation. On an unknown date picture found on the Ana G. Mendez University website, a reconstruction of the plaza is evidenced. According to *Section 106 NHPA Effect Determination form* improvements were completed without significant alterations to the original geometry in 1937.

As mentioned above, *Juan F. Arroyo* Public Plaza is located at the heart of the Canóvanas Traditional Urban Center and, therefore, is surrounded by NRHP-eligible historic properties such as Canóvanas City Hall (ca. 1915); Canóvanas Fire Station (ca. 1942-1955); Colegio Nuestra Señora del Pilar (ca. 1970); Nuestra Señora del Pilar Parish (ca. 1970); A commercial three-story building (ca. 1970, Parcel ID: 089-076-010-01); Commercial two-story building (ca. 1964, Parcel ID: 089-076-048-12) Farmacia Olivero (ca. 1960). The architectural styles of these buildings vary according to their historical context, among which are neoclassical, neo-Renaissance, art deco and postmodern.

Archaeological Potential

Cultural resource studies cited in Section 106 NHPA Effect Determination Form (Montenegro & González 2023 & 2024) reveal that the project area is of high importance. Its a fertile area, since the *Rio Grande de Loiza* and other bodies of water surround the town. The remaining area was covered in sugar cane fields, and the land where the urban center was developed once belonged to *Hacienda San José*. Archaeological remains of agricultural and daily life activities of the 19th century related to the work on the farm, crops, and the people who lived nearby could be found. However, in a quarter-mile radius, only two archaeological studies have been carried out, in which 1 resulted positive and one negative. The one with negative results was a Phase IB for the project *Escuela Intermedia Urbana Antonio R. Barceló,* 213 meters south of the APE. The other was a regional investigation of all the archaeological sites reported for Canóvanas.

The potential for unearthing archaeological materials during ground-disturbing activities is considered non-negligible. The project area is located at the heart of the NRHP-eligible District Canóvanas Traditional Urban Center. The two archaeological studies carried out do not report any prehistoric archaeological site within the Canóvanas Traditional Urban Center. According to Section 106 NHPA Effect Determination Form, the area has been subject to modifications, lowering the potential to encounter prehistoric sites, though, all the identified archaeological sites within the quarter-mile radius are historic buildings potentially eligible for the NRHP. Although the probability is low, historic infrastructural elements, pavements, sidewalks, drainage systems, and lighting systems could be uncovered during demolition and reconstruction activities associated with the early stages of the public plaza. Similarly, ceramics, glass, or metal artifacts related to the lifestyles of the past could be retrieved. Previous cultural layers impacted by disasters like fires, earthquakes, or hurricanes could be identified, among other artifacts of archaeological value. Below is a series of images related to the historical and archaeological significance of the site, as well as its historical uses.

Figure 5. 1929. Canóvanas Catholic Church (Source: Recuperando Memorias. Canóvanas construye su historia. Universidad Ana G. Méndez. https://web.uagm.edu/canovanas)



Figure 6. 1948, Canóvanas City Hall (Source: Facebook page: Canóvanas es más).



Figure 7. 1950, family Iturrino Building and local commerce. The structure is located in front of the public square and next to the Catholic church in the town of Canóvanas. (Source: Recuperando Memorias. Canóvanas construye su historia. Universidad Ana G. Méndez. https://web.uagm.edu/canovanas)



Figure 8 Unknown date picture, Canóvanas square reconstruction (Source: Recuperando Memorias. Canóvanas construye su historia. Universidad Ana G. Méndez. https://web.uagm.edu/canovanas).



Figure 9. 1950, aerial photograph of the town of Canóvanas. The project area is highlighted in red (Source: PR-CRP-000312. Plaza Juan F. Arroyo Improvements. Canóvanas, Puerto Rico).



Figure 10. 1964, an aerial photograph of the town of Canóvanas. The project area is highlighted in red (Source: PR-CRP- 000312. Plaza Juan F. Arroyo Improvements. Canóvanas, Puerto Rico)



Figure 11. Plaza Existing conditions, general view.



3. ARCHAEOLOGICAL MONITORING PROCEDURE

The monitoring activities can be divided into three groups: activities before the project begins, activities during construction, and post-construction activities. Monitoring is limited to activities that entail demolition, excavations, and earth movements. Those reconstruction activities that do not entail excavations or earth movements do not require an archaeological monitor. However, if there are activities with heavy equipment taking place in the vicinity of historic buildings, there should be a monitor present to prevent accidents and indirect impacts.

A. Before Construction Begins

1. The Municipality/Construction Manager (CM) will notify the Project Manager (PM), Grant Manager (GM), and Monitor of the proposed activities' start date. The PM is responsible for coordination between the CM and the SOI-qualified archaeologist who will oversee the monitoring (Monitor).
2. Before any demolition or construction begins, the Municipality, PM, CM, GM, and Monitor will have a kickoff meeting to discuss the procedure for archaeological monitoring, including the coordination protocol between the Monitor and the Contractor. The Monitor will provide an orientation on the area's cultural resources and potential resources and their proper treatment. The Monitor will also explain which project activities require archaeological monitoring.
3. The Municipality, CM, PM, and construction crew will complete and sign a statement outlining the activities that may not be performed without the Monitor's presence, demonstrating their understanding and commitment to following the archaeological monitoring procedures.
4. The Monitor shall document the NHRP-eligible or potentially eligible building through detailed descriptions, photos, and scale drawings. Particular attention shall be paid to the construction stages of the building and to other associated structures that may exist within the project's area of potential effect. This data must be included in the final report.

B. During Demolition and Construction

1. The Monitor shall be in the field during all project activities involving demolition and ground disturbance, and activities with heavy machinery or lightweight equipment in the vicinity of historic buildings; access and clear sightlines to all demolition and excavation activities and debris removal will be provided to the Monitor.
2. The Monitor shall provide instructions directly to the construction field personnel concerning how to proceed when there is a potential to impact an archaeological resource. The construction field personnel will abide by these requests: excavate slowly, stop the excavation work to evaluate a finding, etc.
3. The Monitor shall keep a record of monitored activities. The Monitor shall fill out the Daily Record of Activities Form (see **Appendix A**). These forms should be sent

weekly to the GM for review and will be attached to the final report as an appendix.

4. After the demolition and removal of surfaces, the Monitor shall document any exposed subsurface feature and shall complete a scale plan drawing. The amount, size, and placement of excavation units needed to document the features, if any, shall depend on the size and complexity of the feature being documented. If necessary to understand the context of the identified resource, the Monitor should conduct archival research of primary sources (like previous project files, newspapers, journals), cartographic sources, and historical images.
5. The Monitor shall document all other archaeological remains identified during construction activities, except for previously unidentified historically significant findings (refer to B-7 below). The documentation shall include a detailed description of the discovery, context, horizontal and vertical provenience, photos, and a plan drawing. This documentation shall be done within a reasonable amount of time, trying not to impact on the project schedule as much as possible.
6. Any subsurface feature may be demolished and removed after being documented by the Monitor and approved by the GM. The information recorded will be included in the final report.
7. If the identified archaeological remains are considered historically significant – i.e., complex structures, pre-colonial remains or stratified deposits – the Monitor shall instruct the construction crew to (1) immediately cease work in the vicinity of the discovery, (2) take all reasonable measures to avoid or minimize harm to the property, and (3) notify the Municipality, PM, CM, and GM. The GM shall immediately notify the SHPO, as per stipulation III.B.1.b. of the PA. The following protocol shall be followed:
    a. The Monitor shall make a preliminary assessment of the findings. The assessment shall include a description of the discovery, location, horizontal and vertical extent (if known), context, photographs, and drawings including a site plan. The assessment shall also include a work plan for implementing a National Register of Historic Places' eligibility evaluation of the exceptional remains.
    b. The assessment and NRHP-eligibility evaluation work plan shall be submitted via email to the PM and GM within 24 hours of the discovery. The GM will comment on the work plan within 24 hours of receiving it.
    c. The Monitor shall implement the work plan after receiving the GM's authorization to proceed. After completing the fieldwork, the Monitor shall prepare an End of Field Report, summarizing the results. Said report should include an NRHP-eligibility determination. The End of Field Report shall be submitted via email to the PM and GM within 48 hours after completing the fieldwork.
    d. The GM shall notify the SHPO of the NRHP-eligibility determination.
        i. If the finding is **not eligible** to the NRHP, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO disagrees with the NRHP determination and makes a timely objection within 48 hours of the notification.

ii. If the finding is **eligible** to the NRHP, the criteria of adverse effect shall be applied. If the project activities do not adversely affect the findings, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO makes a timely objection within 48 hours of the notification.

If the project activities have an **adverse effect** on the NRHP-eligible finding, Data Recovery will be implemented as a Treatment Measure per Appendix F of the PA. The Monitor shall develop a data recovery plan with a research design consistent with the Secretary of the Interior's Guidelines for Archeological Documentation (http://www.nps.gov/history/locallaw/arch_ stnds_7.htm) and the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, at https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance. The data recovery plan shall be submitted via email to the GM for comments. The GM shall be responsible for submitting the data recovery plan to the SHPO for comments and approval. This treatment measure does not apply to burials or human remains (refer to II.B.11 of this work plan).

8. If any additional construction activities are added or design changes are made after the project has begun, the Municipality, CM and PM shall inform the GM and the Monitor prior to performing the work. The Monitor, in conjunction with GM, shall evaluate these activities and apply the adverse effect criteria. If it is determined that the effect is adverse, the archaeologist will provide recommendations on how to avoid, minimize, or mitigate the adverse effect. These recommendations will be consulted with the SHPO prior to implementation. The SHPO will have 15 days to comment on the recommendations. If no communication is received within that time frame it will be assumed that the SHPO has no objection and concurs with the recommendations outlined.
9. If during construction activities historic property is affected in an unanticipated manner, the CM shall stop work immediately, and inform the Municipality, PM, GM and Monitor. The Monitor, in conjunction with GM, shall evaluate the unanticipated effects and apply the adverse effect criteria within no more than 24 hours. If the effect is determined to be adverse, the Monitor and GM will provide recommendations on how to avoid, minimize, or mitigate such adverse effects. The GM shall consult with the SHPO on the recommendations prior to implementation. The SHPO will have 48 hours to comment on the recommendations. If no communication is received within that time frame, it will be understood that the SHPO has no objection and concurs with the recommendations outlined.

C. After Construction Ends

1. Upon the completion of archaeological monitoring, the Municipality, PM and GM shall be notified. The estimated date of delivery of the final report shall be indicated in the said notification.
2. A technical report shall be prepared detailing monitored construction activities,

documentary research (if any), documentation of archaeological features and other findings, and analysis and interpretation of the results. The report must include visual information, such as drawings and photos, and a sketch plan of all the documented findings. The report shall be submitted to the GM no later than two (2) weeks after completing the archaeological monitoring work. The GM shall submit the report to the SHPO no later than one (1) week after receiving it.

D. Human Remains

If human remains are discovered, the protocol established in Stipulation III.B.1.c. of the PA must be followed:

1. Stop work immediately.
2. Notify the local law enforcement office and coroner/medical examiner following applicable Commonwealth statute(s).
3. Protect the remains from any harm.
4. The GM shall be responsible for notifying the SHPO within twenty-four (24) hours of identifying human remains.

4. PROFESSIONAL QUALIFICATIONS

The Monitor must meet the minimum Secretary of the Interior's Professional Qualifications Standards for Archaeology established in 36 CFR Part 61. These are: a graduate degree in archaeology, anthropology, or closely related field, plus at least one (1) year of full-time professional experience or equivalent specialized training in archaeological research, administration, or management; at least four (4) months of supervised field and analytic experience in general Puerto Rican archaeology; the demonstrated ability to carry research to completion; and at least one (1) year of full-time professional experience at a supervisory level in the study of archaeological resources of the pre-Columbian and colonial periods. Please see https://www.nps.gov/history/local-law/arch_stnds_9.htm for more information.

The SOI-qualified archaeologist shall not defer their monitoring responsibilities to any other person who does not meet the minimum professional qualifications. Any additional personnel to intervene in monitoring efforts shall have vast experience in historic archaeology, in working in evaluation (Phase II), documentation (Phase III), and monitoring projects dealing with colonial period properties.

The Principal Investigator may not transfer his or her duties, obligations, and responsibilities to subordinates or other technicians who are not professionally trained in archaeology. In the case of hiring archaeologists and trained technicians to assist in archaeological monitoring, the Principal Investigator must be present for at least 25 percent of the duration of the fieldwork to supervise them.

5. CITED REFERENCES

Advisory Council on Historic Preservation
1980 *Treatment of Archeological Properties: A Handbook*. http://libraryarchives.metro.net/DPGTL/archaeology/1980_treatment_archaeological_properties.pdf.

Consejo para la Protección del Patrimonio Arqueológico Terrestre de Puerto Rico
2017 *Reglamento para la radicación y evaluación arqueológica de proyectos de construcción y desarrollo*. San Juan: ICP. Reglamento #8932 del 8 de febrero de 2017.

In. Formation Studio
2024 Plaza Juan F. Arroyo Improvements.

Marvel, Thomas S. and Moreno Maria L.
1994 Architecture of Parish Churches in Puerto Rico. San Juan: Editorial de la Universidad de Puerto.

National Park Service
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APPENDIX A: MONITORING DAILY ACTIVITY SHEET

	PUERTO RICO 2017 DISASTER RECOVERY **City Revitalization Program** **ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES**
Case ID:	**Project Location:**
Municipality:	**Project Coordinates** (lat/long)**:**

SOI Qualified-Archaeologist:
Date of Monitoring: Click or tap to enter a date.
Work Hours:

Description of work performed by contractor and supervised by the Monitor:

	YES	NO
Are the project activities conforming to the LIDRS? If not, explain below.	☐	☐
Was an archaeological remain documented during the day. If yes, include required information below.	☐	☐
Was an exceptional archaeological remain identified during the day? If yes, explain below.	☐	☐
Have the construction activities affected a previously unidentified property or a known historic property in an unanticipated manner? If yes, explain below.	☐	☐
Has there been a change in the scope of work of the project? If yes, explain below.	☐	☐

	PUERTO RICO 2017 DISASTER RECOVERY **City Revitalization Program** **ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES**
Case ID:	**Project Location:**
Municipality:	**Project Coordinates** (lat/long)**:**

Site Photos	
Direction of Photo: Click here to enter text. **Description:** Click here to enter text.	
Direction of Photo: Click here to enter text. **Description:** Click here to enter text.	

APPENDIX B: 90% DESIGN PLANS

GOVERNMENT OF PUERTO RICO
STATE HISTORIC PRESERVATION OFFICE
Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Wednesday, November 27, 2024

Lauren B Poche

269 Avenida Ponce de León, San Juan, PR, 00917

SHPO-CF-10-23-24-08 PR-CRP-000312 (Canóvanas), Plaza Juan F. Arroyo Improvements

Dear Ms. Poche,
Our Office has received and reviewed the information submitted for the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation.
After a review of all the documentation, the SHPO agrees with your finding that the proposed project with the established condition, will have no adverse effect upon historic properties:
1. Archaeological monitoring during ground disturbing activities.
Please note that should the Agency discover other historic properties at any point during project implementation, you should notify the SHPO immediately. If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela
State Historic Preservation Officer
CARC/GMO/ MDC

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery

10/23/2024

Carlos A. Rubio Cancela
State Historic Preservation Officer
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá (Tercer Piso)
San Juan, PR 00902-3935

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program

Section 106 NHPA Effect Determination Submittal for PR-CRP-000312, Plaza Juan F. Arroyo Improvements, Canóvanas, Puerto Rico – *No Adverse Effect, Conditioned*

Dear Architect Rubio Cancela,

On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds was approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting unmet needs in the wake of Hurricanes Irma and Maria. On August 14, 2018, an additional $8.22 billion recovery allocation was allocated to Puerto Rico under the Federal Register Volume 83, No. 157, 83 FR 40314. With these funding allocations, the Puerto Rico Department of Housing (PRDOH) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents. To faithfully comply with HUD's environmental requirements, PRDOH contracted Horne Federal, LLC (HORNE) to provide environmental records review services that will support their objectives for the CDBG-DR funds.

On behalf of PRDOH, HORNE is submitting documentation for the proposed Plaza Juan F. Arroyo in the Canóvanas Traditional Urban Center, which is eligible for listing in the National Register of Historic Places. The Municipality of Canóvanas proposes to improve the existing plaza by enhancing the surface area with increased permeability and urban reforestation, alongside the installation of pavilions to provide shade. Sidewalks will be reconstructed, and accessibility will be prioritized with the inclusion of stairs and ramps on all sides. New lighting, benches, and planters will be installed. The full scope of the project is described in the submitted documentation, which includes mapping, photographs, and the 90% design development plans.

Based on the provided documentation, the Program requests a concurrence with a determination that "No Adverse Effect" is appropriate for this undertaking, conditioned to archaeological monitoring during all ground-disturbing activities. If this condition is deemed appropriate, An archaeological monitoring plan will be prepared and submitted to the PRSHPO for review and concurrence of the appropriateness of its implementation for this undertaking.

If you have any questions or concerns, please contact me by email at lauren.poche@horne.com or phone at 225-405-7676.

Kindest regards,



Lauren Bair Poche. M.A.
Architectural Historian, EHP Senior Manager
LBP/KPS

Attachments

PR-CRP-000312

Plaza Juan F. Arroyo Improvements

Canóvanas, Puerto Rico

Section 106 Effect Determination Form

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM **CITY REVITALIZATION PROGRAM (CITY-REV)** **Section 106 NHPA Effect Determination**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Canóvanas	
Case ID: PR-CRP-000312	**City:** Canóvanas
Project Name: Plaza Juan F. Arroyo Improvements	

Project Location: Calderon Mújica St., and Muñoz Rivera corner, Canóvanas PR00729	
Project Coordinates: 18.37913, -65.90094	
TPID (Número de Catastro)**:** 089-086-015-01-000	
Type of Undertaking: ☒ Substantial Repair ☐ New Construction	
Construction Date (AH est.): 1930	**Property Size** (acres)**: 0.64**

SOI-Qualified Architect/Architectural Historian: Cristina Montenegro Torres
Date Reviewed: 6/4/23, 2/24/24, 3/21/24, 9/ 17/24, 10/13/24
SOI-Qualified Archaeologist: Tamara González Vega
Date Reviewed: 6/9/23, 12/26/24, 5/2/24, 9/ 17/24

In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the NRHP and any properties not listed that would be considered eligible for listing that are located within the geographic area of potential effects (APE) of the proposed project and assessing the potential effects of its undertakings on these historic properties.

Project Description (Undertaking)

The applicant is seeking Community Development Block Grant disaster recovery funds financed by the federal Department of Housing and Urban Development due to damage received by the 2017 Hurricanes Irma and Maria. The Puerto Rico Department of Housing (PRDOH) has established an Agreement between PRDOH and the Municipality of Canóvanas (the "Subrecipient") for the City Revitalization Program ("Program") as part of the Community Development Block Grant for Disaster Recovery (CDBG-DR) Program. It is a Section 106 undertaking due to the use of federal dollars. Activities related to this project will be done in a manner that does not meet Stipulations II.A.1 and/or II.B.9 of the Addendum to the Programmatic Agreement. In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the NRHP and any properties not listed that would be considered eligible for listing that are located within the geographic area of potential effects (APE) of the proposed project and assessing the potential effects of its undertakings on these historic properties.

The existing Plaza to be improved measures 166 feet in width and 191 feet in length, encompassing an area of approximately 2,314.96 square meters. This plaza was formalized since the founding of the municipality of Canóvanas. According to the Recommended Base Flood Elevation Map from the Planning Board, Panel: 72000C0395J,

the plot is in Zone X (0.2% Annual Flood Probability). The property of the Plaza and all improvement rights belong to the municipality of Canóvanas, which has administered it since its founding and proclamation as a municipality.

The Plaza is in the center of the municipality of Canóvanas, with Muñoz Rivera Street to the south, PR 9959 to the north, Luis Hernaiz Street to the east, and Calderón Mújica Street to the west. The city hall borders the south side of the plaza, while the church is on the east side. The plaza is part of the Foundational Center of the municipality of Canóvanas, which was founded in 1909 as part of the municipality of Loíza and declared a municipality in 1970.

Design Compliance:

The project is designed to fully adhere to ADA standards, ensuring universal access to and enjoyment of the plaza. Primarily, it involves enhancing the surface area with increased permeability and urban reforestation, alongside the installation of pavilions to provide shade. Accessibility is prioritized with the inclusion of stairs and ramps on all sides, facilitating easy access without altering existing levels significantly. Minimal excavation for foundations is planned to maintain the current landscape. Detailed technical specifications and plans adhere to the PR Building Code 2018. The project meets all regulatory requirements for Construction Permit approval (dated August 12, 2024) as it focuses on surface improvements and reforestation without altering the plaza's footprint or current usage.

Ground Disturbance

- Reforestation: The project proposes the removal of existing trees and all existing perimeter shrubs. Existing concrete pavement will only be removed within the proposed circular planting areas and tree locations. Any existing construction below the pavement shall be removed until natural soil is found. New soil will be imported for backfilling of any tree excavation depth and creation of grass berms within the circular planting areas. The anticipated maximum depth of excavations shall not exceed 5ft.
- Flooring: Where the existing concrete pavement is intended to remain, the surface shall be prepared for the overlaid installation of proposed concrete pavers. Surface preparation will include partial leveling, and repair of any structural cracks found during the construction process.

- Shade pavilion: The installation of the shade pavilion inherently brings excavation of three-foot-deep trenches for the construction of a continuous footing that structurally supports the structure. No additional disturbance will be required.
- Lighting fixtures: All electrical fixtures will require minimal ground disturbance for the distribution of required branch circuits.
- Light columns: No additional excavation is required beyond circuit branch distribution as the fixture will be installed over the proposed concrete perimeter wall.
- Bollard lighting: No additional excavation is required beyond circuit branch distribution as the fixture will be installed over the proposed concrete paver flooring and existing concrete slab.
- In-grade lighting: No additional excavation is required beyond circuit branch distribution as the fixture will be installed over the proposed concrete paver flooring and existing concrete slab.
- Urban furniture: No disturbance is required for the installation of all benches and trash bins beyond the anchoring of each element to the existing concrete slab.

Demolition works:

- Remove and dispose of existing light post.
- Remove and dispose of brass plaques.
- Remove and dispose of existing sidewalk slab.
- Remove of existing concrete pavement in the APE
- Remove and dispose of existing brass joints.
- Remove and dispose of existing concrete stairs and ramps.
- Move & relocate hose bib.
- Remove and dispose of existing planter and related items.

New Construction:

- Lighting system
- Benches
- Trash recipients
- Reconstruction of sidewalks around the plaza
- Cast in place planters.
- The installation of trellises (open roof areas)

- The implementation of landscape to improve green areas.
- Perimeter Wall – 1ft below grade

The project, as proposed does not require any infrastructure beyond the existing one. The design has been thought to mitigate and reduce runoff to not contribute to the existing stormwater system by using green areas as retainer systems. Lighting, from the point of view of energy supply, would not require anything beyond the existing.

The improvements contemplated for the square are intended to meet the needs of use for the area, adding urban reforestation for greater enjoyment of users during most of the day. The project does not change or alter the footprint of the existing plaza. The design considers the historical past, and its main objective is not to alter the urban setting, feeling, and association.

Design Strategies:

The design strategies outlined adhere to the development progress reflected in the 90% completion stage of the construction documents.

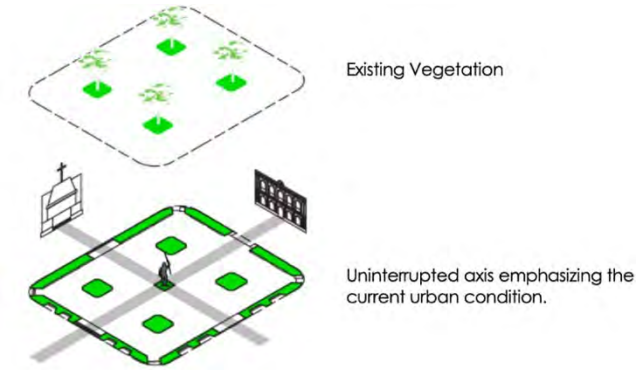


Figure 1

The Juan F. Arroyo Plaza is in a flood-prone area, which justifies its elevated condition. Currently, the plaza contains less than 18% as green space, and of this, all are raised planters. Our proposal begins by recognizing the ecological value that the Plaza can provide to its

surroundings. We wonder how the Plaza can contribute to the urban area. We start by envisioning the existing Plaza as a grey carpet on which we puncture with soft geometries, introducing permeable areas. The green areas containing the existing trees are articulated as mounds, reducing the impact that elevated tree roots may have. Along the perimeter and in the center of the plaza, green areas remain flat. Among the green areas, a linear system parallel to City Hall organizes the rest of the infrastructure necessary to make the plaza functional.

In Figures 1 and 2, we see that the existing plaza, like many others, consists of an element located in the center of it, interrupting the visual axis. We propose a flat green area where we do not interrupt the visual axis and allow for a sitting area in the center of the space. The proposed green area also allows us to redirect the view towards the church from City Hall and vice versa.

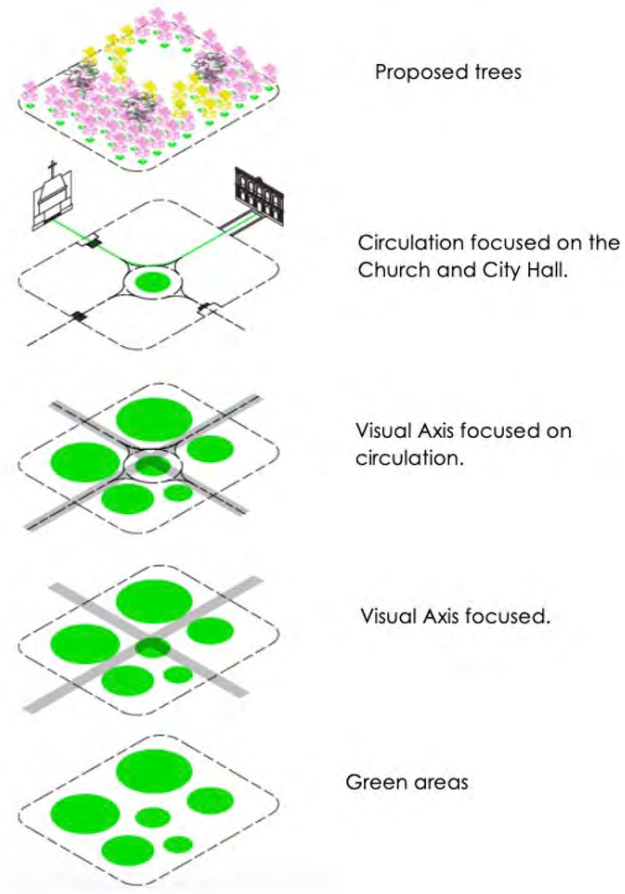


Figure 2

Proposed Access and Circulation:

Being this a raised plaza, the proposal aims to maintain the existing main accesses of the plaza on the axes City Hall / Old Public Transportation Structure and Church / Shops. At these points where the visual axis is established, circulation is distributed between stairs and ramps, providing a similar experience to each person. We recognize that there is a large volume of pedestrians entering the plaza diagonally, due to nearby schools. At the corners, access to the plaza is proposed through a ramp with the lowest possible incline and stairs of a smaller scale than those mentioned earlier.

The main circulation is directed along the main axes, re-establishing the existing four quadrants. In these quadrants, circulation is smoother, among the existing and proposed trees. Along the City Hall / Old Public Transportation Structure axis, a pedestrian crossing is proposed, reinforcing the axis itself and connecting the City Hall with the future Mercado del Pilar located in the Old Public Transportation Structure.

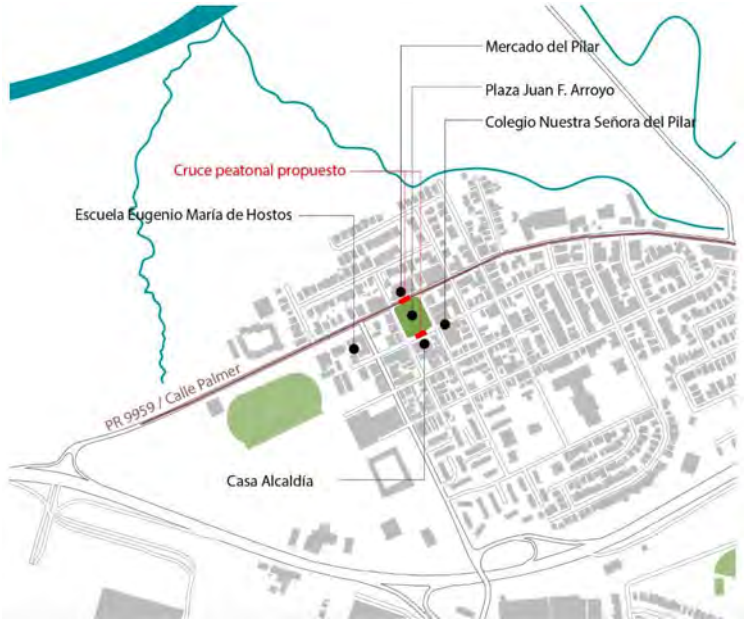


Figure 3: Location diagram of Plaza Juan F. Arroyo concerning nearby schools and crosswalks.

Proposed Trees:

As part of the vegetation strategy, the trees in the northeast, northwest, and southwest quadrants are preserved. The plaza's perimeter walls are of concrete, respecting the height of the existing plaza's elevation. In the plaza's interior, there are no planter walls. Instead, grass berms are designed to transition between the existing plaza level and the tree root level. A network of equidistant trees is established to provide shade, reduce heat, and restore the green character that this plaza had originally. The flower colors will be yellow and purple, reflecting the colors of the flag of Canóvanas once they bloom. The distribution of trees will also mitigate and reduce runoff contribution to the city's

existing stormwater system by using green areas as capture systems. The project proposes the removal of 3 existing trees (one Black Fig tree from the southeastern quadrant, and two Maria trees from the existing north entry). 62 new trees will be planted following a uniform grid, providing shade, reducing heat, and restoring the green character initially held by the plaza. The planting of trees will also mitigate stormwater by using green areas to slow down and infiltrate water where possible. The flower colors will be yellow and purple, reflecting the flag colors of Canóvanas once they bloom. For detailed locations and specifications, please refer to the construction documents.

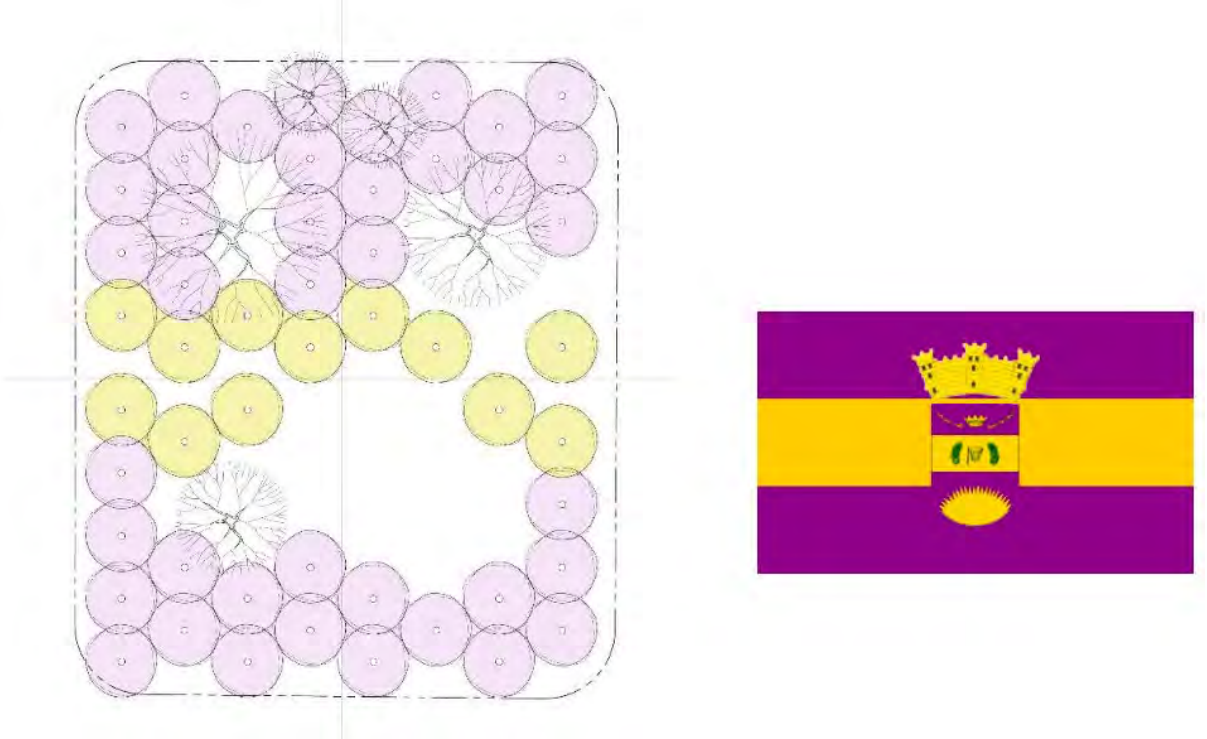


Figure 4: Diagram of distribution of trees and colors / Flag of the Municipality of Canóvanas

Proposed Pavement:

The project proposes a uniform leveling of the plaza and the installation of concrete pavers over the existing plaza pavement. Concrete pavers will be of an exposed aggregate finish meeting the friction requirement for public spaces as well as ADA and universal design standards. It measures 18"x46" and is produced by 713 Pre-cast LLC,

available in light gray and gray. The light gray color will be used in the plaza space, while gray will be used on the surrounding sidewalks. The installation will be focused on correcting the level of the existing pavement, to be used as a base for new concrete paver installation.

The floor pattern is oriented parallel to City Hall. The intersection of the linear pavement pattern and green areas produces a stepped layout that approximates the curves of the planters. From the same linear orientation, trees, furniture, lighting fixtures, pavilions, and galleries are organized.

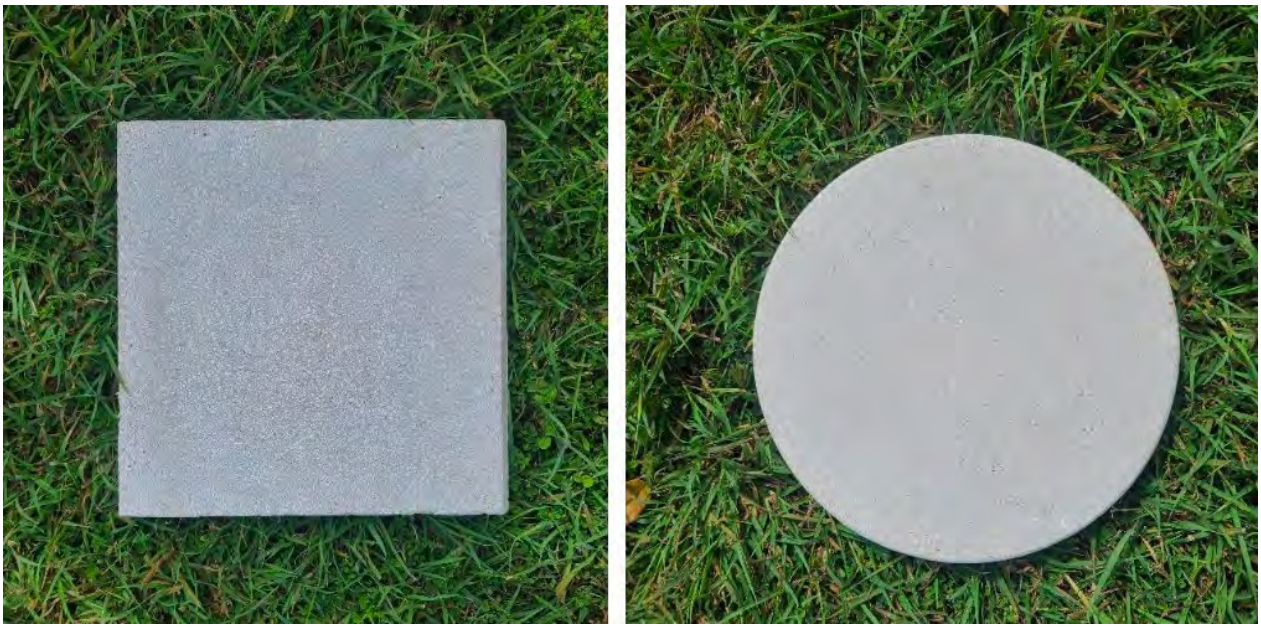


Figure 5: Pavement samples (left grey, right light grey).

Proposed Shade pavilions:

The proposed shade pavilions are strategically positioned among the trees to offer protection from rain while enhancing the aesthetic appeal of the plaza. Crafted from aluminum with a sleek white powder-coat finish, these pavilions not only provide shelter

but also add a contemporary touch to the surroundings.

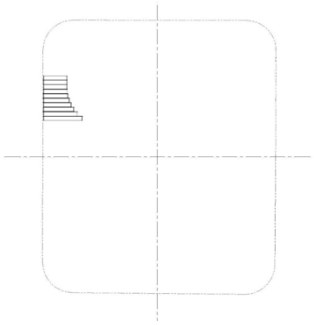


Figure 6: White "Powder Coating"

Gallery / Threshold:

The Gallery serves multiple functions. First, its location establishes a threshold to the plaza. Second, it will be a structure where art or any other needs can be exhibited. Third, it serves as a point of reference in the city, attracting citizens to the public space. Like the shade pavilion, it is made of aluminum with a white powder-coat finish. It is located outside the visual axes. For detailed location and specifications, please refer to the construction documents.

Figure 7: Location of the Gallery Pavilion concerning the visual axes.



Proposed Urban Furniture:

The furniture responds to the pavement organizational strategy. A series of benches (18"X18" and 72"X18") are proposed surrounding the circular planters, referencing the initial garden paths of the historic orthophotographs.

The benches are to be of an exposed aggregate concrete equal to the proposed concrete paver flooring. Beneath the bench, the paver finish changes to a darker tone, emphasizing that the bench is part of the pavement system, where it rises as a strip. The formal simplicity of the proposed furniture allows for the green spaces to be the focus of the space, as it was previously. The material selection ensures easy maintenance and durability that will allow the plaza to be always in acceptable condition.

For detailed locations and specifications, please refer to the construction documents.

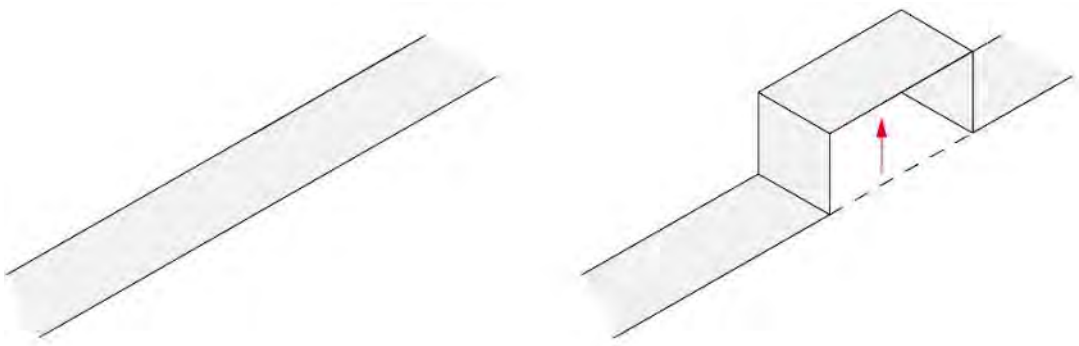


Figure 8: Diagram of the fringe joint, forming the bank.

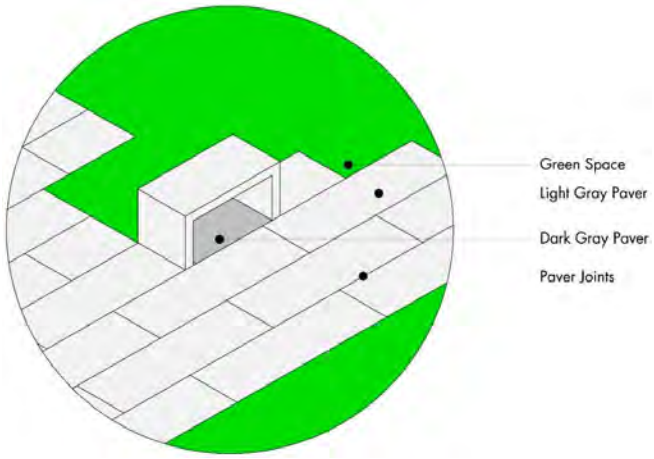


Figure 9: Bench – 713 Precast LLC.
For detailed locations and specifications, please refer to the construction documents.



Figure 10: Trash bin – 713 Precast LLC

Proposed Urban Lighting:

The project encompasses an innovative approach to illuminating urban spaces, fostering safety, ambiance, and community connectivity. Through strategic placement and cutting-edge technology, the proposed urban lighting solution aims to enhance both functionality and aesthetics, creating vibrant and inviting environments after dark. By

blending modern design with energy-efficient practices, to not only illuminates pathways and public areas but also inspires a sense of pride and belonging within the community.

The existing lighting will be removed, and no excavation will be required for the new lighting installation as they will be anchored to the perimeter wall. For detailed locations and specifications, please refer to the construction documents.

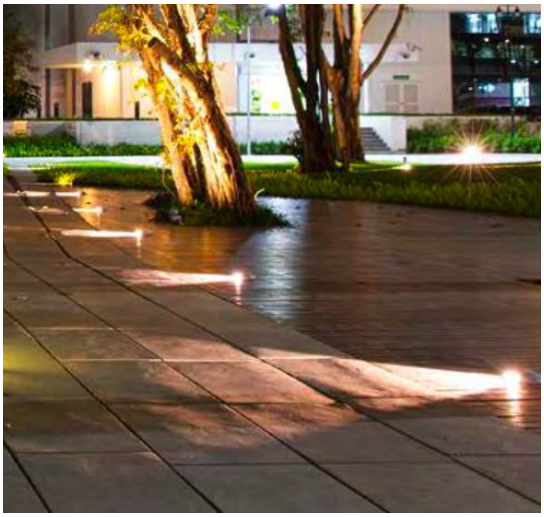


Figure 11: Illumination Strategy to illuminate the pavement in the center of the square.



Figure 12: Proposed product to illuminate the edge of the pavement in the square. For detailed locations and specifications, please refer to the construction documents.

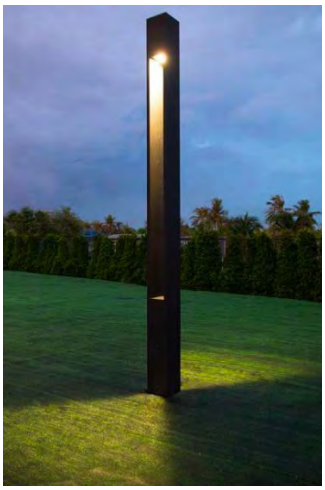


Figure 13: Proposed product to illuminate the sidewalks surrounding the square. For detailed locations and specifications, please refer to the construction documents.

Existing lighting fixtures will be replaced with the specified light fixtures. No additional excavation will be needed as the sidewalk light columns will be installed on the plaza perimeter wall and the interior bollard and in-grade fixtures to be installed surrounding the new planters.

The proposed project for this area has been thoughtfully designed to support and enhance the traditional town center plaza typology. By carefully considering the urban scale, material selection, and contextual harmony, the project aims to create a cohesive and respectful addition to the historic urban fabric. The design ensures that new elements are not intrusive toward historical elements and coexist seamlessly with the existing architectural character and historical context. The use of appropriate materials and attention to the scale of surrounding structures helps maintain the aesthetic integrity of the plaza. This approach not only preserves the historical significance of the town center but also revitalizes it, providing a functional and visually appealing space for community activities and interactions. The project reflects a deep understanding of the traditional

town center's cultural and social importance, ensuring that any enhancements contribute positively to its timeless utility.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project includes Juan F. Arroyo Public Square in Canóvanas.

The urban center of Canóvanas is formed by an oval, whose limit to the south on the PR-3 highway and to the north the floodplains by the Canóvanas River. Even today it retains the original grid with a square, not in the center, but on one of its sides (current Palmer Street). This original nucleus is where today most of the commercial uses and part of the governmental buildings are concentrated, surrounded by single-family urbanizations.

The Palmer Street's extends across a linear distance of 1798.54 meters. The street's sinuous configuration results in varying widths along its course, fluctuating between 8 meters and 10 meters in different segments. Palmer Street boasts a diverse array of small local businesses catering to a broad spectrum of clientele. Its visual landscape encompasses establishments serving civic, sports, dining, medical, and equipment maintenance needs. Positioned as a contemporary boulevard of commerce. The construction of PR-3 improved connectivity with Canóvanas, while Palmer Street provided a direct link to PR-3, facilitating access both east and west. This connection integrates the town's urban center with the main state highway, PR-3.

Juan F. Arroyo Public Plaza, the direct APE, is the center of the Traditional Urban Center (TUC) of Canóvanas. The APE measures 166 feet in width and 191 feet in length, encompassing an area of approximately 2,314.96 square meters (0.64 acres). The main square of Canóvanas is surrounded by Muñoz Rivera Street to the south and bounded by PR- 9959 to the north. Luis Hernaíz Street to the east and Calderón Mújica Street to the west. The Plaza is rectangular in shape and the main shortest façade is facing to the south. The public square materiality is concrete construction and has concrete floor tiles installed. Centered in the public square, an octagon screed poured concrete is evident, and a bronze statue remarks the center of the plaza. In addition, planters at each corner of the public square are evident to enclose visually the perimeter.

Directly facing the APE to the south, along Muñoz Rivera Street, are several two-story commercial buildings built circa 1960 to 1980, also constructed of concrete. These units, while modest in height, contribute to the overall visual context of the area surrounding the APE. To the north, along Palmer St, lies multiple one-story commercial structures and an old public car station from the 1970s, echoing the scale of the neighboring buildings. Collectively, these visual elements delineate the character of the APE's immediate visual

environment, highlighting the interplay between traditional and contemporary architectural elements.

The indirect Area of Potential Effect consists of multiuse buildings characterized by varying heights and distinct architectural styles. The two-story buildings stand approximately 30 feet tall, while the one-story structures reach about 12 feet. The architectural styles present in this area include Spanish Neoclassical, Art Deco, and Modern, providing a diverse visual landscape. These buildings typically lack setbacks, creating a uniform streetscape with a continuous building line. The volumetric design of the buildings is predominantly rectangular, contributing to a cohesive and structured appearance. Balconies are a common feature on many of the two-story buildings, adding an element of depth and interest to the façades. Construction in the APE predominantly uses concrete, reflecting common building practices and materials in the region. The combination of these styles and features creates a vibrant and eclectic architectural environment.

The Eligible Traditional Urban Center of Canóvanas stands as a vibrant testament to the 18th century, encapsulating the unfolding culture of the municipality within its structures. This area boasts a harmonious coexistence of buildings from various epochs and architectural styles, including neocolonial and postmodern designs. The Traditional Urban Center has played a pivotal role in halting the deterioration and irreversible disappearance of many historically significant and salvageable structures. The rich cultural context surrounding the site significantly enhances its value. The project's proximity and integration within the urban center will enhance these culturally significant areas and add immeasurable value, creating a vibrant and contextually rich environment.

Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area is within the boundaries of the National Register of Historic Places (NRHP) eligible Canóvanas Traditional Urban Center.

Canóvanas has a territorial extension of 73.12 km. As for its territorial limits, it is in the northern region of Puerto Rico, with the municipality of Loíza as its northern border. To the south with Juncos and Las Piedras, to the west with Carolina and Gurabo. On the east side it is bordered by Rio Grande and again by Loíza. In the case of the area evaluated in this report, Juan F. Arroyo Public Plaza, is the focal point of the Traditional Urban Center (TUC) in Canóvanas, measures 166 feet wide and 191 feet long, covering about 2,314.96 square meters (0.64 acres). The main square is bordered by Muñoz Rivera Street to the south, PR-9959 to the north, Luis Hernaíz Street to the east, and Calderón Mújica Street to the west.

Possibility of pre-Hispanic archaeological findings

In the case of the municipality of Canóvanas, little archaeological information is available. The pre-Columbian sites are associated with Agro-Pottery II groups (ca.600 AD-1,200 AD), sites CN-1 and TCN-6 were Monserrate, Santa Elena and Esperanza styles have been identified. The documented pre-Columbian sites are in the neighborhoods of Hato Puerco, Lomas, Canóvanas and Torrecilla Alta, mostly in rivers or near bodies of water, since several of them are petroglyphs. The information on pre-Columbian resources available in the reviewed collections indicates that the general area where the Project is located does not present evidence of pre-Columbian deposits. Due to the modifications that the area underwent due to later occupations, it was concluded that the potential for finding pre-Columbian resources in the area under study is low.

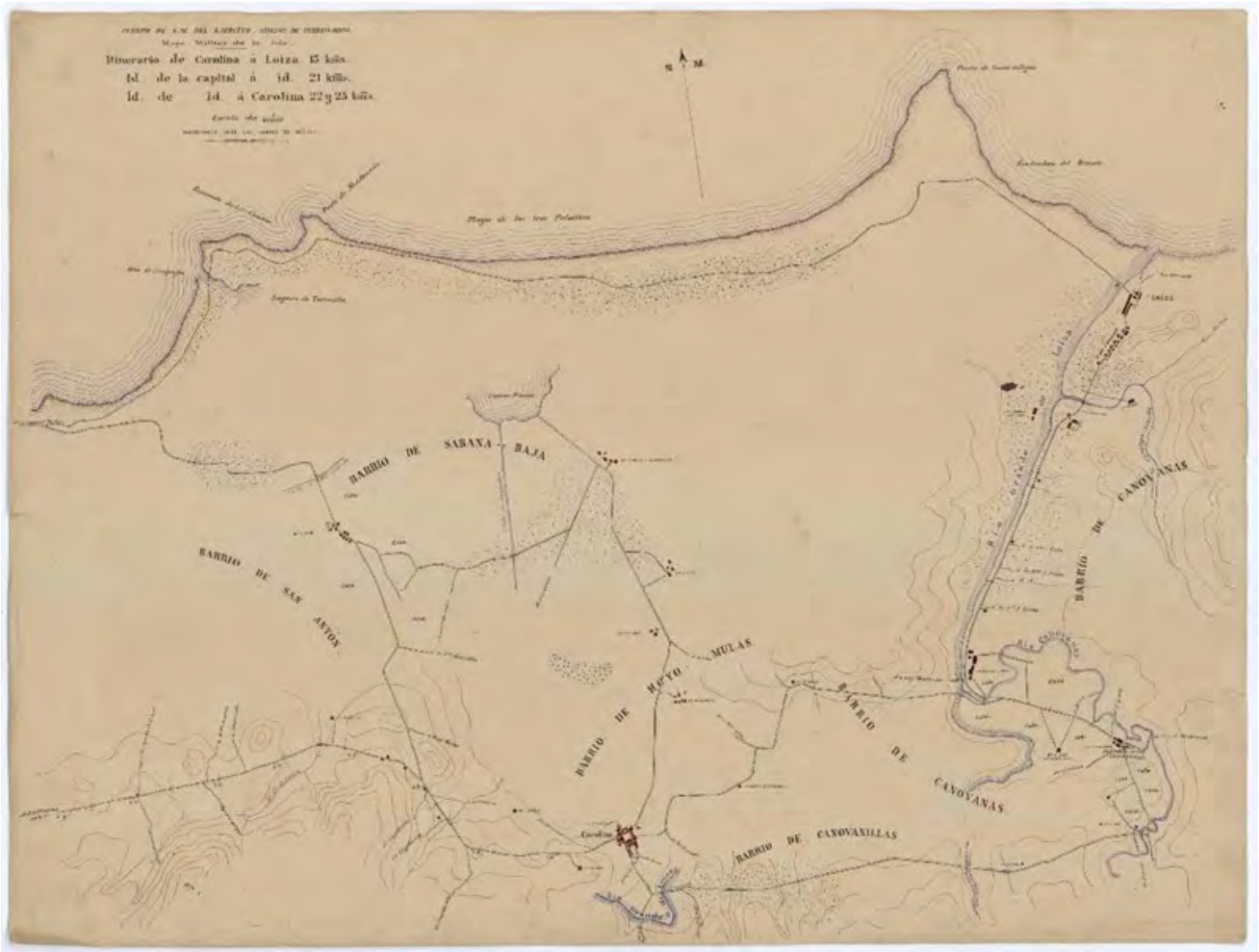
Canóvanas was a neighborhood of the municipality of Loíza for more than 400 years. The Traditional Urban Center of Canóvanas was built during the 19th century; according to historical cartography we find "El poblado de las Canóvanas" is graphically represented for the first time in the Itinerary Plan from Carolina to Loíza of 1888. Because of its links to sugar production, Canóvanas was, for four centuries, the most important territory of the old Loíza district. The first known Spanish settlement in that area was the Ingenio San Luis, located on the western bank of the Canóvanas River, this production unit was founded by accountant Luis Pérez de Lugo in 1550, and the remains of the Hacienda San Luis are located north of the TUC. The area did not undergo major changes until the 1780s when the sugarcane economy in Puerto Rico changed, and emigration brought foreign investors, who bought ponds from the region's sugarcane plantations. Later in the 19th century, there were seven sugar haciendas in Barrio de Canóvanas, all of them with European capital. Six owners controlled more than a thousand acres of land in the Canóvanas neighborhood. In these historical moments, Canóvanas was not the neighborhood with the highest concentration of population, but it was the one with the greatest number of haciendas and wealth, compared to the seat of the municipal government, which was supposed to be Loíza. From 1887 onward, the political and economic sectors related to sugar production began a movement to move the center of municipal power from Loíza to Canóvanas.

Canóvanas Traditional Urban Center

Through the study of historical cartography and aerial photographs we can better understand the development of the downtown area and its historical relationship to the city of the urban center area of Canóvanas and its historical relationship to the city. The cartographic information related to the development of the municipality of Loíza dates to the 16th century. The urban nucleus of Canóvanas was organized following the European orthogonal grid. The city reached about two blocks at the beginning of the 20th century. The domestic architecture made up most of the structures, and the development of residential blocks followed closely followed the growth of defensive and public facilities in a northwest to southeast direction to southeast.

XIX Century

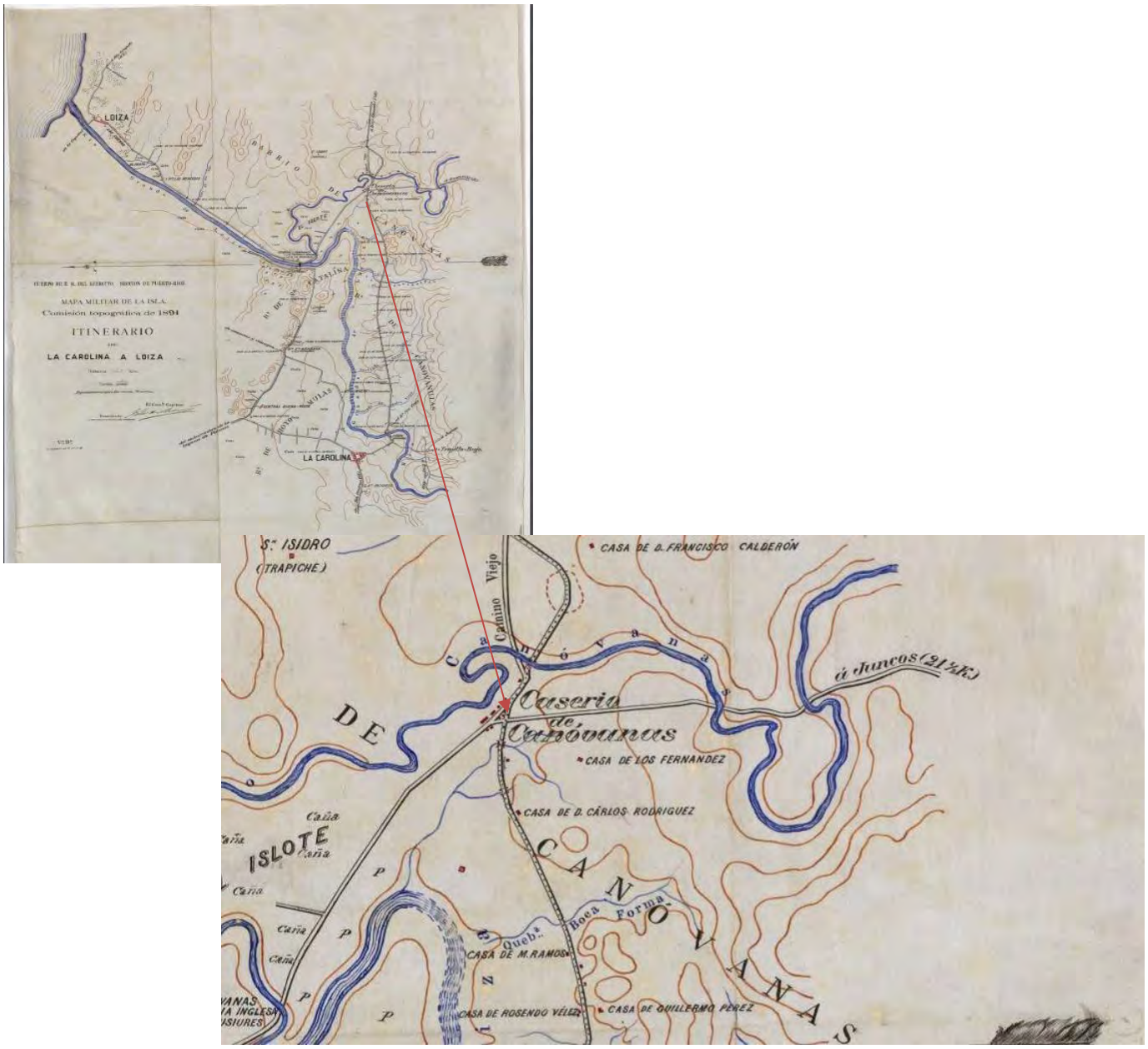
Figure 14: 1888 Itinerario de Carolina a Loíza Cuerpo de E.M. del Ejercito. Sección de Puerto Rico





This figure shows the present municipality as a town of Canóvanas in the 1888 Itinerary of the Spanish Army. The road that runs from Carolina to Rio Grande divides the town, which consists of seven buildings, three of them on the north side of the road and four on the south side. The town is surrounded to the north by the river of the same name and the remaining area by sugar cane fields.

Figure 15: Itinerary from Carolina to Loíza Army Corps of E.M. of the Army. Puerto Rico Section of the year 1891



In figure (15) from the 1891 Itinerary of the Spanish Army, Canóvanas, on the edge of the road that leads from Carolina to Juncos, is named Caserío de Canóvanas. It has a road that passes right in the middle of the hamlet called Camino Viejo (Old Road). During the first 400 years of Spanish colonization, Canóvanas was part of the Municipality of Loíza as a barrio. When examining the previous sketches made by the cartographers of the Spanish army, there are signs of sugar cane fields, farms, sugar mills, roads leading to Loíza, Carolina, Rio Grande and Juncos. There are signs of houses of residents in the extensive neighborhood. Several rivers and streams run through the area that once made up the neighborhood. These rivers are the Grande de Loíza and the Canóvanas. This particularity made the valley fertile. This contributed to the development of sugar mills and later haciendas in this part of the island. This in turn led to the neighborhood becoming a prosperous one, where settlers gathered, building what the sketches show as Poblados and/or Caserío in other towns, in the place that today we call the urban center of the municipality of Canóvanas.

XX Century

In 1900, the isolation of Loíza was notable, which is why most of the residents requested the transfer of the town's headquarters to Canóvanas. As a result, the municipality of Canóvanas was inaugurated in March 1910, although the municipality continued to belong to Loíza. Subsequently, on August 16, 1970, a referendum was held for the boundary between Canóvanas and Loíza, which was approved. Consequently, on January 8, 1973, Canóvanas was named as a legal municipality and no longer as a neighborhood of the municipality of Loíza. In the 20th . In 1902, the Puerto Rico Legislative Assembly passed a law for the consolidation of certain municipalities. As a result, both Canóvanas and Loíza were incorporated into the Municipality of Río Grande. However, in 1905 a new law repealed the previous law, returning Canóvanas to its previous status as a barrio of Loíza. In 1909 the administration of Loíza was transferred to the neighborhood of Canóvanas, which was more developed than Loíza. Also, the construction of PR-3 facilitated communication with Canóvanas. As a result of the cession, land was acquired to build an urban center including a new town hall and town square. It was not until a law was passed on June 30, 1969, that both municipalities were recognized as having "clearly different population centers recommending the establishment of two municipalities. The change was approved in 1970. Until 1969 the municipality of Canóvanas was a ward of Loíza Party, this municipality was isolated and considered of little importance, although this situation changed when communication

routes were opened. century Canóvanas has had great growth, both urban and economic, thanks to its proximity to San Juan.

Figure 16: The 1930 photograph shows the historic center of Canóvanas with its grid oriented to the northwest. The photo shows a total of 30 blocks. To the north of the plaza, PR 9959 (present day) runs east west and PR 185 runs south. The surrounding area is mostly free of trees. The municipal cemetery can be seen to the south of the town. Aerial photograph 1931 CUT development in Canóvanas. (ACT Photogrammetry

Office)

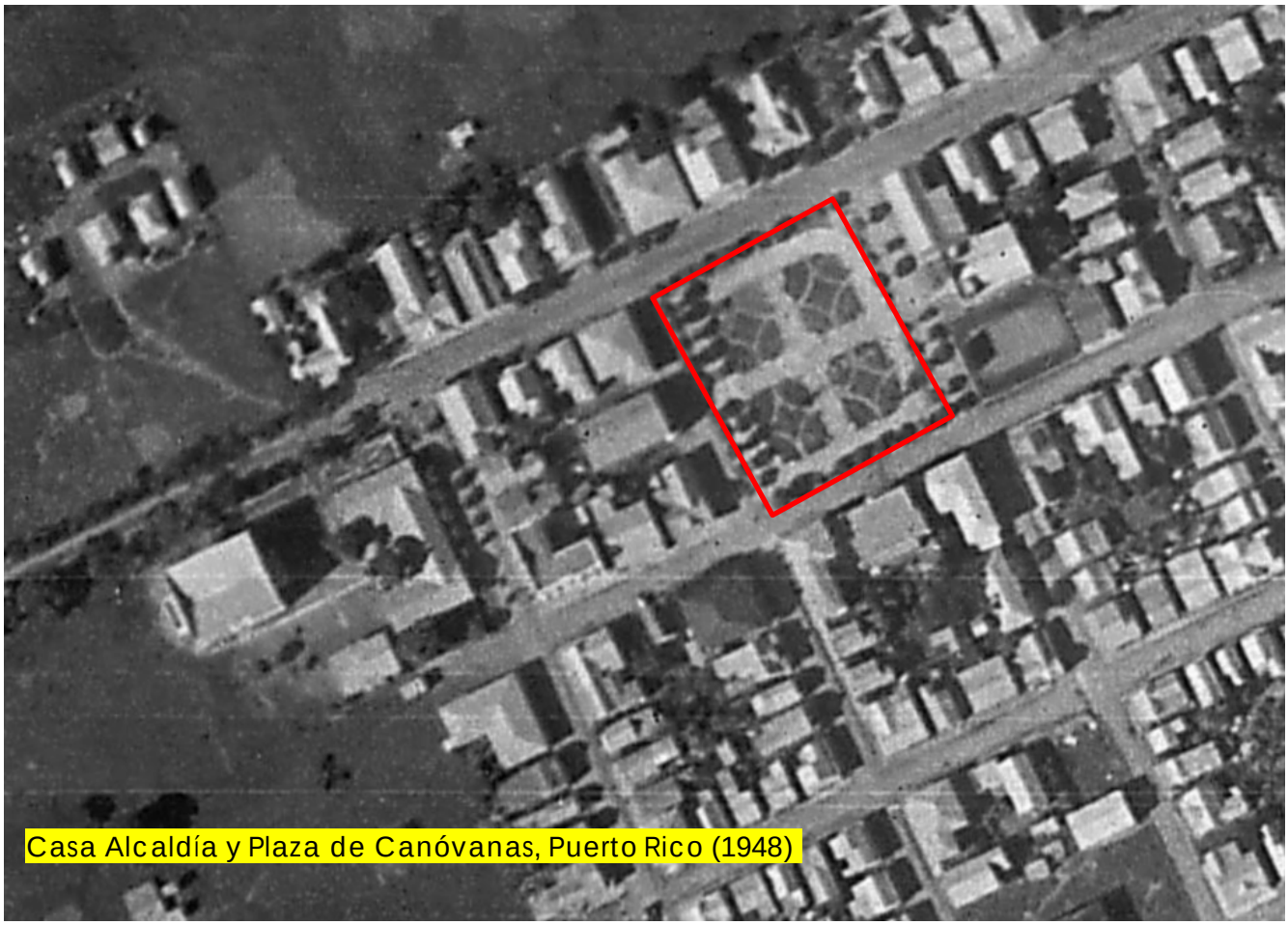


Figure 17: 1950 (ACT Photogrammetry Office) the displacement of the town of Canóvanas begins to be seen in the blocks north of PR 9959 (present day) and behind the Eugenio María De Hostos School.



Figure 18: Aerial photograph 1964 shows urban development beginning to expand in a north-east and south direction. Development to the west is limited. The town in the 1960s continues to expand to the north, east and south sides mostly, while to the west it is more limited. Highway #3 to Luquillo is present passing south of the new part of town, immediately south of the municipal cemetery.



Figure 19: Aerial photograph 1971, having become a municipality in 1970, Canóvanas begins its urban expansion. The figure presents an urban expansion where the original buildings of the historic center of 1930 have been doubled. There is new housing on the southeast and south side of town. To the south of highway 3, new large commercial buildings are beginning to be seen.



Figure 20: (ACT Photogrammetry Office): The 1990 aerial photograph of the municipality of Canóvanas shows a development completely south of Highway 3. In the photograph, the El Comandante Racetrack appears to be constructed, as well as other facilities.



Figure 21 : Aerial photography 2007, Google Earth pro

The development of the municipality has potentially expanded to the south and west of the urban center, developing different developing different communities of urbanizations.



Figure 22: Aerial photography 2006,-2023, Google Earth pro



Archaeological potential

No findings of settlements from pre-Hispanic periods have been detected in the vicinity of the study property. However, this lot has suffered several impacts from the 19th century to the present due to the various human occupations.

By the end of the 19th century, the "poblado" of Canóvanas already had a "caserío", a butcher shop, and a post office. The "poblado" continued to expand westward on 10 acres of land ceded by Mr. Carrión. This land was previously part of the Hacienda San José and private homes such as the Don Carlos Rodríguez House and the Fernández House. In 1900, Canóvanas already functioned as the administrative seat of Loíza, but it was not until 1909 that the Loíza administration officially moved to the Canóvanas neighborhood. In addition, the construction of PR-3 facilitated communication with Canóvanas. As a result of the move, land was acquired to build an urban center that included a new city hall and a main square. Because of this, the City Council acquired land to build the new City Hall, a slaughterhouse, a recreation plaza, a butcher shop, a cemetery and to delimit the streets of the area. The following year, the municipal offices, the justice of the peace court and the rest of the services provided by the municipality were moved. No construction plans or documents detailing the construction process of this new urban center have been found, so the exact year and process of design and construction of the Plaza Pública de Canóvanas is unknown. However, the oldest structures around the Plaza have a chronology ranging from 1900 to 1930. From the cartographic and documental information, it is deduced that the Plaza was in operation since 1900.

Based on this information, it is possible that under the terrain occupied by the Plaza Publica de Canóvanas, archeological remains can be found, related to the agricultural activities of the 19th century (sugar cane, rice and small fruits were planted) and foundations of structures associated with the Hacienda San José and private houses of the 19th century.

Table 1: There are eleven (11) cultural resources within a 0.25-mile radius of the project area that is 45 years or older, Six (6) Eligible to the to the NRHP.

#	Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
1	Juan F. Arroyo Public Square	n/a	n/a	Within	Within Public square was built circa 1900	Eligible
2	Casa Alcaldía	n/a	n/a	9 m/30 feet South	Neoclassical style building/1907-1910	Eligible
3	Alban doz esq. Blanco Sosa	CN-42	CN-42	170 m/557 feet	Southeast Creole wooden residence 1910	Elegible
4	Luis Hernaiz # 80	CN-44	CN-44	70 m/229 feet East	Creole bungaloo concrete 1930	Elegible
5	Luis Hernaiz 7	CN-45	CN-45	126 m/413 feet South	Creole bungaloo concrete 1930	Elegible
6	Blanco Sosa	CN-46		70 m/229 feet East	Creole bungaloo	Elegible

#	Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
					concrete 1930	
7	Muñoz Rivera esq. Blanco Sosa	CN-47		75 m/246 feet	Neoclassical style 1930	Elegible
8	Parque de Bombas	CN-49		61 m/200 feet Northeast	Art Deco 1940's	Elegible
9	Eugenio Maria de Hostos Public school	No data	CW020 0025	121 m/397 feet West	1925 PRERA Schools	Eligible
10	Andres Flores Lopez Public school	No data	CW020 0026	142 m/465 feet West 1925	1925 PRERA Schools Eligible	Eligible
11	Colegio Nuestra Señora	No data		32m/108 feet East	1964	Eligible

#	Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
	del Pilar					
12	55-67 Cll Pepita Albandoz,	No data	No data	157 m/515 feet Southwest	Streamline/Art Deco.	Elegible
13	Calle Autonomia	No data	No data	130 m /426 feet Southwest	Streamline/Art Deco.	Elegible
14	Ingenio San Luis	CW020 0006	CN-H5	353 m/0.21 m north	Sugar Mill XVII	Elegible

Table 2: There are two (2) archaeological studies within a 0.25-mile radius of the proposed project area, one (1) of them with positive results.

#	Author	Phase/Title	Year	SHPO / IPRC code	Results	Distance/Direction
1	Marisol Meléndez	IB/Escuela Intermedia Urbana Antonio R. Barceló	1994	CN-94-0107	Negative	213 m South
2	Meléndez Maíz, Marisol	Investigación Regional Recursos Culturales del Municipio de Canóvanas"	2002	BCAT-0163	Positive	Regional Survey

Identification of Historic Properties - Architecture

Existing information on previously identified historic properties adjacent to has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area is within the boundaries of the National Register of Historic Places (NRHP) eligible Canóvanas Traditional Urban Center.

The evaluation considers eligible historical properties that are within a 1/4-mile radius with emphasis on those in the visual APE. This consideration is in the best interest of identifying properties that will or can incur a direct effect.

Historic Properties within a ¼ mile radius:

1. Canóvanas Public Square built in the 19th century, eligible for criteria A, and located in 18.379064, -65.900909. This is the APE.

2. Canóvanas Town hall built circa 1920, the style is neoclassical, eligible for criteria A and C, and located in 18.378723, -65.90084. This is 11 meters south of the APE.

3. Municipal Cemetery: built circa 1930, and located in 18.375444, -65.900363. This is 347 meters south of the APE.

4. Nuestra Señora del Pilar Parish built circa 1970, the style is Postmodern, eligible for criteria C, and located in 18.379159, -65.900606. This is 14 meters east of the APE.

5. Colegio Nuestra Señora del Pilar built circa 1970, the style is Postmodern, eligible for criteria C, and located in 18.379133, -65.900548. This is 14 meters east of the APE.

6. Andrés Flores López School built circa 1940, style is Neo renaissance, eligible for criteria C, and located in 18.378564, -65.902364. This is 111 meters west of the APE.

7. Eugenio María de Hostos School built circa 1947, the style is Postmodern, eligible for Criteria c and located in 18.378737, -65.901927. This is 74 meters west of the APE.

8. Fire Station: built circa 1942-1955, the style is Art Deco, eligible for criteria C, and located in 18.379538, -65.901694. This is 69 meters north of the APE.

9. Seventh-day Adventist Church built circa 1970, the style is Postmodern, eligible for criteria C, and located in 18.379188, -65.899707. This is 97 meters east of the APE.

10. Jesús T. Piñero Residential built circa 1954, the style is Postmodern, eligible for criteria C, and located in 18.376732, -65.900078. This is 227 meters south of the APE.

11. A Commercial three-story building, Parcel ID: 089-076-010-01 was built circa 1970, eligible for criteria C, and located in 18.379394, -65.900713. This is 10 meters north of the APE.

12. A commercial two-story building, Parcel ID: 089-076-048-12 was built circa 1964, eligible for criteria C, and located in 18.3797027, -65.9009200. This is 22 meters north of the APE.

13. Farmacia Olivero was built circa 1960 eligible for criteria C, and located in 18.3788071, -65.901279. This is 10 meters west of the APE.

Historic properties visible from APE:

The APE has significant Architectural historical value therefore a detailed description of NRHP-eligible historic properties is presented to record the historical contributing elements to the traditional urban center and support the final determination for the proposed project.

- Canóvanas Public Square, Juan F. Arroyo Public Square is the APE.
- Canóvanas City Hall is 30 feet away from the APE.
- Canóvanas Fire Station: is 0.01 miles away from the APE.
- Colegio Nuestra Señora del Pilar school is 108 feet away from the APE.
- Nuestra Señora del Pilar Parish is 110 feet away from the APE.
- A commercial three-story building, Parcel ID: 089-076-010-01 is 0.01 miles away from the APE.
- Commercial two-story building, Parcel ID: 089-076-048-12 is 0.01 miles away from the APE.
- Farmacia Olivero is 0.01-miles feet away from the APE.

Canóvanas Public square Juan F. Arroyo

The Canóvanas Traditional Urban Center was built during the 19th century; according to 1946 historical cartography and aerial photographs, it can be deduced that the Canóvanas public square has undergone few changes in its original demarcation. In 1937, improvements were completed to the Public Square, without significant alterations to the original geometry. The changes have not been consistent with the perimeter setting therefore historical architectural value has been compromised however criteria consideration "Person" can be singled out by this property.

The main square of Canóvanas is surrounded by Muñoz Rivera Street to the south and bounded by PR- 9959 to the north. Luis Hernaíz Street to the east and Calderón Mújica Street to the west. The Plaza is rectangular in shape and the main shortest façade is facing to the south. The Plaza occupies a footprint of 2,913.5 m^2. The public square materiality is concrete construction and has concrete floor tiles installed. Centered in the public square, an octagon flooring concrete pattern is present, and a bronze statue remarks the center of the plaza. In addition, Planters at each corner of the public square are evident to enclose visually the perimeter.

The quality of significance, as defined by the NRHP, is present in buildings that possess integrity of location, design, setting, materials, workmanship, feeling, and association. This property fulfills three (3) of seven (7) criteria: Location, Setting, Feeling, and Association.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D Information Potential. This property fulfills one (1) of the four (4) criteria: A-Event

A-Event: The Canóvanas Plaza holds significant historical value as it functioned as the paramount gathering hubs for all civil events and communal activities during the formative stages of the municipality's cultural evolution. Throughout its history, the plaza served.

As a focal point for social gatherings, community celebrations, and important civic events, fostering a sense of unity and camaraderie among the residents of Canóvanas. Its central location and spacious layout made it the ideal venue for various cultural, political, and recreational activities, reflecting the municipality's vibrant social fabric and embodying its collective spirit. As such, the Canóvanas Plaza stands as a tangible symbol of the municipality's rich heritage and enduring legacy, exemplifying the integral role it has played in shaping the cultural identity and historical narrative of the community. As above mentioned, Juan F. Arroyo Public Square contributes to the Canóvanas Traditional

Urban Center since it conveys the following aspects of integrity: Location, Setting, Feeling, and Association. The Public Square represents a sense of feeling and association with the eligible district and is eligible under Criterion A.

Canóvanas Town Hall

Canóvanas was a barrio (district) of the municipality of Loíza for over 400 years. In 1902, the Legislative Assembly of Puerto Rico approved a law for the consolidation of certain municipalities. As a result, both Canóvanas and Loíza were incorporated into the municipality of Río Grande. However, in 1905 a new law revoked the previous one, returning Canóvanas to its previous state of barrio of Loíza. In 1909, the Municipal administration of Loíza was transferred to the barrio of Canóvanas, which was more developed than the Loíza region. Also, the construction of the PR-3 facilitated the communication with Canóvanas. As a result of the transfer, land was acquired to build an urban center including a new city hall, and town square. It was not until a law was passed on June 30, 1969, that both municipalities were recognized as having "clearly different population nuclei" recommending the establishment of two separate municipalities. The change was approved in 1970 by Governor Luis A. Ferré.

Canóvanas Town hall original structure was built in 1907 and rehabilitated in 1920, it's an eligible historical property. The City Hall has a rectangular-shaped floorplan, composed of two stories, and occupies a footprint of 298.19 m^2. The City Hall has simple geometric neoclassical forms composed of grand-scale volumes. The longest main façade is facing north, and the materiality is concrete construction with a flat roof. The main façade has a circular pediment centered on the façade, below a cornice and six concrete pilasters are equally distanced from centered on façade. The structure is divided by six pilaster bays in both stories and the main door to egress the city hall is centered on the lower-level main façade. This is arched opening with a double wood door installed. On the main story, symmetrically placed of the door, two arched window openings with horizontal wooden blinds are present at each side of the main façade. The upper level has six arched door openings with horizontal wooden blinds type. On this area, a concrete balcony extrudes from façade, and it's enclosed with ornamental metal railing. The sides and rear elevations are made of concrete and Miami aluminum windows are installed.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The Canóvanas City Hall fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-Information Potential. This property fulfills two (2) of the four (4) criteria: A-Event and C-Design & Construction

A-Event: The Canóvanas City Hall is associated with events that have made a significant contribution to the broad patterns of our history. The Canóvanas City Hal is locally significant under Criterion A, Politics/Government. The establishment of the municipality in 1970 represented the long overdue collective aspiration and efforts of the people of Canóvanas in having an official and purposedly built seat for their municipal government.

C-Design & Construction: The Canóvanas City Hall is associated with the eligible traditional Urban center and embodies distinctive architectonic characteristics and methods of construction. It is noticeable the work of a master possesses high artistic value as other architectural representations from the dated periods.

As above mentioned, the Canóvanas City Hall **contributes** to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and Association, and other Architectural features such as Neoclassical Architecture style, pediment, and pilasters. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore **eligible under Criterion A and C**.

<u>Canóvanas Fire Station</u>

The Canóvanas Fire Station was completed in 1940, one of the last of its kind to be built in the Island as part of a plan devised much earlier to endow each town with firefighting facilities. Predating the fire station's construction by almost a decade, said plan was implemented originally in response to the threat World War II represented to Puerto Rico at that time. Provision of firehouses at each settlement was pursued and endorsed as vital to military planning and "readiness". in fulfillment of these duties, prototypical station

models were developed and replicated along the ensuing decade in locations like Canóvanas, as part of a plan to build "a hundred fire stations".

The two-story building occupies a footprint of 143.38 m² and was built in reinforced concrete and it is Art Deco Style. The main façade is facing east and is symmetrical in composition. On this area to the left a modern expansion is evident and has a flush metal door with glass embedded and at each side of the door colonial case windows are present. On the main façade to the right, the garage opening at ground floor level framed what constituted the station's prime feature: currently this area is enclosed with concrete and three diamonds with translucent ornamental blocks are present high centered.

The upper level recedes. Centered on this area flush metal door is present to access the balcony area and is capped by a projecting concrete eave. The balcony area is enclosed with Double iron-grille railing. The straight arch entry with fillet corners is one of the few of the elements that recall the Art Deco style. The right and left façade has Miami aluminum windows installed centered on the upper level and has a horizontal eave topping the widows.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The Canóvanas Fire Station fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-Information Potential. This property fulfills two (2) of the four (4) criteria: A-Event and C-Design & Construction

A-Event: The Canóvanas City Hall is associated with events that have made a significant contribution to the broad patterns of our history. The Canóvanas Fire Station is locally significant under Criterion A, Politics/Government. The building incorporates all essential traits and features pursuant to earlier emblematic firehouses in Puerto Rico. This historic firehouse at Canóvanas is both product and witness of a moment in time when government and civic leaders contributed to safeguard democratic values, people, and public and private property.

C-Design & Construction: The Canóvanas Fire Station is associated with the eligible traditional Urban center and embodies distinctive architectonic characteristics and methods of construction from art deco style. It is noticeable the work of a master possesses high artistic value as other architectural representations from the dated periods.

As above mentioned, the Canóvanas Fire Station **contributes** to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and Association, and other Architectural features such as Art Deco style. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore **eligible under Criterion A and C.**

Colegio Nuestra Señora del Pilar

The rapid expansion of the Canóvanas traditional urban center in 1970 represented an architectural impact therefore the Nuestra Señora del Pilar school has noticeable features of that decade and is within the boundaries of a listed NRHP historic district and city plaza. According to historical USGS aerial imagery from 1964 the existing building was under construction. Therefore, for purposes of this analysis, an estimated construction date is 1964. The property parcel is 2375.66 square meters, and the building occupies a cornet lot, and the main façade is facing west.

The building is composed of multiple stories and occupies a footprint of 521.73 m^2. The school materiality is concrete construction with a flat overhang concrete roof structure. The main façade is divided into three segments. The street level has a concrete foundation half height and on top, rectangular ornamental blocks are installed to enclose this area. Centered on façade in the street level a two-leaf vertical grill gate is present to access the school. Centered on the upper level an extruding surface is present to accommodate flag poles and a vertical stair corridor is present on this area. Symmetrically placed, the main façade has two vertical sets of extruding concrete elements located in the window area, and inside Miami aluminum windows are installed. This feature is repetitive across three stories in the right and left side of the main façade. The upper eave in the main facade has COLEGIO NTRA. SRA. DEL PILAR lettering installed. The South façade is composed of the same material and is divided into three segments. The street level has a two-leaf metal door installed on its center and the architectural condition is the same as in the main façade. However, the second and third level, two rectangular horizontal extruding concrete elements are present at each bay.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The Colegio Nuestra Señora del Pilar fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-

Information Potential. This property fulfills one (1) of the four (4) criteria: C-Design & Construction.

C-Design & Construction: The Colegio Nuestra Señora del Pilar is associated with the eligible traditional Urban center and embodies distinctive architectonic characteristics and methods of construction of 1970 decade. It is noticeable the work of a master possesses high artistic value as other architectural representations from the dated periods.

As above mentioned, the Colegio Nuestra Señora del Pilar **contributes** to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and Association, and other Architectural features such as the concrete ornamental blocks and concrete vertical features. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore **eligible under Criterion C.**

Commercial three-story building, Parcel ID: 089-076-010-01

The development of the Canóvanas traditional urban center in 1970 represented an architectural impact therefore the building with the parcel ID 089-076-010-01 has noticeable features of that decade and is within the boundaries of a listed NRHP historic district and city plaza. According to historical USGS aerial imagery from 1964 the existing building was under construction and a bigger footprint is visible in 1971 aerial imagery. Therefore, for purposes of this analysis, an estimated construction date is 1970. The property occupies a footprint of 239.55 m^2, and the building is in a cornet lot, and the main façade is facing west. The building is composed of three commercial stories, its materiality is concrete construction and possess a flat overhang roof. The longest main façade, in the lower level, has ceramic tiles installed. To access the commercial building, three sets of two leaf glass doors with aluminum framing are present equally distanced and centered in the main façade. The second level of the main façade is enclosed with Miami aluminum windows across this area and centered a vertical volume extrudes into the third level. The vertical volume has a textured finish characteristic of the dated construction type and is used as a vertical circulation corridor with two Miami aluminum windows vertically centered. The third level is enclosed with jalousie glass awning windows across the main façade. On this area a vertical louver is present bordering the

third level on the east and north façade. The second and third level has extruding features that frames the architectural details on the side and main façade.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The Commercial three-story building fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-Information Potential. This property fulfills one (1) of the four (4) criteria: C-Design & Construction

C-Design & Construction: The Commercial three-story building is associated with the eligible traditional Urban center and embodies distinctive architectonic characteristics and methods of construction of 1970 decade. It is noticeable the work of a master possesses high artistic value as other architectural representations from the dated periods.

As above mentioned, the Commercial three-story building Parcel ID: 089-076-010-01 **contributes** to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and Association, and other Architectural features such as the concrete vertical louvers and wall textures. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore **eligible under Criterion C.**

Commercial two-story building, Parcel ID: 089-076-048-12

The commercial two-story building Parcel ID: 089-076-048-12 is within the boundaries of a listed NRHP historic district and city plaza. According to the 1964 GIS historical imagery a two story criollo building is present on the parcel but is smaller than the existing one. Therefore, for purposes of this analysis, an estimated construction date is 1970. The property occupies a footprint of 311.72 m^2.

The commercial two-story building is located northeast of the Canóvanas Public square and the main façade is facing south. The building is composed of two commercial stories, made of concrete construction with a flat overhang roof. The longest main façade, in

the lower level, centered to the right concrete vertical features frame the entrance of the commercial premises. This area is enclosed with vertical metal grill and has a two-leaf glass door with metal frame, centered to access this area. On the main façade to the left, a two-leaf metal door is centered and at each side a single leaf metal door with vertical metal grill attached can be used as access. In addition, on top of the doors, Miami aluminum windows are present with metal grill attached. The upper level of the main façade to the right has a balcony area with rectangular ornamental blocks stacked in the column area. In the back wall of this area, a glass panel sliding door is present to access the balcony. The left side of the upper level is enclosed with rectangular ornamental blocks characteristics of the dated construction period. The right, left and rear façade are made of concrete construction and Miami aluminum windows are present.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The commercial two-story building fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-Information Potential. This property fulfills one (1) of the four (4) criteria: C-Design & Construction

C-Design & Construction: The Commercial two-story building is associated with the eligible traditional Urban center and embodies distinctive architectonic characteristics and methods of construction of 1970 decade. It is noticeable the work of a master possesses high artistic value as other architectural representations from the dated periods.

As above mentioned, the Commercial two-story building Parcel ID: 089-076-048-12 **contributes** to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and Association, and other Architectural features such as the concrete ornamental blocks and concrete vertical features. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore **eligible under Criterion C.**

Andres Flores Lopez Public school

The school building was designed in the Mission Spanish Revival style and built circa 1925. Funding for the construction came from the Puerto Rico Reconstruction Administration, a New Deal agency. The school was designed by Puerto Rican State Architect Rafael Carmoega.

The Andres Flores Lopez School, located off PR-9959/Palmer St. is a rectangular, two stories, reinforced concrete building with Spanish roof tiles. The school was built in 1925 and occupies a footprint of 402.91 m^2. The neoclassical and Spanish Revival style present a unique and elaborated frontispiece in the front façade. The symmetrical composition of the entrance frontispiece is further emphasized at window groupings by highlighting the window at center, with a pediment crown. Centerer on the same façade in the lower level an arched opening is present with pilasters embedded at each side and a cornice surrounding the arch is evident. On top, Andres Flores Lopez lettering is engraved. Symmetrically placed, colonial metal case windows appear in sets of five at each side of the main façade along with a flat cornice centered in the right and left upper area. The main façade has adhered features such as bull eyes, squares, oval medallions, and trimming. The sides and rear elevation cornice wraps around the building's sides.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The Andres Flores Lopez School fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-Information Potential. This property fulfills one (1) of the four (4) criteria: C-Design & Construction.

C-Design & Construction: The Andres Flores Lopez School is a noteworthy example of the public effort to erect multiple schools in Puerto Rico during the early 20th century by repeating prototypical, building typologies throughout the Island.

As above mentioned, the Andres Flores Lopez School **contributes** to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and

Association, and other Architectural features such as the concrete ornamental blocks and concrete vertical features. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore **eligible under Criterion C.**

Eugenio Maria de Hostos school

The Eugenio Maria de Hostos school building was designed in the Art Deco style and built circa 1925. Funding for the construction came from the Puerto Rico Reconstruction Administration, a New Deal agency. It is a two-story U-shaped building made of concrete with a flat overhang roof structure. The building has an eave that crowns the building along the U-shaped area. The longest main façade is framed by two tower-like elements which provide a balance to the vertical rhythm of the central portion. The tower elements have a pediment that extrudes from the horizontal eave and across this area embedded lines are present to enhance Art Deco style. Centered in the lower level a concrete eave with beveled corners is present to cover the main access thru a two-leave flush wood door. The school has Miami aluminum windows across the building. The rear elevation has an inner patio and windows of the same type are installed.

The quality of significance, as defined by the NRHP, is present in buildings that possess the following aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The Eugenio Maria de Hostos School fulfills all seven aspects of integrity.

The type of significance, as defined by the NRHP, is evaluated on buildings in terms of the following criteria considerations: A-Event, B-Person, C-Design & Construction, D-Information Potential. This property fulfills one (1) of the four (4) criteria: C-Design & Construction.

C-Design & Construction: The Eugenio Maria de Hostos School is a noteworthy example of the public effort to erect multiple schools in Puerto Rico during the early 20th century by repeating prototypical, building typologies throughout the Island.

As above mentioned, the Eugenio Maria de Hostos School **contributes** to the Canóvanas Traditional Urban Center since it conveys the following aspects of integrity and criteria considerations: Location, Design, Setting, Materials, Workmanship, Feeling and Association, and other Architectural features such as the concrete ornamental blocks and concrete vertical features. The Property architecture conveys a sense of feeling and association with the eligible district and is therefore **eligible under Criterion C.**

Historic Evolution of the APE:

Canóvanas, a municipality in Puerto Rico, traces its roots back to its founding on November 30, 1909. It achieved official status as a municipality in 1970. Historically, agriculture served as the primary economic pillar for Canóvanas, leveraging its strategic location along the main road connecting Fajardo and San Juan (PR-3), which facilitated the development of various social and economic activities.

The area surrounding the proposed project has undergone significant transformation since the original construction of the plaza. Presently, the landscape is characterized by a mix of commercial and civic establishments. The perimeter of the area features buildings ranging from circa 1900 to 1970, showcasing the evolution of architectural styles and construction practices over time.

The historic evolution of the APE traces back to 1909 when the Municipal Administration of Loíza was relocated to Canóvanas, a more developed area than Loíza. This move was facilitated by the construction of the PR-3, which enhanced connectivity. In response to the transfer, land was acquired for essential infrastructure such as a new city hall, town square, slaughterhouse, and cemetery. Notably, a strategic 20-acre plot was purchased by Don Luis Hernaiz Veronne, a local farmer and townhall senator, strategically positioned to intercept traffic from the PR-3 and other nearby roads like the PR-185.

Formally declared a Municipality in 1970, Canóvanas thrived economically due to its reliance on agriculture, further bolstered by its strategic location along the historic route between Fajardo and San Juan (PR-3). This positioning acted as a catalyst for the development of various social and economic activities in the region.

Figure 23:



1931 - The aerial photograph depicts a plaza organized along approximate north-south and east-west axes, dividing it into four quadrants. Each quadrant features a central planter with pathways inside, surrounded by furniture. A row of trees lines the perimeter of the plaza. The plaza's design allows for various ways of encircling it.

Figures:24,25





In the 1950s, the central planters in the plaza were simplified, while the perimeter planters were retained, resulting in the removal of trees from these planters.

Over time, the area surrounding the proposed project has undergone significant transformations since the original plaza's construction. Today, it predominantly serves commercial and civic purposes, with structures dating back as early as the 1900s and as recent as 1970. However, the distinctive historical features that once defined the APE are no longer evident, reflecting the changing landscape and evolving needs of the community.

Determination

The project is situated within an NRHP-eligible Traditional Urban Center and when considering architectural and archeological elements both individually and together, their importance from a historical point of view is undeniable. As we know, the Canóvanas Public Square has been the center of commercial and civil activity since the 19th century and is an integral part of the identity and history of the municipality and the region.

In archaeological terms, given the past experiences with previous construction projects in traditional urban centers in Puerto Rico, it is known the sensitivity of these areas in terms of archaeological findings. For these reasons, the potential of finding previously unidentified archaeological resources with integrity within the project area is very high. It is important to emphasize that no archaeological investigations have been made in the Traditional Urban Center of Canóvanas. For this reason, it would be necessary to perform an Archaeological Supervision to identify the possible archaeological deposits or elements in the APE during the construction process. Based on this information, it is possible that under the terrain occupied by the Plaza Publica de Canóvanas, archeological remains can be found, related to the agricultural activities of the 19th century (sugar cane, rice and small fruits were planted) and foundations of structures associated with the Hacienda San José and private houses of the 19th century. In addition, it should be noted that the historical documentation mentions that the area occupied by the APE was easily flooded (that is why it was decided to plant rice), so we cannot rule out the possibility of archaeological sites under flood layers.

Possible archeological findings in the APE;

- Historic roads
- Aqueducts from the colonial era
- Irrigation channels
- Machinery and farming implements related to rice, sugar cane and small fruits planting.

The APE is within a traditional urban center, with potential archaeological remains underneath these features, like historic pavements and historic drainage systems. Also, during the reconstruction process there's a possibility to find cultural layers associated with demolition and reconstruction of structures due to disasters like fires, earthquakes, hurricanes etc. Is the possibility that the proposed project can exposed foundations of old buildings along the street if realignment of facades was performed. The

properties/streets that survive to the present are the most recent facade of the town, reminiscences of these properties. However, they give us an idea of the archaeological potential of the Plaza and its surroundings. They are vestiges of previous constructions, and under the floors of the plaza and its surrounding streets the potential for the presence of Spanish colonial archaeological sites is high. Given the few disturbances in the it is possible the existence of in situ nineteenth-century Euro-Spanish material remains on the APE.

The Eligible properties visible from the APE enrich the vibrant cultural milieu surrounding the proposed project site through its postmodern design elements that harmonize with contemporary architectural trends. Beyond merely enhancing the project's aesthetics, the eligible properties offer a valuable opportunity for meaningful interaction with the local community and serve as a platform for the preservation and celebration of the region's cultural heritage. Consequently, while the proposed project may not be directly affiliated with the eligible properties, its adjacency, and integration with such culturally significant landmarks contribute invaluable depth, fostering a dynamic and contextually rich environment conducive to the envisioned development.

In addressing the extended impact of the Visual or Indirect Areas of Potential Effect, it is essential to recognize that while the proposed project might not directly influence these areas, its construction phase carries the potential for changes in aesthetics and disruptions to local transit that transcend its immediate physical footprint. To effectively manage these repercussions, the coordination of access roads and staging areas becomes crucial in minimizing disturbances within the traditional urban center. Furthermore, the proposed design places a deliberate emphasis on the urban scale, ensuring seamless integration with the surrounding setting and maintaining harmony within the area's context.

Founded on the results of the historic property identification efforts, the Program has determined that the proposed project actions will not have an adverse effect on the historic properties that compose the Area of Potential Effect. The following historic properties have been identified within the APE. The proposed design will not enhance a false sense of history and historical responsible design strategies have been considered to produce a contribution of the 21st century to the Canovanas traditional urban center. The placement of the new construction and features considers the historical evolution of the APE as so not to modify or differ from what has been typical for this Area.

Direct Effect:

- The direct effect will be the construction of the proposed project.
    - ADA Compliance and Accessibility: The project will introduce ADA-compliant features, such as accessible stairs and ramps on all sides of the plaza, allowing universal access without significantly altering the existing landscape levels.
    - Surface Improvements: The surface area will be enhanced for increased permeability, with the installation of new concrete pavers over existing pavement. Minor leveling and repair of structural cracks will be performed.
    - Urban Reforestation: The removal of existing trees and shrubs will make way for new reforestation efforts. Excavation for tree planting will reach a maximum depth of 5 ft, with new soil backfilled to support tree growth and grass berm creation.
    - Minimal Ground Disturbance: Excavation will be limited to what is necessary for foundations, particularly for the installation of shade pavilions (3 ft deep trenches for footings) and minimal trenching for lighting circuits. Other features like benches, bollard lighting, and urban furniture will involve little to no additional excavation.
    - Structural Additions: New shade pavilions and trellises will be constructed without major disruption to the landscape. New concrete planters and a 1 ft below grade perimeter wall will be installed.
    - Demolition and Replacement: Removal of existing light posts, concrete slabs, and planters will make way for new installations, including lighting systems, benches, trash receptacles, and reconstructed sidewalks.
    - Stormwater Management: Green areas will act as retention systems, minimizing runoff and preventing overburdening of the current stormwater infrastructure.

Indirect effect:

- The Luis Hernáiz Veronne St., Palmer St., MuñozRivera St, and Calderón Mujica St. will incur an indirect effect during the construction of the proposed project that may include noise pollution, traffic disruptions, dust and air quality issues, and visual impact.

- The proposed project will have positive indirect effects on both the Eugenio María de Hostos School and the surrounding indirect APE, contributing to various aspects such as social, educational, and environmental benefits.

- Social Impact: The improved plaza will serve as a central gathering point for the community, fostering a stronger connection among residents. By enhancing the space with ADA-compliant access, reforestation, and new public facilities, the project will contribute to the community's sense of pride and belonging. The proximity to the Eugenio María de Hostos School may lead to increased use of the plaza for school and community events, becoming a focal point of local culture and heritage.
- Educational Impact: The proximity of the school to the renovated plaza offers the potential for it to serve as an outdoor educational space, where students can engage in learning activities that connect them to their local history and environment. The preservation of the plaza's historical features, alongside modern upgrades, will provide a tangible connection to the past, offering lessons in historical preservation, architectural styles, and cultural practices. Additionally, the reforestation and sustainability elements may offer a hands-on learning experience about urban ecology and environmental stewardship.
- Environmental Impact: The adaptive reuse of the plaza, through minimal excavation and integration of green areas for stormwater management, aligns with sustainable development principles. This reduces the environmental footprint by limiting new construction and instead enhancing existing structures. By promoting urban reforestation and permeability, the project will positively affect the surrounding environment, potentially offering benefits to the school's students through cleaner air, improved aesthetics, and a greener, more resilient urban space.

Indirect effects Specific to Eugenio María de Hostos School:

- Enhanced Accessibility and Use for School Activities: The ADA-compliant design and the addition of accessible ramps and pavilions ensure that students, staff, and visitors, including those with disabilities, will have easy access to the plaza. This will allow the school to utilize the space for educational outings, physical activities, or school events, further integrating the plaza into the school's community.
- Aesthetic and Functional Enhancement: The improvements to the plaza, such as shade pavilions, new lighting, and the removal of outdated structures, will create a more inviting environment for students and residents alike. The enhanced usability of the space will provide students with a nearby recreational area, encouraging outdoor engagement.

In summary, the indirect effects of the project on the Eugenio María de Hostos School and the broader APE will support community cohesion, educational opportunities, and sustainable urban development. The upgrades will transform the plaza into a multifunctional space that complements the school's educational mission while enriching the lives of residents.

Based on this, **a No Adverse Effect** determination is appropriate for this project if the following recommendations are followed; Archaeological Supervision to identify the possible archaeological deposits or elements in the APE during the construction process.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	
Subrecipient: Municipality of Canóvanas	
Case ID: PR-CRP-000312	**City:** Canóvanas
Project Name: Plaza Juan F. Arroyo Improvements	

Recommendation *(Please keep on same page as SHPO Staff Section)*

The Puerto Rico Department of Housing requests that the Puerto Rico SHPO concur that the following determination is appropriate for the undertaking (Choose One):

☐ No Historic Properties Affected
☒ **No Adverse Effect if the following recommendations are followed; Archaeological Supervision to identify the possible archaeological deposits or elements in the APE during the construction process.**
☐ Adverse Effect

This Section is to be Completed by SHPO Staff Only

The Puerto Rico State Historic Preservation Office has reviewed the above information and: ☐ **Concurs** with the information provided. ☐ **Does not concur** with the information provided.	
Comments:	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:

Case ID: Juan Francisco Arroyo Salamán Public Plaza.

Project Coordinates: 18.37913, -65.90094

Table of archaeological sites, historic properties and historic districts located within the project area or within a .25-mile radius.

Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
Juan F. Arroyo Public square	No data	No data	Within	Public square was built circa 1900	Eligible
Casa Alcaldía	No data	CN-40	9 m/30 feet South	Neoclassical style building/1907-1910	Eligible
CN-42 Albandoz esq. Blanco Sosa	No data	CN-42	170 m/557 feet Southeast	Wooden Creole house 1910	No data
CN-44 Luis Hernaiz 80	No data	CN-44	134 m/439 feet South	Creole wooden bungaloo 1930	No data
CN-45	No data	CN-45	126 m/413 feet South	Creole bungaloo concrete 1930	No data

Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
Luis Hernaiz 76					
CN-46 Blanco Sosa	No data	CN-46	70 m/229 feet East	Creole bungaloo concrete 1930	No data
CN-47 Muñoz Rivera esq. Blanca Sosa	No data	CN-47	75 m/246 feet East	Neoclassical style 1930	No data
CN-49 Parque de Bombas	No data	CN-49	61 m/200 feet Northeast	Art Deco style/40's	Eligible
Eugenio Maria de Hostos Public school	CW0200025	n/a	121 m/397 feet West	1925 PRERA Schools	Eligible
Andres Flores Lopez Public school	CW0200026	n/a	142 m/465 feet West	1925 PRERA Schools	Eligible

Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
Colegio Nuestra Señora del Pilar	No data	No data	32m/108 feet East	1964	Eligible
55-67 Cll Pepita Albandoz,	No data	No data	157 m/515 feet Southwest	Streamline and with Art Deco features	No data
Calle Autonomia	No data	No data	130 m /426 feet Southwest	Streamline and with Art Deco features	No data
Ingenio San Luis	CW0200006 Ingenio	No data	353 m/0.21 m North	Sugar Mill, XVII; CN-H5	No data

Table of cultural resources surveys conducted within the project area or within a .25-mile radius.

Author	Phase/Title	Year	SHPO / IPRC code	Results	Distance/ Direction
Marisol Meléndez	IB/Escuela Intermedia Urbana Antonio R. Barceló	1994	CN-94-0107	Negative	213 m South
Meléndez Maíz, Marisol	Investigación Regional Recursos Culturales del Municipio de Canóvanas"	2002	BCAT- 0163	Positive	Regional Survey

Figure 26: Project (Parcel) Location – Area of Potential Effect Map (Aerial)



Figure 27:Project (Parcel) Location - Aerial Map

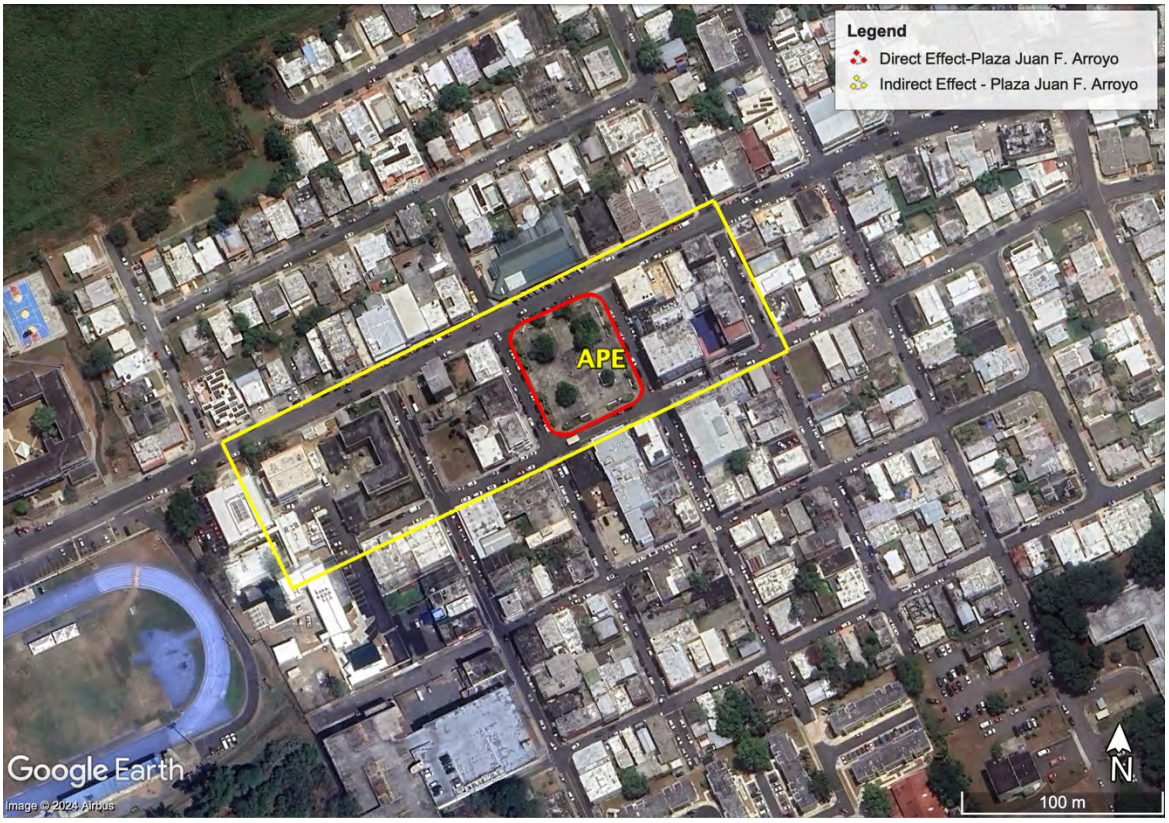
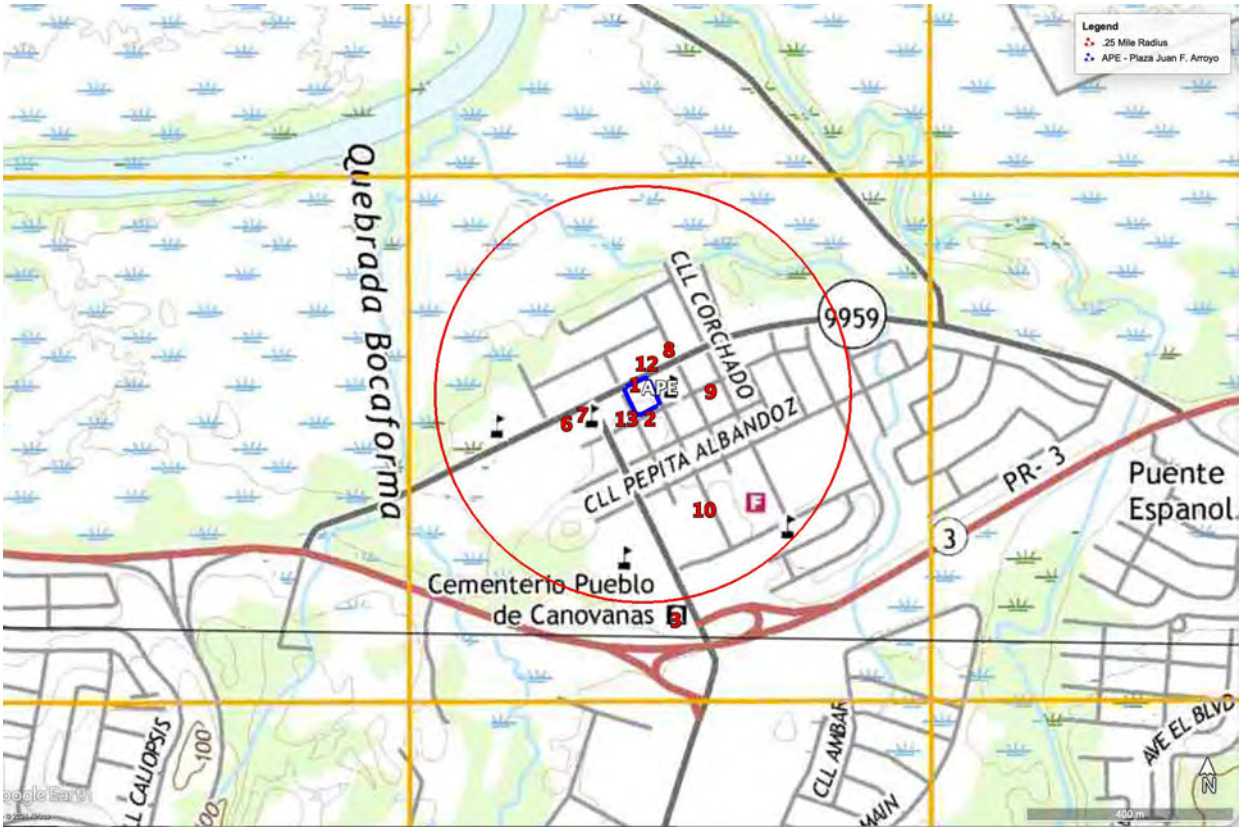


Figure 28:Project (Parcel) Location – 2018 USGS Topographic Map



Figure29:Project (Parcel) Location with Previously Recorded Cultural Resources



Historic Properties within a ¼ mile radius:

1. Canóvanas Public Square located in 18.379064, -65.900909
2. Canóvanas Town hall located in 18.378723, -65.900841
3. Municipal Cemetery located in 18.375444, -65.900363
4. Nuestra Señora del Pilar Parish located in 18.379159, -65.900606
5. Colegio Nuestra Señora del Pilar located in 18.379133, -65.900548
6. Andrés Flores López School located in 18.378564, -65.902364
7. Eugenio María de Hostos School built located in 18.378737, -65.901927
8. Fire Station located in 18.379538, -65.901694
9. Seventh-day Adventist Church located in 18.379188, -65.899707
10. Jesús T. Piñero Residential located in 18.376732, -65.900078
11. A Commercial three-story building located in 18.379394, -65.900713
12. A commercial two-story building located in 18.3797027, -65.9009200
13. Farmacia Olivero located in 18.3788071, -65.901279

Figure 30:Project (Parcel) Location with Previous Investigations - Aerial Map



Historic Properties within a ¼ mile radius:

1. Canóvanas Public Square located in 18.379064, -65.900909
2. Canóvanas Town hall located in 18.378723, -65.900841
3. Municipal Cemetery located in 18.375444, -65.900363
4. Nuestra Señora del Pilar Parish located in 18.379159, -65.900606
5. Colegio Nuestra Señora del Pilar located in 18.379133, -65.900548
6. Andrés Flores López School located in 18.378564, -65.902364
7. Eugenio María de Hostos School built located in 18.378737, -65.901927
8. Fire Station located in 18.379538, -65.901694
9. Seventh-day Adventist Church located in 18.379188, -65.899707
10. Jesús T. Piñero Residential located in 18.376732, -65.900078
11. A Commercial three-story building located in 18.379394, -65.900713
12. A commercial two-story building located in 18.3797027, -65.9009200
13. Farmacia Olivero located in 18.3788071, -65.901279

Figure 31: Project (Parcel) Location – Soils Map (Only if Archaeology Review is Required)



Figure 32:Project (Parcel) Location within Eligible Canóvanas Traditional Urban Center



Figure 33:Project (Parcel) Location with Location with Previously Recorded Cultural Resources - Aerial Map



Puerto Rico 2017 Disaster Recovery, CDBG-DR Program **City Revitalization Program (City-Rev)** **Section 106 NHPA Effect Determination**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Canóvanas	
Case ID: PR-CRP-000312	**City:** Canóvanas
Project Name: Plaza Juan F. Arroyo Improvements	

Figure 34:Project (Parcel) Location with Previously Recorded Cultural Resources USGS Figure Topographic Map

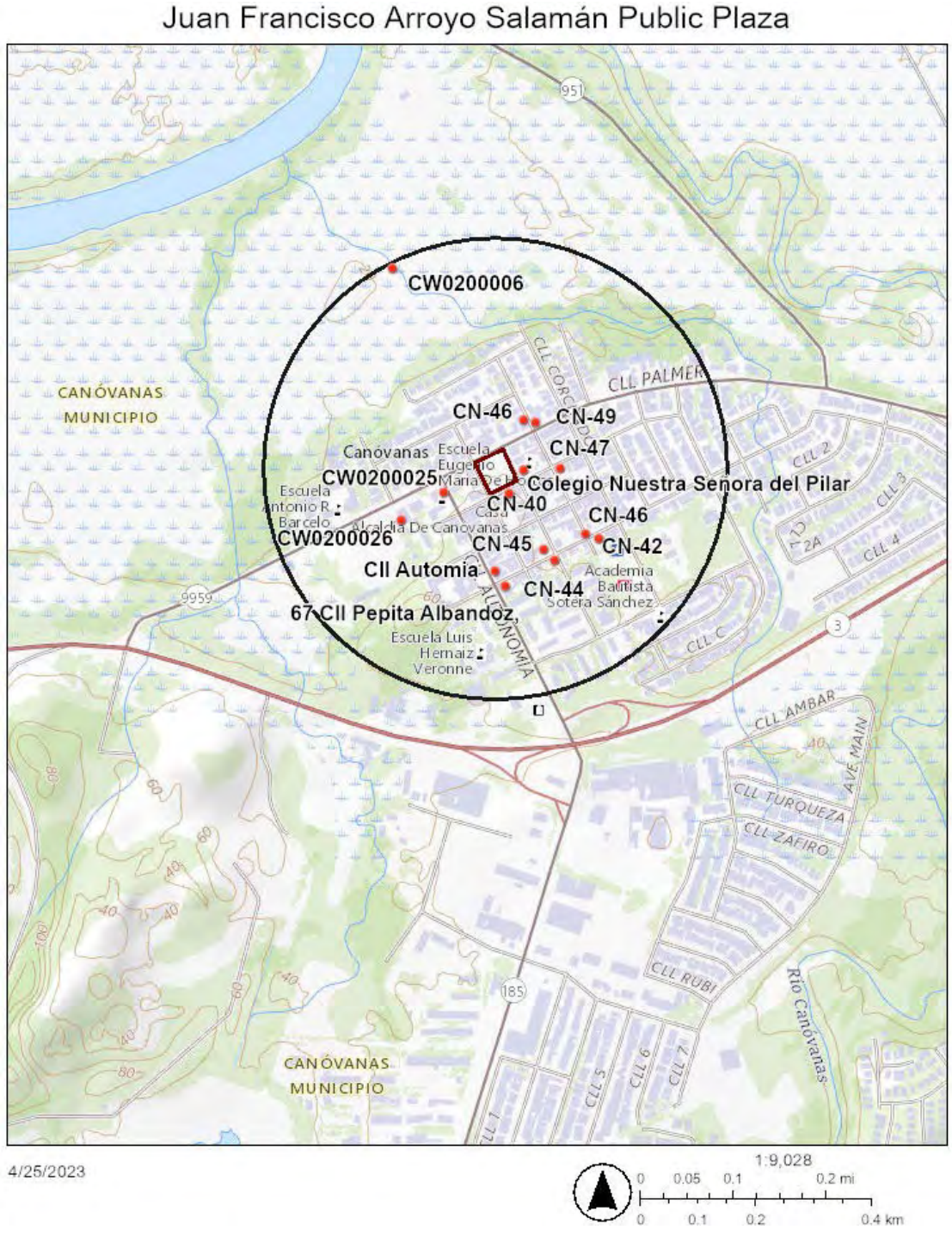


Figure 35:Project (Parcel) Location with National Flood Hazard Map

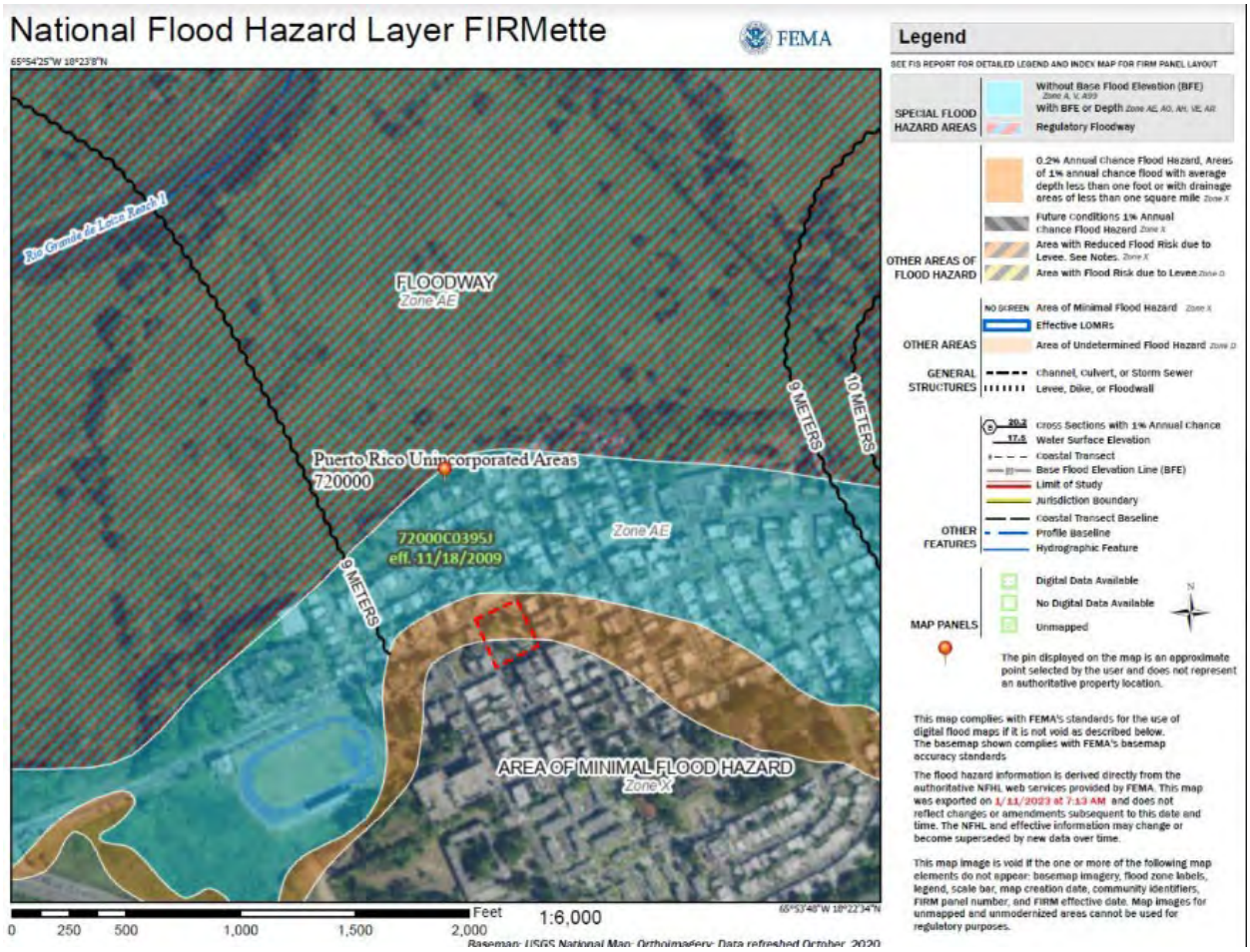


Figure 36:Project (Parcel) Location with Direct and Indirect Effect

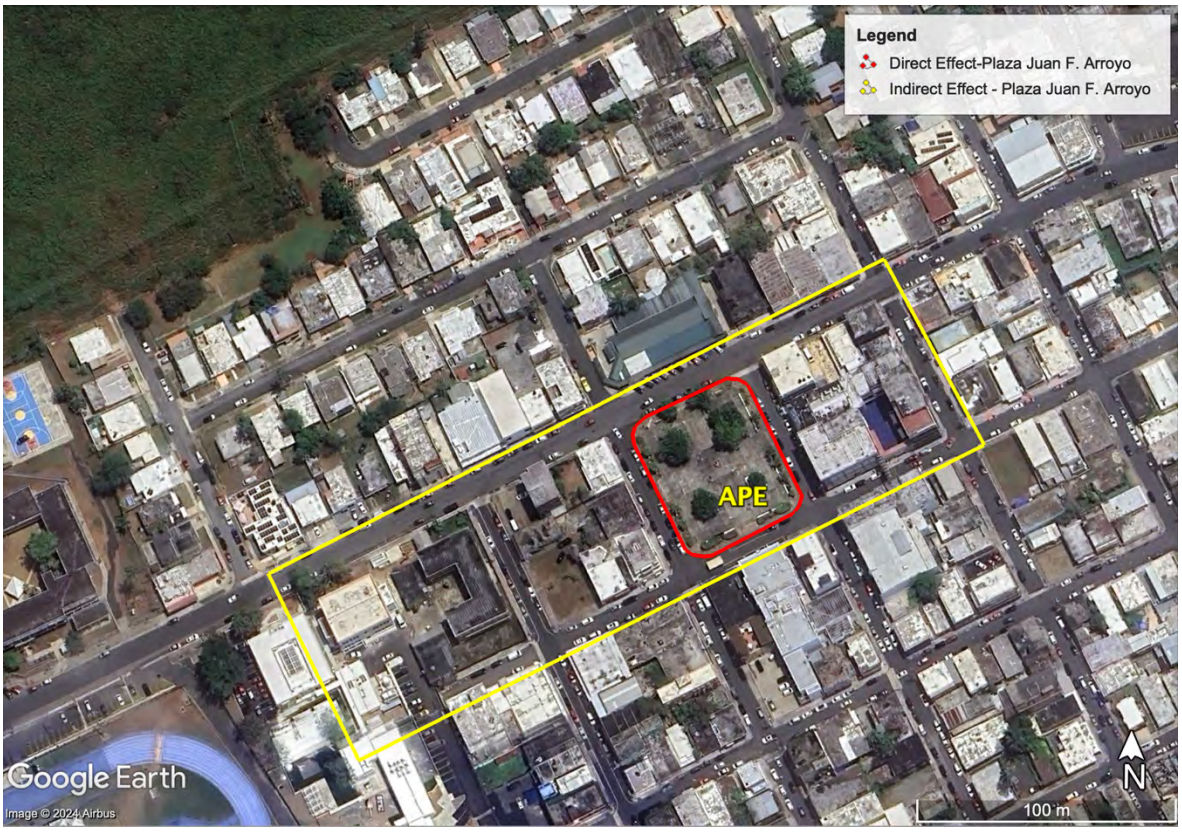


Figure 37:Proposed Site Plan

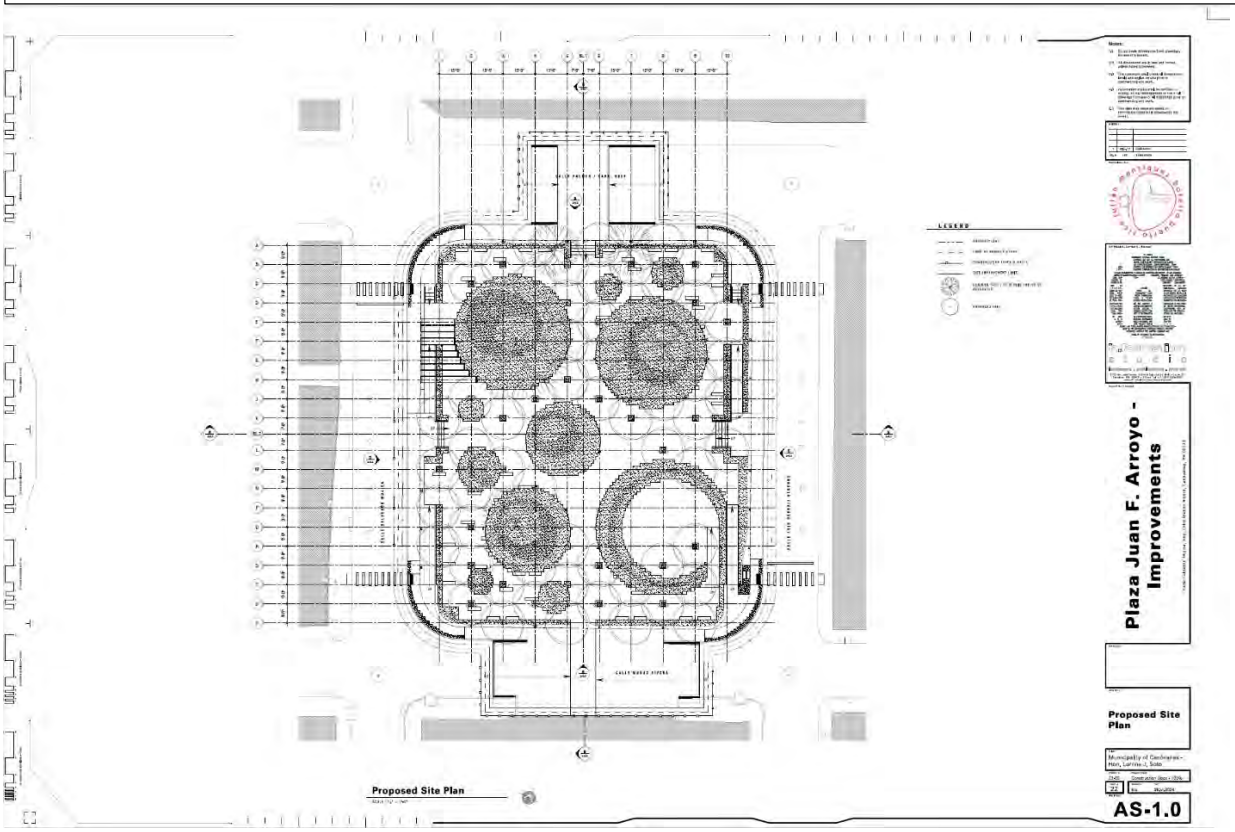


Figure 38: Architectural Floor Plan

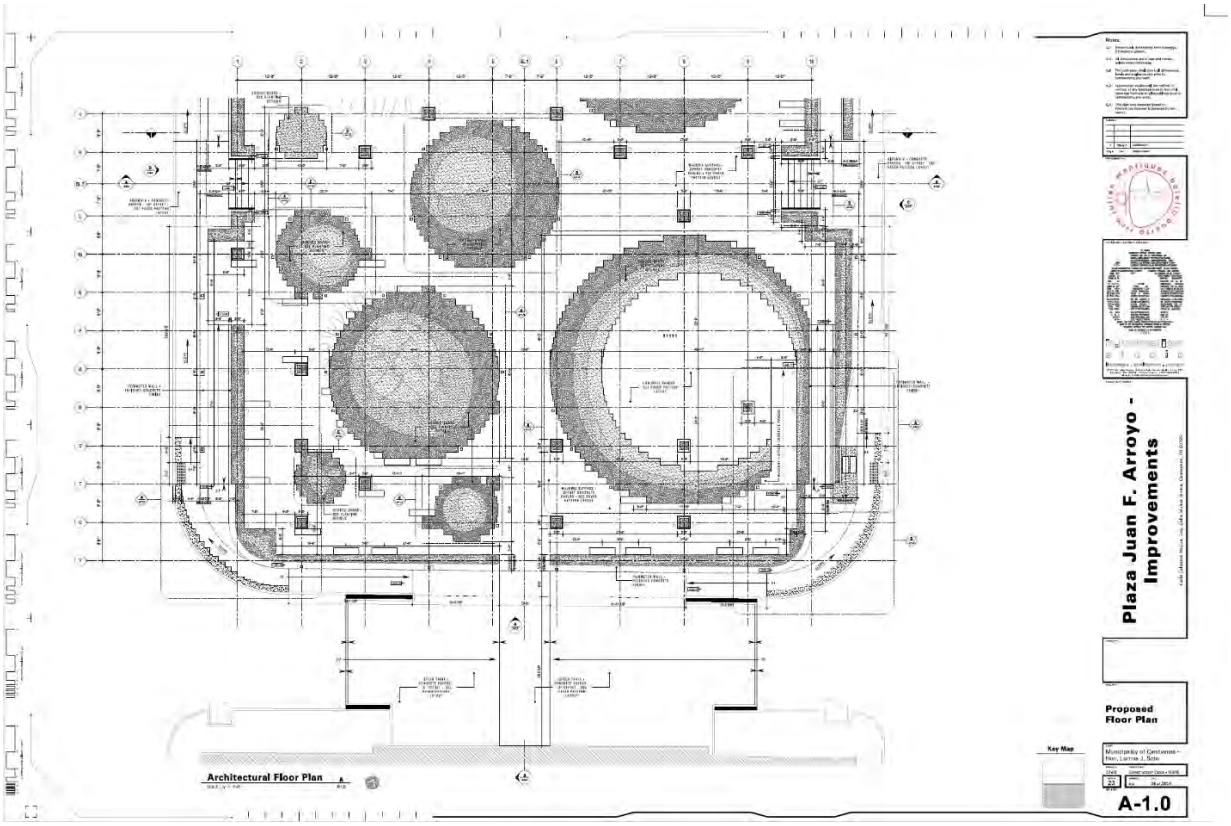


Figure 39:Architectural Floor Plan

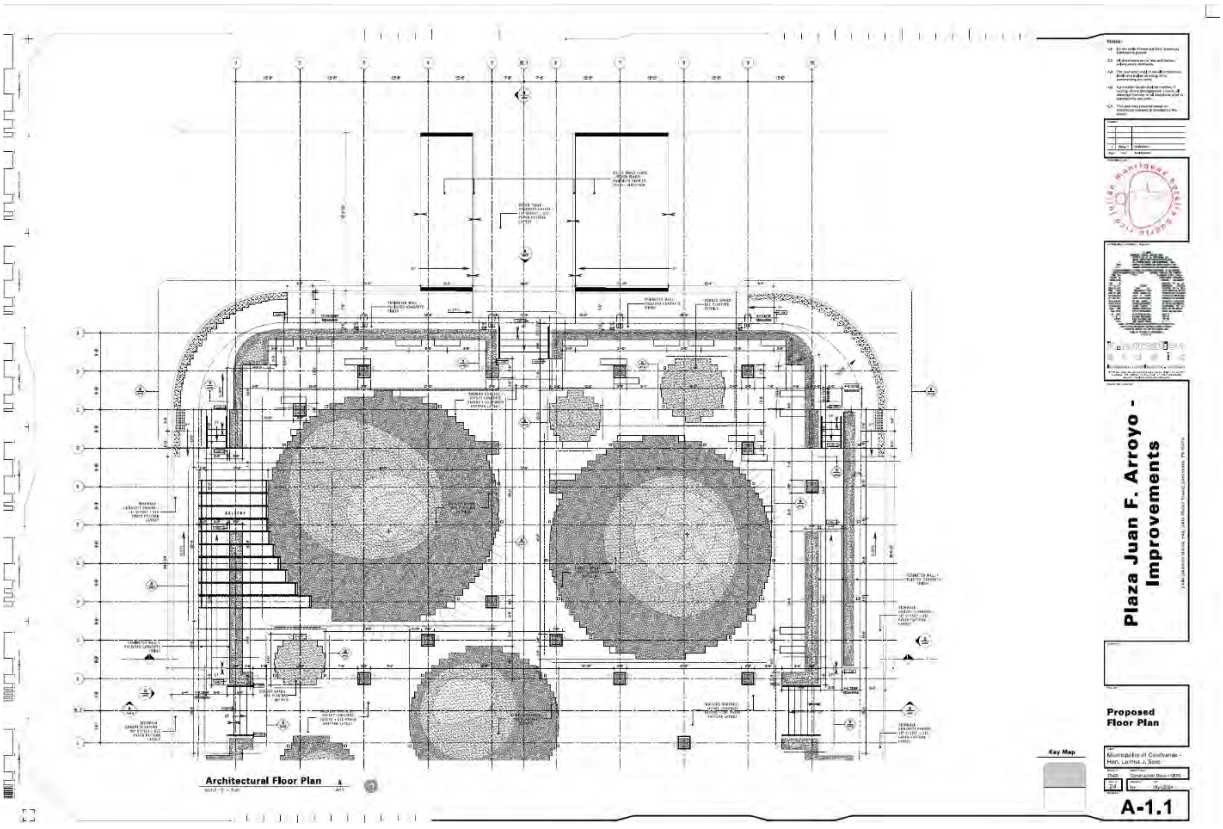


Figure 40:Elevations

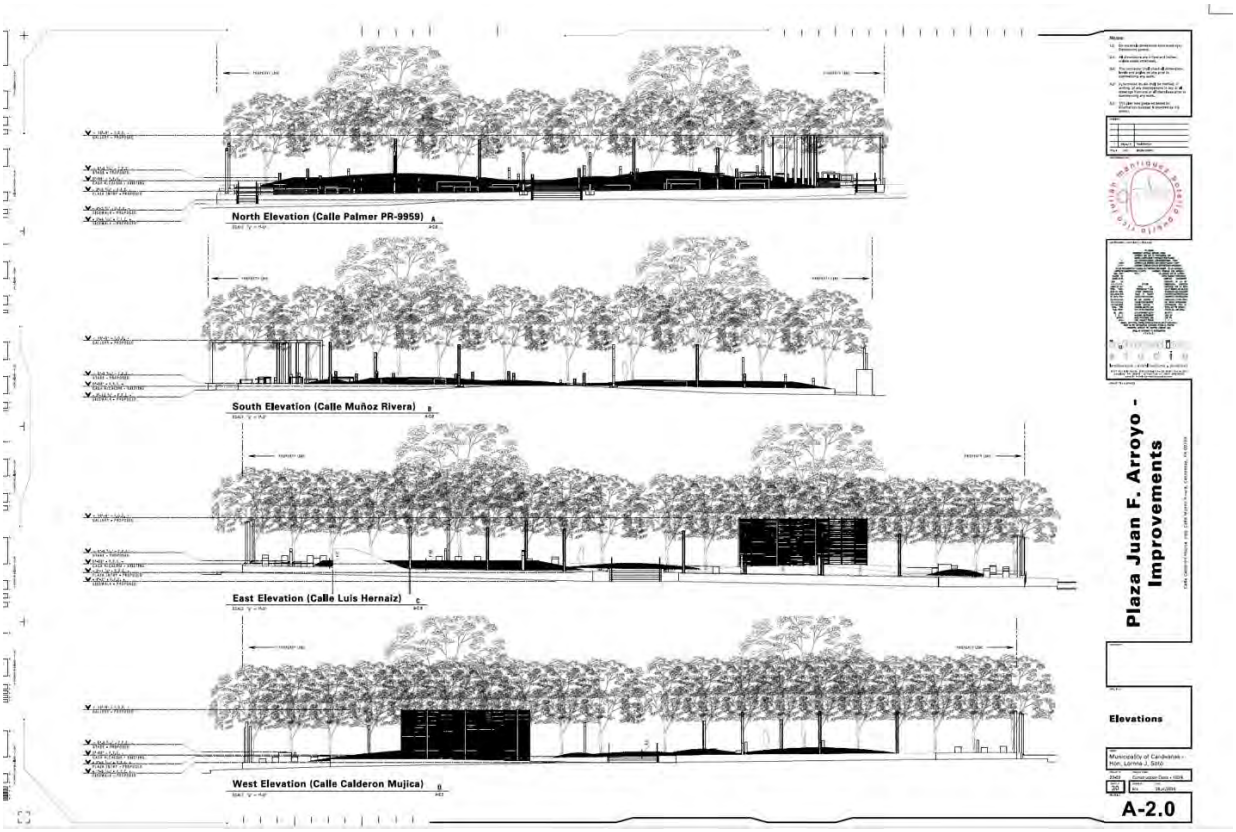


Figure 41:Sections

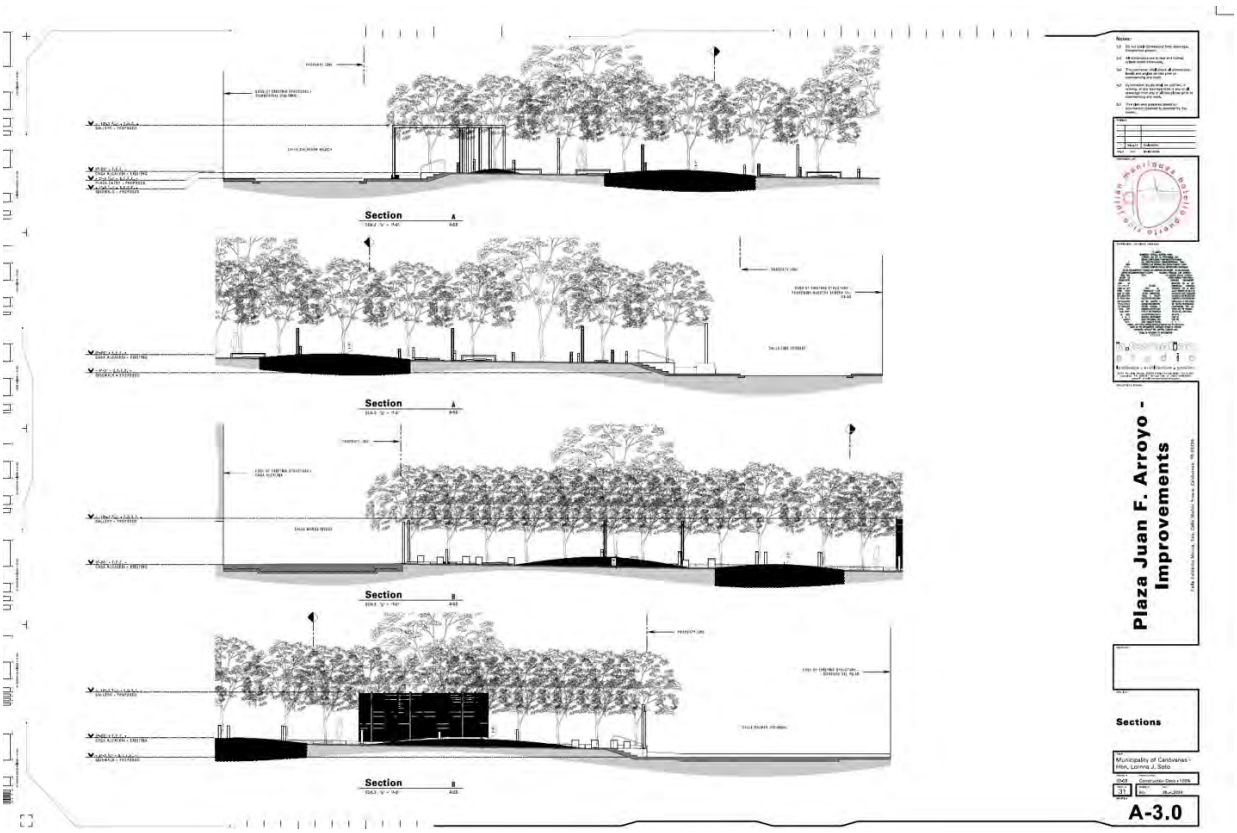


Figure 42: Stairs Plans and Details

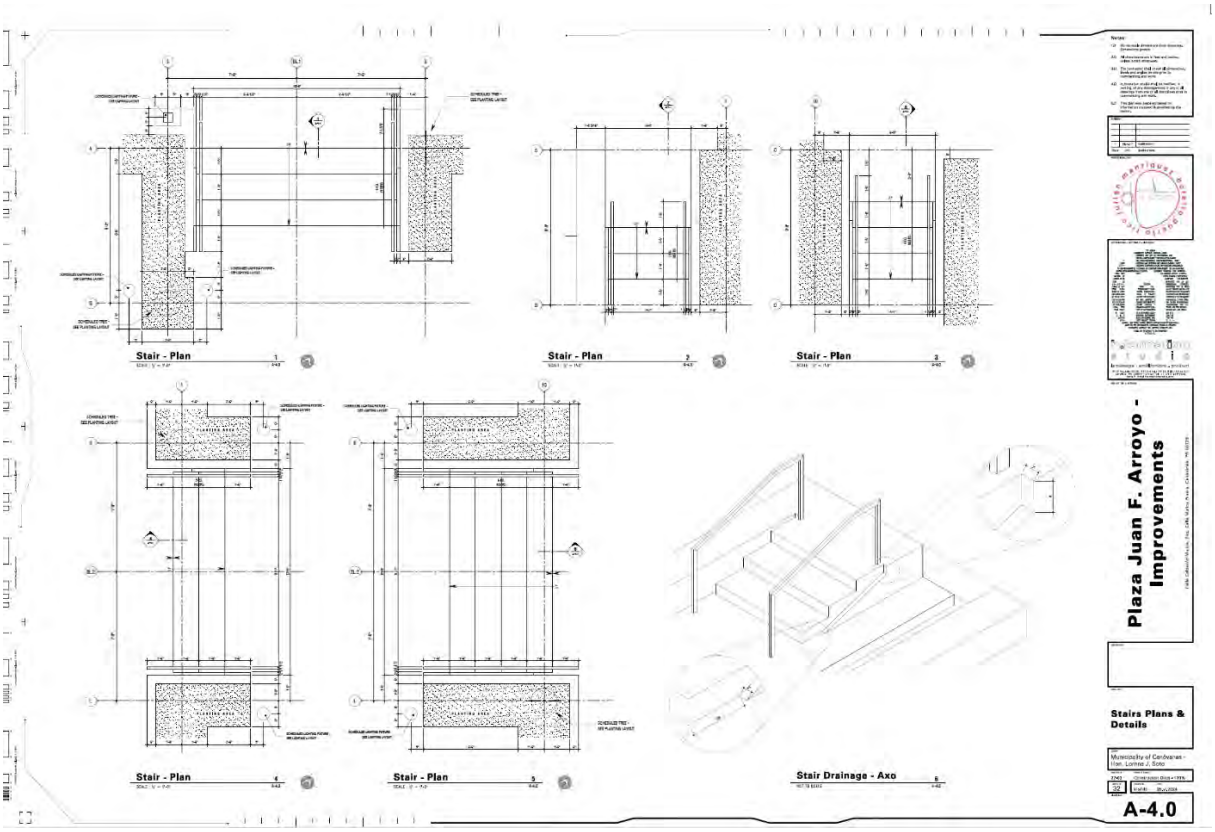


Figure 43: Stair Details

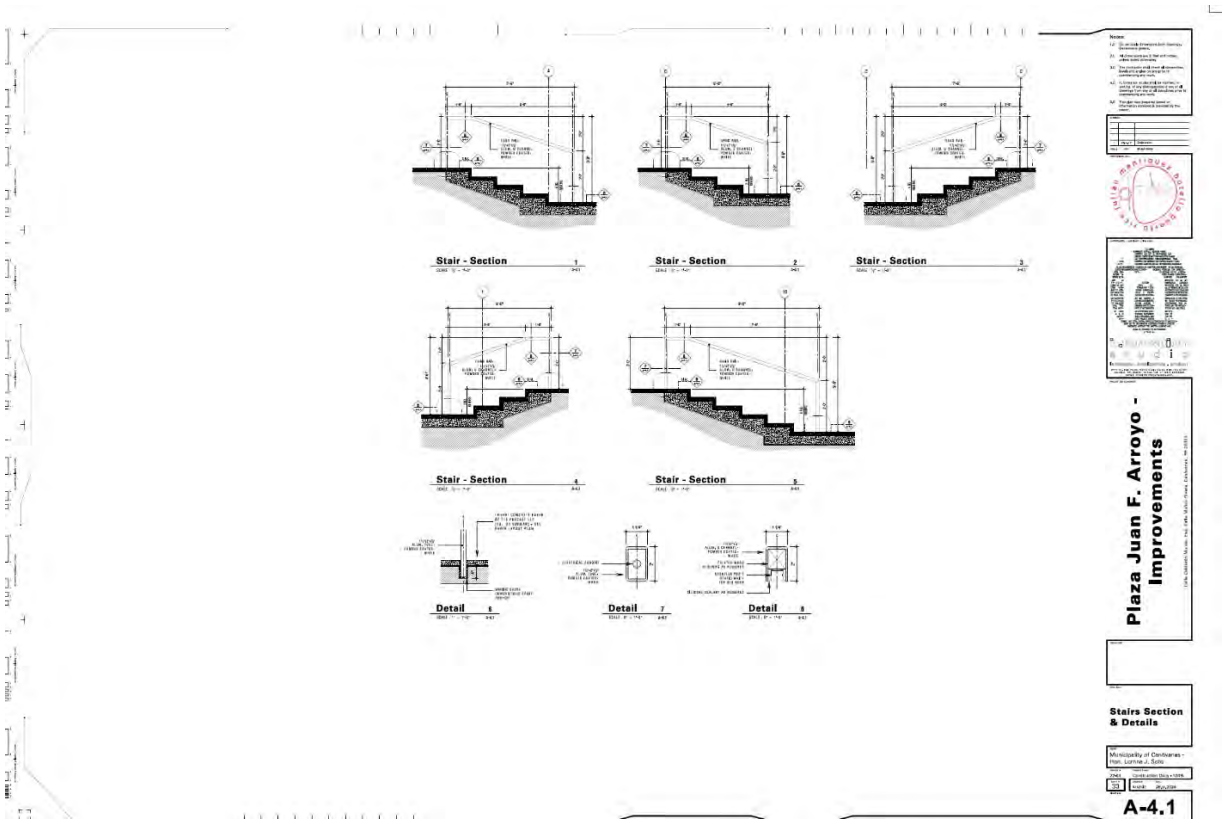


Figure 44: Gallery Layout Plan

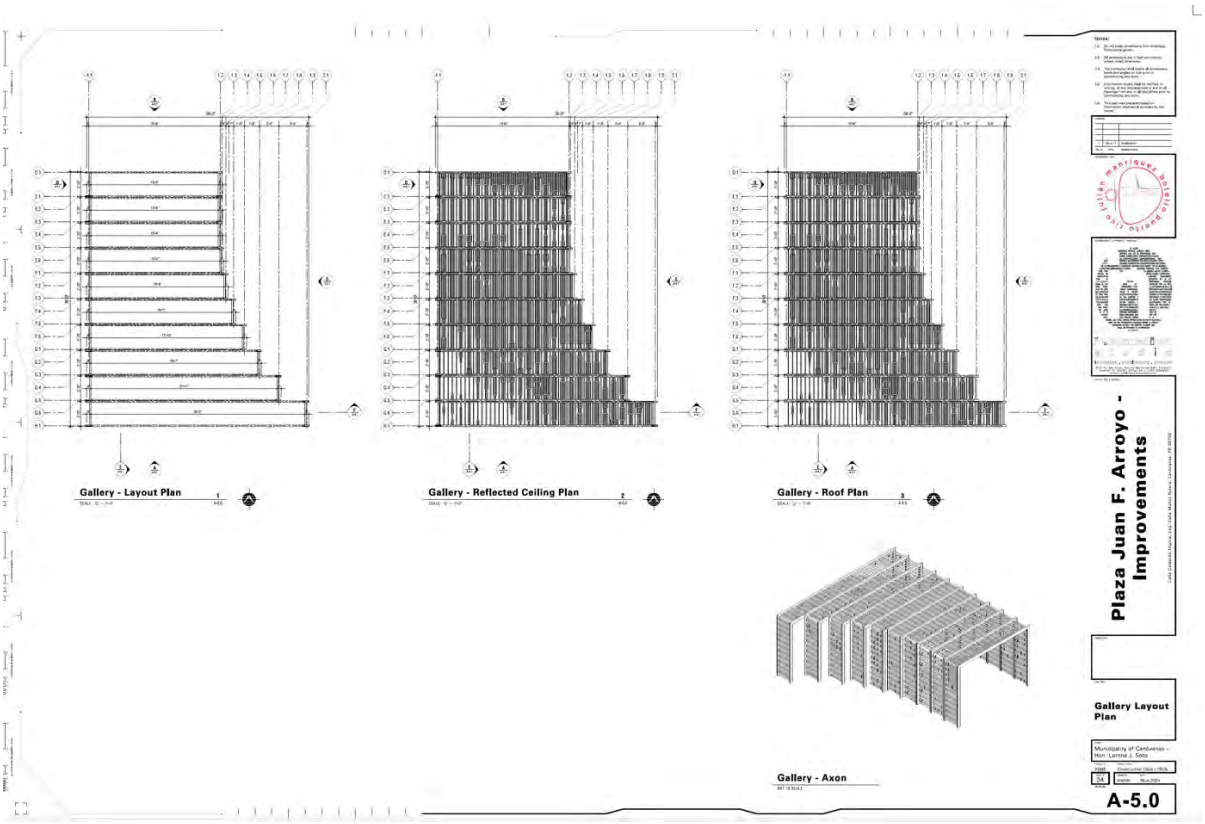


Figure 45:Gallery Elevations and Sections

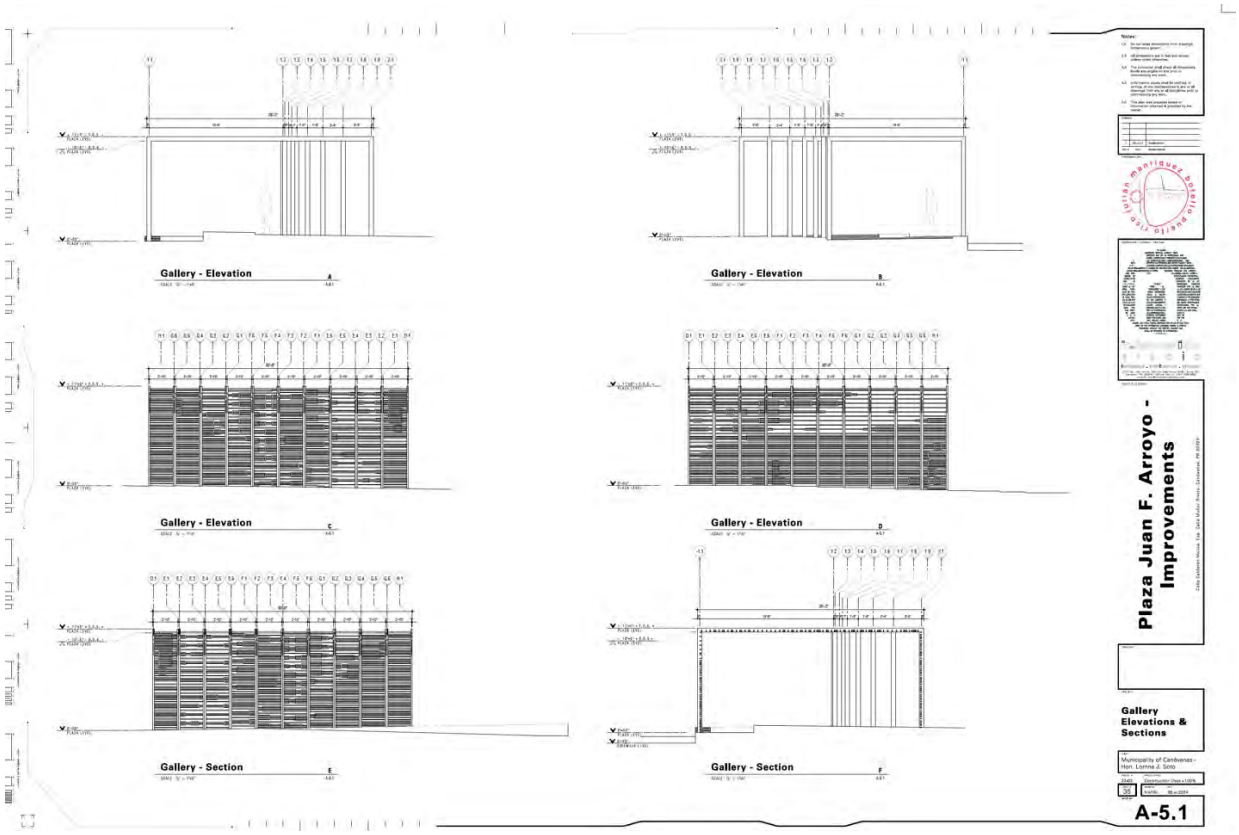


Figure 46:Gallery Unfolded Layout plan

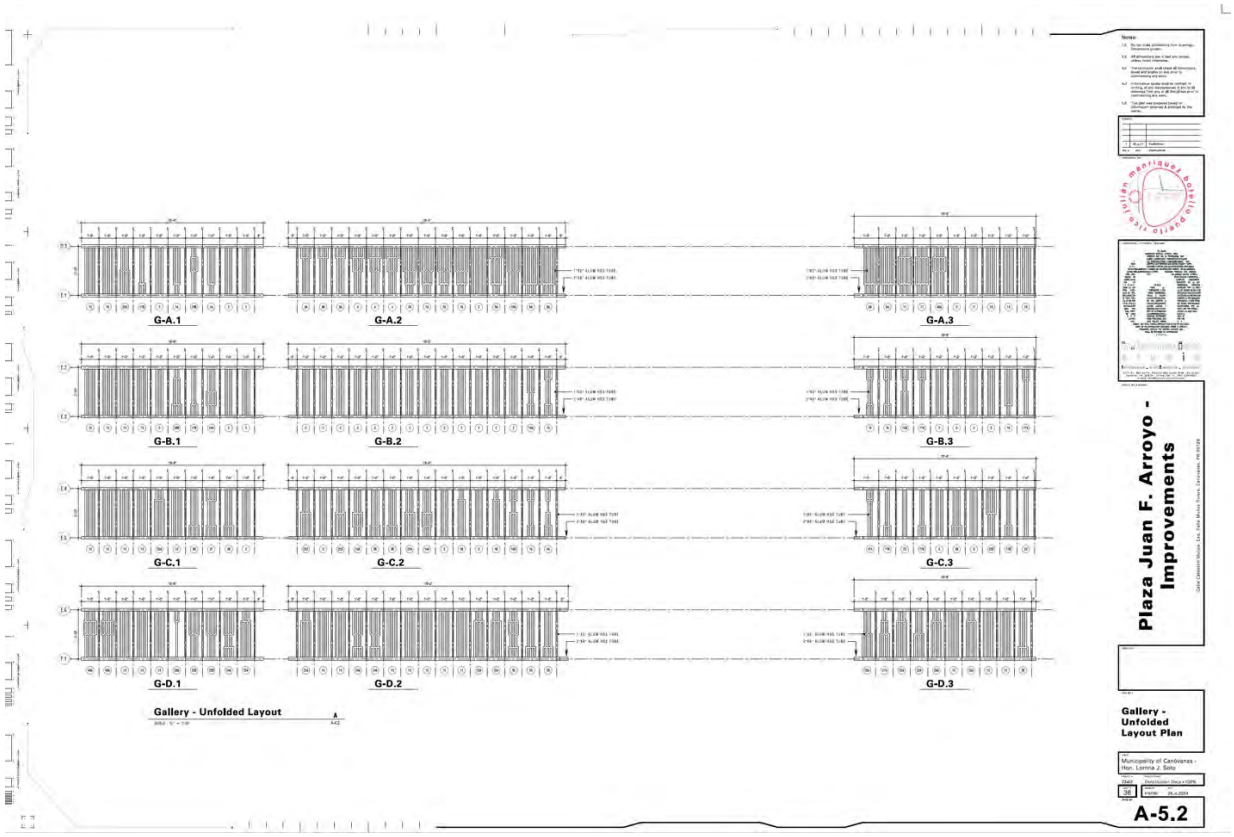


Figure 47:Gallery Unfolded Layout Plan

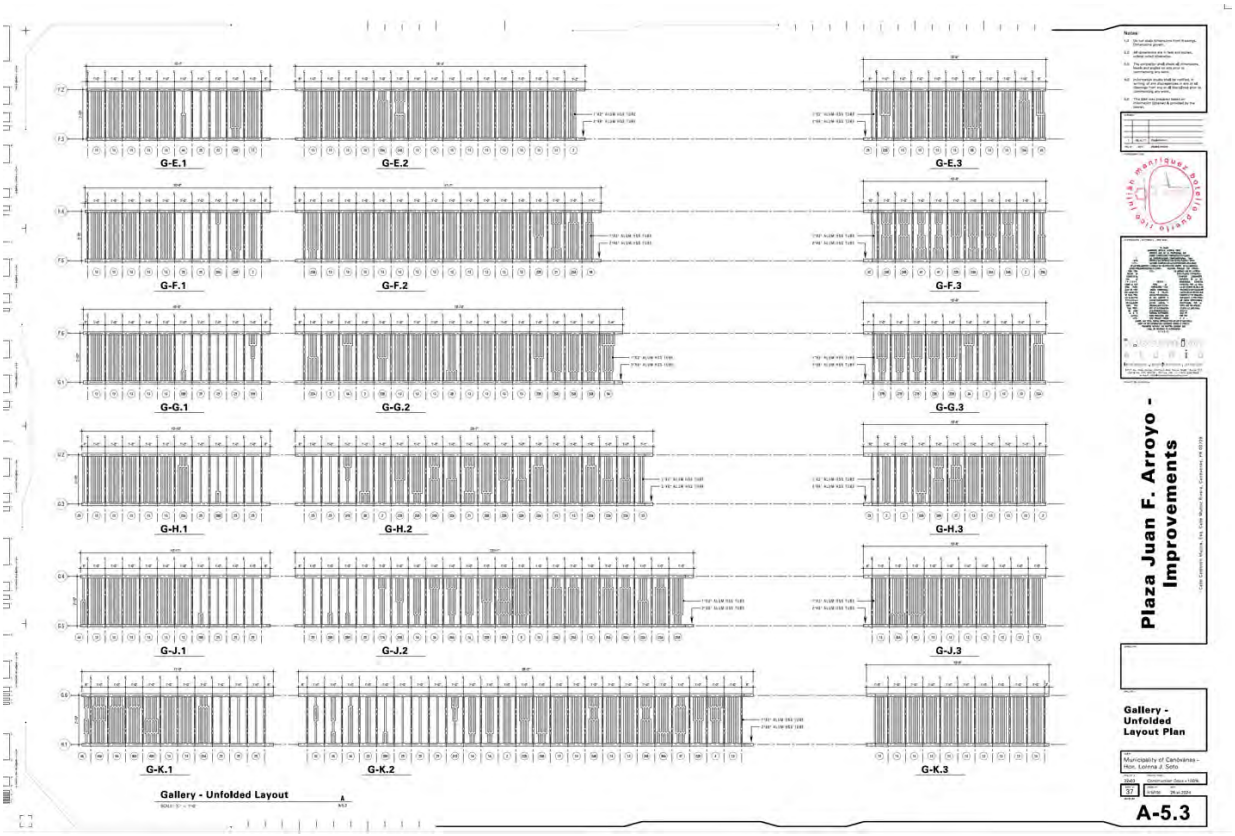


Figure 48:Gallery Unfolded Layout Plan

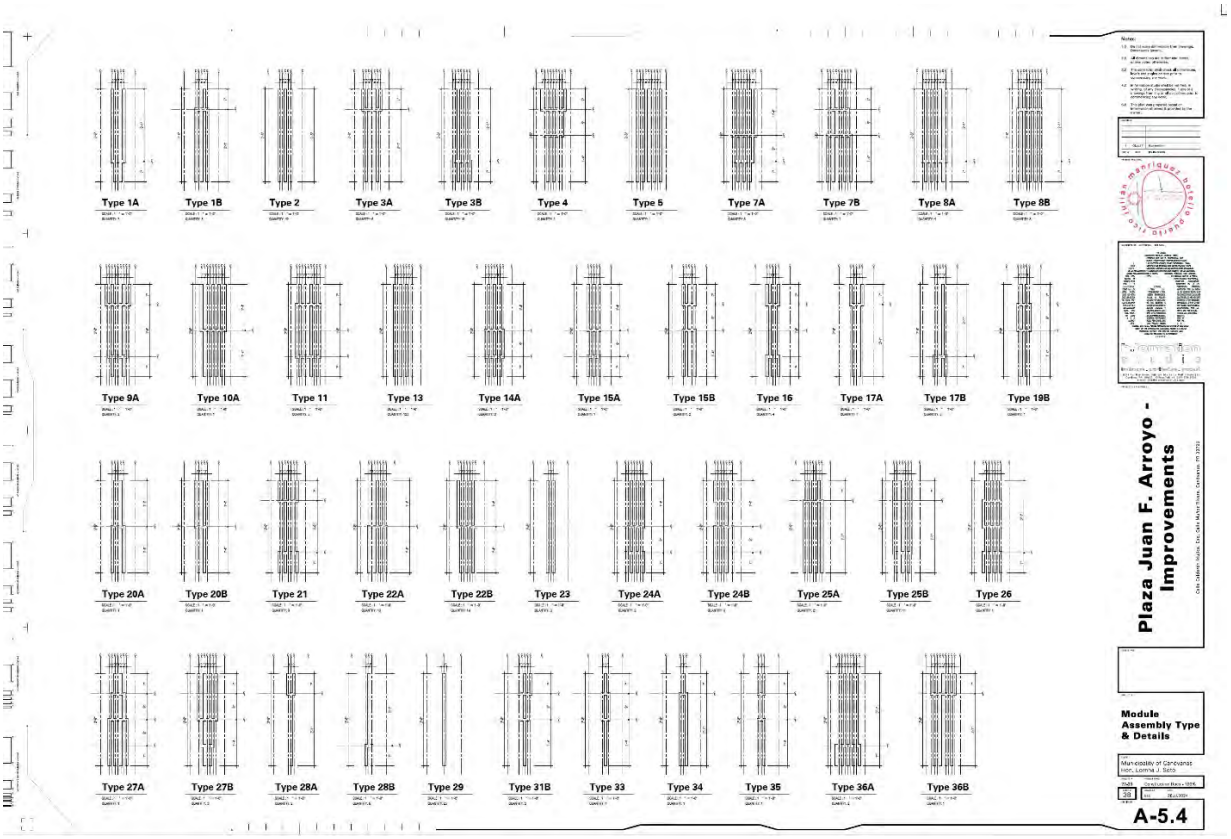


Figure 49: Module Assembly Type and Details

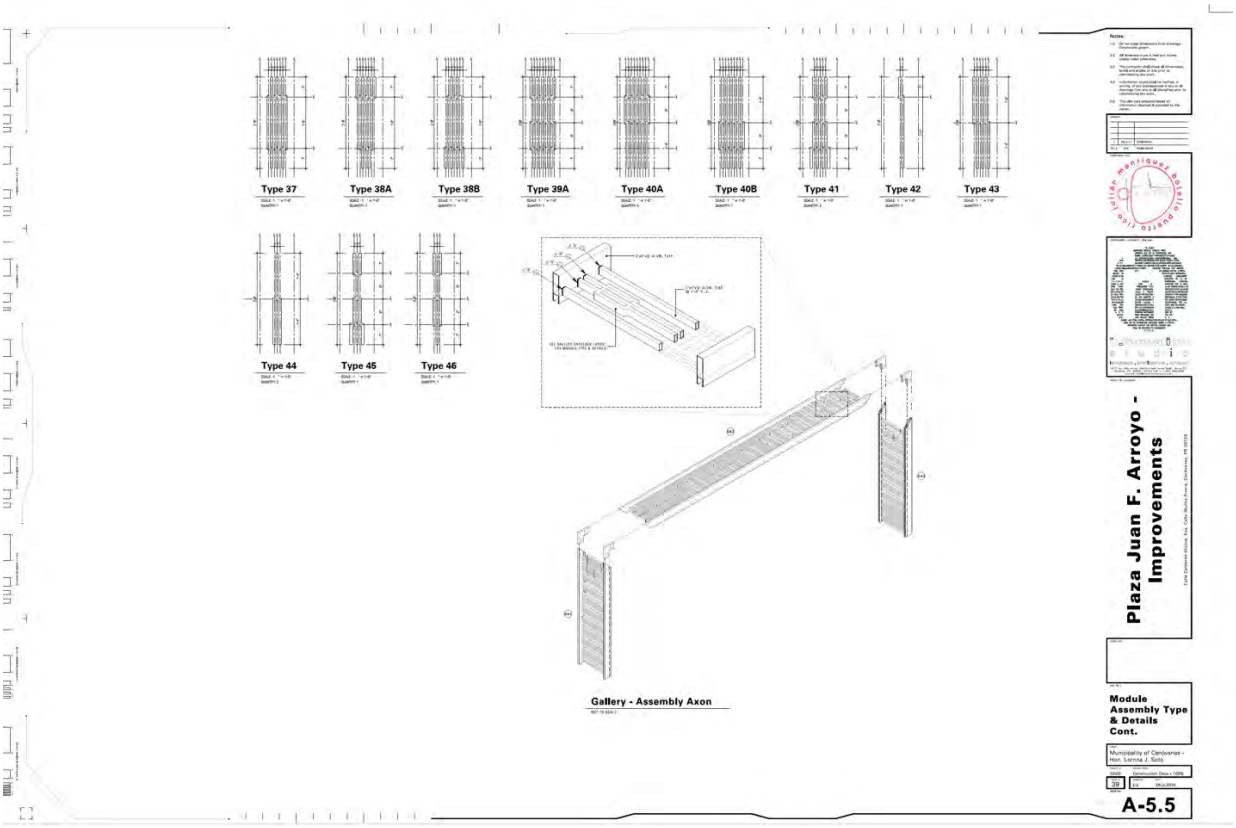


Figure 50:Electrical Closet-Elevations, Sections and Detail

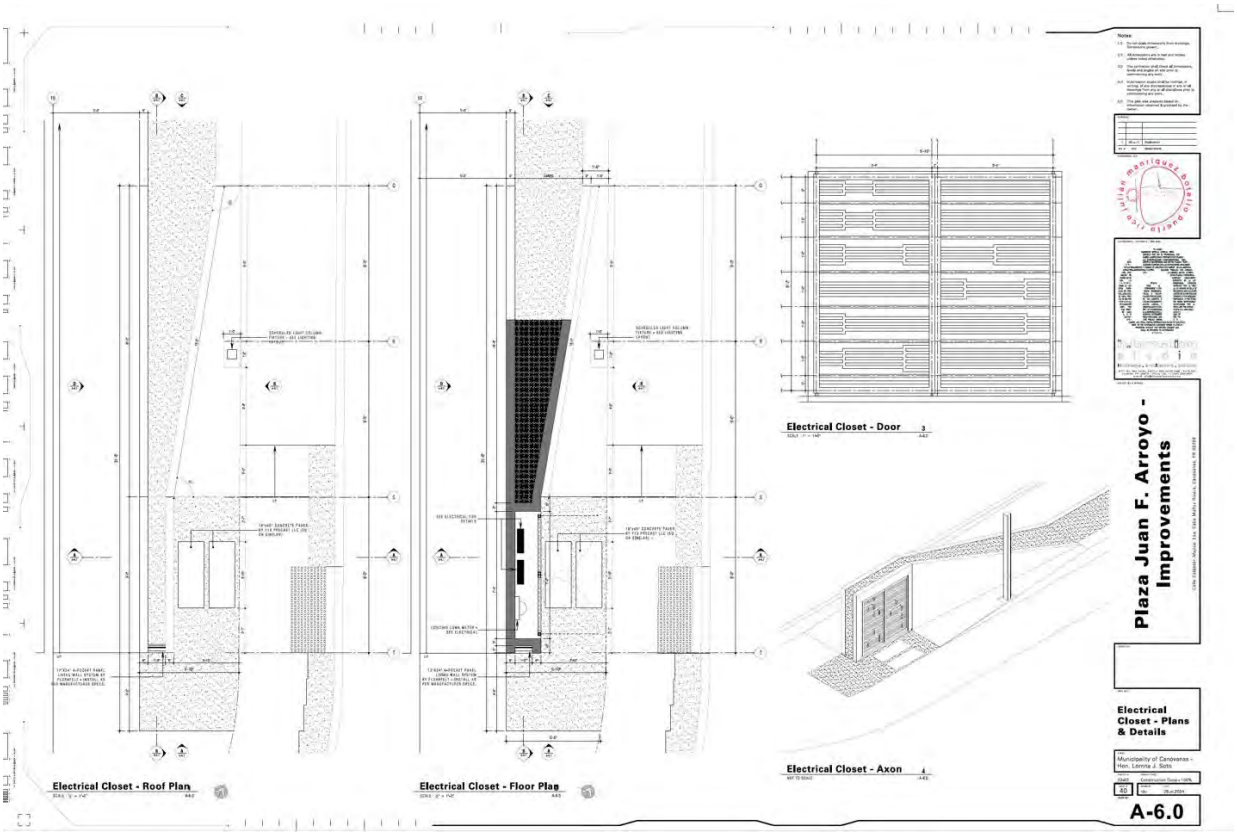


Figure 51:Electrical Closet-Elevations, Sections and Detail

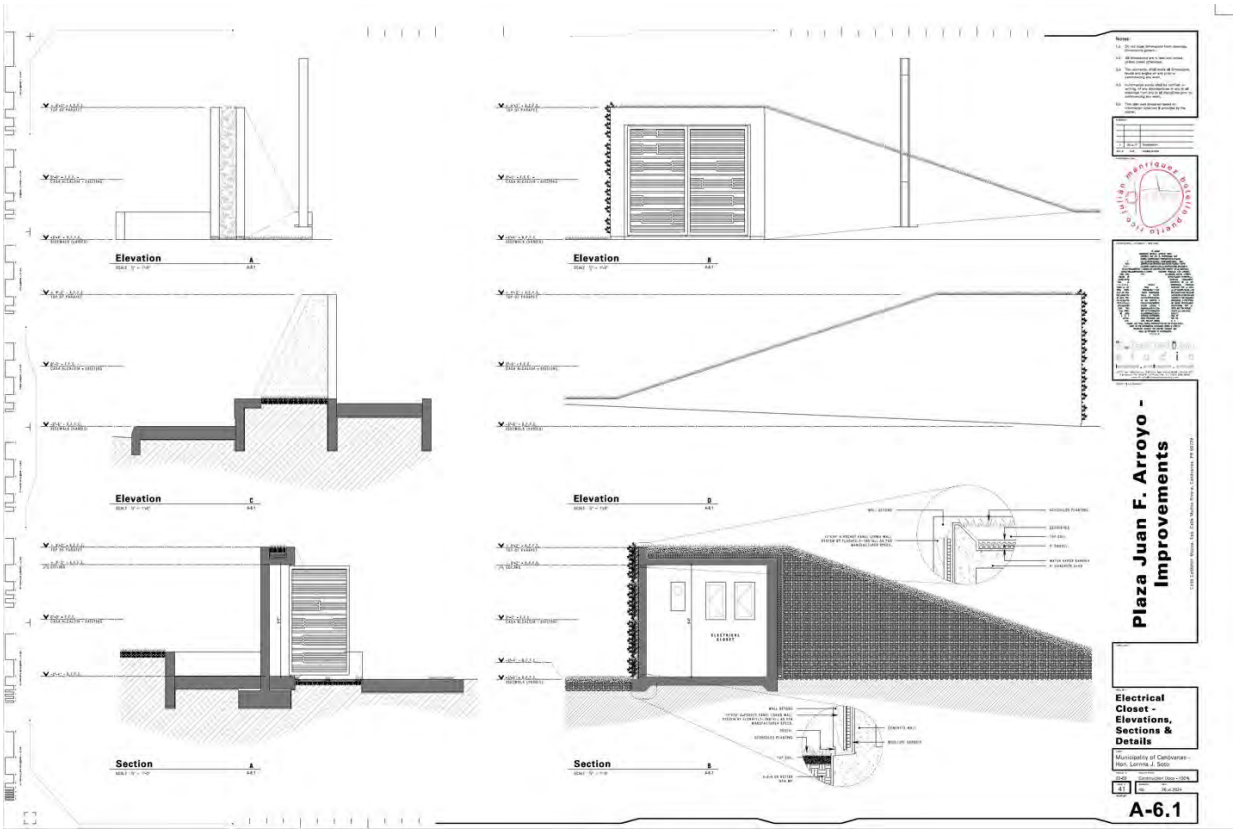


Figure 52:Paver Pattern Layout Plan

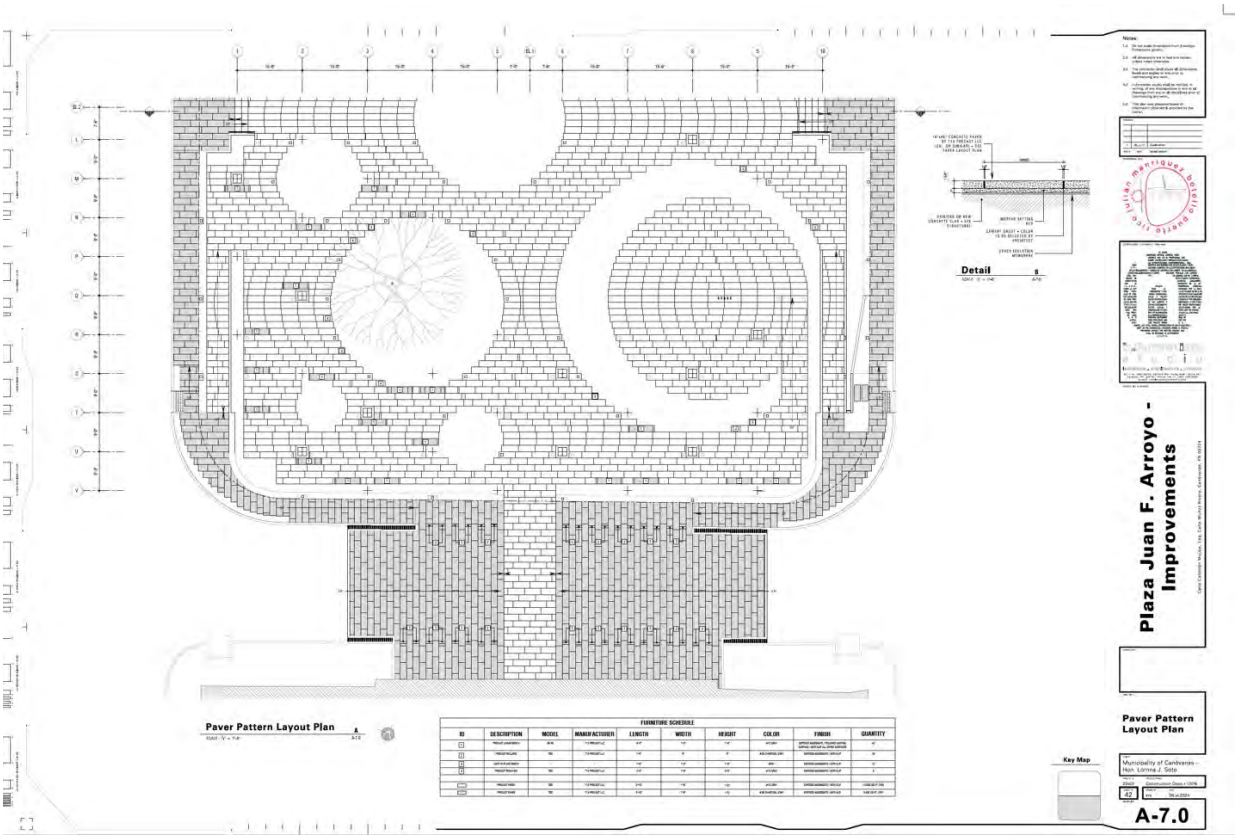


Figure 53: Paver Pattern Layout Plan

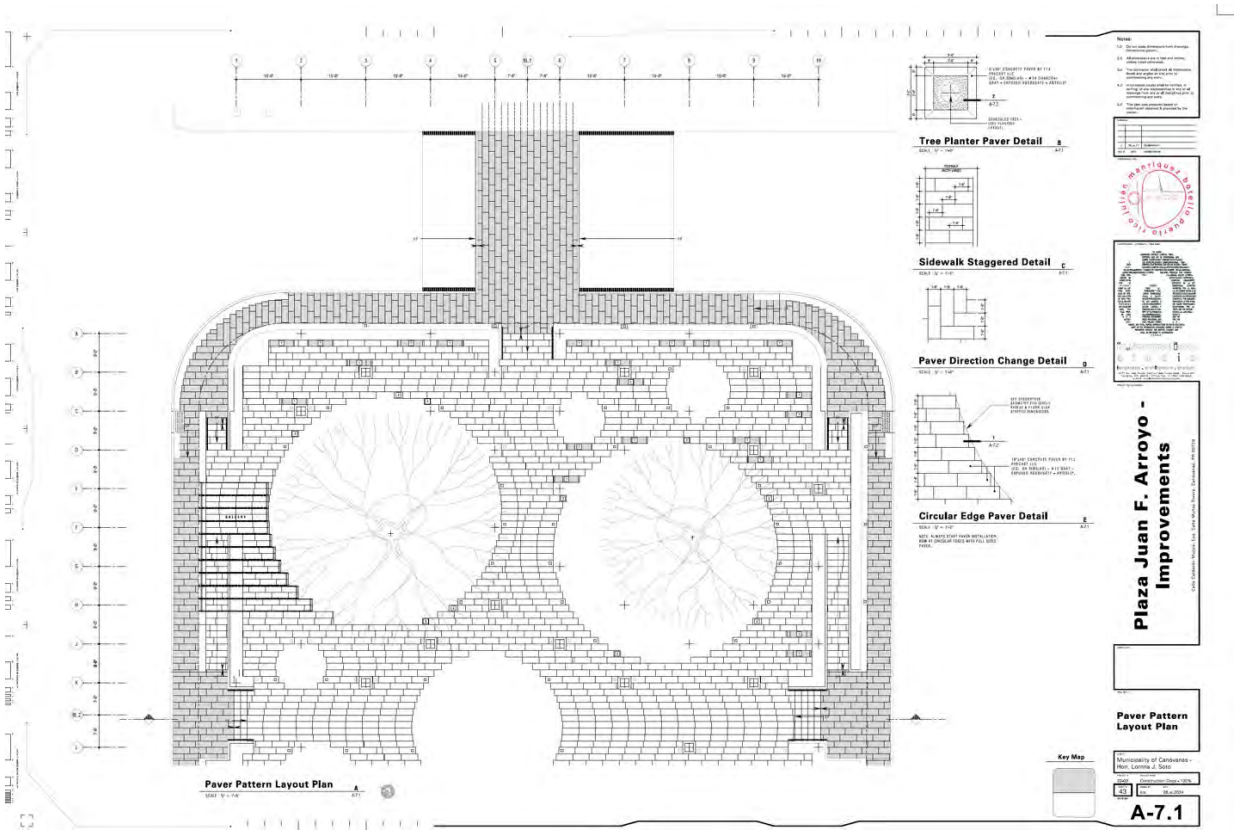


Figure 54:Pavers - Details

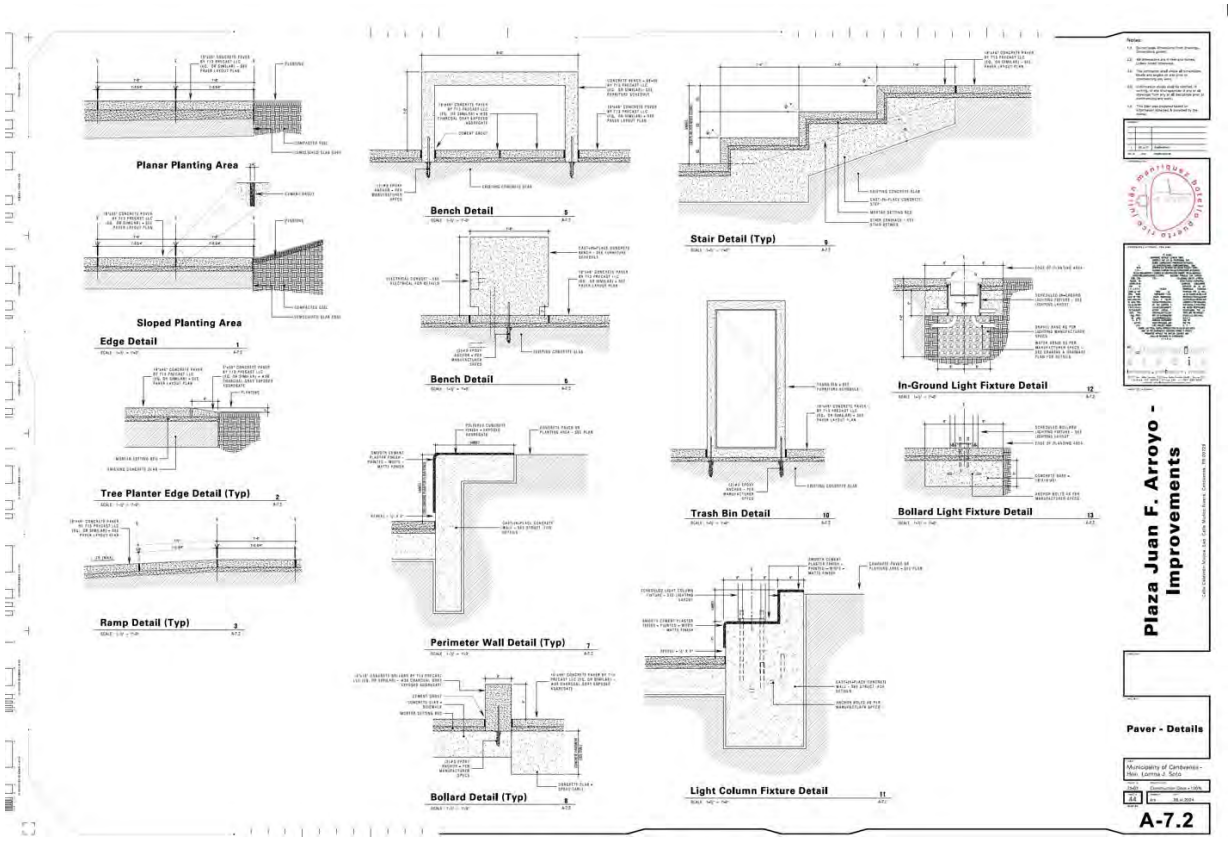


Figure 55: Project 3D visualization



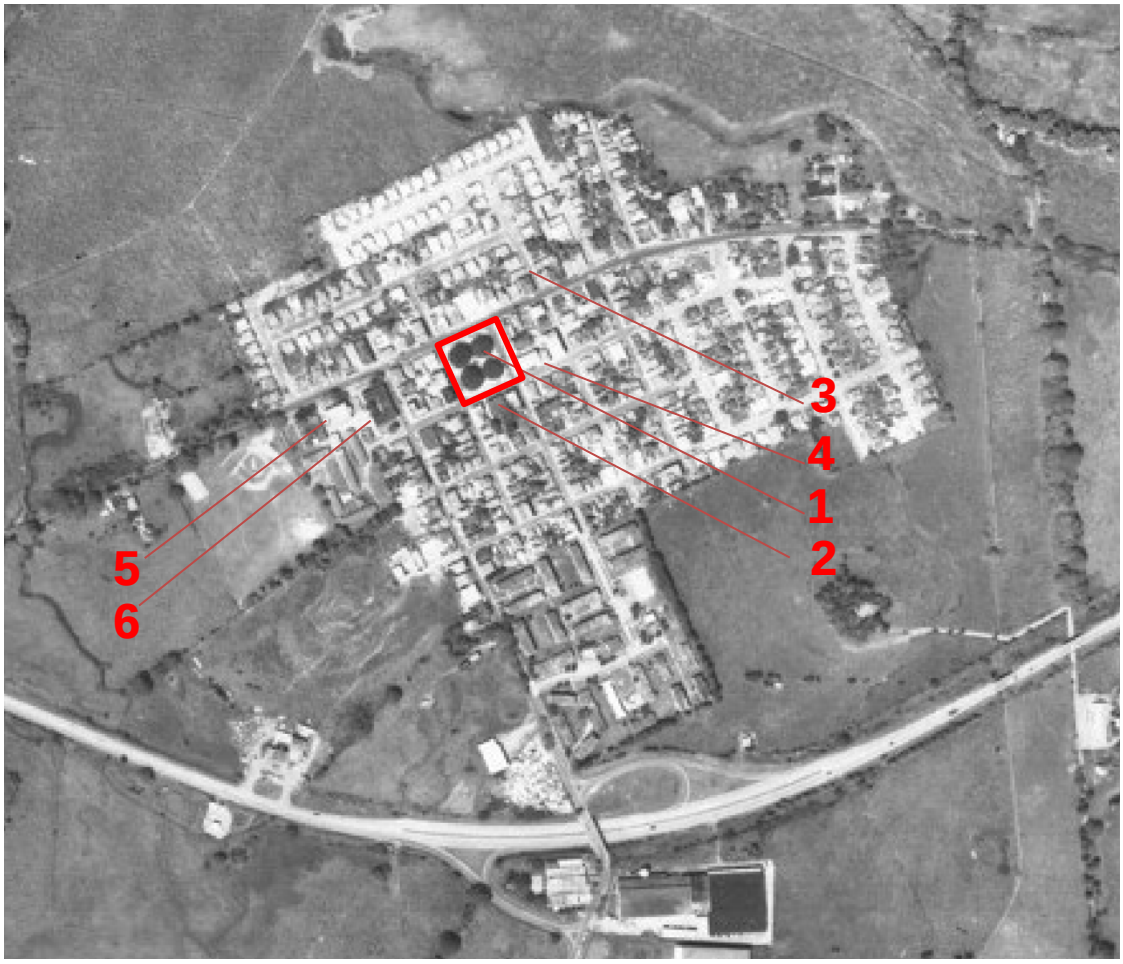
Figure 56:Photograph Key – USGS 1930



1. Juan F. Arroyo Public Square, is the direct APE (in Red)
2. Canóvanas Town hall, it's 30 feet away from APE.
3. Andres Flores Lopez Public school, it's 0.1mile away from APE.
4. Eugenio Maria de Hostos Public school, it's 397 feet away from APE.

N

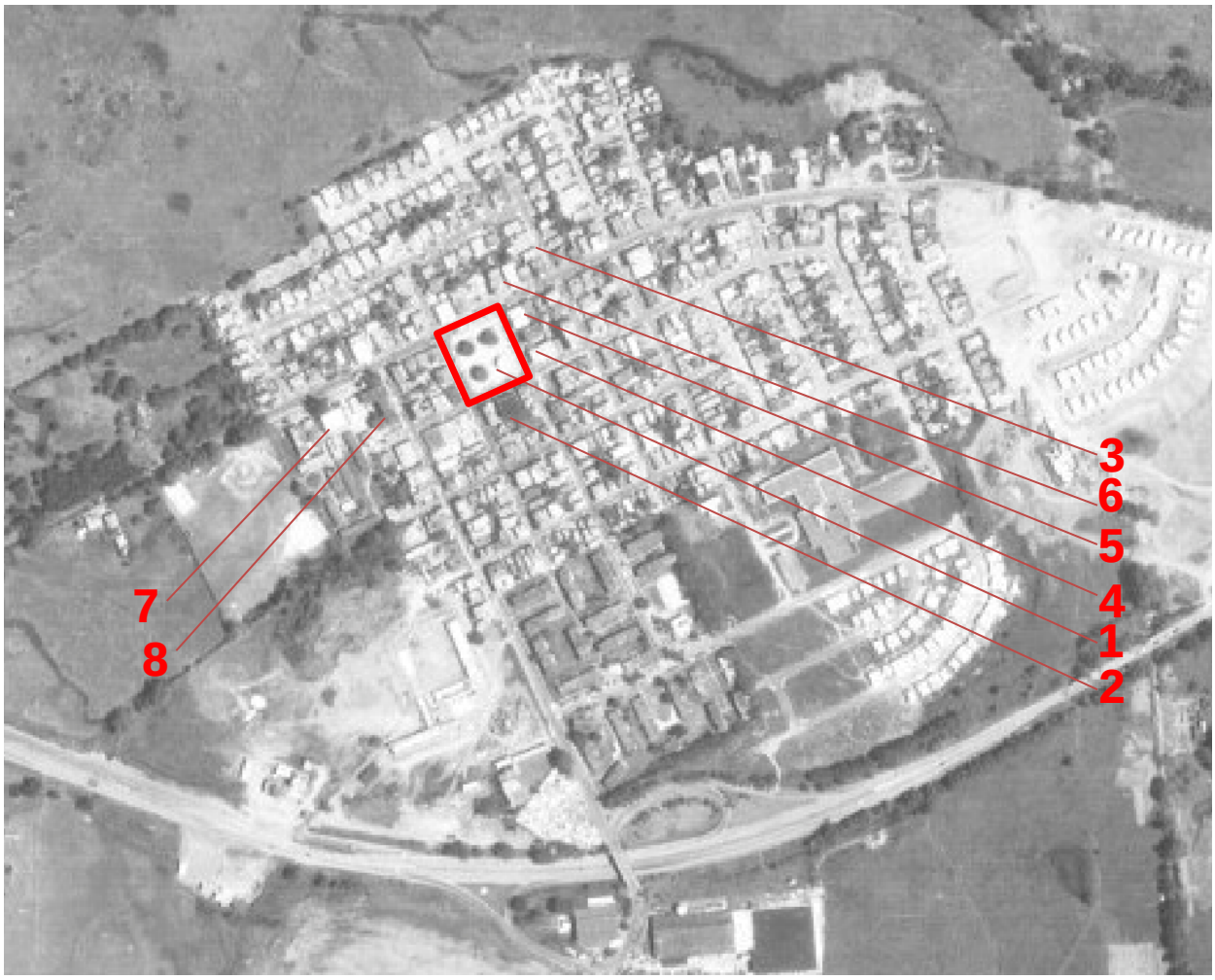
Figure 57:Photograph Key – USGS 1964



1. Juan F. Arroyo Public Square, is the direct APE (in Red)
2. Canóvanas Town hall, it's 30 feet away from APE.
3. Canóvanas Fire Station, it's 0.1 mile away from APE.
4. Colegio Nuestra Señora del Pilar, it's 108 feet away from APE.
5. Andres Flores Lopez Public school, it's 0.1mile away from APE.
6. Eugenio Maria de Hostos Public school, it's 397 feet away from APE.

N

Figure 58: Photograph Key – USGS 1971



1. Juan F. Arroyo Public Square, is the direct APE (in Red)
2. Canóvanas Town hall, it's 30 feet away from APE.
3. Canóvanas Fire Station, it's 0.1 mile away from APE.
4. Colegio Nuestra Señora del Pilar, it's 108 feet away from APE
5. Commercial three-story building, it's 256 feet away from APE.
6. Commercial two-story building, it's 0.1 mile away from APE.
7. Andres Flores Lopez Public school, it's 0.1mile away from APE.
8. Eugenio Maria de Hostos Public school, it's 397 feet away from APE.

N

Figure 59:Photograph Key – USGS 2018



1. Juan F. Arroyo Public Square, is the direct APE (in Red)
2. Canóvanas Town hall, it's 30 feet away from APE.
3. Canóvanas Fire Station, it's 0.1 mile away from APE.
4. Colegio Nuestra Señora del Pilar, it's 108 feet away from APE.
5. Commercial three-story building, it's 256 feet away from APE.
6. Commercial two-story building, it's 0.1 mile away from APE.
7. Andres Flores Lopez Public school, it's 0.1mile away from APE.
8. Eugenio Maria de Hostos Public school, it's 397 feet away from APE.

N



Photo #:1 **Description (include direction):**

Date: 04/09/23 Public Square west entrance looking east



Photo #:2 **Description (include direction):**

Date: 04/09/23 Public Square northwest entrance looking South



Photo #:3	Description (include direction):
Date: 04/09/23	Bronze statue in Public square statue facing north



Photo #:4	**Description (include direction):**
Date: 04/09/23	Bronze statue in the Public Square Statue looking south



Photo #:5	**Description (include direction):**
Date: 04/09/23	General View of the Public Square



Photo #:6	**Description (include direction):**
Date: 04/09/23	General View of the Public Square



Photo #:7	**Description (include direction):**

Date: 04/09/23	Existing lamps on the Public Square



Photo #:8	**Description (include direction):**
Date: 04/09/23	Existing condition of the Public Square, Planters



Photo #:9	Description (include direction):
Date: 04/09/23	Existing condition of the Public Square, Planters



Photo #:10	Description (include direction):
Date: 04/09/23	Existing condition of the Public Square, ramps



Photo #:11	Description (include direction):
Date: 04/09/23	Existing condition of the Public Square, ramps



Photo #:12	Description (include direction):

Date: 04/09/23	Existing condition of the Public Square, ramps



Photo #:13	**Description (include direction):**
Date: 04/09/23	Eligible Property, City Hall main Façade facing west



Photo #:14	**Description (include direction):**

Date: 04/09/23	Eligible Property, Canóvanas Fire Station main Façade facing East



Photo #:15	**Description (include direction):**
Date: 04/09/23	Eligible Property, Colegio Nuestra Señora del Pilar, main facade facing west



Photo #:16	**Description (include direction):**

Date: 04/09/23	Eligible Property, Commercial three-story building, main façade facing west. Parcel ID: 089-076-010-01



Photo #:17	**Description (include direction):**
Date: 04/09/23	Eligible Property, Commercial two-story building, Main façade facing south. Parcel ID: 089-076-048-12



Photo #:18	**Description (include direction):**

Date: 04/09/23	Canóvanas Urban context, Calderon Mujica St. Looking south



Photo #:19	**Description (include direction):**
Date: 04/09/23	Canóvanas Urban context, Munoz Rivera St. Looking east

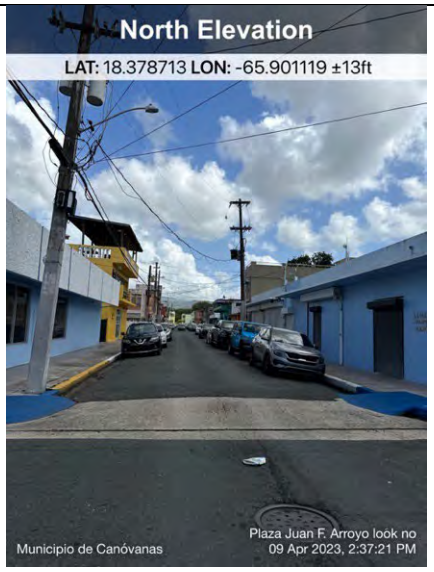


Photo #:20	**Description (include direction):**
Date: 04/09/23	Canóvanas Urban context, Luis Henaiz Veronne. Looking South



Photo #:21	**Description (include direction):**
Date: 04/09/23	Canóvanas Urban context, Calderon Mujica St. Looking North



Photo #:22	**Description (include direction):**
Date: 04/09/23	Canóvanas Urban context Palmer St. looking East

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Canóvanas	
Case ID: PR-CRP-000312	**City:** Canóvanas
Project Name: Plaza Juan F. Arroyo Improvements	



Photo #:23	**Description (include direction):**
Date: 04/09/23	Existing condition of the Public Square, ramps

PR-CRP-000312

Plaza Juan F. Arroyo Improvements

Canóvanas, Puerto Rico

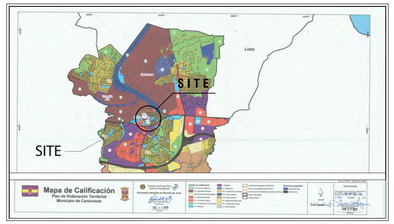
90% Design Drawings



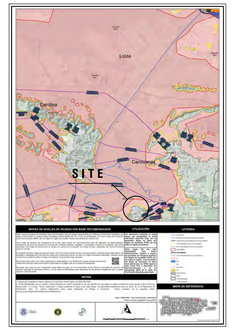
Project Image



Location Map



Zoning Map



Flood Map

Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

h.formation
studio
landscape . architecture . product

Drawing List

T-1 TITLE SHEET

Civil

C-1.0 CIVIL PLAN
C-1.1 CIVIL DETAILS
C-2.0 GRADING PLAN
C-3.0 TRAFFIC CONTROL PLAN & DETAILS
C-3.1 PEDESTRIAN CROSSING PLANS & DETAILS
C-3.2 SPEED TABLE PLANS & DETAILS
C-4.0 MAINTENANCE OF TRAFFIC PLAN
C-4.1 MOT DETAILS

Structural

S-1.0 FOUNDATION PLAN & DETAILS
S-1.1 FOUNDATION PLAN & DETAILS CONT.
S-1.2 FOUNDATION & DETAILS
S-1.3 PAVILIONS FOUNDATION PLAN & DETAILS
S-2.0 PAVILIONS STRUCTURAL PLAN & DETAILS
S-3.0 STRUCTURAL NOTES & DETAILS

Architecture

L-1.0 SYMBOLS, LEGEND & ABBREVIATIONS
GN-1.0 GENERAL NOTES
GDN-1.0 GENERAL DEMOLITION NOTES
AS-1.0 SITE PLAN
ED-1.0 DEMOLITION PLAN & NOTES
ED-1.1 DEMOLITION PLAN & NOTES
A-1.0 FLOOR PLAN & DETAILS
A-1.1 FLOOR PLAN & DETAILS CONT.
A-1.2 DESCRIPTIVE GEOMETRY
A-1.3 DESCRIPTIVE GEOMETRY CONT.
A-1.4 DESCRIPTIVE GEOMETRY CONT.
A-2.0 GENERAL ELEVATIONS
A-3.0 GENERAL SECTIONS
A-4.0 STAIR PLANS & DETAILS
A-4.1 STAIR SECTIONS & DETAILS
A-5.0 GALLERY PLANS & DETAILS
A-5.1 GALLERY ELEVATIONS & SECTIONS
A-5.2 GALLERY UNFOLDED LAYOUT
A-5.3 GALLERY UNFOLDED LAYOUT CONT.
A-5.4 GALLERY UNFOLDED LAYOUT CONT.
A-6.0 PAVILION PLANS, ELEVATIONS & SECTIONS
A-6.1 PAVILION UNFOLDED LAYOUT
A-6.2 PAVILION UNFOLDED LAYOUT CONT.
A-6.3 GALLERY & PAVILION ELEMENTS TYPES
A-6.4 GALLERY & PAVILION ELEMENTS TYPES CONT.
A-7.1 PAVER DETAILS

Electrical

E-1.0 ELECTRICAL LIGHTING LAYOUT, NOTES, LEGEND & LOAD SCHEDULE
E-1.1 POWER PLAN
E-1.2 POWER PLAN CONT.

Plumbing

P-1.0 PLUMBING LAYOUT PLAN & NOTES
P-2.0 PLUMBING NOTES & DETAILS

Telecommunications

T-1.0 TTC SITE PLAN

Cadastral No: 089-086-015-01

Plaza Juan F. Arroyo - Improvements

Calle Muñoz Rivera
Canóvanas,PR 00729

LANDSCAPE
XXX
XXX

CIVIL
XXX
XXX

STRUCTURAL
JOG Engineering, Corp.
José O. González García, P.E.

MECHANICAL A/C
XXX
XXX

PLUMBING
Jorge Torres Scandali
Jorge Torres Scandali

FIRE PROTECTION
XXX

ELECTRICAL
Requena & Asociados
Carlos Lázaro, P.E.

Consultants

VOICE/DATA COMMUNICATIONS
XXX
XXX

ELECTRONIC/AUDIOVISUAL
XXX
XXX

THEATER/ACOUSTICAL
XXX
XXX

LIGHTING DESIGN
XXX
XXX

INTERIORS
XXX
XXX

SECURITY
XXX
XXX

ENVIRONMENTAL - HAZARDOUS MATERIAL
XXX
XXX

DIGITAL FABRICATION
XXX
XXX

Specialty Consultants

Abbreviations

A-I		**J-Z**		**Acronyms**	
[E]	EXISTING	**JAN**	JANITOR	**SAD**	SEE ARCHITECTURAL DRAWINGS
[N]	NEW	**JT**	JOINT	**SSD**	SEE STRUCTURAL DRAWINGS
AB	ANCHOR BOLT	**LAM**	LAMINATE	**SCD**	SEE CIVIL DRAWINGS
ACT	ACCOUSTICAL CEILING TILE	**LP**	LOW POINT	**SMD**	SEE MECHANICAL DRAWINGS
ACOUST	ACCOUSTICAL	**LAV**	LAVATORY	**SED**	SEE ELECTRICAL DRAWINGS
AFF	ABOVE FINISH FLOOR	**MAX**	MAXIMUM	**SLD**	SEE LANDSCAPE DRAWINGS
AFFE	ABOVE FINISH FLOOR ELEVATION	**MECH**	MECHANICAL	**SD & TD**	SEE DATA & TELECOMMUNICATION DRAWINGS
AFFL	ABOVE FINISH FLOOR LEVEL	**MH**	MANHOLE		
ALT	ALTERNATE	**MIN**	MINIMUM		
ALUM	ALUMINUM	**MO**	MASONRY OPENING		
APPROX	APPROXIMATE	**MISC**	MISCELLANEOUS		
ARCH	ARCHITECTURAL	**MTD**	MOUNTED		
ASPH	ASPHALT	**MTL**	METAL		
BB	BOTTOM OF BEAM	**NIC**	NOT IN CONTRACT		
BD	BOARD	**NO**	NUMBER		
BLDG	BURLDING	**NTS**	NOT TO SCALE		
BLKG	BLOCKING	**OC**	ON CENTER		
BM	BEAM	**OD**	OUTSIDE DIAMETER		
BOD	BOTTOM OF DECK	**OH**	OVERHEAD		
BOS	BOTTOM OF SLOPE	**OPNG**	OPENING		
BOT	BOTTOM	**OPP**	OPPOSITE		
BT	BOTTOM CURB	**PBC**	PLUMBING CONTRACTOR		
BS	BOTH SIDES	**PL**	PLATE		
BW	BOTTOM WALL	**PLAS LAM**	PLASTIC LAMINATE		
CB	CATCH BASIN	**PLYWD**	PLYWOOD		
CJ	CONTROL JOINT	**PNT**	PAINT		
CLG	CEILING	**PR**	PAIR		
CL	CENTER LINE	**PT**	POINT OF TANGENCY		
CLR	CLEAR	**RAD**	RADIUS		
CMU	CONCRETE MASONRY UNIT	**RD**	ROOF DRAIN		
COL	COLUMN	**REINF**	REINFORCED		
CONC	CONCRETE	**REQD**	REQUIRED		
CONT	CONTINUOUS	**RESIL**	RESILIENT		
CONTR	CONTRACTOR	**RM**	ROOM		
CPT	CARPET	**RO**	ROUGH OPENING		
CT	CERAMIC TILE	**RTU**	ROOF TOP UNIT		
CTR	CENTER	**SHTG**	SHEATHING		
DBL	DOUBLE	**SIM**	SIMILAR		
DET	DETAIL	**SPECS**	SPECIFICATIONS		
DIA	DIAMETER	**SQ**	SQUARE		
DN	DOWN	**SS**	STAINLESS STEEL		
DR	DOOR	**STA**	STATION		
DS	DOWN SPOUT	**STD**	STANDARD		
DWG	DRAWING	**STL**	STEEL		
EA	EACH	**STRUCT**	STRUCTURAL		
EF	EACH FACE	**SUSP CLG**	SUSPENDED CEILING		
EJ	EXPANSION JOINT	**TBD**	TO BE DETERMINED		
ELC	ELECTRICAL CONTRACTOR	**TBS**	TO BE SELECTED		
ELEC	ELECTRICAL	**TOB**	TOP OF BEAM		
ELEV	ELEVATION (FACADE)	**TOC**	TOP OF CURB		
EQ	EQUAL	**TOPA**	TOP OF PANEL		
EQUIP	EQUIPMENT	**TOP**	TOP OF PARAPET		
EXF	EXHAUST FAN	**TOS**	TOP OF STAIR		
EXP	EXPANSION	**TOW**	TOP OF WALL		
EXIST	EXISTING	**TYP**	TYPICAL		
EW	EACH WAY	**UNF**	UNFINISHED		
EWC	ELECTRIC WATER COOLER	**UON**	UNLESS OTHERWISE NOTED		
FD	FREE DISCHARGE (ROOF DRAIN)	**VCT**	VINYL COMPOSITE TILE		
FDN	FOUNDATION	**VIF**	VERIFY IN FIELD		
FFE	FINISH FLOOR ELEVATION	**W/**	WITH		
FH	FIRE HYDRANT	**WD**	WOOD		
FIN	FINISH (ED)				
FLR	FLOOR				
FP	FIREPROOF				
FTG	FOOTING				
FURR	FURRING				
GA	GAUGE				
GALV	GALVANIZED				
GCC	GENERAL CONSTRUCTION CONTRACTOR				
GL	GLASS				
GRD	GRADE				
GYP	GYPSUM				
HAC	HEATING & A/C CONTRACTOR				
HB	HOSE BIB				
HC	HOLLOW CORE				
HDWD	HARDWOOD				
HM	HOLLOW METAL				
HORIZ	HORIZONTAL				
HP	HIGHT POINT				
HT	HEIGHT				
ID	INSIDE DIAMETER				
IDC	INSIDE DIMENSION CLEAR				
INSUL	INSULATION				
INT	INTERIOR				

Symbols

- NORTH ARROW
- ELEVATION DESIGNATION / REFERENCED DRAWING — ELEVATION - EXTERIOR
- SECTION DESIGNATION / REFERENCED DRAWING — GENERAL SECTION
- PARTIAL OR WALL SECTION DESIGNATION / REFERENCED DRAWING — PARTIAL OR WALL SECTION
- ELEVATION - INTERIOR
- DETAIL DESIGNATION / REFERENCED DRAWING — DETAIL
- DOOR DESIGNATION # / HARDWARE DESIGNATION # — DOOR DESIGNATION
- WINDOW DESIGNATION
- NOTE INDICATOR
- DEMOLITION NOTE INDICATOR
  - A. ACCESSORIES/MISCELLANEOUS
  - C. CEILING
  - D. DOORS/FRAMES
  - F. FLOOR
  - M. MECHANINCAL/PLUMBING
  - P. PARTITIONS
  - W. WINDOWS
- REVISION INDICATOR
- ROOM NAME — SPACE IDENTIFICATION NAME
- SPACE DESIGNATION #
- REF., CLG., FLOOR / WALL / BASE — FINISHES KEY
- FIXTURE/EQUIPMENT IDENTIFIER
- +14'-6" A.F.F.E. — ELEVATION - AT FINISH FLOOR LEVEL
- +14'-0" A.F.E.E. — ELEVATION - AT CEILING LEVEL
- 1 / A-2.6 — DETAIL SECTION
- CHANGE IN FLOOR FINISH
- CHANGE OF FLOOR FINISH WHERE THRESHOLD OR SADDLE OCCURS
- XX — STRUCTURAL AXIS
- CHANGE IN FLOOR LEVEL
- HIDDEN OUTLINE (SHOWING CONDITION BELOW, ABOVE, BEHIND OR BEYOND)
- MATCH LINE
- 12% — SLOPE
- 136.6' — EXISTING SPOT ELEVATION
- 136.6' — PROPOSED SPOT ELEVATION
- 6" — DIMENSION - PRIMARY - TXT HT. 3/32" - & OFFSET 1/16"
- 6" — DIMENSION - SECONDARY - TXT HT. 3/64" - & OFFSET 1/32"
- ANNOTATION ARROW
- ANNOTATION DOT
- CENTER LINE
- BREAK LINE

Floor Plan

A

SCALE : 1/128" = 1'-0"

A-2.1

BID SET
February 25, 2017
NOT FOR CONSTRUCTION

Legend

- EXISTING CONSTRUCTION TO REMAIN
- WALLS TO BE DEMOLISHED
- STRUCTURAL CONCRETE WALL
- CONCRETE BLOCK WALL
- GWB. PARTITION
- ELEMENTS TO BE REMOVED
- PROPERTY LINE

Notes:

1.0 Do not scalle dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

Julián Manríquez Botello — Lic. MAX 00CC III — EXP. 19.X.2025

CERTIFICACIÓN - COPYRIGHTS + FIRM NAME

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Symbols, Legend, Abbreviations & Acronyms

CLIENT

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT # 22-01

PROJECT PHASE Construction Docs - 90%

SHEET # 2

DRAWN BY jmb

DATE 05.ii.2024

DISCIPLINE

L-1.0

General Notes

1.0 THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AT SITE AND NOTIFY, THE PROJECT ARCHITECT OR CONSTRUCTION REPRESENTATIVE OF ANY AND ALL DISCREPANCIES AND LIST ANY WORK NOT YET COMPLETED BEFORE STARTING WORK.

2.0 ALL WORK ON THIS PROJECT SHALL BE IN ACCORDANCE WITH ALL CODES, SUB-CODES AND BUILDING DEPARTMENTS HAVING JURISDICTION. GENERAL CONTRACTOR TO CONTACT LOCAL BUILDING OFFICIALS FOR SPECIFIC REQUIREMENTS FOR THIS PROJECT.

3.0 THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS FOR THE GENERAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS REQUIRED FOR THE WORK NOTED ON THESE PLANS AND SPECIFICATIONS.

4.0 BOTH THE OWNER'S GENERAL CONTRACTORS AND ALL SUBCONTRACTORS WORKING ON THIS PROJECT ARE RESPONSIBLE FOR CONTACTING THE PUBLIC UTILITY COMPANIES SUPPLYING UTILITIES TO THE AREA WHERE THE PROJECT IS LOCATED, IN ORDER TO VERIFY LOCATIONS OF UTILITIES, UNDERGROUND OR OVERHEAD, AND SECURE THE PROPER PROCEDURES WHILE WORKING ADJACENT TO, ABOVE OR NEAR SUCH UTILITIES TO AVOID ANY PROBLEMS WITH EXPLOSIONS, DISCONNECTIONS, REMOVALS, ETC.

5.0 THE GENERAL CONTRACTOR SHALL LAY OUT WORK AS SPECIFIED IN THE DRAWINGS AND SHALL BE HELD RESPONSIBLE FOR PROPER ESTABLISHMENT AND MAINTENANCE OF ALL LINES AND DIMENSIONS, BEFORE DOING ANY WORK. THIS GENERAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE SITE AND NOTIFY THE ARCHITECT, THE OWNER AND THE OWNER'S CONSTRUCTION REPRESENTATIVE OF ANY DISCREPANCIES VERBALLY AND THEN IN WRITING.

6.0 ALL CONTRACTORS SHALL BE BONDABLE, LICENSED CONTRACTORS POSSESSING GOOD LABOR RELATIONS AND MUST BE CAPABLE OF QUALITY WORKMANSHIP, IN HARMONY WITH OTHER CONTRACTORS WORKING ON THE PROJECT. THE OWNER TO BE NOTIFIED OF THE NAMES OF ALL POTENTIAL SUBCONTRACTORS PRIOR TO AWARDING BIDS.

7.0 PRIOR TO COMMENCEMENT OF ANY WORK, THE GENERAL CONTRACTOR SHALL CONTACT AND MEET WITH OWNER AND PROJECT MANAGEMENT REPRESENTATIVE FOR A PRE-CONSTRUCTION MEETING, AT WHICH TIME THE GENERAL CONTRACTOR WILL PRESENT TO ALL PARTIES A LIST OF NAMES, ADDRESSES, BUSINESS AND HOME TELEPHONE NUMBERS OF THE SUBCONTRACTORS FOR THIS PROJECT.

8.0 THE GENERAL CONTRACTOR, ALL SUBCONTRACTORS OR OUTSIDE SERVICES COMPLETING WORK ON THIS PROJECT SHALL COMPLY WITH ALL THE PROVISIONS OF O.S.H.A. (OCCUPATIONAL SAFETY AND HEALTH ACT).

9.0 THE GENERAL CONTRACTOR SHALL HAVE AT ALL TIMES, AT THE PREMISES, APPROVED WORKING DRAWINGS (IF APPLICABLE) AND BUILDING DEPARTMENT APPROVED PERMIT DRAWINGS.

10.0 ALL CLEARANCES OF PIPES AND DUCT WORK INSTALLED BY THE GENERAL CONTRACTOR OR SUBCONTRACTORS MUST BE MAINTAINED FOR ADEQUATE HEIGHTS REQUIRED FOR CEILING SYSTEM AND LIGHT FIXTURES.

11.0 THE CONTRACTORS AND SUBCONTRACTORS PARTICIPATING IN THE PERFORMANCE OF WORK SHALL REMOVE AND DISPOSE OF, AT LEAST ONCE A WEEK AND MORE FREQUENTLY AS MAY DIRECT, ALL DEBRIS AND RUBBISH CAUSED BY OR RESULTING FROM THE PERFORMANCE OF WORK AND, UPON COMPLETION THEREOF, REMOVE ALL TEMPORARY STRUCTURES, SURPLUS MATERIALS, DEBRIS AND RUBBISH OF WHATEVER KIND REMAINING IN THE WORK AREA WHICH HAD BEEN BROUGHT IN OR CREATED BY THE CONTRACTOR AND SUBCONTRACTORS IN THE PERFORMANCE OF WORK. THIS CONTRACTOR MUST MAINTAIN A CLEAR PATH OF EGRESS AT THE SITE FREE FROM TRASH AND RUBBISH AT ALL TIMES. ALL REMOVAL OF CONSTRUCTION DEBRIS TO AN APPROVED DUMPING SITE TO BE INCLUDED IN THE GENERAL CONTRACTOR'S WORK.

12.0 ALL FINISH AND EXPOSED WOOD SHALL RECEIVE A FIRE RETARDANT COATING OR TREATMENT IF REQUIRED BY CODE OR THE LOCAL FIRE MARSHALL. NO WOOD OR COMBUSTIBLE MATERIAL SHALL BE USED ABOVE THE SUSPENDED CEILING UNLESS NON-COMBUSTIBLE LUMBER IS USED AND IS SPECIFICALLY ALLOWED BY U.B.C. LOCAL BUILDING CODES, THE FIRE MARSHALL AND ALL AGENCIES HAVING JURISDICTION. IF FIRE TREATED WOOD IS REQUIRED FOR FIXTURING ITEMS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR EXECUTING THIS WORK AS PER BUILDING OFFICIALS' REQUIREMENTS. THE WOOD MUST BEAR THE U.L. APPROVAL AND MILL STAMP INDICATING IT WAS PROPERLY TREATED.

13.0 ALL EQUIPMENT, MILLWORK AND FIXTURES SUPPLIED BY OWNER TO BE UNLOADED, ASSEMBLED AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE REPRESENTATIVE.

14.0 ANY SUBSTITUTIONS OF FINISH MATERIALS MUST BE APPROVED BY THE ARCHITECT IN WRITING. GENERAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING TWO (2) SAMPLES OF EACH SUBSTITUTION.

15.0 EACH CONTRACTOR AND SUBCONTRACTOR PERFORMING WORK SHALL MAINTAIN CONTINUOUS PROTECTION OF ADJACENT PREMISES IN SUCH MANNER AS TO PREVENT ANY DAMAGE TO ADJACENT PROPERTY AND IMPROVEMENTS BY REASON OF THE PERFORMANCE OF WORK. EACH CONTRACTOR AND SUBCONTRACTOR SHALL PROPERLY PROTECT WORK WITH LIGHTS, GUARD RAILS, AND BARRICADES AND SECURE ALL PARTS THEREOF AGAINST STORM AND ACCIDENT.

16.0 WHEN BIDDING THIS PROJECT, EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND VERIFYING EXISTING CONDITIONS AS REFLECTED IN THESE CONTRACT DOCUMENTS. ANY EXTRA WORK REQUIRED BUT NOT INCLUDED IN THE DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY.

17.0 GENERAL CONTRACTORS AND ALL SUBCONTRACTORS ARE REQUIRED TO FURNISH THE MINIMUM COVERAGE AND LIMITS OF LIABILITY DESCRIBED ON THE CONTRACT DOCUMENTS.

18.0 GENERAL CONTRACTORS ARE REQUIRED TO FAMILIARIZE ALL PERSONS AND SUBCONTRACTORS WORKING ON THIS PROJECT WITH THESE GENERAL NOTES AND THE CONTRACT DOCUMENTS NOTED IN THESE DRAWINGS. GENERAL CONTRACTORS SHALL BE RESPONSIBLE FOR FULLY ACQUAINTING THEMSELVES WITH THE CONTENT AND SCOPE OF THESE SPECIFICATIONS, AND SPECIAL ATTENTION SHOULD BE GIVEN THE SPECIFICATIONS THROUGHOUT THE SPAN OF THIS PROJECT BY THESE GENERAL CONTRACTORS, SUPERVISORS AND SUBCONTRACTORS, AS THE STANDARD ESTABLISHED HEREIN SHALL BE APPLIED, WITH EMPHASIS TO ALL WORK, WORK DECLARED UNACCEPTABLE BY THE OWNER/ARCHITECT SHALL BE CORRECTED IN A MANNER AND TO A DEGREE OF QUALITY AS ACCEPTABLE BY THE OWNER.

19.0 THE GENERAL CONDITIONS OF THE "CONTRACT FOR CONSTRUCTION" DOCUMENT A-201, ISSUED BY THE AMERICAN INSTITUTE OF ARCHITECTS, 1981 EDITION, RELATES TO THE WORK OF THIS PROJECT AND IS HEREBY MADE A PART OF THESE DRAWINGS AS THOUGH FULLY CONTAINED IN THESE DRAWINGS. THE GENERAL CONTRACTORS AND ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY NUMBER OF COPIES OF DOCUMENT A-201, TO ACQUAINT HIMSELF WITH THE ARTICLES CONTAINED THEREIN AND TO REVIEW WITH ALL SUBCONTRACTORS, SUPPLIERS AND ANY OTHER PARTIES TO THE CONTRACT OR INDIVIDUALS OR AGENCIES ENGAGED ON THE WORK AS TO ITS CONTENTS.

20.0 ONLY THE CLIENT'S REPRESENTATIVE, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK, ALTER, ADD TO, OR DEDUCT FROM THE CONTRACT WORK. THE CONTRACT SUM SHALL BE ADJUSTED ACCORDINGLY, AND SUCH COSTS SHALL BE COMPETITIVE WITH LOCAL CONSTRUCTION COSTS.

21.0 AT THE TIME OF FINAL SUBMITTAL FOR ALL COSTS BY THE GENERAL CONTRACTOR TO THE OWNER, INCLUDING BASE BID, EXTRAS AND CREDITS, THE OWNER'S GENERAL CONTRACTOR'S SUBCONTRACTORS SHALL FURNISH TO THE OWNER A WRITTEN GUARANTEE STIPULATING THAT, AT NO ADDITIONAL COST TO THE OWNER CONTRACTOR, ANY DEFECTIVE WORK OR MATERIALS SHALL BE REPAIRED OR REPLACED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF WORK, UNLESS OTHERWISE NOTED.

22.0 NO EXTRAS FOR COSTS CAN BE AUTHORIZED UNLESS APPROVED IN WRITING BY THE ARCHITECT OR THE OWNER'S CONSTRUCTION REPRESENTATIVE. ANY ISSUES OF CREDITS TO BE CALCULATED BASED ON COMPETITIVE RATES AND EQUIPMENT'S COSTS APPROVED BY THE ARCHITECT.

23.0 FOR CLARIFICATION PURPOSES, CLIENT AND OWNER ARE THE SAME PARTY. GENERAL CONTRACTOR WILL BE REQUIRED TO HANDLE ALL WORK IN THESE DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE.

24.0 THE CONTRACTORS ARE REQUIRED TO HAVE ALL SUBCONTRACTORS REVIEW THESE ABOVE NOTES PRIOR TO BIDDING AND TO FOLLOW-UP AND EXECUTE AS WRITTEN.

25.0 THE DESIGN CONCEPT LEAVES ZERO OR MINIMAL CLEARANCE FOR ERROR IN REGARD TO LAYOUT. "HOLD DIMENSION" INDICATIONS ARE TO BE ADHERED TO AND THE CONTRACTOR IS TOTALLY RESPONSIBLE FOR ERROR OR OMISSION. ANY QUESTIONS RELATING TO DIMENSIONING ARE TO BE ADDRESSED TO THE ARCHITECT ONLY.

26.0 ALL PAYMENTS MADE TO THE GENERAL CONTRACTOR FOR THIS PROJECT ARE TO BE ALLOCATED FOR THIS PROJECT ONLY. FOR PAYMENTS TO SUBCONTRACTORS, MATERIAL SUPPLIERS AND AGENTS AUTHORIZED BY THE SPECIFIC CONTRACTOR TO PERFORM WORK OR SUPPLY MATERIALS TO THIS PROJECT ONLY. THE GENERAL CONTRACTORS ARE REQUIRED TO SUBMIT PARTIAL WAIVERS OF LIENS FOR THEIR WORK AS WELL AS SUBCONTRACTORS OR MATERIAL SUPPLIERS, UPON THE REQUEST OF THE CLIENT OR THE CLIENT'S ARCHITECT AND THE REQUEST FOR THE FINAL 10% RETENTION ON THIS PROJECT MUST INCLUDE SIGNED AND EXECUTED WAIVERS OF LIEN INDICATING 100% COMPLETION AND 100% PAYMENT IN FULL, BY ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS.

27.0 ALL EXITS SHALL BE UNOBSTRUCTED AT ALL TIMES, DURING CONSTRUCTION AND OCCUPANCY.

28.0 THE GENERAL CONTRACTOR, AT THE POINT OF "SUBSTANTIAL COMPLETION" AND "TURNOVER" MUST COMPLETE, AT GENERAL CONTRACTOR'S COST AND EXPENSE (FINAL PAYMENT CANNOT BE REQUESTED UNLESS ALL OF THIS WORK NOTED IS COMPLETED):
A) FINAL INSPECTIONS BY ALL BODIES HAVING JURISDICTION NECESSARY FOR FINAL COMPLETION, CERTIFICATE OF OCCUPANCY OR COMPLETION, WHICHEVER IS APPLICABLE.
B) FINALIZE ALL PUNCH LISTS AND/OR REQUIREMENTS, TO THE SATISFACTION OF BOTH THE ARCHITECT AND THE OWNER
C) FINALIZE CHANGES ON PLANS AND SPECIFICATIONS AND MARK ALL APPROVED BUILDINGS DEPARTMENT, FIRE MARSHALL AND OWNER CHANGES ON A SET OF COPIES FOR BOTH OWNER ARCHITECT AND FORWARD SUCH INFORMATION TO BOTH PARTIES VIA COURIER. MARKUPS SHALL BE COMPLETED USING A CLOUD PROCEDURE WITH A MAGIC MARKER TO EASILY DISTINGUISH CHANGES FROM ORIGINAL WORK.

29.0 IF THE OWNER OR ARCHITECT DO NOT MAKE REPEATED SITE VISITS CONTINUALLY OR AT ALL, THE GENERAL CONTRACTOR IS NOT RELIEVED OF ANY RESPONSIBILITY OR DUTIES INVOLVED IN THIS CONSTRUCTION WORK.

30.0 THE CONSTRUCTION DRAWINGS LISTED ON THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BASED ON THE BEST INFORMATION AVAILABLE DURING PREPARATION OF PLANS. IN THE EVENT THAT PROBLEMS ARISE DURING THE COURSE OF THE PROJECT, DUE TO UNKNOWN SITE CONDITIONS OR CODE AND REQUIREMENTS (IF ANY) THAT CONFLICT WITH DRAWINGS, THE GENERAL CONTRACTOR SHALL INFORM THE ARCHITECT IMMEDIATELY.

31.0 THE PROPER RECEIPT OF ALL NEW MATERIALS AND EQUIPMENT AT THE JOB SITE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, AND/OR HIS/HER SUBCONTRACTORS (IF ANY). SECURE AND SAFE STORAGE OF ALL NEW AND EXISTING MATERIALS AND EQUIPMENT TO REMAIN (IF ANY) WILL BE PROVIDED BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR TO IMMEDIATELY ADVISE CONSTRUCTION DEPT. OF ALL DAMAGED OR DEFICIENT SHIPMENTS OF MATERIALS AND EQUIPMENT, WHETHER SUPPLIED BY TENANT OR DIRECTLY BY CONTRACTOR OR HIS/HER SUPPLIERS. GENERAL CONTRACTOR TO COMPLETE AND SUBMIT ALL NECESSARY PAPERWORK AND ARRANGE INSPECTIONS OF DAMAGED GOODS AS PER TENANT CONSTRUCTION DEPT. REQUIREMENTS.

32.0 THE GENERAL CONTRACTOR IS REQUIRED TO ADHERE TO ALL NEW REQUIREMENTS, STATED OR NOT ON THESE PLANS AND SPECIFICATIONS, FOR THE LATEST A.D.A. LAW EFFECTIVE JANUARY 26, 1992. THIS LAW IS A CIVIL RIGHTS LAW AND THE EXCLUSION OF REQUIREMENTS BY THE LOCAL CODE OFFICIALS DOES NOT RELIEVE THE TENANT OR THE TENANT'S CONTRACTOR OF ADHERING TO THESE NECESSARY WORK, EITHER DURING CONSTRUCTION OR AFTER OCCUPANCY.

33.0 QUALITY STANDARDS: ALL SUCH WORK SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER AND SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION THEREOF. GENERAL CONTRACTOR SHALL REQUIRE ANY PERSON PERFORMING ANY SUCH WORK TO GUARANTEE THE SAME TO BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND MATERIALS FOR ONE (1) YEAR FROM THE DATE OF COMPLETION THEREOF. OWNER SHALL ALSO REQUIRE ANY SUCH PERSON TO BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR WITHOUT ADDITIONAL CHARGE, OF ANY AND ALL WORK DONE OR FURNISHED BY OR THROUGH SUCH PERSON, WHICH SHALL BECOME DEFECTIVE WITHIN ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION OF THE WORK. THE CORRECTION OF SUCH WORK SHALL INCLUDE, WITHOUT ADDITIONAL CHARGE, ALL EXPENSES AND DAMAGES IN CONNECTION WITH SUCH REMOVAL, REPLACEMENT OR REPAIR OF ANY PART OF THE WORK WHICH MAY BE DAMAGED OR DISTURBED THEREBY. ALL WARRANTIES OR GUARANTEES AS TO MATERIALS OR WORKMANSHIP ON OR WITH RESPECT TO OWNER'S WORK SHALL BE CONTAINED IN THE CONTRACT OR SUBCONTRACT WHICH SHALL INURE TO THE BENEFIT OF OWNER, AND CAN BE DIRECTLY ENFORCED BY HIM/HER. GENERAL CONTRACTOR TO HAVE THIS CLAUSE IN EVERY SUBCONTRACTOR AGREEMENT FOR THE PROJECT AND IF SUCH CLAUSE IS NOT INCLUDED, IT WILL NOT RELIEVE THE GENERAL CONTRACTOR OF THE REQUIREMENTS OR WORK STATED HEREIN.

34.0 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT, UNLESS CONTRACT DOCUMENTS GIVE OTHER SPECIFIC INSTRUCTIONS CONCERNING THESE MATTERS. SEE AIA DOCUMENT A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ARTICLE 3, SECTION 3.3.1 (1987 EDITION)

35.0 THE ARCHITECT SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT FOR CONSTRUCTION.

36.0 THE GENERAL CONTRACTOR AND/OR HIS/HER SUBCONTRACTOR IS TO COMPLETE ALL FINISHES AS PER PLANS AND SPECIFICATIONS. THE FINISHES NOTED MAY FOR VARIOUS REASONS BE CHANGED BASED ON AVAILABILITY AND/OR APPROVAL OF DIFFERENT MANUFACTURES AND/OR HIS/HER SUBCONTRACTOR WILL BE REQUIRED TO ADHERE TO THE EXACT SPECIFICATION ON DRAWINGS, BASED ON THE TYPE OF SUBSTRATE AND/OR THE SUBSTRATE PREPARATION, AND CORRECT APPLICATION AND/OR NECESSARY WORK FOR PROPER ADHESION AND/OR EXPANSION/CONTRACTION OF THE FINISH MATERIAL OR SUCH SUBSTRATE.

37.0 IF THERE IS A DISCREPANCY BETWEEN A SMALLER DETAIL OR PLAN REGARDING INFORMATION, SIZING, MEASURING, ETC., AND A LARGER DETAIL OR PLAN, THE GENERAL CONTRACTOR AND/OR THE SUBCONTRACTOR WORKING ON THE DETAIL/PLAN IS TO CONTACT THE ARCHITECT OR THE ARCHITECT'S REPRESENTATIVE PRIOR TO STARTING THAT PARTICULAR WORK.

38.0 THE CONSTRUCTION DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONDITIONS, ETC.) REFER TO EXISTING CONDITIONS AT THE SITE AT THE TIME THE DOCUMENT'S PRODUCTION COMMENCED. THE ARCHITECTS ARE NOT RESPONSIBLE FOR ANY ADDITIONAL DESIGN WORK RELATED TO DAMAGE, ALTERATIONS, OR CONSTRUCTION WORK PERFORMED ON SITE AFTER MENTIONED DATE.

39.0 WORDS "SUPPLY", "INSTALL", "PROVIDE", "REPLACE", ETC, REFER TO NEW MATERIALS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AS PART OF THE CONSTRUCTION CONTRACT, UNLESS SPECIFIED OTHERWISE ON INSTALLATION DETAILS WHERE NOT ALL MATERIALS OR PROCEDURES ARE SPECIFIED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PARTS AND SHALL CARRY ON ALL STANDARD GOOD CONSTRUCTION PRACTICE METHODS.

40.0 ALL METAL, CONCRETE, CONCRETE COMPOSITE, GYPSUM BOARD, MASONRY, WOOD AND OTHER MATERIAL INTERIOR AND EXTERIOR SURFACES, EITHER NEW OR EXISTING, EXCLUDING DOOR AND WINDOW HARDWARE, ACOUSTIC CEILINGS, FLOOR FINISHES, CERAMIC TILES AND GLASS SURFACES, SHALL BE PAINTED ACCORDING TO PAINT SPECIFICATIONS. THIS INCLUDES ALL CEILINGS, WALLS, RAILINGS, HANDRAILS, PARAPETS, GATES, FIXED GRILLES, DOORS, DOOR FRAMES, WINDOWS, ETC, CLEAN AND PREPARE ALL SURFACES AS PER PAINT SPECIFICATIONS BEFORE APPLYING NEW PAINT, THE ARCHITECT SHALL SUBMIT THE COLOR SCHEMES.

41.0 ACCESS TO THE PROJECT SHALL BE COORDINATED WITH OWNER BEFORE CONSTRUCTION COMMENCEMENT. CONSTRUCTION SITE ACCESS SHALL BE CONTROLLED BY THE CONTRACTOR AND ALL HIS EMPLOYEES SHALL BE DULY IDENTIFIED.

42.0 THE CONTRACTOR SHALL MAINTAIN A GRAPHIC AND WRITTEN RECORD OF ALL CHANGES IN THE DRAWINGS TO SUBMIT TO THE OWNER AT THE END OF THE CONSTRUCTION.

43.0 THE ARCHITECT HAS THE PREROGATIVE OF CHARGING A FEE OF $125.00 PER HOUR FOR THE REVISION OF SUBSTITUTIONS PRESENTED BY THE CONTRACTOR DURING THE BID OR CONSTRUCTION PERIODS.

44.0 THE CONTRACTOR SHALL TAKE INTO ACCOUNT ALL PRECAUTIONS NOT TO DAMAGE EXISTING TREES AND/OR PLANTS TO REMAIN.

45.0 ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AIR CONDITIONING AND STRUCTURAL EQUIPMENT AND/OR INSTALLATION DETAIL SHALL BE INCLUDED IN THE BASE BID EVEN THOUGH THEY ONLY APPEARS ON ARCHITECTURAL DRAWINGS (AND NOT ON ELECTRICAL, STRUCTURAL, MECHANICAL OR CIVIL DRAWINGS) OR ON ELECTRICAL, STRUCTURAL, MECHANICAL OR CIVIL DRAWINGS (AND NOT ON ARCHITECTURAL DRAWINGS), THE CONTRACTOR SHALL VERIFY THE DRAWINGS BEFORE SUBDIVIDING THE DRAWING SETS FOR SUBCONTRACTOR QUOTATIONS.

46.0 THE CONTRACTOR SHALL INSTALL SIGNS FOR THE HANDICAPPED ON WALLS NEXT TO RAMPS, COMPLYING WITH THE ADA CODE. SUBMIT SAMPLE FOR THE ARCHITECT'S APPROVAL.

47.0 ALL MATERIAL SPECIFIED MUST BE INSTALLED OR APPLIED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

48.0 THE CONSTRUCTOR MUST SUBMIT FINISH SAMPLES FOR THE ARCHITECT'S APPROVAL.

49.0 ALL CONCRETE, CONCRETE BLOCK WALLS & CEILINGS TO BE PLASTERED, UNLESS OTHERWISE NOTED.

50.0 THIS IS A PUBLIC BID THEREFORE WHENEVER AND WHEREVER ON THIS PLANS REFERENCE IS MADE TO A SPECIFIC PRODUCT BRAND OR SUPPLIER THE GENERAL CONTRACTOR SHALL UNDERSTAND THAT AN EQUAL OR SIMILAR MATERIAL OR COMPONENT CAN BE SUBMITTED FOR EVALUATION AND POSSIBLE APPROVAL OR DISAPPROVAL OF THE ARCHITECT.

51.0 CONSTRUCTION TIME & REQUIREMENT FOR THIS PROJECT REFER TO CONTRACT DOCUMENTS.

52.0 CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE STREETS, SIDEWALKS AND BUILDING AREAS TO FAMILIARIZE WITH THE EXTENT OF EXISTING ELEMENTS TO BE DEMOLISHED AND REMOVED. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING ALL DEMOLISHED MATERIALS AND EQUIPMENT AWAY FROM THE SITE AT NO COST TO THE OWNER.

53.0 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO ACTUAL CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES, ERRORS OR OMISSIONS, SO THAT PROPER CORRECTIONS ARE MADE. ALL CHANGES AND REVISIONS TO THE EXTENT OF WORK WILL BE AT NO EXTRA COST TO THE OWNER.

54.0 THE CONTRACTOR SHALL COORDINATE OR VERIFY THE LOCATION OF EXISTING UTILITIES, SUCH AS TELEPHONE, ELECTRICAL CONDUITS, SANITARY, WATER AND STORM SEWER LINES. PRIOR TO PROCEED WITH ANY EXCAVATION OR CONSTRUCTION, IN CASE OF INTERFERENCE WITH EXISTING CONDITION, THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER AT NO COST TO THE OWNER.

55.0 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTIONS TO EXISTING UTILITIES, SUCH US TELEPHONE, ELECTRICAL CONDUITS, SANITARY, WATER AND STORM SEWER LINES WITH NO EXPOSED ENDS, UNLESS OTHERWISE NOTED.

56.0 ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.

57.0 PROVISIONS FOR DETAIL, NOT SPECIFICALLY DRAWN, SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH ACI 318 BUILDING CODE AND/OR CLARIFIED WITH THE DESIGNER.

58.0 ALL DETAILING AND CONSTRUCTION TO BE MADE IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE" (ACT 315), "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACT 318) AND ALL OTHER AMERICAN CONCRETE INSTITUTE STANDARDS AND RECOMMENDATIONS FOR ACCEPTABLE PRACTICES.

59.0 IN CASE OF DOUBT IN THE INTERPRETATION OF ALL ASPECT IN THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATIONS, THE DESIGNER SHALL BE CONSULTED.

60.0 THE CONTRACTOR SHALL REPAIR, CLEAN, AND RESTORED TO FINISHED GRADE, AS REQUIRED ALL CURBS, SIDEWALKS AND AREAS AFFECTED DURING THE CONSTRUCTION OPERATION, DUE TO THE MOVEMENT OF HEAVY EQUIPMENT OR THE TEMPORARY STOCKING OF CONSTRUCTION MATERIALS, AT NO ADDITIONAL COST TO THE OWNER, IN ORDER TO MINIMIZE DAMAGE, THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER AND LIMIT TO A MINIMUM THE USE OF AREAS FOR SITE MOVEMENT AND STORAGE OF MATERIALS AND EQUIPMENT.

61.0 CONTRACTOR SHALL REMOVE FROM THIS SITE SCRAP MATERIAL OR ANY OTHER ELEMENT DISCARDED WITHIN THE PROJECT. THIS MAY REQUIRE INSPECTION, HANDLING AND/OR DISPOSAL AT CONTRACTOR OWN EXPENSE.

62.0 THE CONTRACTOR IS ADVISED TO INSPECT THE SITE PRIOR TO HIS BIDDING TO ASCERTAIN THE EXTENT OF WORK REQUIRED IN THE DEMOLITION AND REMOVAL OF EXISTING STRUCTURES AND/OR ELEMENTS.

63.0 DURING DEMOLITION AND CONSTRUCTION WORK, INCLUDING EXCAVATIONS, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES, SUCH AS SANITARY, WATER AND STORM SYSTEMS BUILDING CONNECTIONS, AND UNDERGROUND ELECTRICAL FACILITIES, ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR WITHIN 12 HOURS OF ITS OCCURRENCE WITHOUT ADDITIONAL COMPENSATION.

64.0 WHERE REQUIRED, CONCRETE WATER VALVE BOXES, CATCH BASINS AND MANHOLES SHALL BE RAISED OR LOWERED TO MATCH PROPOSED GRADING AND PROVIDED NEW COVER, STANDARD GRATING, OR STANDARD MANHOLE COVER, MANHOLES OR VALVE BOXES HIGHER THAN THE PROPOSED GRADING MAY REMAIN UNALTERED IF DRAINAGE IS NOT IMPAIRED.

65.0 CONSTRUCT WHEEL CHAIR RAMPS AT CORNER WHERE SIDEWALK IS REPLACED OR NEW SIDEWALK INSTALLED.

65.0 THE MAXIMUM CONTROL JOINT SPACING AT CURB AND SIDEWALK IS 3 METERS, JOINT MUST BE 0.003 METERS WIDE.

67.0 FORMS SHALL BE OF METAL AND SHALL EXTEND FOR THE FULL DEPTH OF THE CONCRETE. WOODEN FORMS MAY BE USED, WHEN AUTHORIZED BY THE ENGINEER, ON SHORT RADIUS CURVES SUCH AS AT STREET INTERSECTIONS AND AT SUCH OTHER LOCATIONS FOR WHICH CURVED METAL FORMS MAY NOT BE AVAILABLE. ALL FORMS SHALL BE FREE FROM WARP AND OF SUFFICIENT STRENGTH TO RESIST THE PRESSURE OF THE CONCRETE WITHOUT DISPLACEMENT. BRACING AND STAKING OF FORMS SHALL BE SUCH THAT THE FORMS OF REMAIN IN BOTH HORIZONTAL AND VERTICAL ALIGNMENT UNTIL THEIR REMOVAL. ALL FORMS SHALL BE CLEANED AND COATED WITH AN APPROVED FORM RELEASE AGENT OR FORM OIL BEFORE CONCRETE IS PLACED. DIVIDER PLATES SHALL BE OF METAL. FORMS SHALL CONFORM TO THE SPECIFIED RADIUS WHEN PLACED ON CURVES.

68.0 WHERE EXISTING SIDEWALK IS BEING RECONSTRUCTED AND WHERE NEW SIDEWALK IS BEING BUILT ALONG LOCAL ROADS, THE CONTRACTOR SHALL INSTALL CURB AND GUTTER TYPE AS SPECIFIED AND AS SHOWN IN PLANS.

69.0 SAW CUT SHALL BE MADE AT THE BOUNDARIES OF EXISTING ASPHALT OR CONCRETE PAVEMENT AND A NEW OR EXISTING SIDEWALK TO BE RECONSTRUCTED AT LEAST 2 INCHES DEEP.

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explication

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MAX OCCC III
EXP. 19.X.2021

CERTIFICACIÓN - COTPRMTS - NÚM. NAME

COLEGIO DE ARQUITECTOS Y ARQUITECTAS DE PUERTO RICO, EL COLEGIO DE INGENIEROS Y AGRIMENSORES DE PUERTO RICO, EL COLEGIO DE INGENIEROS, AGRIMENSORES Y ARQUITECTOS DE PUERTO RICO Y EL COLEGIO DE PROFESIONALES DE LA CONSTRUCCIÓN DE PUERTO RICO

CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN EN ESTE PROYECTO.

JURISDICCIÓN, CERTIFICO: QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES EN LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN EN ESTE PROYECTO.

ESTE PROYECTO ES POR NATURALEZA, EXCLUSIVO, Y POR LO TANTO, SU USO EN OTRO LUGAR PODRÍA CONSTITUIR UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR DEL ARQUITECTO. EL USO DE ESTE DISEÑO EN OTRO LUGAR REQUIERE LA AUTORIZACIÓN POR ESCRITO DEL ARQUITECTO.

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PROJEC

tres pulgadas = un pie
pulgada y media = un pie
una pulgada = un pie
media pulgada = un pie
un cuarto de pulgada = un pie
un octavo de pulgada = un pie
un dieciseis de pulgada = un pie
un treinta y dos de pulgada = un pie

General Demolition Notes

ALL INFECTION CONTROL CRITERIA AS SPECIFIED IN SECTION 01 00 00 - GENERAL REQUIREMENTS - SHALL BE ADHERED TO DURING ALL PHASES OF THE PROJECT.

1. THE DEMOLITION DRAWINGS FOR ARCHITECTURAL AND ENGINEERING WORK HAVE BEEN PREPARED USING "MEASURED DRAWINGS/AS-DESIGNED" DOCUMENTS PROVIDED BY THE OWNER. NEITHER THE OWNER NOR THE ARCHITECT WARRANT THESE TO BE "AS-BUILT" DOCUMENTS, AND ACTUAL CONDITIONS MAY VARY. THE DEMOLITION WORK INDICATED IS INTENDED TO SHOW THE GENERAL SCOPE OF THE DEMOLITION WORK AND IN NO WAY RELIEVES THE CONTRACTOR FROM PERFORMING ANY AND ALL DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
2. DEMOLITION NOTES INDICATED ON DRAWINGS MAY NOT BE ALL INCLUSIVE. REMOVE ALL ITEMS REQUIRED FOR RECONSTRUCTION ACTIVITIES.
3. VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE ARCHITECT IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
4. ALL STRUCTURAL ELEMENTS SHALL BE PROTECTED DURING DEMOLITION & THROUGHOUT CONSTRUCTION.
5. ALL DEMOLISHED MECHANICAL AND ELECTRICAL ITEMS SHALL BE REMOVED INCLUDING MAIN RUNS AND SERVICE LINES TO SOURCE. ALL SYSTEM LINES ARE NOT SHOWN ON CONSTRUCTION DOCUMENTS.
6. ALL WALLS, SUB-STRUCTURAL FRAMES, PARTITIONS, EQUIPMENT, ETC. INDICATED BY DASHED LINES (----) SHALL BE REMOVED. ALL MECHANICAL, ELECTRICAL, PLUMBING AND OTHER SERVICES WHICH ARE CONTAINED IN THE AREA TO BE REMOVED SHALL ALSO BE REMOVED OR REROUTED. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH NEW CONSTRUCTION BEFORE STARTING DEMOLITION.
7. AFTER REMOVAL OF EXISTING FLOOR FINISH, CONCRETE FLOOR SHALL BE GROUND SMOOTH AND LEVELED BEFORE INSTALLATION OF NEW FINISH PER ROOM FINISH SCHEDULE. AT DISSIMILAR FLOOR ELEVATIONS, FEATHER SELF-LEVELING UNDER-LAYMENT COMPOUND TO EACH FLOOR ELEVATION AND GRIND SMOOTH. AT DISSIMILAR FLOOR MATERIALS, AND/OR AT JUNCTIONS BETWEEN NEW AND EXISTING FLOORS, PROVIDE APPROPRIATE TRANSITION STRIP.
8. WHERE EXISTING DOORS, DOOR FRAMES, EQUIPMENT, PORTIONS OF WALLS AND PARTITIONS ARE REQUIRED TO BE REMOVED FOR THE COMPLETION OF THE WORK, EXERCISE CAUTION TO AVOID DISRUPTING SURROUNDING MATERIALS. SALVAGE EXISTING MATERIALS AS MUCH AS POSSIBLE FOR REUSE IN PATCHING SURROUNDING FINISHES WHEN APPROVED BY THE OWNER'S REPRESENTATIVE OR INDICATED ON CONSTRUCTION DRAWINGS.
9. WHERE REMOVAL OF EXISTING WALLS, PARTITIONS, EQUIPMENT, ETC. DISRUPTS EXISTING ELECTRICAL, MECHANICAL AND PLUMBING SERVICES, MAKE PERMANENT (OR IF NECESSARY, PROPER TEMPORARY) CONNECTIONS TO RESTORE AFFECTED SERVICES TO ORIGINAL CONDITION IN AREAS NOT SCHEDULED FOR DEMOLITION AND REMODELING.
10. REPAIR ANY DAMAGE TO ITEMS INDICATED TO REMAIN AS A RESULT OF DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. SEE SITE, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
11. ERECT AND MAINTAIN TEMPORARY CONSTRUCTION BARRIERS. COORDINATE LOCATIONS WITH CONSTRUCTION DOCUMENTS, PROJECT PHASING, ARCHITECT AND OWNER'S REPRESENTATIVE.
12. MAINTAIN CLEAR EXIT PATHS DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
13. UTILITIES/MEDICAL SYSTEM SHUTDOWNS (INCLUDING MEDICAL GASES) SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE, PER THE SPECIFICATIONS.
14. PRIOR TO MOBILIZATION, OR WORK COMMENCEMENT, THE CONTRACTOR SHALL COMMUNICATE IN WRITING THE PRESENCE/ABSENCE OF ASBESTOS OR LEAD IN ANY PART OF THE EXISTING STRUCTURE.
15. THE CONTRACTOR IS RESPONSIBLE FOR ASBESTOS ABATEMENT AND SHALL COORDINATE SUCH ABATEMENT WITH DEMOLITION WORK.
    A. THE OWNER BELIEVES THAT A CERTAIN AMOUNT OF THE EXISTING TILE HAS ASBESTOS-BASED MASTIC.
    B. THE OWNER BELIEVES THAT EXISTING LEAD BASED PAINT MAY BE PRESENT IN HE EXISTING STRUCTURE.
16. ALL DEMOLITION WORK SHALL BE PERFORMED WITH "DUE CARE AND DILIGENCE" SO AS TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH COULD NOT BE PREDETERMINED UNTIL DEMOLITION WAS STARTED. ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A LOCATION DIFFERENT FROM FLOOR TO FLOOR, ETC., OR ARE UNIDENTIFIED, SHALL BE REPORTED TO THE ARCHITECT BEFORE REMOVAL FOR FINAL DISPOSITION.
17. REMOVE PORTIONS OF EXISTING CONSTRUCTION AS DRAWN AND PATCH TO MATCH ADJACENT CONSTRUCTION. PATCH TO MATCH ADJACENT SURFACES OF EXISTING WALLS AND FLOORS IN ALL AREAS REQUIRED DUE TO THE REMOVAL OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT OR FIXTURES. NEW WORK SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED.
18. WHERE DEMOLITION WORK UNCOVERS OR LEAVES OPENINGS IN PARTITIONS OR INCOMPLETE PARTITIONS, EXTEND, RESTORE, AND/OR CLOSE OPENING IN PARTITION AS INDICATED AND/OR AS REQUIRED TO MAINTAIN FIRE RATINGS. MATCH EXISTING CONSTRUCTION, U.N.O., WITHIN THE LIMITS AND TOLERANCES FOR MATERIALS AS SPECIFIED OR RECOMMENDED BY THE MANUFACTURER. REFINISH SURFACES TO ALIGN FLUSH WITH EXISTING.
19. WHERE DEMOLITION WORK OR RELOCATION OF EXISTING ITEMS LEAVES UNFINISHED SURFACES AND/OR SUBSTRATES, CUT AND PATCH AS REQUIRED TO RESTORE SUBSTRATE AND/OR FINISH MATERIAL EVEN AND FLUSH WITH ADJOINING SURFACES. TEXTURE AND REFINISH TO MATCH EXISTING UNLESS NOTED OTHERWISE.
20. APPLY SELF-LEVELING COMPOUND TO FLOORING WHERE CMU WALLS ARE DEMOLISHED. GRIND FLOOR PRIOR TO APPLYING SELF-LEVELING COMPOUND IF REQUIRED TO ALLOW FOR LEVEL FLOOR SURFACE.
21. WHERE DEMOLITION OR RELATED WORK LEAVES FLOOR SURFACES WITH IMPERFECTIONS OR NOT LEVEL TO TOLERANCES SPECIFIED FOR NEW WORK, PROVIDE SELF-LEVELING UNDERLAYMENT.
22. REMOVAL OF EXISTING FIXTURES AND EQUIPMENT WILL REQUIRE ISOLATING THE PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. INSTALL NEW ISOLATION VALVES WHERE REQUIRED FOR COMPLETION OF WORK.
23. REMOVAL OF EXISTING PLUMBING FIXTURES AND EQUIPMENT, ETC. WILL REQUIRE CAPPING AND SEALING EXISTING MAINS OR BRANCHES AS NECESSARY AND REQUIRED TO ALLOW THE REMAINING SYSTEMS TO FULLY OPERATE WITHOUT DEGRADATION. CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK, AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK. REFER TO GENERAL CONDITIONS AND DIVISION 1 SECTIONS IN THE SPECIFICATIONS.
24. ALL DRAINED PIPING RISERS AND MAINS SHALL BE REFILLED WITH PROPER FLUID AND PROPERLY VENTED BY THE CONTRACTOR, ONCE NEW WORK HAS BEEN INSTALLED.
25. CEILINGS WHICH ARE IN CONFLICT WITH NEW WORK SHALL BE REMOVED OR RELOCATED ALONG WITH ALL MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS. COORDINATE WITH GENERAL CONTRACTOR THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILINGS, WALLS, ETC. AS REQUIRED FOR THE SPECIFIC WORK.
26. EXISTING PIPING AND EQUIPMENT, ETC., NOT TO BE UTILIZED IN THE COMPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED AS REQUIRED. ALL ENDS OF DISCONTINUED PIPING SHALL BE CAPPED IN THE NEAREST WALL, CEILING OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. OPENINGS LEFT IN WALLS, CEILINGS, ETC., WHERE EQUIPMENT AND PIPE, ETC., ARE REMOVED AND NOT REPLACED, SHALL BE PATCHED NEATLY WITH SIMILAR MATERIAL TO ADJACENT CONSTRUCTION. REFER TO DRAWINGS DELINEATING NEW WORK FOR ADDITIONAL INFORMATION REGARDING SYSTEMS OR PORTIONS OF SYSTEMS WHERE USE IS TO BE DISCONTINUED.
27. WHEREVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC., ARE REQUIRED TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGARS, BRACING, FOUNDATION, ETC. AFTER REMOVAL, AFFECTED CONSTRUCTION AND SURFACES, SUCH AS FLOORS ,WALLS, BASES, AND CEILINGS, SHALL BE FINISHED TO MATCH ADJACENT SURFACES UNLESS OTHERWISE NOTED.
28. EXISTING PIPING, FIXTURES AND EQUIPMENT THAT ARE NOT TO BE REUSED SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE OWNER IF THEY WISH TO RETAIN OWNERSHIP OF SAME. IF NOT, EQUIPMENT SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AS SOON AS PRACTICAL AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
29. ALL CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
30. WHERE EXISTING PIPING AND EQUIPMENT, ETC., THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.
31. PORTIONS OF EXISTING SYSTEMS MAY BE SHOWN FOR CLARITY EVEN THOUGH IT MAY NOT BE NECESSARY TO MODIFY OR REVISE THEM. ALL EXISTING SYSTEMS ARE SHOWN BASED ON ORIGINAL OR REMODEL BUILDING DRAWINGS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.
32. ALL WORK MUST BE COORDINATED AND SCHEDULED WITH THE OWNER AND OCCUPANTS OF THIS BUILDING SO AS TO PROVIDE THE LEAST AMOUNT OF DISRUPTION OF BUILDING ACTIVITIES AS POSSIBLE.
33. ALL ACCESSIBLE ABANDONED PIPING AND DUCTWORK SHALL BE REMOVED AND PROPERLY DISPOSED OF.
34. CONTRACTOR SHALL REPAIR ALL SURFACES TO LIKE NEW AFTER TEMPORARY WALLS AND DOORS HAVE BEEN REMOVED.

Demolition Keynotes

Accessories/Miscellaneous

- A1 REMOVE AND DISPOSE OF EXISTING TOILET
- A2 REMOVE AND DISPOSE OF EXISTING COUNTERTOP, SHELVING, AND WORKSTATION
- A3 REMOVE AND DISPOSE OF EXISTING CANOPY AND RELATED ITEMS

Ceiling

- C1 REMOVE AND DISPOSE OF EXISTING CEILING SYSTEM.
- C2 REMOVE AND DISPOSE OF EXISTING TRACKS.
- C3 REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURES.

Doors and Frames

- D1 REMOVE AND DISPOSE OF EXISTING DOOR, FRAME, HARDWARE AND SIDELIGHT.
- D2 REMOVE AND DISPOSE OF EXISTING SLIDING DOOR, FRAME, HARDWARE AND RELATED ITEMS.
- D3 REMOVE AND DISPOSE OF EXISTING BI-FOLDING DOOR, FRAME, HARDWARE AND RELATED ITEMS.
- D4 NOT USED.

Floor

- F1 REMOVE AND DISPOSE OF EXISTING FLOOR COVERING TO SLAB.
- F2 REMOVE AND DISPOSE OF EXISTING CONCRETE WALKWAY/ STOOP.
- F3 REMOVE AND DISPOSE OF EXISTING RECESSED WALK OFF FLOOR MAT AND FLOOR COVERING LEVEL RECESS WITH SELF LEVELING UNDER-LAYMENT COMPOUND.
- F4 REMOVE AND DISPOSE OF EXISTING..
- F5 REMOVE AND DISPOSE OF EXISTING..

Mechanical/Plumbing

- M1 REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE (UTILITY SINK, FLOOR DRAIN, WATER CLOSET, URINAL, SHOWER AND/OR LAVATORY), RE: MEP.
- M2 NOT USED.
- M3 REMOVE AND DISPOSE OF EXISTING FIN TUBE RADIATOR, RE: MEP.
- M4 REMOVE AND DISPOSE OF EXISTING FAN COIL UNIT HEATER, RE: MEP.
- M5 NOT USED.

Partitions

- P1 REMOVE AND DISPOSE OF EXISTING MASONRY PARTITION AND RELATED ITEMS.
- P2 REMOVE AND DISPOSE OF EXISTING STUD PARTITION AND RELATED ITEMS.
- P3 REMOVE AND DISPOSE OF EXISTING STUD PARTITION/ FURRING AND RELATED ITEMS AROUND COLUMN. STEEL COLUMN SHALL REMAIN.
- P4 REMOVE AND DISPOSE OF EXTERIOR WALL SYSTEM AND RELATED ITEMS.
- P5 NOT USED.

Protection Notes

1. GENERAL: CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION TO REMAIN AS REQUIRED TO PREVENT DAMAGE. ALL EXISTING MATERIALS, SURFACES, EQUIPMENT, ETC. DAMAGED DURING THE WORK SHALL BE REPAIRED TO THE OWNER'S REPRESENTATIVE SATISFACTION OR REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER. PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO THE START OF ALL DEMOLITION, AND MAINTAINED THROUGHOUT CONSTRUCTION AS NEEDED.
2. COORDINATE LOCATION AND TYPE OF ALL PROTECTION BARRIERS WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
3. PROVIDE FLOOR PROTECTION COVERINGS AS REQUIRED TO PREVENT DAMAGE TO EXISTING FLOOR COVERINGS AND FINISHES TO REMAIN THROUGHOUT ALL CONSTRUCTION AND DEMOLITION ACTIVITY.
4. EXISTING EMERGENCY EXITS MUST BE MAINTAINED ACCESSIBLE DURING THE PERIOD OF CONSTRUCTION
5. CONTRACTOR SHALL SEAL ALL DOOR OPENINGS AND HVAC OPENINGS IN ALL AREAS OF DEMOLITION AND CONSTRUCTION PRIOR TO CUTTING, SANDING, ETC. TO PREVENT DUST MIGRATION TO ADJACENT ROOMS.
6. CONTRACTOR SHALL PROVIDE TEMPORARY WEATHER PROTECTION FOR ALL EXTERIOR OPENINGS WHERE DOORS, WINDOWS, LOUVERS, ROOF HATCHES AND ROOF EQUIPMENT OPENINGS ARE REMOVED OR WHERE NEW EXTERIOR OPENINGS ARE INSTALLED UNTIL PERMANENT ITEMS OR WEATHER PROTECTION ARE INSTALLED.

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explication

PROFESSIONAL SEAL

julián manriquez botello puerto rico
LIC: MXX DCCC III
EXP: 18.X.2025

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YO, JULIÁN MANRIQUEZ BOTELLO, LICENCIA 19893, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA. RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE. THIS DRAWING AND ITS CONTENTS ARE THE INTELLECTUAL PROPERTY OF IN.FORMATION STUDIO LLC, AND SHALL BE USED AS A REFERENCE DOCUMENTS AND WORKING INSTRUMENT ONLY BY AUTHORIZED PERSONNEL AND FOR THE SPECIFIC PROJECT HEREIN DESIGNED. ANY, TOTAL, PARTIAL REPRODUCTION OR USE OF SAID DOCUMENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT THE WRITTEN CONSENT AND SHALL BE RETURNED TO IN.FORMATION STUDIO.

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PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

General Demolition & Protection Notes

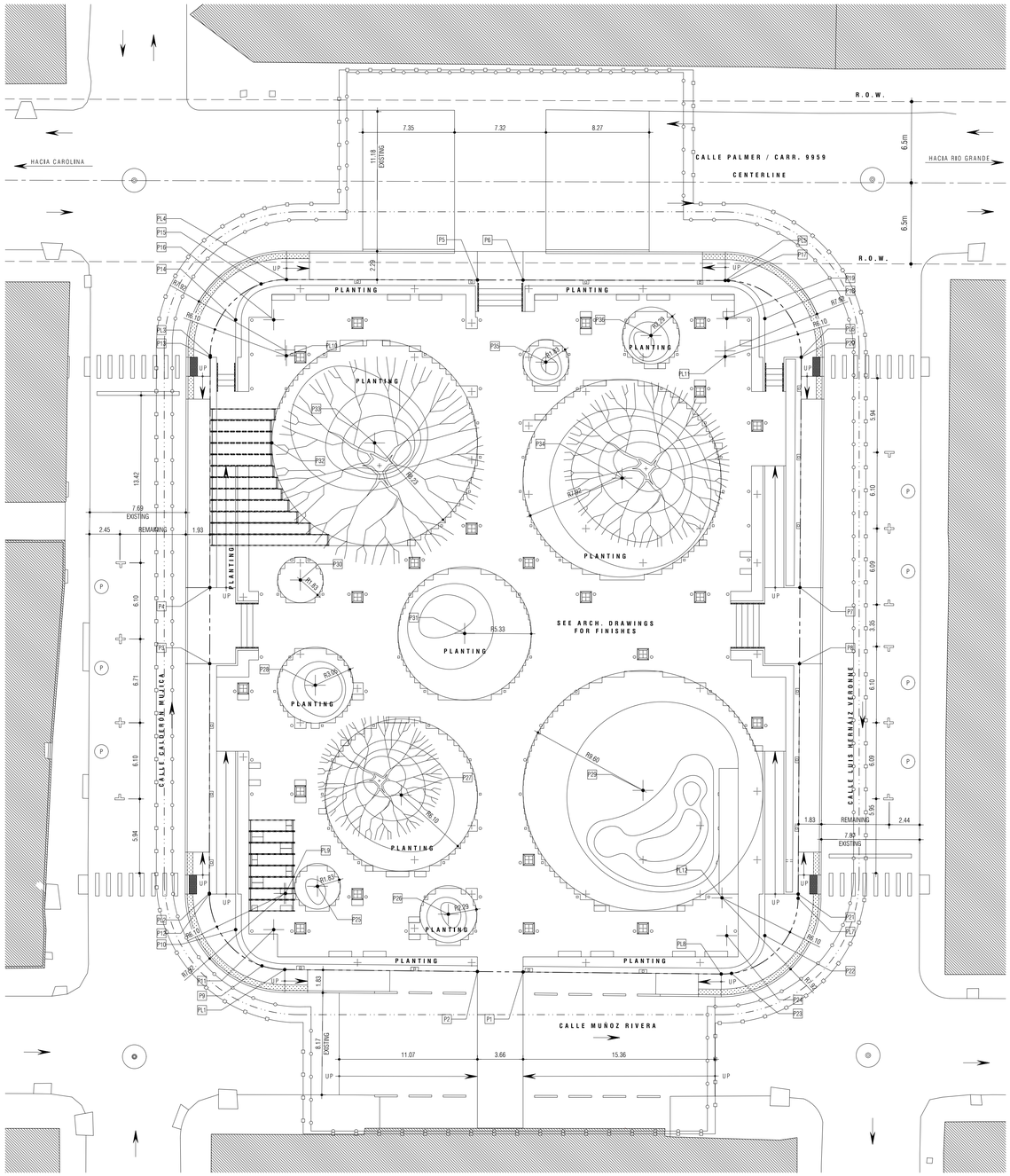
CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
4	jmb	05.ii.2024

DISCIPLINE

GDN-1.0



Geometry Site Plan

SCALE : 1 = 200

LEGEND

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- PROPOSED TREE
- DIRECTION OF TRAVEL
- EXISTING PARKING TO REMAIN

COORDINATES			
POINT	NORTH	EAST	DESCRIPTION
PL1	260455.9251	255621.4083	PROPERTY LINE
PL2	260458.6276	255613.2604	PROPERTY LINE
PL3	260497.0252	255593.7859	PROPERTY LINE
PL4	260505.2204	255596.4675	PROPERTY LINE
PL5	260521.0967	255627.8029	PROPERTY LINE
PL6	260518.3936	255636.0062	PROPERTY LINE
PL7	260479.6630	255655.4475	PROPERTY LINE
PL8	260471.4683	255652.7105	PROPERTY LINE
PL9	260461.3850	255618.6971	RADIUS CENTER
PL10	260499.7826	255599.2227	RADIUS CENTER
PL11	260515.6588	255630.5581	RADIUS CENTER
PL12	260476.9283	255649.9993	RADIUS CENTER
P1	260464.4131	255638.5021	PLAZA ENTRY
P2	260462.7863	255635.2260	PLAZA ENTRY
P3	260475.0231	255604.9449	PLAZA ENTRY
P4	260480.4598	255602.1875	PLAZA ENTRY
P5	260512.1275	255610.1001	PLAZA ENTRY
P6	260513.7805	255613.3628	PLAZA ENTRY
P7	260501.8978	255644.2865	PLAZA ENTRY
P8	260496.4496	255647.0213	PLAZA ENTRY
P9	260455.363878	255619.649498	PERIMETER
P10	260456.991327	255616.457189	PERIMETER
P11	260458.37445	255619.173303	PERIMETER RADIUS CENTER
P12	260458.577114	255613.286297	PERIMETER
P13	260496.905961	255593.846399	PERIMETER
P14	260500.50231	255594.30015	PERIMETER
P15	260503.988308	255594.80986	PERIMETER
P16	260501.885433	255597.016264	PERIMETER RADIUS CENTER
P17	260521.205375	255628.028833	PERIMETER
P18	260519.815228	255632.00957	PERIMETER
P19	260518.432105	255629.293456	PERIMETER RADIUS CENTER
P20	260518.378748	255636.013678	PERIMETER
P21	260479.968672	255655.294061	PERIMETER
P22	260475.790215	255654.428368	PERIMETER
P23	260471.885933	255653.425164	PERIMETER
P24	260474.407092	255651.712254	PERIMETER RADIUS CENTER
P25	260463.059279	255620.721159	PLANTING AREA RADIUS CENTER
P26	260465.823408	255631.070595	PLANTING AREA RADIUS CENTER
P27	260472.611269	255623.38198	PLANTING AREA RADIUS CENTER
P28	260477.325999	255613.258809	PLANTING AREA RADIUS CENTER
P29	260481.740833	255640.483879	PLANTING AREA RADIUS CENTER
P30	260484.292036	255608.369633	PLANTING AREA RADIUS CENTER
P31	260486.444515	255622.031784	PLANTING AREA RADIUS CENTER
P32	260493.032703	255601.353305	PLANTING AREA RADIUS CENTER
P33	260496.767135	255608.686813	PLANTING AREA RADIUS CENTER
P34	260503.245029	255627.620941	PLANTING AREA RADIUS CENTER
P35	260508.759363	255617.969614	PLANTING AREA RADIUS CENTER
P36	260514.46999	255624.506208	PLANTING AREA RADIUS CENTER

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS		
1	05/x.17	Explanation
REV. #	DATE	ISSUING REASON

PROFESSIONAL SEAL

julián manríquez botello puerto rico

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PROJECT TIES & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

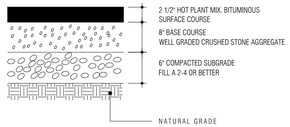
DWG. TITLE

Geometry Site Plan

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

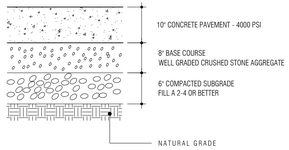
PROJECT #: 22-01
PROJECT PHASE: Construction Docs - 90%
SHEET #: 6
DRAWN BY: jmb
DATE: 10.v.2023
DISCIPLINE

C-1.0



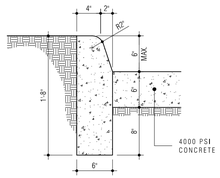
Heavy Duty Asphalt Pavement Detail 1

NOT TO SCALE C-3.0



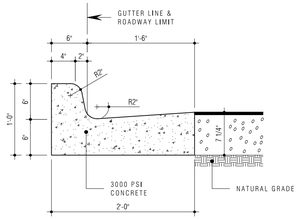
Heavy Duty Concrete Pavement Detail 2

NOT TO SCALE C-3.0



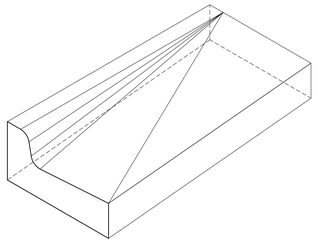
Standard Curb 3

SCALE : 1" = 1'-0" C-3.0



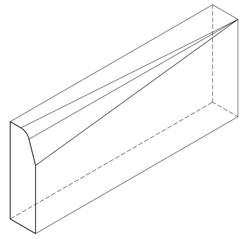
Curb Type 1 4

SCALE : 1" = 1'-0" C-3.0



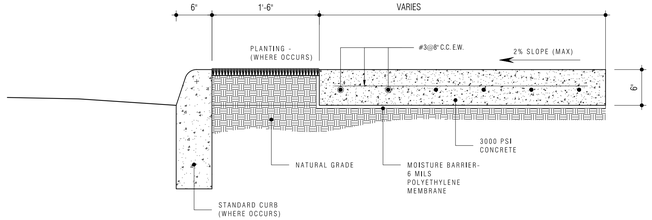
Curb Type 1 - Transition 5

NOT TO SCALE C-3.0



Curb Type 1 - Transition 6

NOT TO SCALE C-3.0



Concrete Sidewalk Detail 7

SCALE : 1" = 1'-0" C-3.0

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

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4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. MAY. OCCC III
EXP. 19.X.2029

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

Y O
PUERTO RICO BUILDING AUTHORITY
CERTIFICACIÓN NÚM. 2015-0000
SEGÚN ENMENDADO Y PUESTO EN VIGOR,
PLANOS Y LAS ESPECIFICACIONES COMPLEMENTA-
RIAS, SOMETIDOS PARA LA CONSIDERACIÓN DE ESTA
PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-
CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES
PÚBLICAS C O N
QUE SE HA
E S T A B L E
CIDO EN LA
LEY NÚM. 130
DE 8 DE MAYO
DE 1974,
ENMENDADA
POR LA LEY
NÚM. 75 DE
24 DE JUNIO
DE 1975,
SEGÚN LA
CITA PODER-
OSA DE LA
PUERTO RICO
BUILDING AU-
THORITY,
ESTA CERTIFICA
QUE LOS
PLANOS Y
ESPECIFICA-
CIONES
CUMPLEN CON
LAS DISPOSI-
CIONES
APLICABLES
DE LOS
REGLAMENTOS
Y CÓDIGOS
VIGENTES.
E S T E
P R O Y E C T O
REQUIERE Y CUM-
PLE CON LA
DISPOSICIÓN
DE LA LEY
NÚM. 96 DE
29 DE JUNIO
DE 1988,
SEGÚN
ENMENDADA,
POR MEDIO
DE LA CUAL
SE CREA LA
JUNTA
REGLAMEN-
TADORA DE
CONSTRUC-
CIÓN, PARA
REGULAR EL
EJERCICIO
DE LA
INGENIERÍA Y
LA ARQUITEC-
TURA.
P O R
TANTO,
P O R=
THIS PROJECT HAS BEEN APPROVED BY
THE PUERTO RICO BUILDING AUTHORITY
CERTIFICATION NUMBER 2015-0000
AND IN FORCE, THE PLANS AND
SPECIFICATIONS COMPLEMENTARY
SUBMITTED FOR CONSIDERATION OF
THIS AUTHORITY, COMPLY WITH THE
APPLICABLE REGULATIONS AND CODES
IN FORCE OF THE AGENCIES, BOARDS
OR PUBLIC CORPORATIONS
ESTABLISHED BY LAW NO. 130 OF MAY
8, 1974, AS AMENDED BY LAW NO. 75
OF JUNE 24, 1975, ACCORDING TO
THE CITED POWER OF THE PUERTO
RICO BUILDING AUTHORITY, THIS
CERTIFIES THAT THE PLANS AND
SPECIFICATIONS COMPLY WITH THE
APPLICABLE REGULATIONS AND CODES
IN FORCE.
THIS PROJECT REQUIRES AND COMPLIES
WITH LAW NO. 96 OF JUNE 29, 1988,
AS AMENDED, BY WHICH THE
REGULATORY BOARD OF
CONSTRUCTION, ENGINEERING
AND ITS CONCEPTS ARE
REGULATED.
P O R
TANTO,
P O R=

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6177 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TEE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

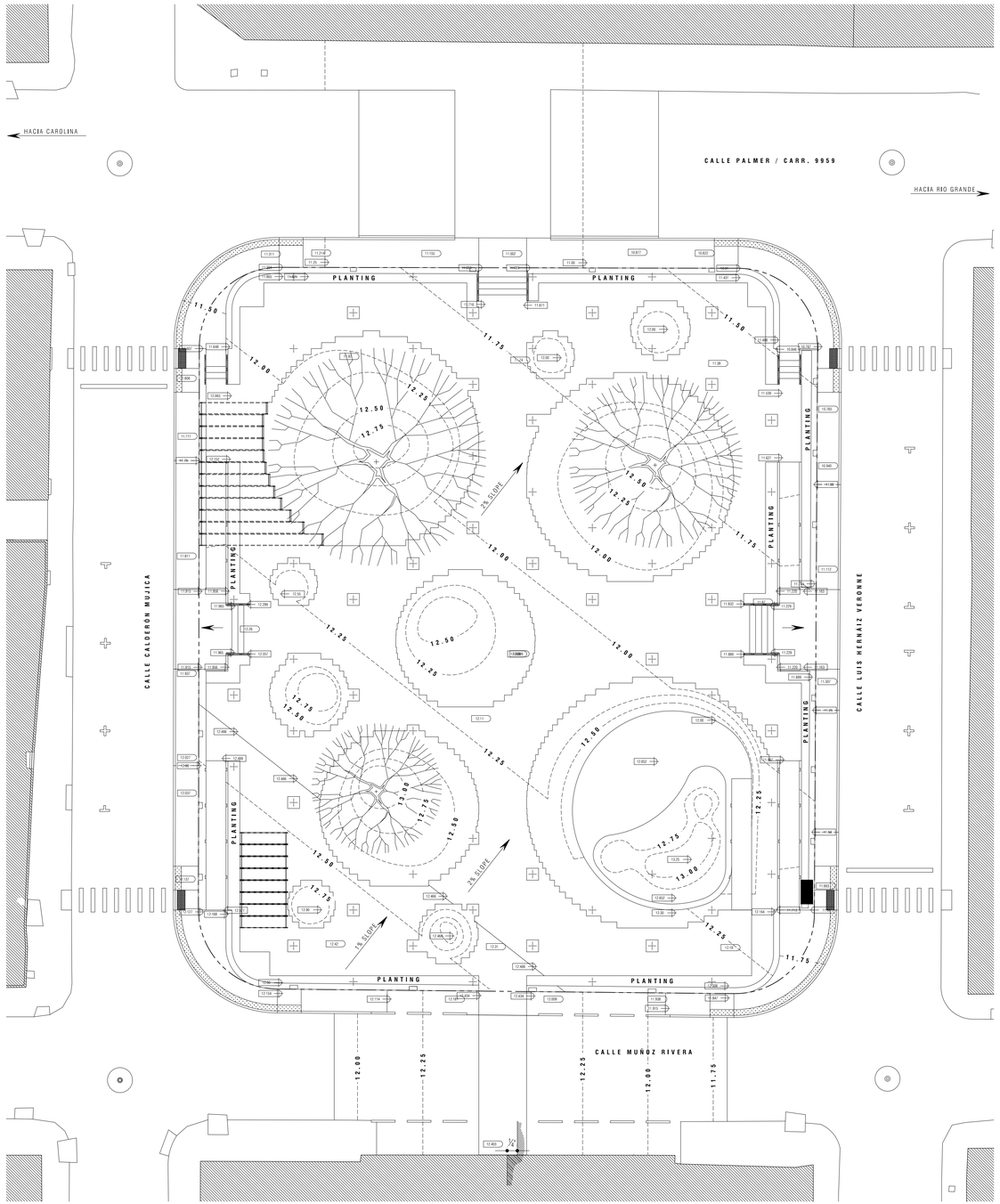
Civil Notes & Details

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 6
DRAWN BY jmb
DATE 05.ii.2024

DISCIPLINE

C-1.1



Legend

XX%	SLOPE
	RUNOFF FLOW
000.00'	EXISTING SPOT ELEVATION
000.00'	PROPOSED SPOT ELEVATION
XX.XX	CONTOUR
	PROPERTY LINE

Grading Site Plan

SCALE : 1/16" = 1'-0"

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico
LIC. MAX DCCC 19
EXP. 19.X.2025

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

Y O
PLANES Y ESPECIFICACIONES DE CONSTRUCCIÓN
SELLO DIGITAL
ESTE DOCUMENTO COMPRENDE O PREPARÓ ESTOS PLANES Y LAS ESPECIFICACIONES COMPLEMENTARIAS, BAJO LA DIRECCIÓN DE UN ARQUITECTO O INGENIERO, PLANES Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS
C O N
J U R I S D I C C I O N
CONOCE SU ON
LA CUAL LA
T A L E S
COMO LA "LEY
STIM FUNCIO-
JOLAR DE 1979,
LEY NÚMERO
HAYA PROBLEM-
DENSIDAD YA SEA
ESTRUCTURAL
CORPORACIONES
P O R L A
THE INTEL-
L I C E N S E
A N D
INTER-
PLAN
P O R
JURISDICCIÓN DE LOS CÓDIGOS DE CONSTRUCCIÓN
SELLO DIGITAL
CERTIFICO: QUE EN LA REDACCIÓN DE ESTOS PLANES Y ESPECIFICACIONES CUMPLIÓ CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LA LEY NÚMERO 135 DEL 8 DE DICIEMBRE DE 1970, ENMENDADA, POR EL REGLAMENTO DE PLANIFICACIÓN NÚMERO 4 DEL 23 DE JULIO DE 1975, ENMENDADO, JURISDICCIÓN DE LOS CÓDIGOS DE CONSTRUCCIÓN
S U E L O
P A R A L A
REGLEMENT Y CON LA
SIGNIFICANCE
DE PAR DESIGNA-
POR MI; MIS AGENTES
O EMPLEADOS, O POR
MI CALCULARE ESTOS
DOCS. THIS DRAWING
LETTING PROPERTY OF
SHALL BE USED AS A
REFERENCE ONLY AND
MENT ONLY BY NATIVA-
SERVICES AND FOR THE
PROJECT NAMED HEREIN. PARTIES OTHER THAN THE OWNER OR
USE OF SAID DOCUMENT ON THE PROPERTIES CONTAINED
HEREIN IS STRICTLY PROHIBITED WITHOUT THE WRITTEN
CONSENT AND SHALL BE RETURNED TO
IN.FORMATION STUDIO.

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Carolina, PR, 00979 - Office Tel. +1 (787) 256-0630
e-mail: info@informationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Proposed Grading Plan

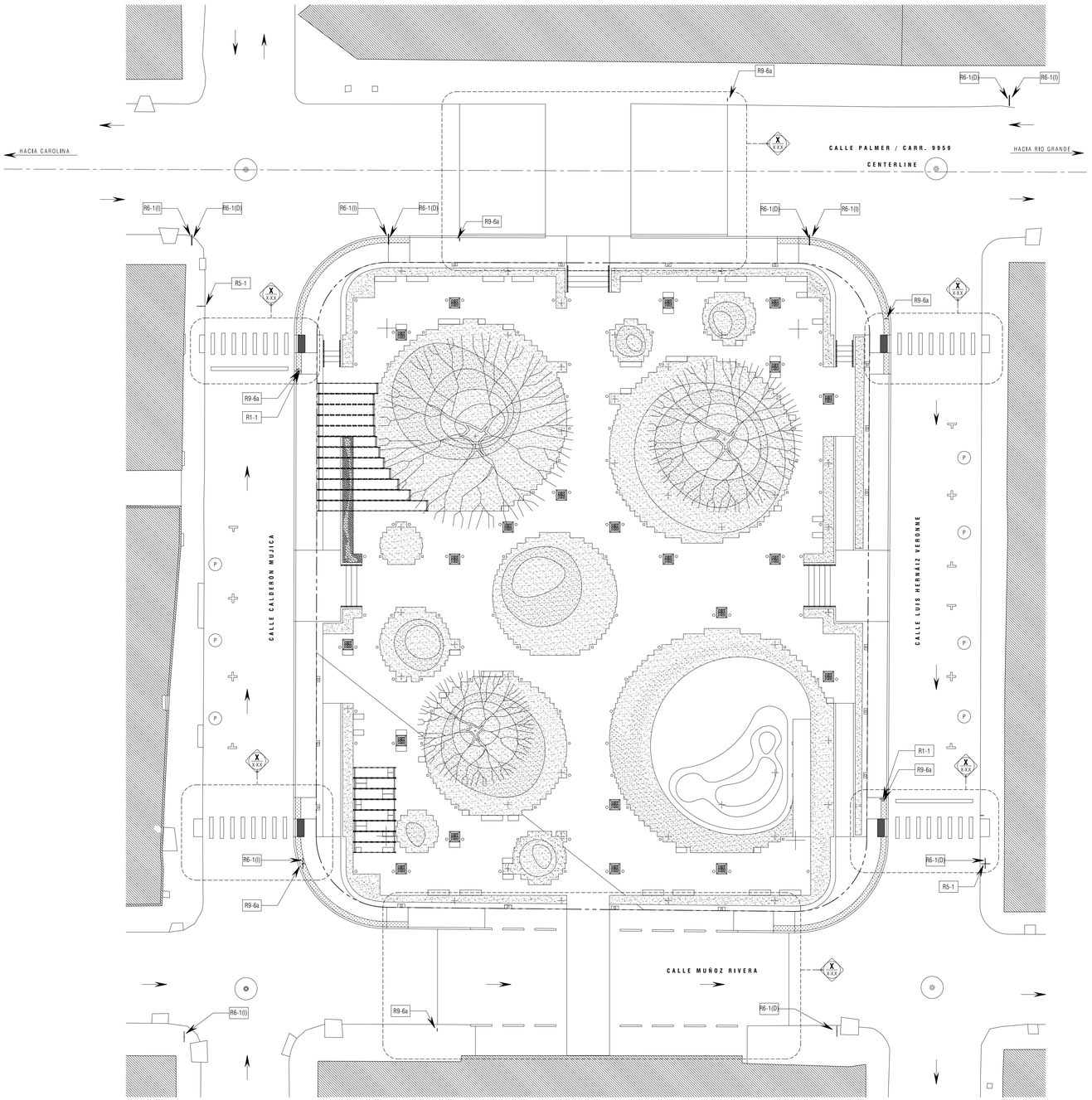
CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
6	jmb	05.ii.2024

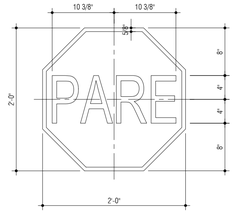
DISCIPLINE

C-2.0



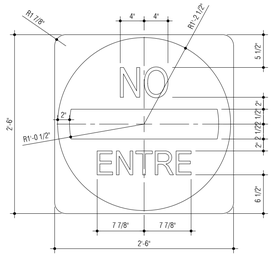
Traffic Control Plan

SCALE : 1 = 200



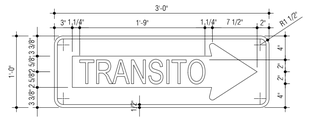
R1-1 (Minimo)

SCALE : 1" = 1'-0"



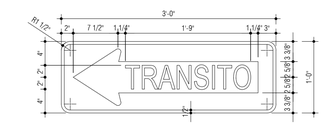
R5-1 (Normal)

SCALE : 1" = 1'-0"



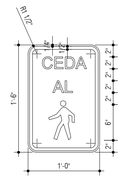
R6-1 (D)

SCALE : 1" = 1'-0"



R6-1 (I)

SCALE : 1" = 1'-0"



R9-6a (PR)

SCALE : 1" = 1'-0"

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez boteello puerto rico
LIC. MAX DCCC III
EXP. 19.X.2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

[illegible]

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landscape . architecture . product

6177 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Traffic Control Plan

REVISION

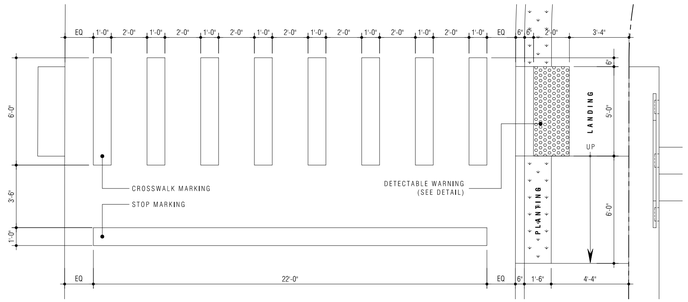
CLIENT

Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
-	krs / 05.ii.2024

DISCIPLINE

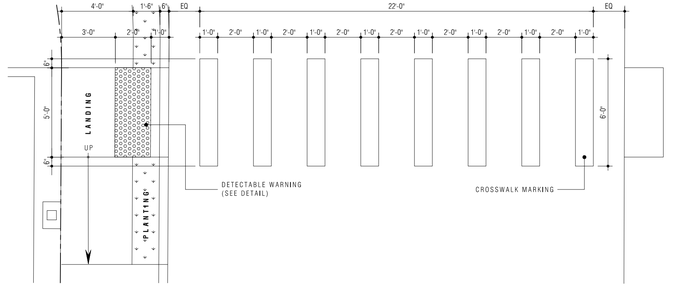
C-3.0



Blow-Up Plan

SCALE : $\frac{1}{4}$" = 1'0"

A
C-3.1



Blow-Up Plan

SCALE : $\frac{1}{4}$" = 1'0"

A
C-3.1

Blow-Up Plan

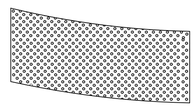
SCALE : $\frac{1}{4}$" = 1'0"

A
C-3.1

Blow-Up Plan

SCALE : $\frac{1}{4}$" = 1'0"

A
C-3.1



DETECTABLE WARNING FIELD 1

SCALE : 1-1/2" = 1'-0"

AS-1.0

TRUNCATED DOME 1

SCALE : 1-1/2" = 1'-0"

AS-1.0

Blow-Up Plan

SCALE : $\frac{1}{4}$" = 1'0"

A
C-3.1

LEGEND

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- PROPOSED TREE
- DIRECTION OF TRAVEL

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MAX 0CCC III
EXP. 1-9-X-2025

CERTIFICACIÓN - COTEJANTE - FIRM NAME

CERTIFICACIÓN NÚM. / CERTIFICATION NUMBER
ESTAMPILLA / STAMP
SRA. / SR. / DRA. / DR. / LCDO. / LCDA. / ARQ. / ARQA. / ING. / INGA. / PLANIF. / PLANIFA. / TOPÓGRAFO / TOPÓGRAFA / AGRIM. / AGRIMA. / LCDO. / LCDA. / DR. / DRA. / ARQ. / ARQA. / ING. / INGA. / PLANIF. / PLANIFA. / TOPÓGRAFO / TOPÓGRAFA / AGRIM. / AGRIMA.
DISPONIENDO APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS QUE TENGAN JURISDICCIÓN SOBRE LA OBRA.
CERTIFICACIÓN, CERTIFICO, HACEMOS CONSTAR Y HACEN CONSTAR QUE LOS NÚMEROS DE SEL O DE COLEGIADO(A) DE LOS PROFESIONALES QUE FIRMAN ESTE PLANO SE ENCUENTRAN VIGENTES.
DECLARO Y HACEMOS DECLARACIÓN JURADA QUE LOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NÚM. 173 DE 12 DE AGOSTO DE 1988, SEGÚN ENMENDADA, Y EL REGLAMENTO CONJUNTO PARA PERMISOS DE CONSTRUCCIÓN Y USO DE TERRENOS VIGENTE.
DECLARO Y HACEMOS DECLARACIÓN JURADA QUE NO TENGO (TENEMOS) NINGÚN CONFLICTO DE INTERÉS SEGÚN DISPUESTO POR LA LEY NÚM. 1 DE 3 DE ENERO DE 2012, SEGÚN ENMENDADA, POR LA LEY NÚM. 84 DE 26 DE JUNIO DE 2018, SEGÚN ENMENDADA, Y LA LEY NÚM. 2 DE 4 DE ENERO DE 2018, SEGÚN ENMENDADA, POR LA LEY NÚM. 9 DE 24 DE JULIO DE 2019, SEGÚN ENMENDADA, Y LA LEY NÚM. 107 DE 14 DE AGOSTO DE 2020



Maintenance of Traffic (MOT) Plan

SCALE : 1 = 500

Notes:

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REVISIONS		
1	05.iv.17	Explanation
REV. #	DATE	ISSUING REASON

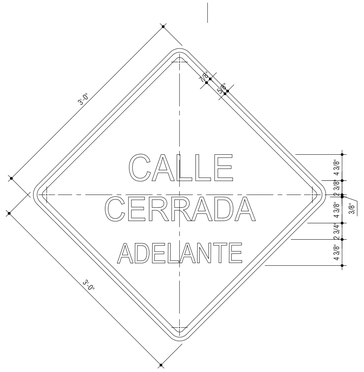
PROFESSIONAL SEAL

julián manriquez botello puerto rico

LIC. MAY. DCCC 11 EXP. 19 X 2025

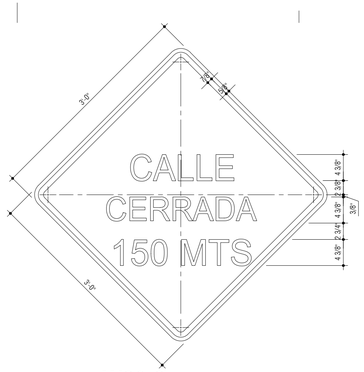
CERTIFICACIÓN - COPYRIGHTS + FIRM NAME

[illegible] CONSTRUCCIÓN Y PUESTA EN USO. PLANOS Y LAS ESPECIFICACIONES COMPLEMENTAN- DICIONES ESTABLECIDAS EN LOS REGLAMENTOS Y CÓDIGOS DE CONSTRU- CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS [illegible] [illegible] [illegible]



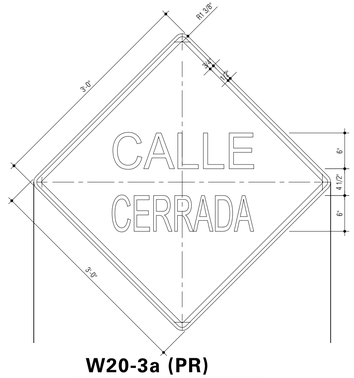
W20-3

SCALE : 1" = 1'-0"



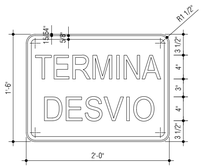
W20-3

SCALE : 1" = 1'-0"



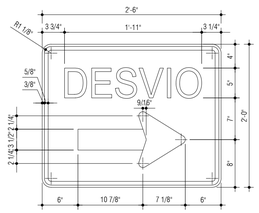
W20-3a (PR)

SCALE : 1" = 1'-0"



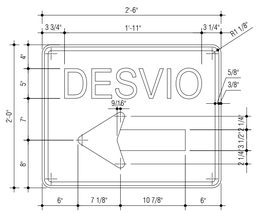
M4-8a

SCALE : 1" = 1'-0"



M4-9 (D)

SCALE : 1" = 1'-0"



M4-9 (I)

SCALE : 1" = 1'-0"

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REVISIONS

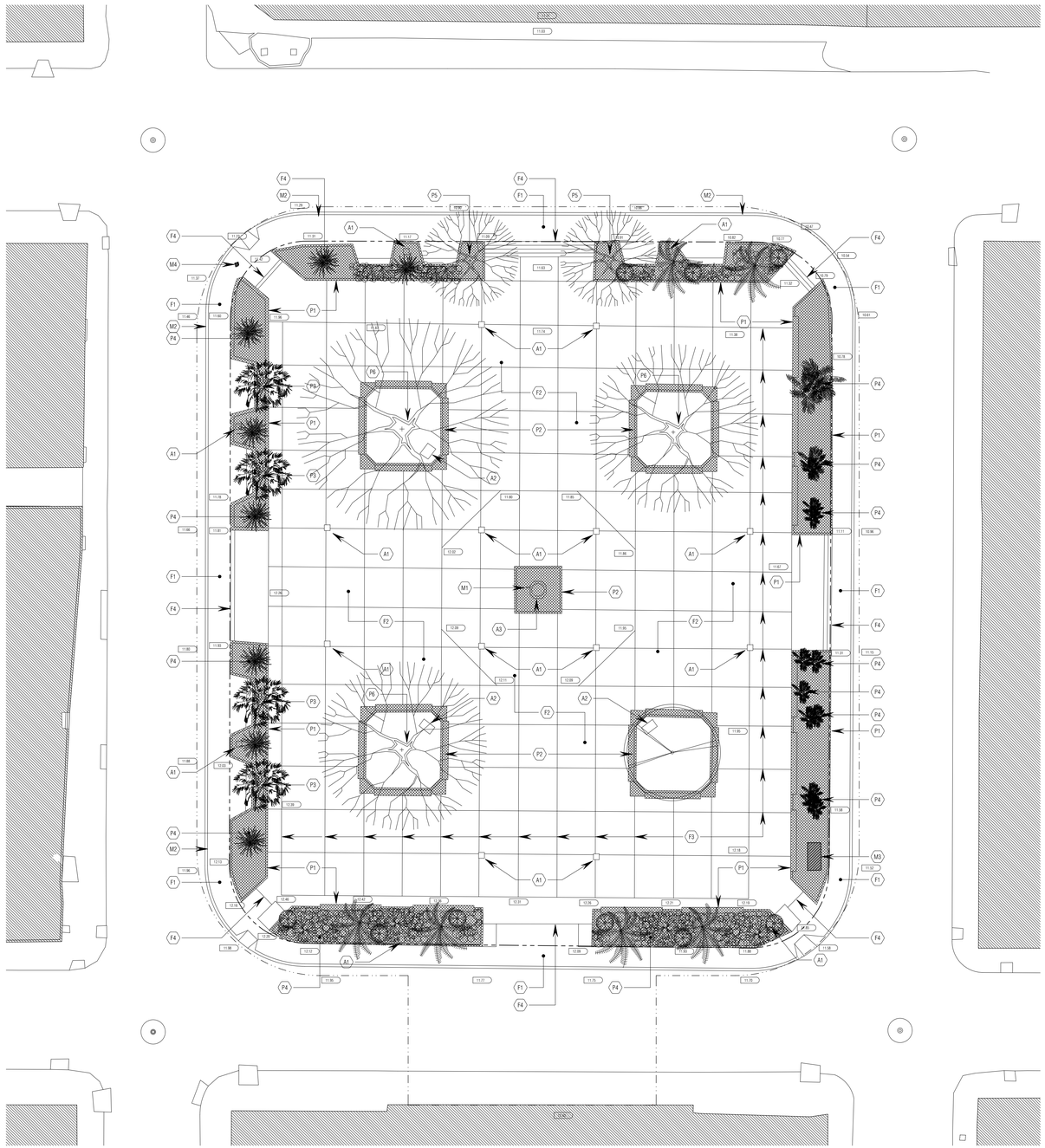
REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL



CERTIFICACIÓN - COPYRIGHTS + FIRM NAME

Y O
PODRÁN UTILIZARSE BAJO AUTORIZACIÓN
ESCRITA DE
ESTE DISEÑO. ESPECIFICADO Y PREPARADO ESTOS
PLANOS Y LAS ESPECIFICACIONES COMPLEMENTA-
RIAS CUMPLEN CABALMENTE CON LAS DISPOSICIONES
PLASMADAS Y ESPECIFICADAS EN LOS LA-
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUC-
CION VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES
PUBLICAS
Q U E
S E H A
C O N S
J U R I S D I C C I O N .
CERTIFICO:
CUMPLIDO CABALMENTE
CON LAS DISPOSICIONES
APLICABLES DE LOS
REGLAMENTOS Y CODIGOS
VIGENTES EN LA JURIS-
DICCION DE LA AGENCIA
CORRESPONDIENTE.
ESTOS PLANOS Y ESPECIFI-
CACIONES CABALMENTE
CUMPLEN CON LAS DISPO-
SICIONES APLICABLES
DE LA LEY NUMERO
CONSTRUCCION Y LOTIFI-
CACION DE TERRENOS
DE 1975



Existing & Demolition Plan

SCALE : 1/16" = 1'-0"

LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- WALL/OPENINGS TO BE DEMOLISHED
- STRUCTURAL/REINFORCED CONCRETE WALL
- CONCRETE BLOCK WALL
- GWB. PARTITION
- ELEMENTS TO BE REMOVED
- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- EXISTING TREE - CUT & DISPOSE

Demolition Keynotes

Accessories/Miscellaneous

- A1 REMOVE AND DISPOSE OF EXISTING LIGHT POST.
- A2 REMOVE AND DISPOSE OF BRASS PLAQUES.
- A3 REMOVE & RELOCATE CANOVANAX SCULPTURE.

Floor

- F1 REMOVE AND DISPOSE OF EXISTING SIDEWALK SLAB.
- F2 REMOVE AND DISPOSE OF EXISTING CONCRETE PAVEMENT.
- F3 REMOVE AND DISPOSE OF EXISTING BRASS JOINTS.
- F4 REMOVE AND DISPOSE OF EXISTING CONCRETE STAIRS AND RAMPS.
- F5 REMOVE AND DISPOSE OF EXISTING.

Elcrrical/Mechanical/Plumbing

- M1 REMOVE & RELOCATE HOSEBIB.
- M2 REMOVE ELECTRICAL POLE & BURY ALL ELECTRICAL LINES.
- M3 REMOVE AND DISPOSE OF EXISTING CONCRETE STRUCTURE & ELECTRICAL PANEL
- M4 EXISTING HYDRANT TO BE RELOCATED

Planters/Partitions/Walls

- P1 REMOVE AND DISPOSE OF EXISTING PLANTER AND RELATED ITEMS.
- P2 REMOVE AND DISPOSE OF EXISTING PLANTER AND RELATED ITEMS.
- P3 REMOVE AND PREPARE TREE/PLAM TREE TO BE RELOCATED.
- P4 REMOVE AND DISPOSE OF PLANT MATERIAL; BUSHES AND PALM TREES.
- P5 EXISTING TREE TO BE RELOCATED
- P6 EXISTING TREE TO REMAIN -

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. NÚM. 19,XXX
EXP. 19.X.2025

CERTIFICACIÓN - CUATRIMESTRE + FIRMA MANRIQUEZ

SEAL

CERTIFICACIÓN: ESPECIFICACIONES COMPLEMENTARIAS
PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS
PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-
CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES
PÚBLICAS C O N JURISDICCIÓN, CERTIFICO:
QUE LOS PLANOS Y ESPECIFICACIONES
CUMPLEN CABALMENTE
CON LAS DISPOSICIONES
APLICABLES DE LA LEY
NÚMERO 9 DE 24 DE JUNIO DE 1970, SEGÚN ENMENDADA, Y LOS REGLAMENTOS PROMULGADOS POR MÍ, BAJO MI SUPERVISIÓN Y CON LA DILIGENCIA DEBIDA.
ESTOS PLANOS Y ESPECIFICACIONES
SON PARA DISEÑADOS, ELABORADOS O EMITIDOS POR MÍ O BAJO MI SUPERVISIÓN Y CONTROL DIRECTO.
ESTOS PLANOS Y ESPECIFICACIONES
CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LA LEY NÚMERO 9 DE 24 DE JUNIO DE 1970, SEGÚN ENMENDADA, Y LOS REGLAMENTOS PROMULGADOS POR MÍ, BAJO MI SUPERVISIÓN Y CON LA DILIGENCIA DEBIDA.
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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Existing & Demolition Plan

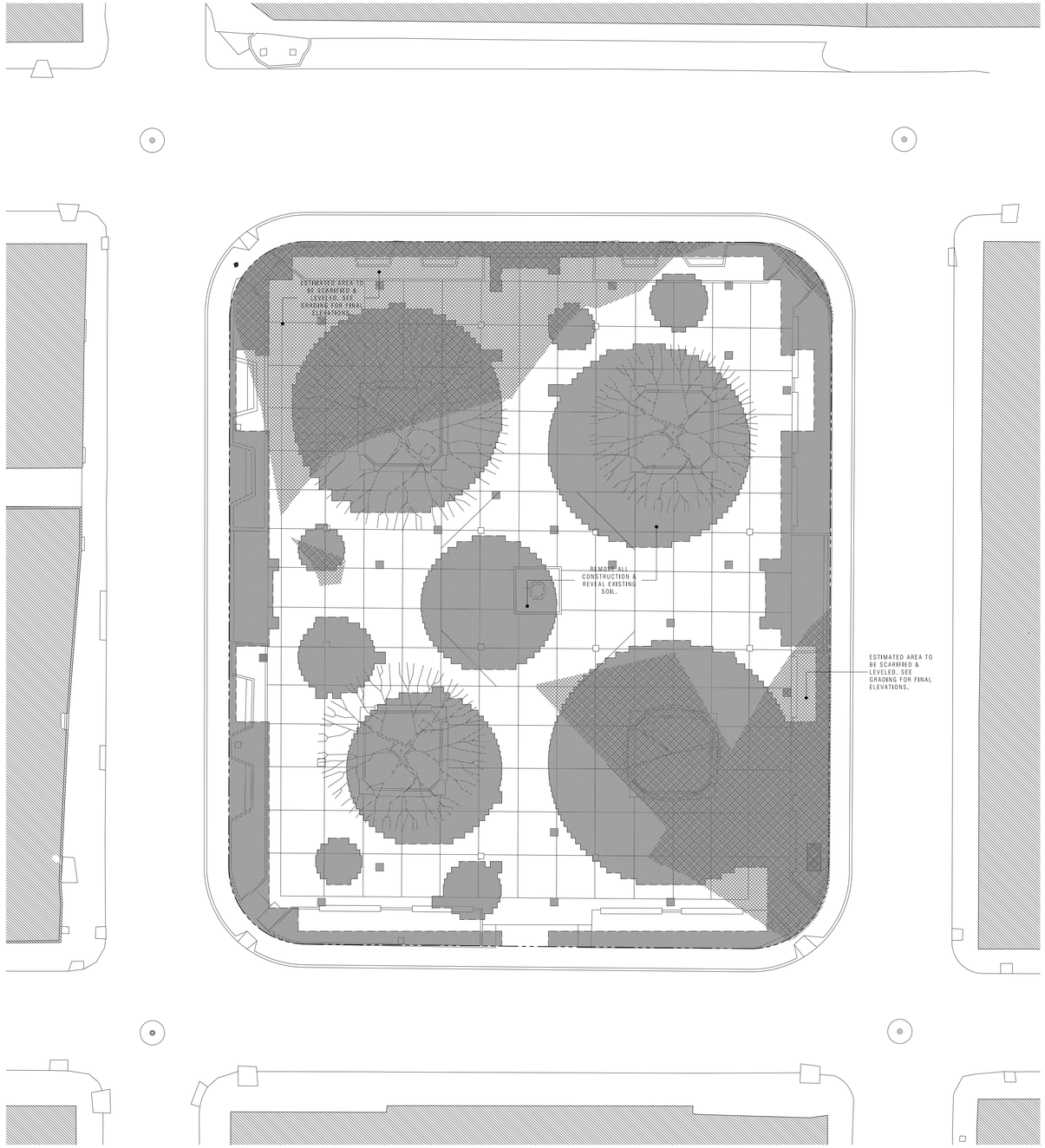
CLIENT

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
5	jmb / 05.ii.2024

DISCIPLINE

ED-1.0



Existing & Demolition Plan

SCALE : 1/16" = 1'-0"

LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- WALL/OPENINGS TO BE DEMOLISHED
- STRUCTURAL/REINFORCED CONCRETE WALL
- CONCRETE BLOCK WALL
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- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
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- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- EXISTING TREE - CUT & DISPOSE

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REVISIONS:

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL:

julián manriquez botello puerto rico

LIC. MAS 00CCIII
EXP. 19 X 2025

CERTIFICACIÓN - CUTTYNOTE + NEW NAME:

SEL.
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-
CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES
PÚBLICAS
QUE TENGAN
ESTE PROYECTO
BAJO SU
JURISDICCIÓN, CERTIFICO
QUE LOS MISMOS HAN SIDO
PLANEADO Y ESPECIFICADO
CUMPLIDO CABALMENTE
CON DICHAS DISPOSICIONES
REGLAMENTOS Y CÓDIGOS
APLICABLES A POR NUESTRA
O EMPLEADOS, O POR
LOS NUEVOS DE DEL O DE
LOS TERCEROS QUE LLEVEN
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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS:

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT:

DWG. TITLE:

Existing & Demolition Plan

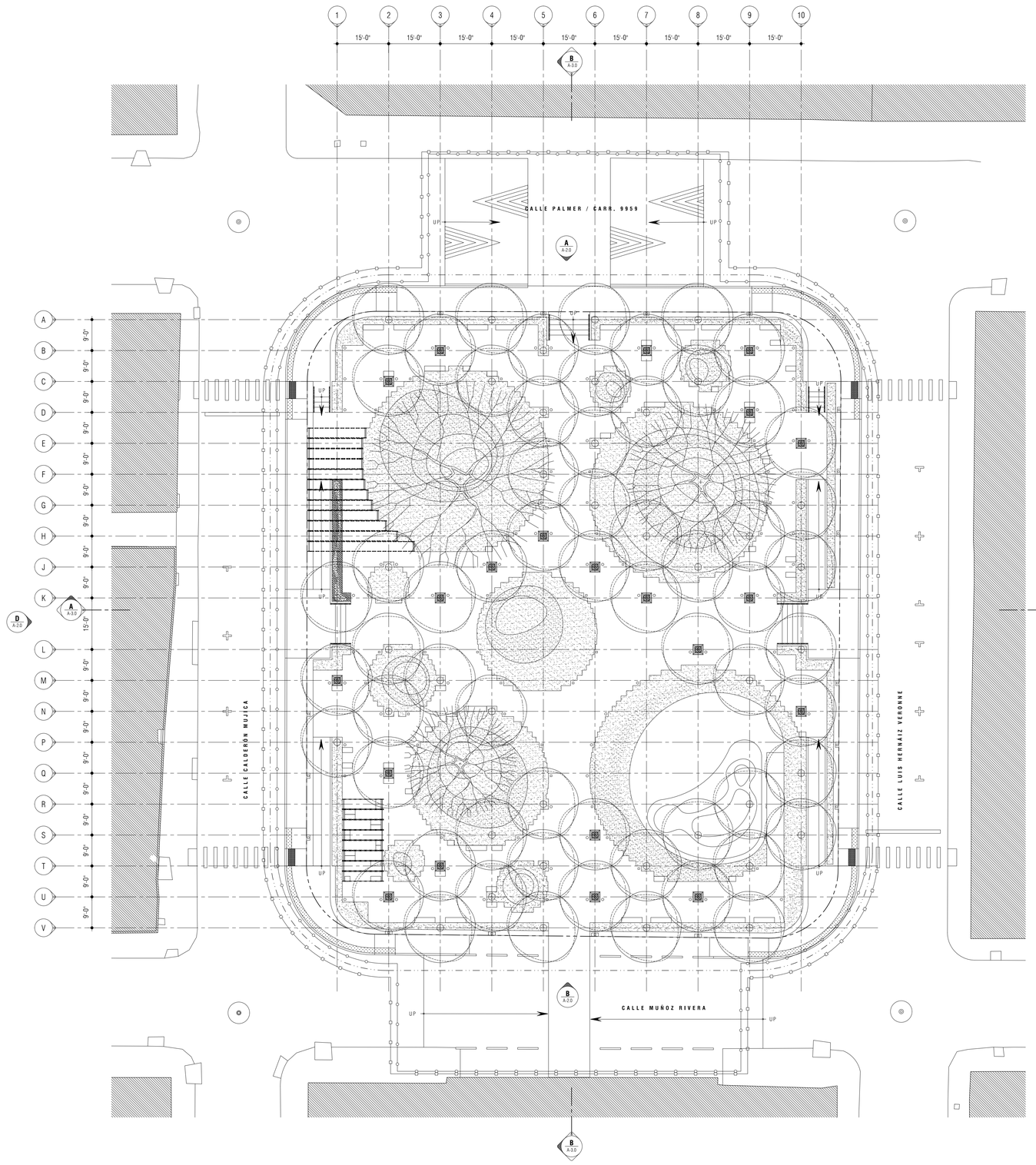
CLIENT:
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
5	jmb	05.ii.2024

DESIGN NO.

ED-1.1



Proposed Site Plan

SCALE : 1/16" = 1'-0"

LEGEND

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- PROPOSED TREE

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Proposed Site Plan

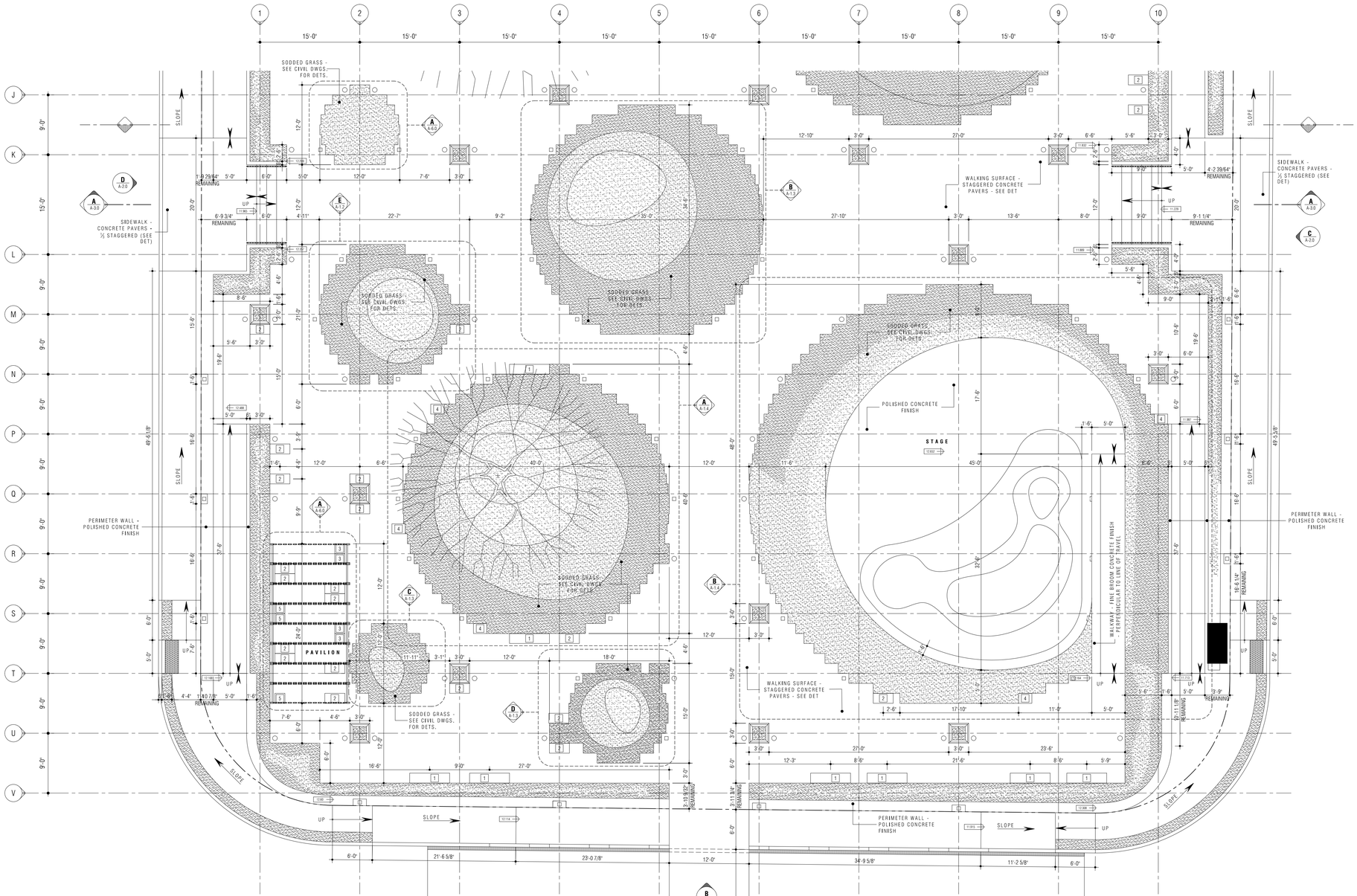
CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
6	jmb	05.ii.2024

DISCIPLINE

AS-1.0



Architectural Floor Plan A

SCALE : 1/8" = 1'-0"

A-1.0

Finishes & Equipment

F1	WHITE CEMENT PRECAST CONCRETE PLANKS - EXPOSED AGGREGATE
F2	GRAY CEMENT PRECAST CONCRETE PLANKS - EXPOSED AGGREGATE
F3	WHITE CEMENT - CAST IN PLACE - EXPOSED AGGREGATE
1	PRECAST CONCRETE BENCH - 6'-0"
2	PRECAST CONCRETE BENCH - 3'-0"
3	PRECAST CONCRETE BENCH - 1'-6"
4	PRECAST CONCRETE TRASH BIN - 2'-0"
5	CAST IN PLACE CONCRETE BENCH - 1'-6"

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1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

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DOCUMENTOS INSTRUMENTOS DE SERVICIO
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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Proposed Floor Plan

CLIENT

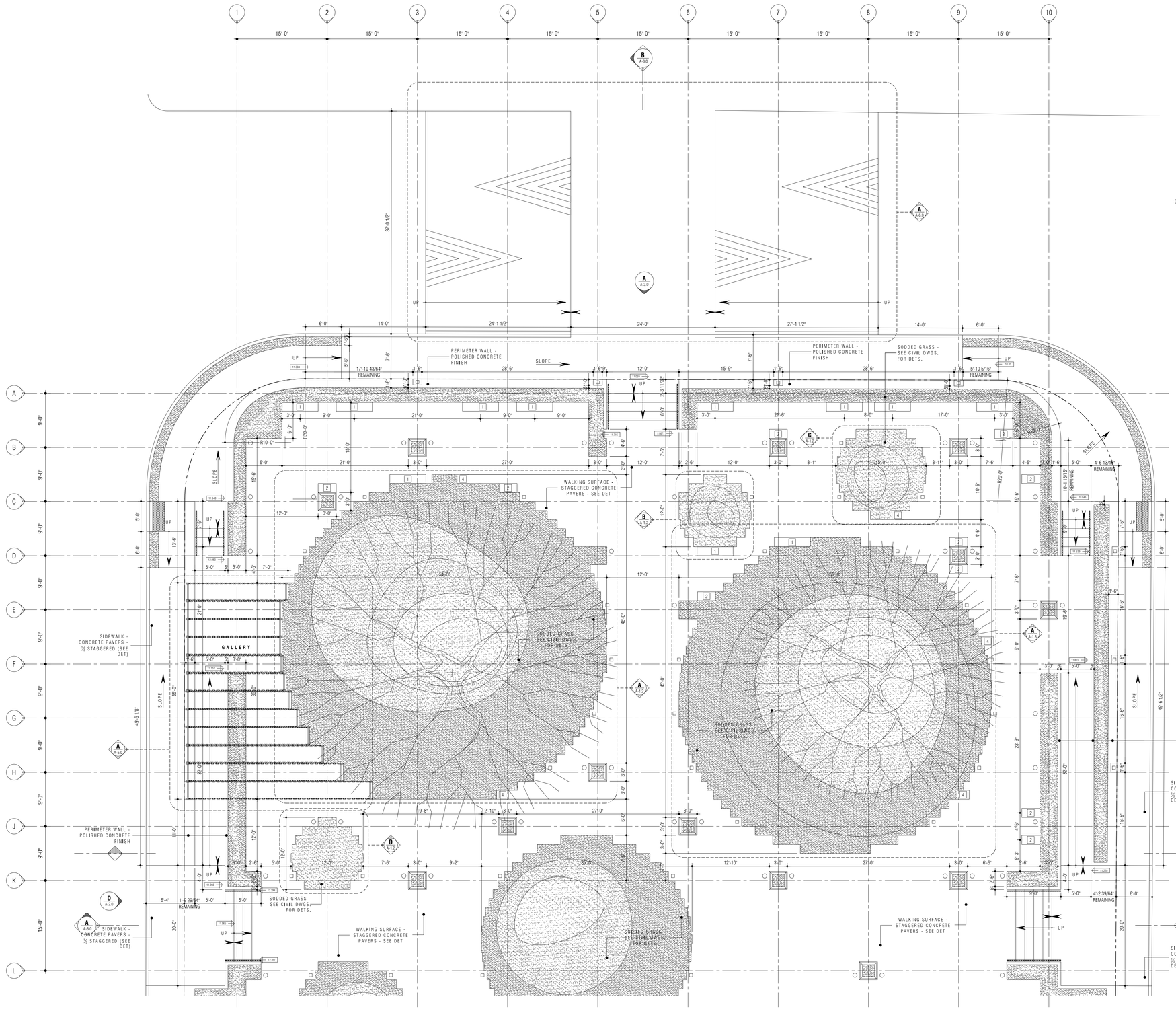
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
8	jmb	05.ii.2024

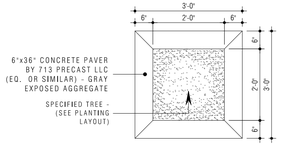
DESCIPLINE

A-1.0



Architectural Floor Plan A

SCALE : 1/16" = 1'-0" A-1.1



Tree Planter Plan B

SCALE : 1/2" = 1'-0" A-1.1

Finishes & Equipment

F1	WHITE CEMENT PRECAST CONCRETE PLANKS - EXPOSED AGGREGATE
F2	GRAY CEMENT PRECAST CONCRETE PLANKS - EXPOSED AGGREGATE
F3	WHITE CEMENT - CAST IN PLACE - EXPOSED AGGREGATE
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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez bottello puerto rico
LIC. MAX 00CE III
EXP. 19 X 2025

CERTIFICACIÓN - CUTTYHUNK - NEW NAME

Y O
PARA PROPÓSITO DE LA APLICACIÓN
DE LA
CERTIFICACIÓN: ESPECIFICADO Y PREPARE ESTOS
PLANOS Y LAS ESPECIFICACIONES COMPLEMENTAR-
MES. IAS, PARA LA CONSTRUCCIÓN DE ESTE PROYECTO.
PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-
CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES
PÚBLICAS J U R I S D I C C I O N A L E S .
C E R T I F I C O :
Q U E
L A S
P R E S E N T E S
L E Y E S
V I G E N T E S
C O M O
L A
F E C H A
D E
E S T A
C E R T I F I C A C I Ó N .
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P O R
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N O
E S T O Y
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V A R I A C I O N E S
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P L A N O S
Y
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S I N
M I
C O N S E N T I M I E N T O
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PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

Dwg. TITLE

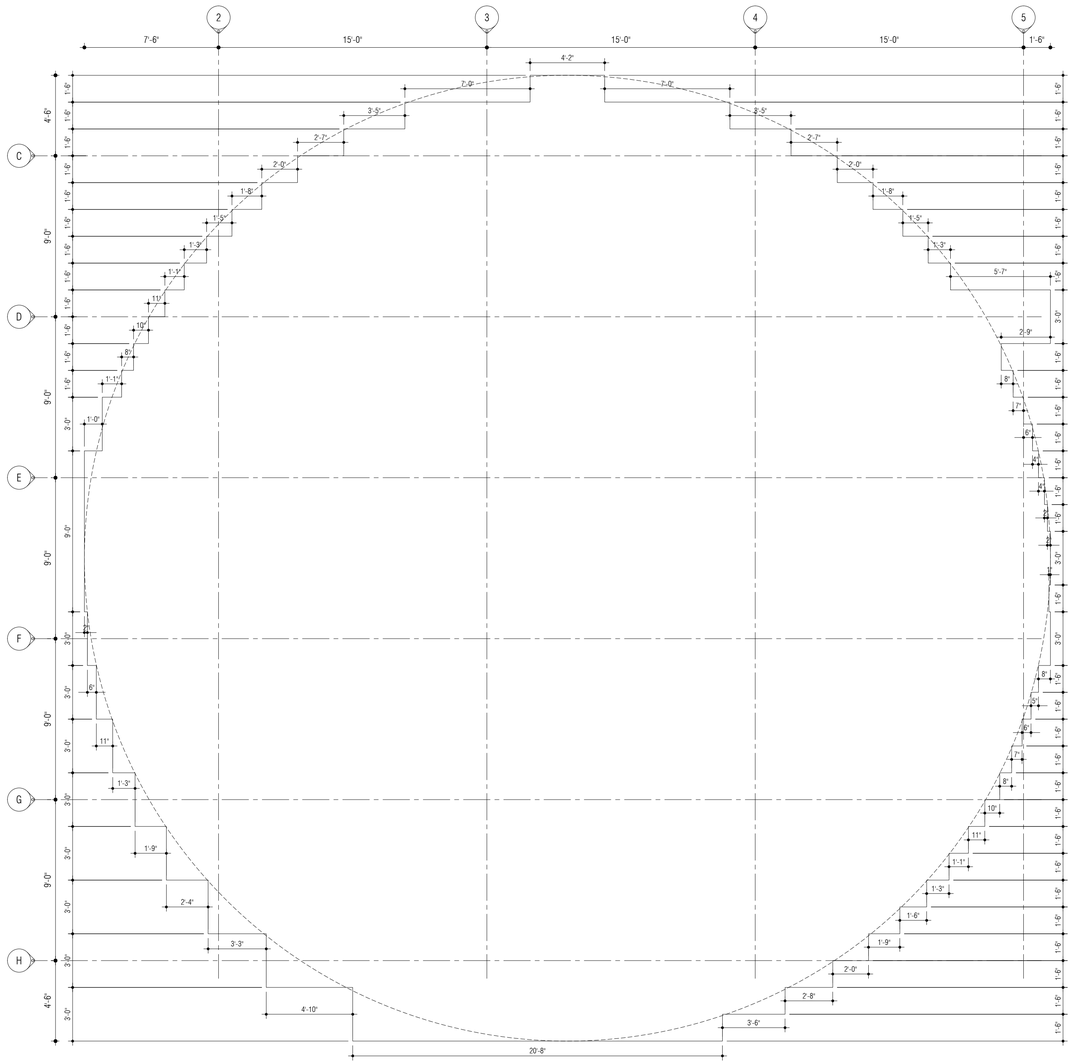
Proposed Floor Plan

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	jmb / 05.ii.2024

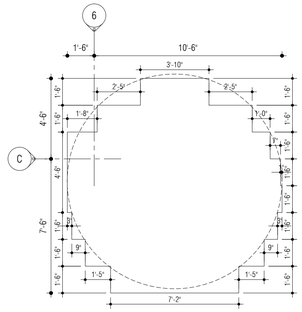
DISCIPLINE

A-1.1



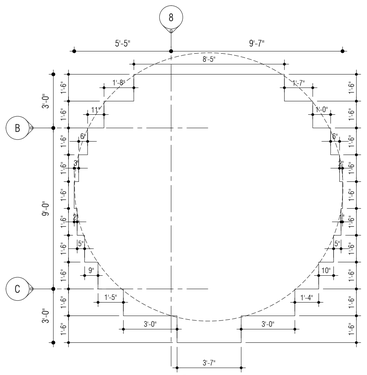
Descriptive Geometry — A

SCALE : ¼" = 1'-0" — A-1.2



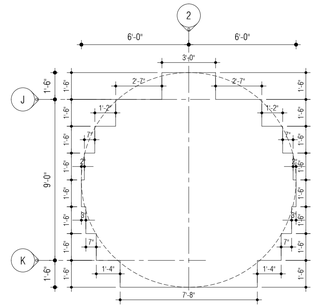
Descriptive Geometry — B

SCALE : ¼" = 1'-0" — A-1.2



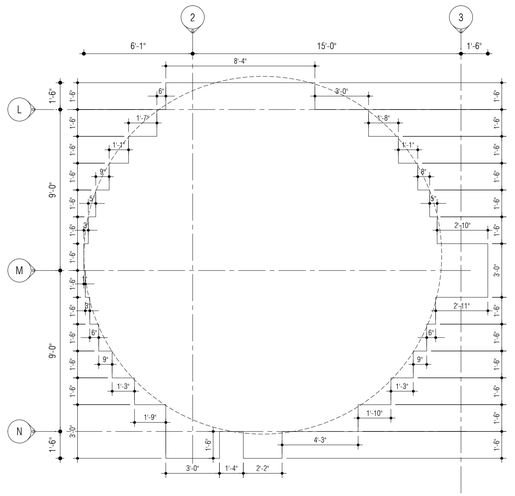
Descriptive Geometry — C

SCALE : ¼" = 1'-0" — A-1.2



Descriptive Geometry — D

SCALE : ¼" = 1'-0" — A-1.2



Descriptive Geometry — E

SCALE : ¼" = 1'-0" — A-1.2

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julián manriquez botello puerto rico — LIC. MMX 00CC III EXP. 19.X.2025

CERTIFICACIÓN - COPYRIGHTS - VIEW NAME

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñoz, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

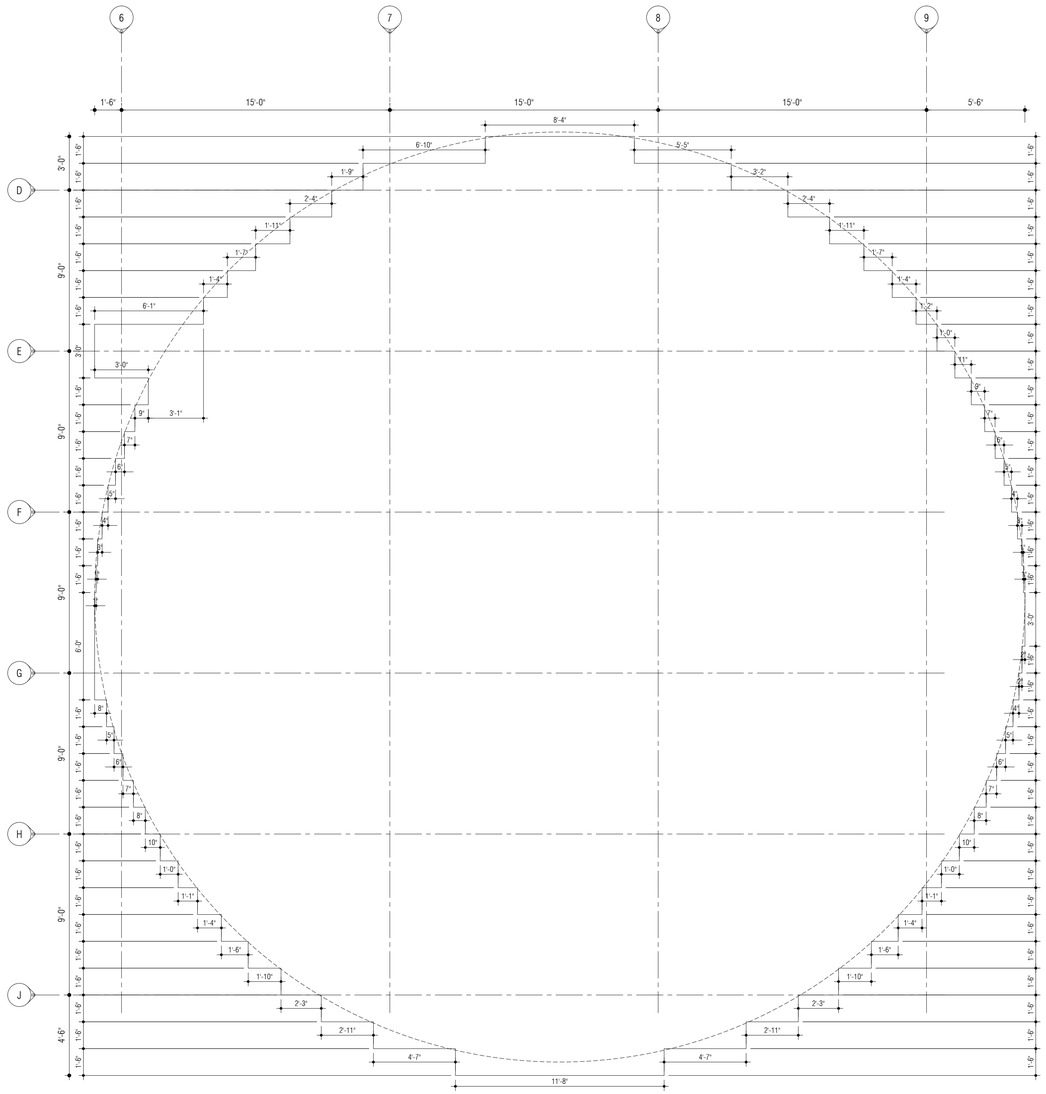
Descriptive Geometry

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	jmb / 05.ii.2024

DISCIPLINE

A-1.2



Descriptive Geometry

SCALE : ¼" = 1'-0"

A

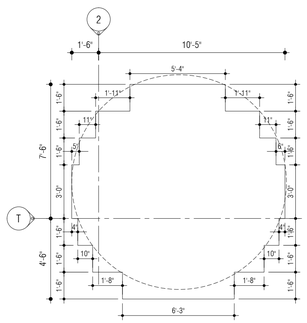
A-1.3

Descriptive Geometry

SCALE : ¼" = 1'-0"

B

A-1.3

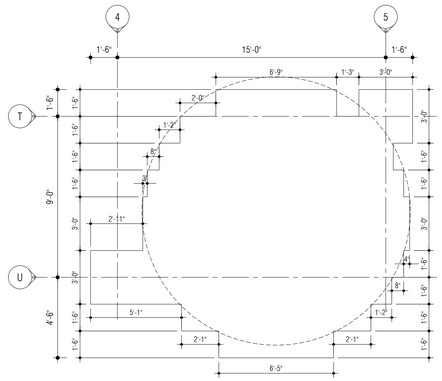


Descriptive Geometry

SCALE : ¼" = 1'-0"

C

A-1.3



Descriptive Geometry

SCALE : ¼" = 1'-0"

D

A-1.3

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manriquez botello puerto rico

LIC. NÚM. 00CC-19
EXP. 19 X 2025

CERTIFICACIÓN - COPYRIGHTS + VIEW NAME

[illegible]

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[illegible]

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Descriptive Geometry

CLIENT

Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT # 22-01

PROJECT PHASE Construction Docs - 90%

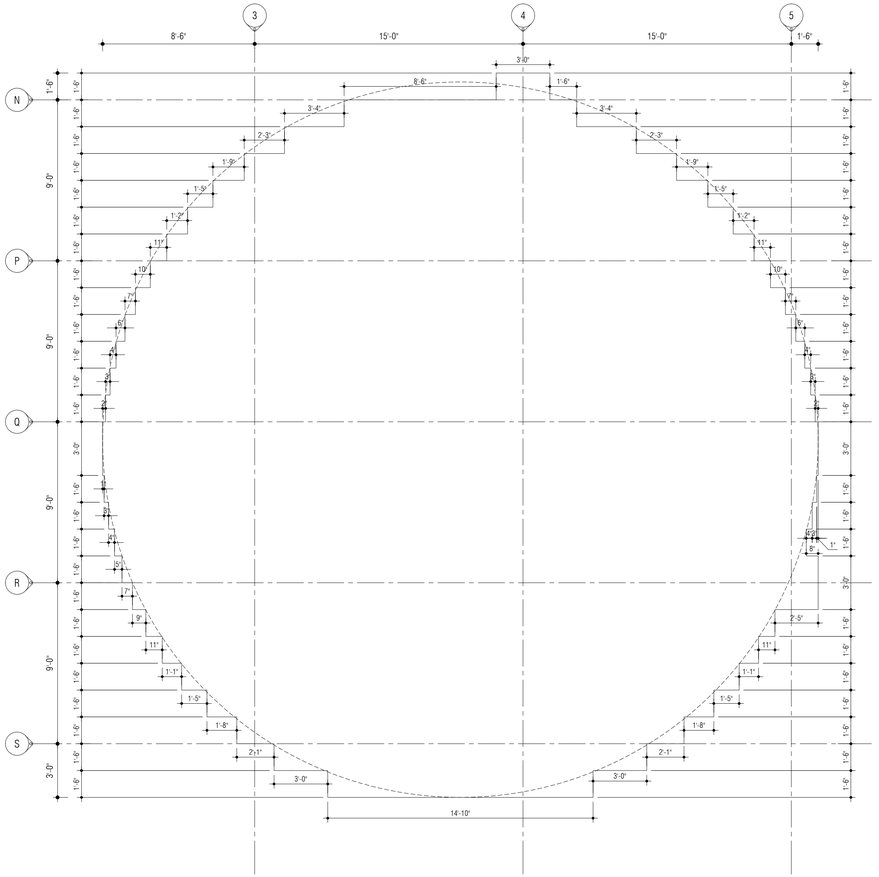
SHEET # 8

DRAWN BY jmb

DATE 05.ii.2024

DISCIPLINE

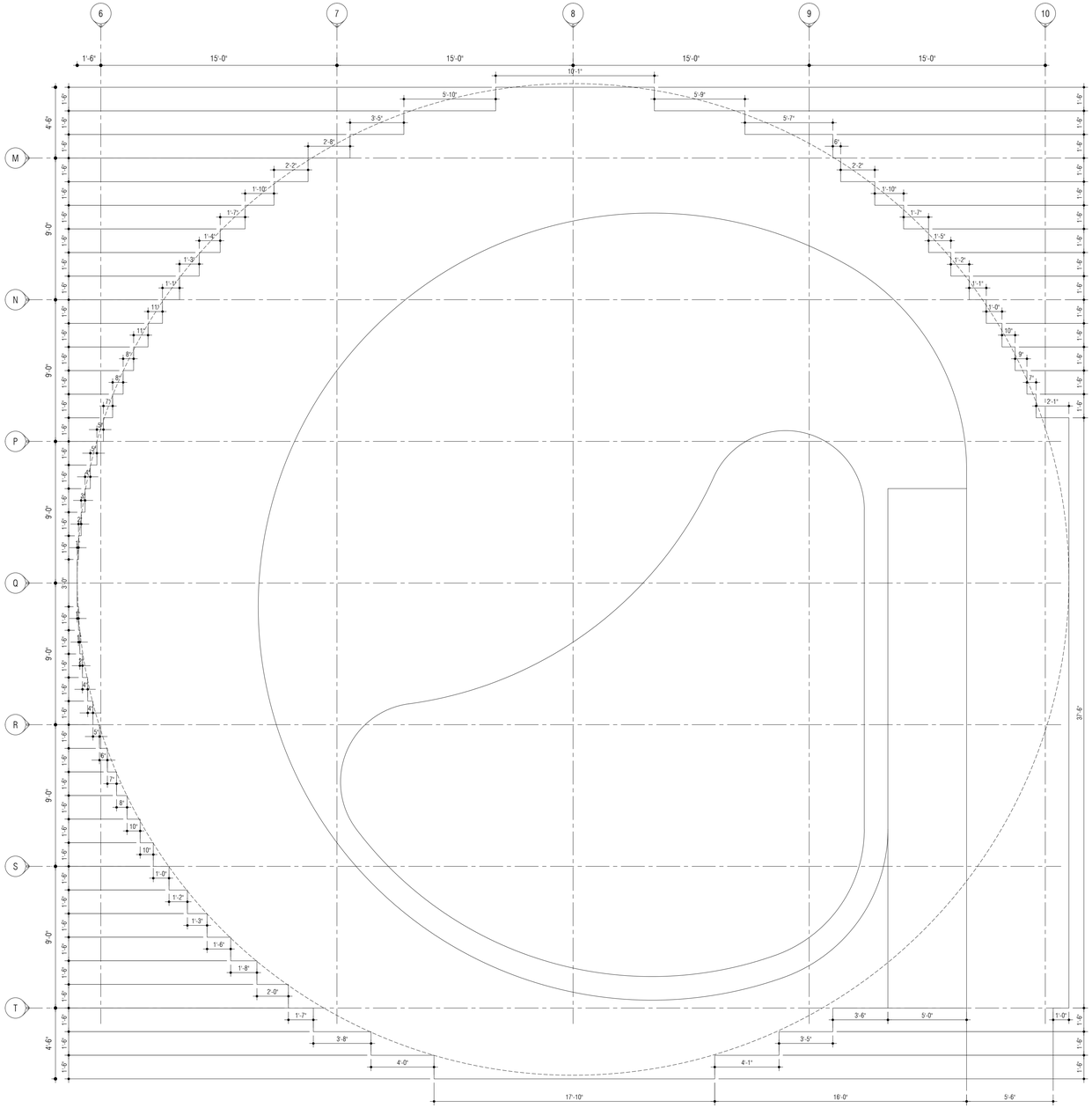
A-1.3



Descriptive Geometry A

SCALE : ¼" = 1'-0"

A-1.4



Descriptive Geometry B

SCALE : ¼" = 1'-0"

A-1.4

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

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EXP. 18.X.2025

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Descriptive Geometry

CLIENT

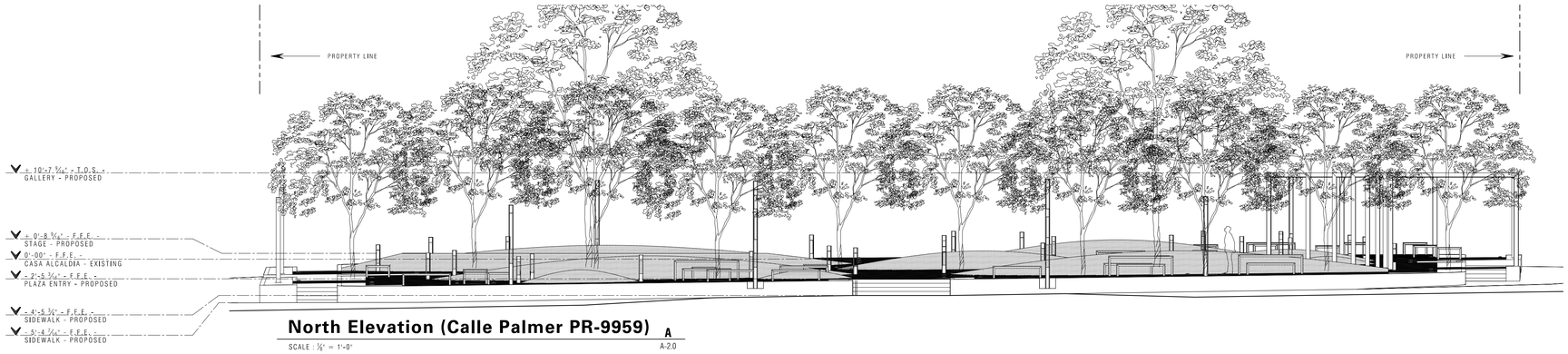
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
8	jmb	05.ii.2024

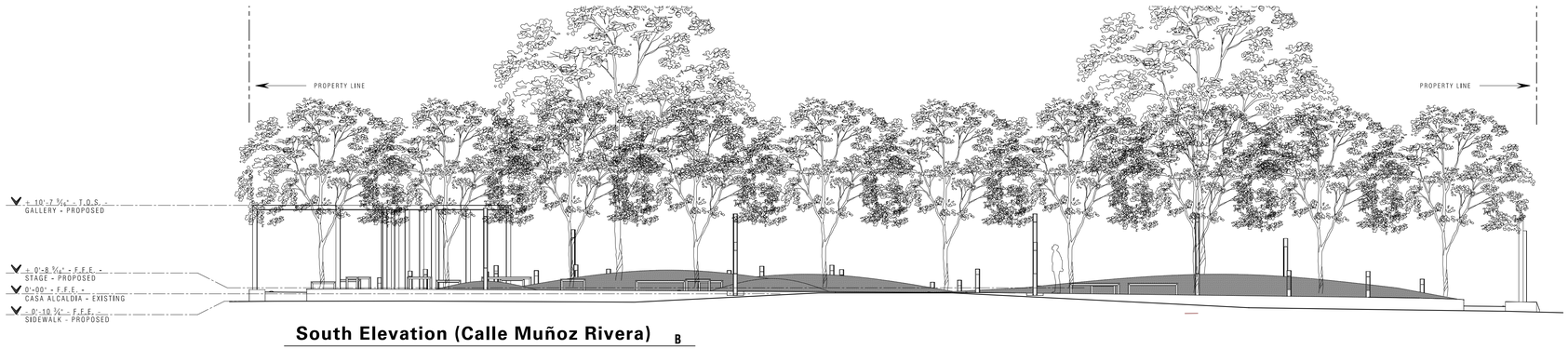
DESCIPLINE

A-1.4



North Elevation (Calle Palmer PR-9959) A

SCALE : ⅛" = 1'-0" A-2.0



South Elevation (Calle Muñoz Rivera) B

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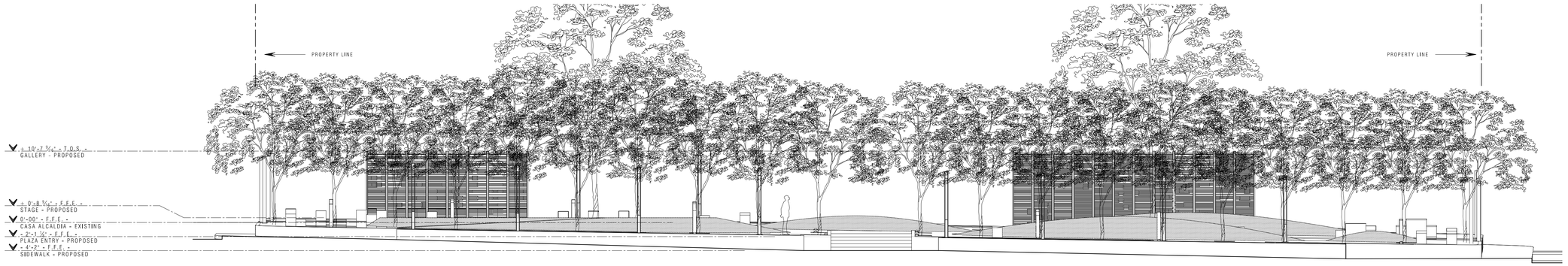
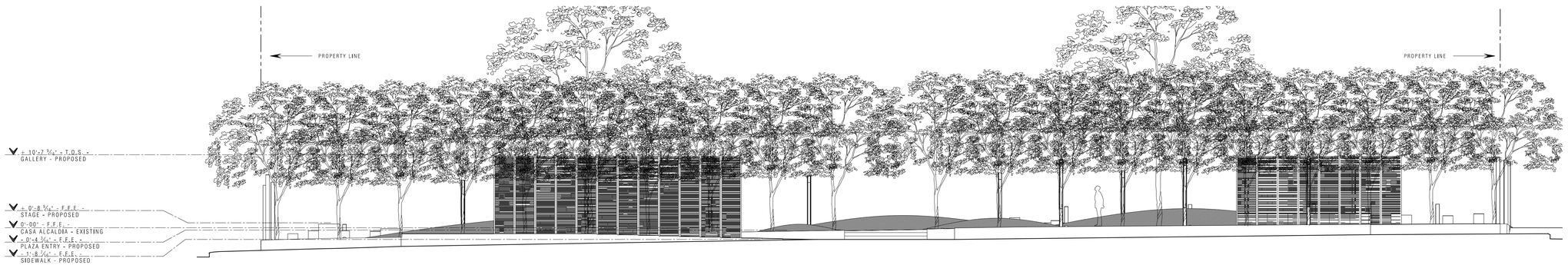


East Elevation (Calle Luis Hernaiz) C

SCALE : ⅛" = 1'-0" A-2.0



West Elevation (Calle Calderon Mujica) D

SCALE : ⅛" = 1'-0" A-2.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. NMA 00CC-19
EXP. 19 X 2025

CERTIFICADOS - CERTIFICATES - NEW NAME

S E C C I Ó N 6 1 0 1
PLANOS, ESPECIFICACIONES Y MEMORIALES DE CONSTRUCCIÓN
CERTIFICADOS
SE REQUIERE: ENVOLVIDORES Y PLANOS SELLADOS
PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS
SEC. PLANOS, ESPECIFICACIONES Y CÁLCULOS ESTRUCTURALES
PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS
C O N
JURISDICCIÓN, CERTIFICO, QUE LOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES EN PUERTO RICO, EXCEPTO POR LO SIGUIENTE:
S E L L O
P A R A L A
F I R M A L A
REGLAMENTO Y CON LA LEY NÚMERO 76 DEL 5 DE AGOSTO DE 1975, SEGÚN ENMENDADA.
DESIGN ENVELOPED AND SEALED FOR PUERTO RICO BUILDING CODE AND REGULATIONS
SEGÚN ENMENDADA.
SE PUEDE DESCARGAR DE FORMA GRATUITA POR MEDIO DE INTERNET EN LA SIGUIENTE DIRECCIÓN:
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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

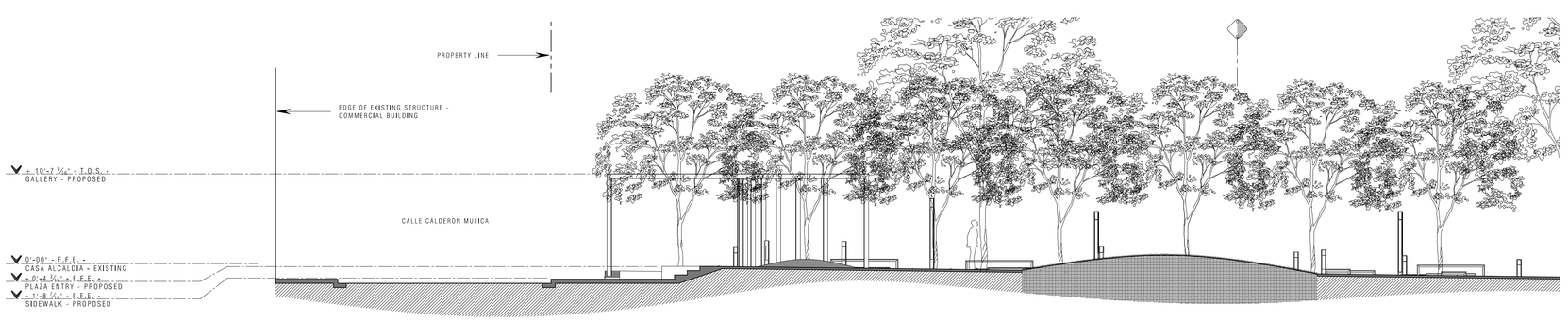
Elevations

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

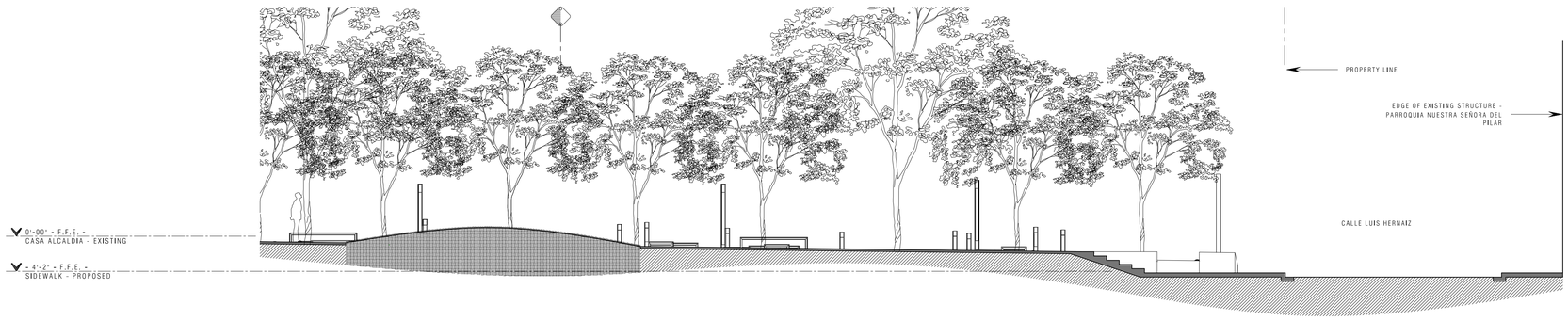
PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
9	jmb / 05.ii.2024

DISCIPLINE

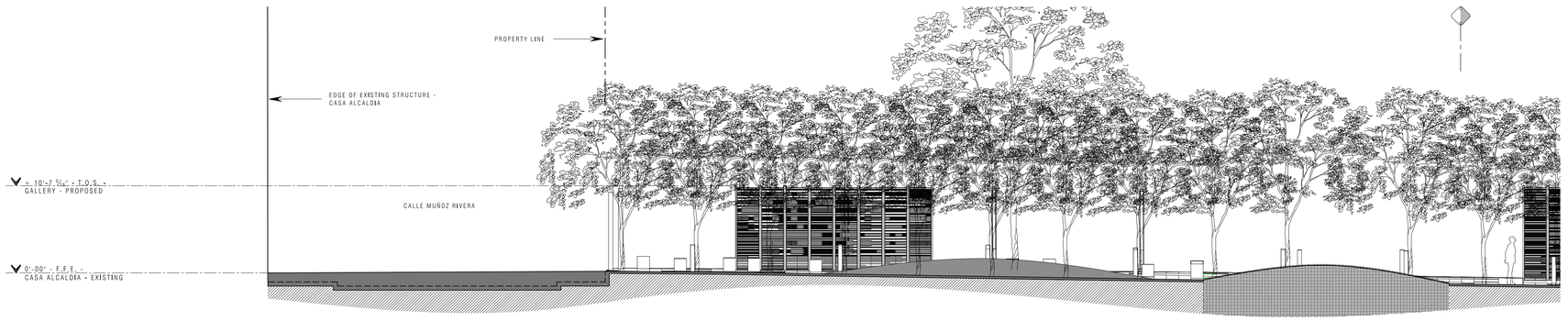
A-2.0



Section A
SCALE : 1/8" = 1'-0" A-3.0



Section A
SCALE : 1/8" = 1'-0" A-3.0



Section B
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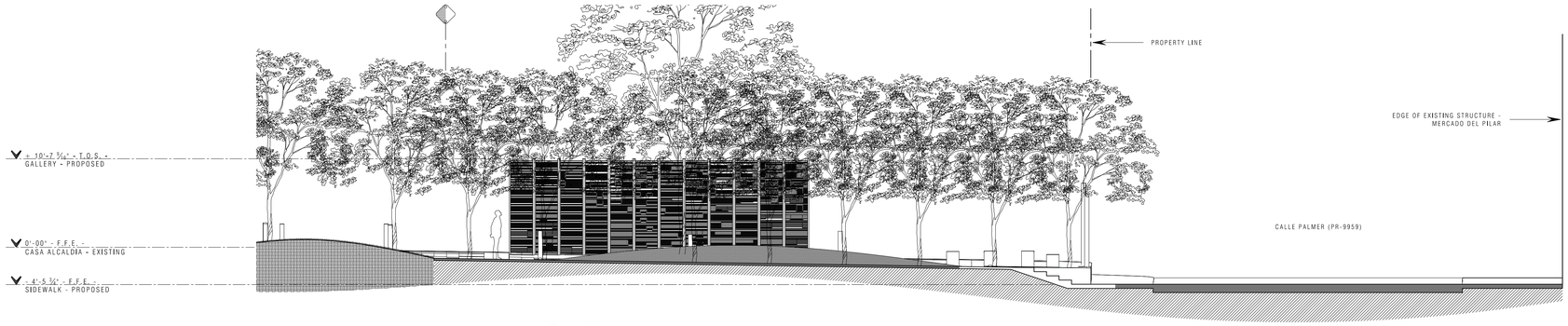

Section B
SCALE : 1/8" = 1'-0" A-3.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

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CONTRACTOR'S COPYRIGHTS - COPYRIGHTS - NEW NAME

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Sections

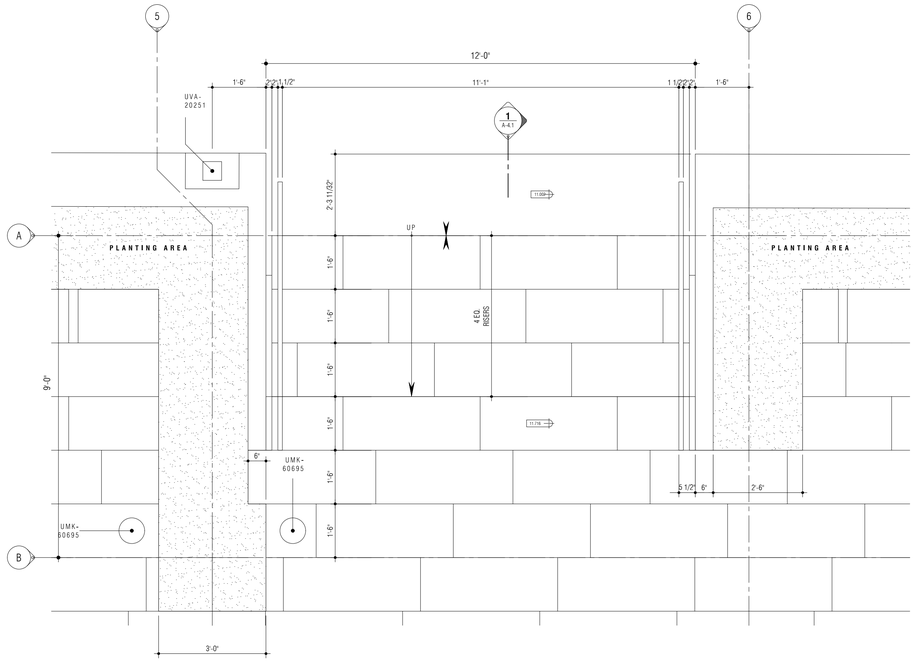
CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
10	jmb	05.ii.2024

DISCIPLINE

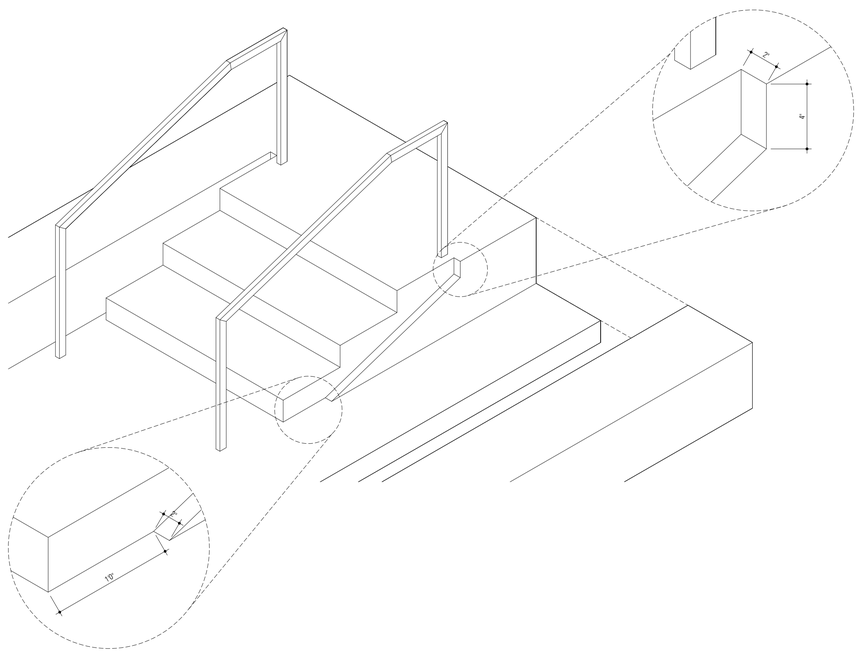
A-3.0



Stair - Blowup Plan

SCALE : ½" = 1'-0"

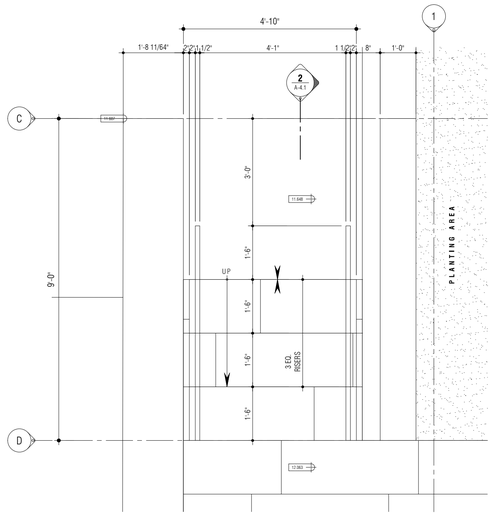
1 A-4.0



Stair Drainage - Axo

NOT TO SCALE

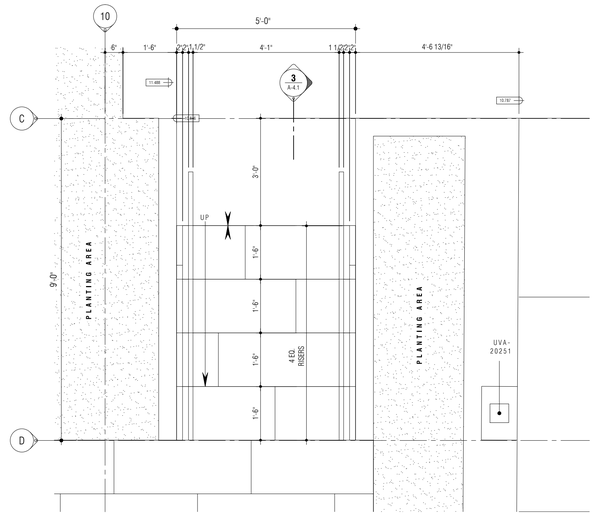
1 A-4.0



Stair - Blowup Plan

SCALE : ½" = 1'-0"

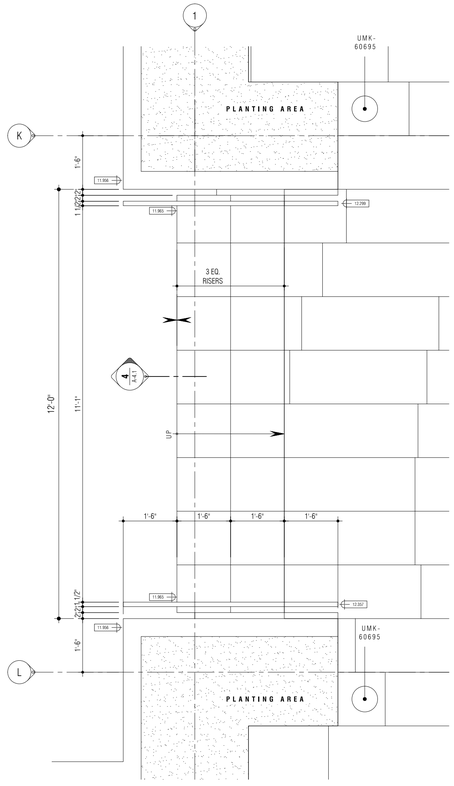
2 A-4.0



Stair - Blowup Plan

SCALE : ½" = 1'-0"

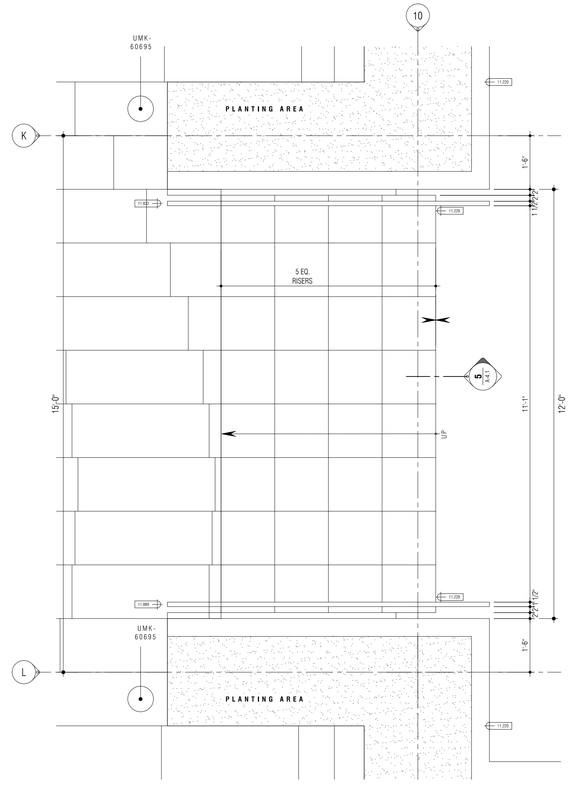
3 A-4.0



Stair - Blowup Plan

SCALE : ½" = 1'-0"

4 A-4.0



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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MAY. DCCC IX
EXP. 19.X.2025

CERTIFICACIÓN - COTTONETE - FIRM NAME

Y O
FIRMA PROFESIONAL REGISTRADA
CERTIFICACIÓN
ESTE DISEÑO, ESPECIFICACIONES Y PLANOS (ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTAN- MO, TES, DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRU- CCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES P Ú B L I C A S C O N JURISDICCIÓN, CERTIFICO QUE ESTOS PLANOS Y ESPECIFICA- CIONES SE HAN PLANIFICADO Y CUMPLIDO CABALMENTE DE ACUERDO CON LAS DISPOSICIONES APLICABLES Y POR LA PRESENTE LOS ACEPTO COMO TALES Y LOS SUSCRIBO EN CUMPLIMIENTO CON LA LEY NÚMERO 90 DEL 9 DE JULIO DE 1979, SEGÚN ENMENDADA. ESTOS PLANOS Y ESPECIFICACIONES NO PODRÁN SER REPRODUCIDOS, O MODIFICADOS, O PUBLICADOS SIN EL PERMISO ESCRITO DE LA FIRMA PROFESIONAL QUE LOS DISEÑÓ. D E S E Ñ O P O R : J . A . MANRIQUEZ BOTELLO

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e-mail: info@informationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

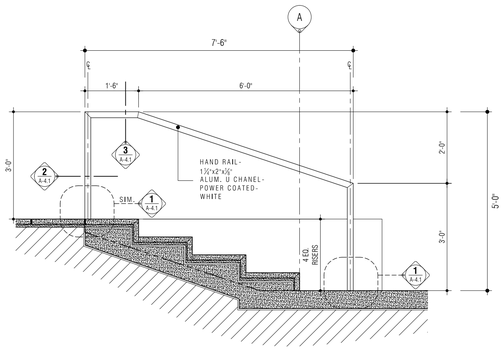
Stairs Plans & Details

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	jmb / 05.ii.2024

DISCIPLINE

A-4.0

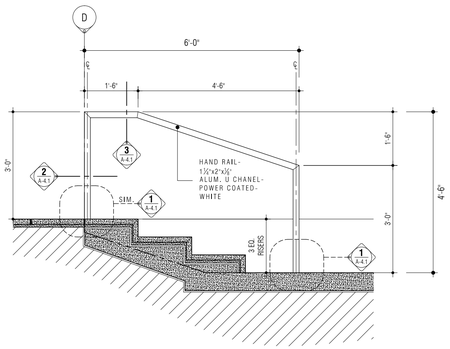


Stair - Blowup Section

SCALE : ½" = 1'-0"

A

A-4.1

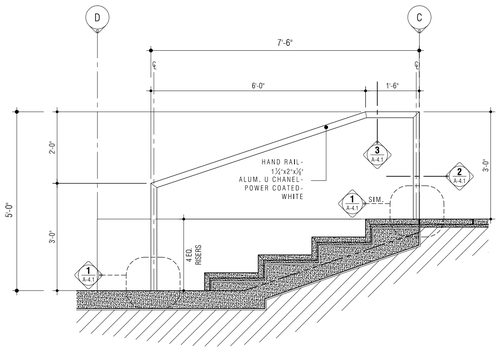


Stair - Blowup Section

SCALE : ½" = 1'-0"

B

A-4.1

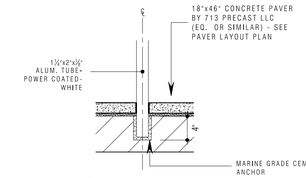


Stair - Blowup Section

SCALE : ½" = 1'-0"

C

A-4.1

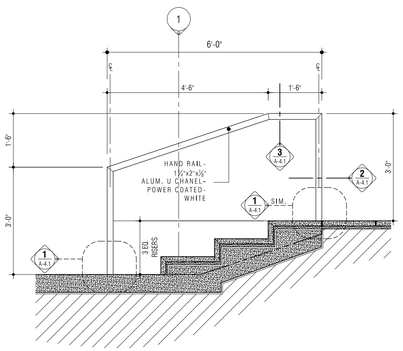


Detail

SCALE : 1" = 1'-0"

1

A-4.1

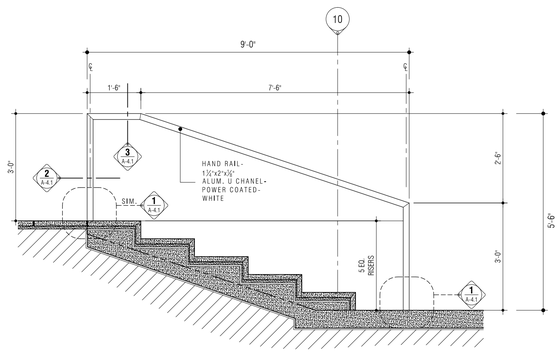


Stair - Blowup Section

SCALE : ½" = 1'-0"

D

A-4.1

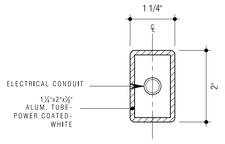


Stair - Blowup Section

SCALE : ½" = 1'-0"

E

A-4.1

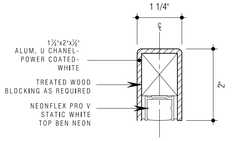


Detail

SCALE : 6" = 1'-0"

2

A-4.1



Detail

SCALE : 6" = 1'-0"

3

A-4.1

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manriquez botello puerto rico

LIC. MAX 00CC 111 EXP. 18 X 2025

CERTIFICACIÓN - COPYRIGHTS + FIRM NAME

[illegible] Y O
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Carolina, PR, 00979 - Office Tel. +1 (787) 296-0630
e-mail: info@informationstudio.com

PROJECT TEE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Stairs Details

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #
22-01

PROJECT PHASE
Construction Docs - 90%

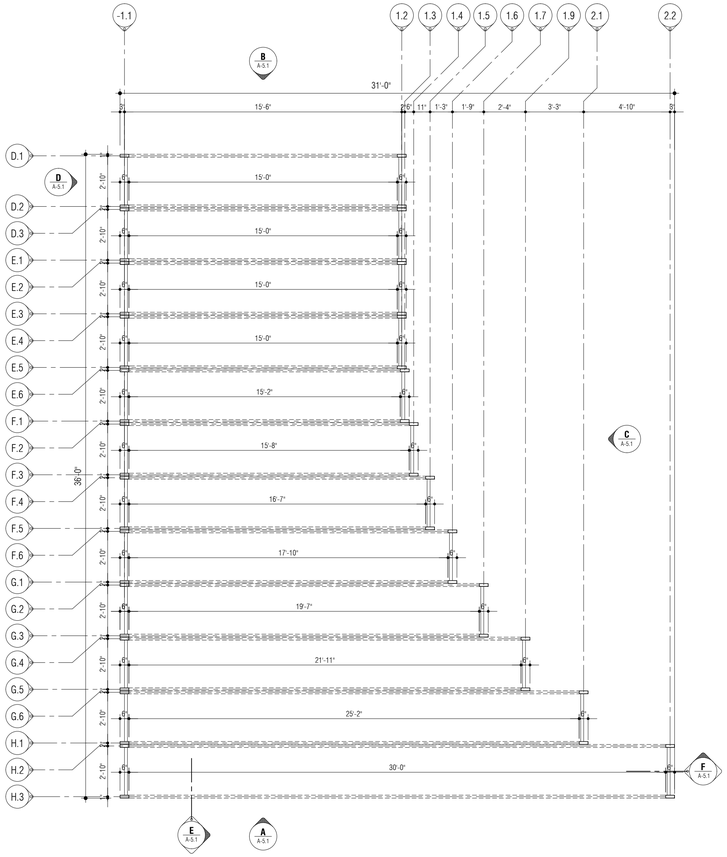
SHEET #
8

DRAWN BY
jmb

DATE
05.ii.2024

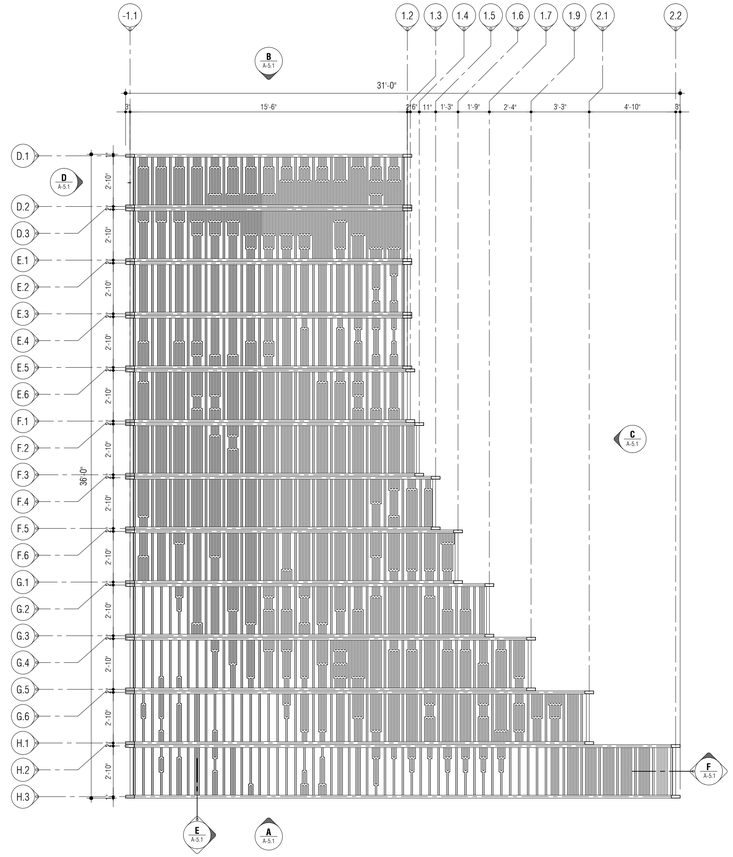
DISCIPLINE

A-4.1



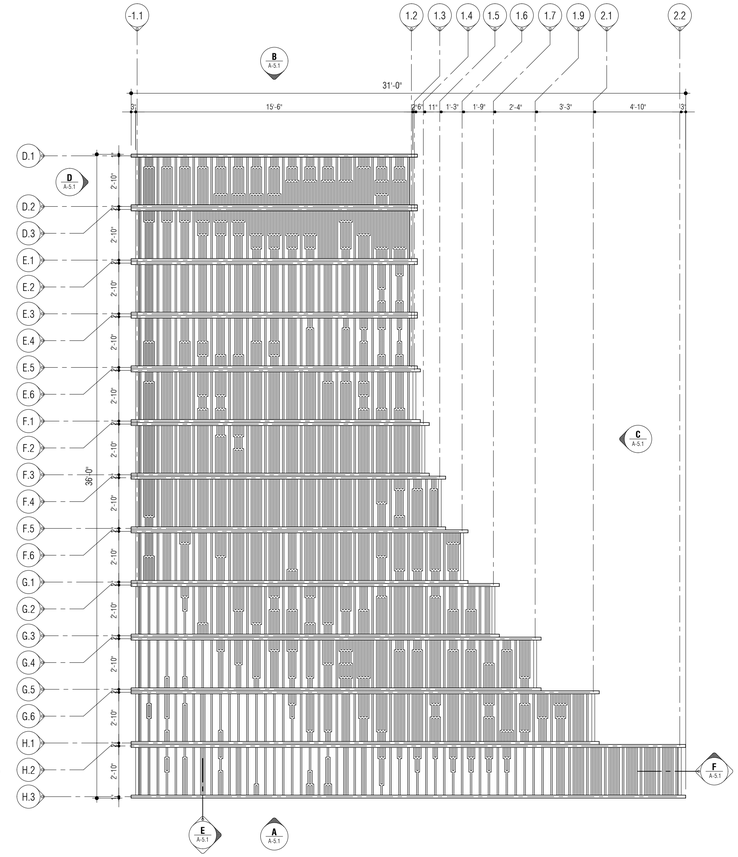
Gallery - Layout Plan

SCALE : ¼" = 1'-0" — 1 — A-5.0



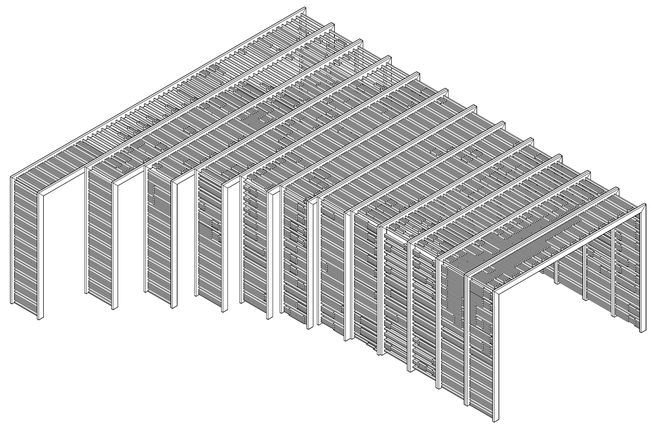
Gallery - Reflected Ceiling Plan

SCALE : ¼" = 1'-0" — 2 — A-5.0



Gallery - Roof Plan

SCALE : ¼" = 1'-0" — 3 — A-5.0



Gallery - Axon

NOT TO SCALE

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MAY. 00CC III
EXP. 18.X.2025

CERTIFICACIÓN - CERTIFICATE - FORM NUMB

[illegible]

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6177 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

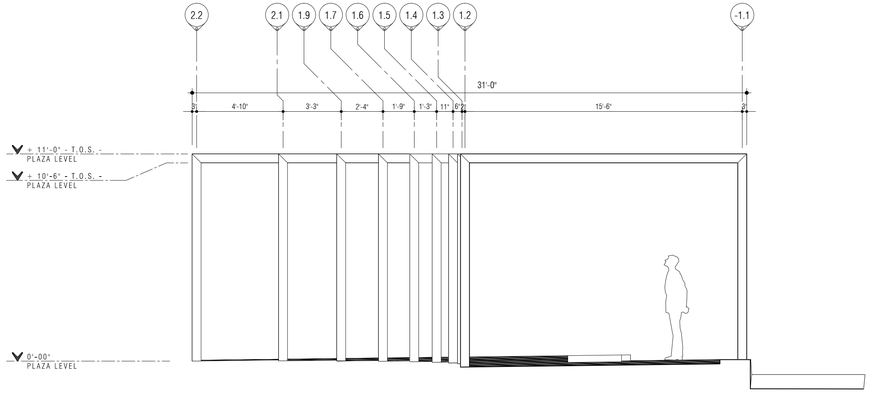
DWG. TITLE

Gallery Layout Plan

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 8
DRAWN BY jmb
DATE 05.ii.2024
DISCIPLINE

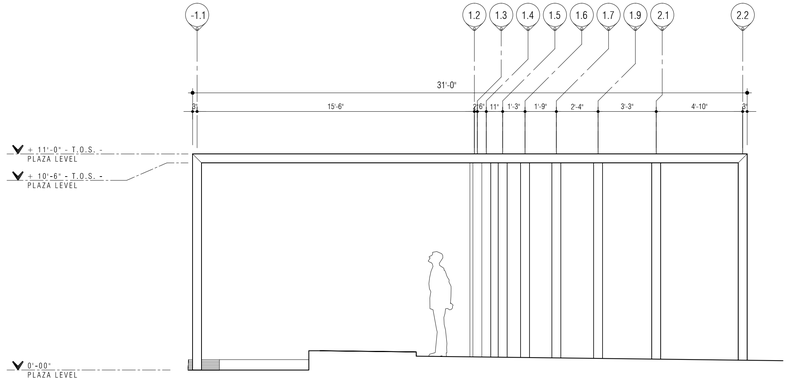
A-5.0



Gallery - Elevation

SCALE : ¼" = 1'-0"

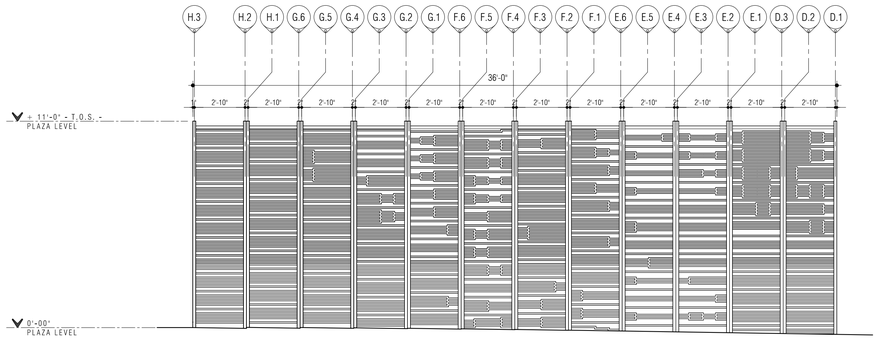
A
A-5.1



Gallery - Elevation

SCALE : ¼" = 1'-0"

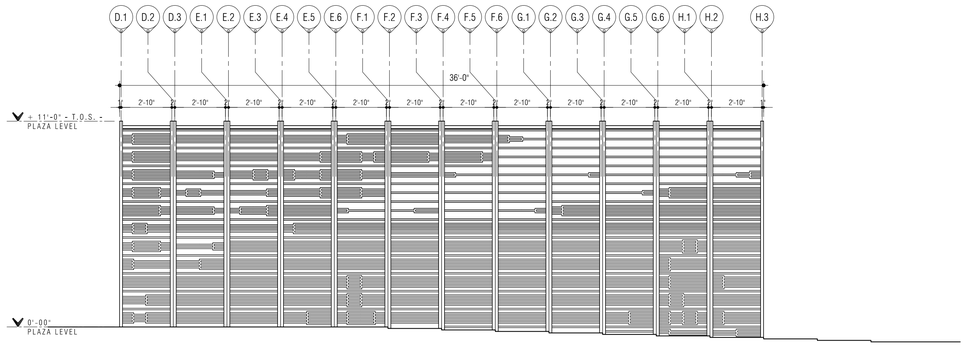
B
A-5.1



Gallery - Elevation

SCALE : ¼" = 1'-0"

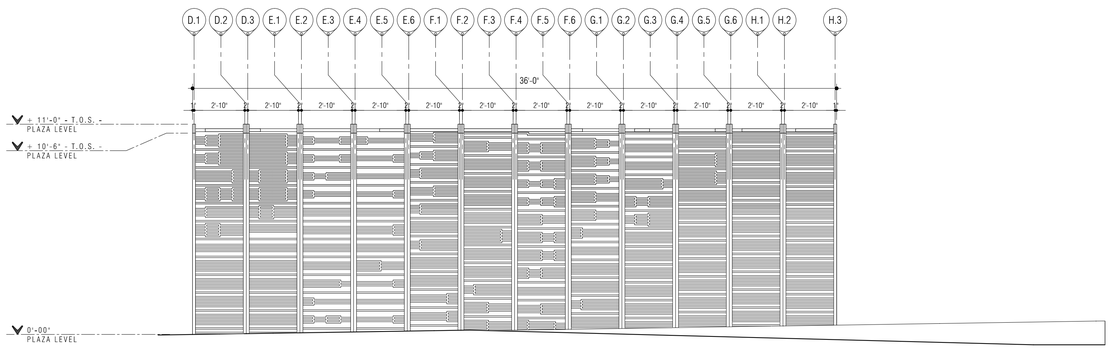
C
A-5.1



Gallery - Elevation

SCALE : ¼" = 1'-0"

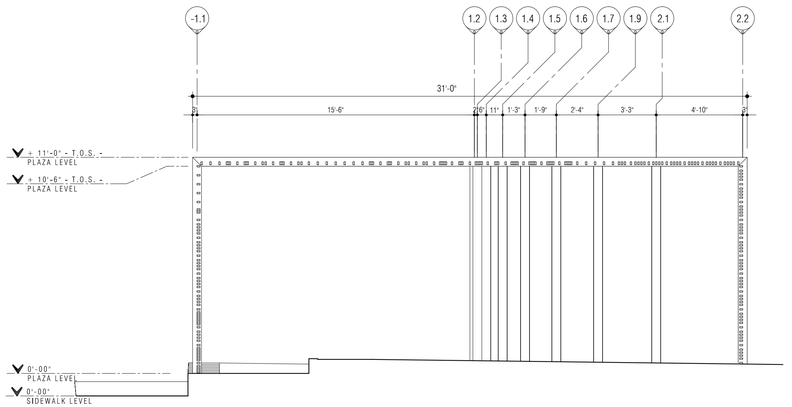
D
A-5.1



Gallery - Section

SCALE : ¼" = 1'-0"

E
A-5.1



Gallery - Section

SCALE : ¼" = 1'-0"

F
A-5.1

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MAX 0000 IN EXP. 19.X.2025

CERTIFICACION - CERTIFICATE - FIRM NAME

[illegible]

in.formation studio

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6777 Av. Isla Verde, Edificio Isla Verde Mall - Suite 221
Carolina, PR, 00979 - Office Tel. +1 (787) 256-0630
e-mail: info@informationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Gallery Elevations & Sections

CLIENT

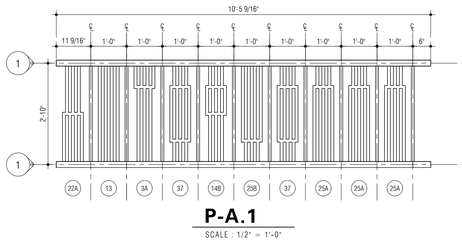
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

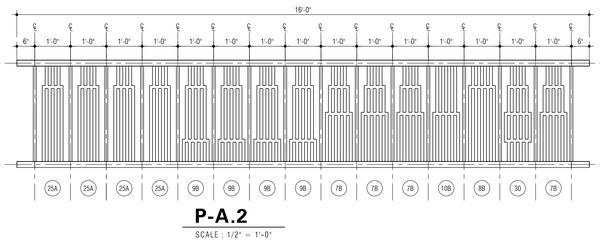
SHEET #	DRAWN BY	DATE
8	jmb	05.ii.2024

DISCIPLINE

A-5.1



P-A.1
SCALE : 1/2" = 1'-0"



P-A.2
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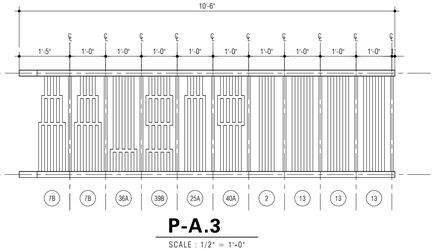

P-A.3
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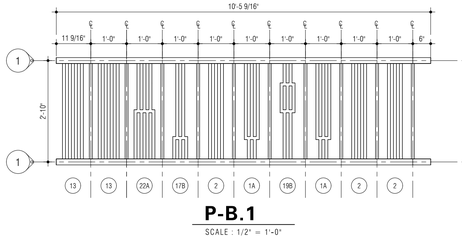
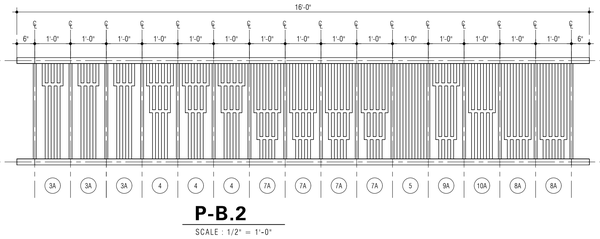


P-B.1
SCALE : 1/2" = 1'-0"



P-B.2
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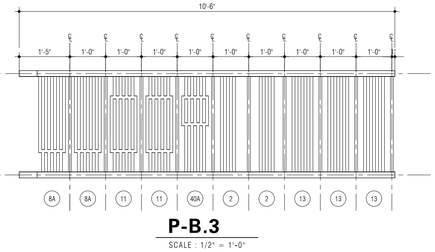
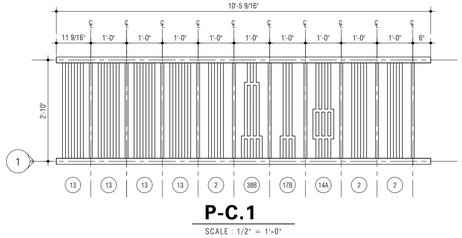
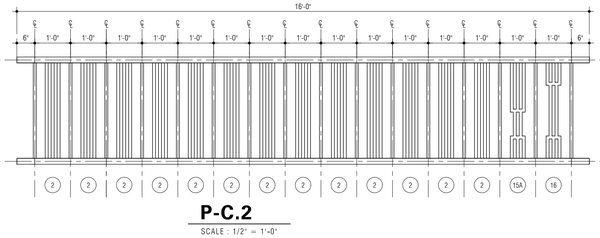


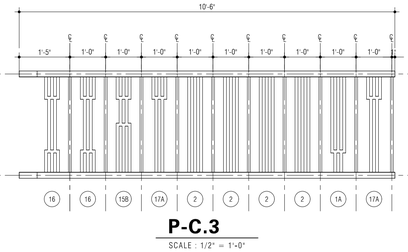
P-B.3
SCALE : 1/2" = 1'-0"



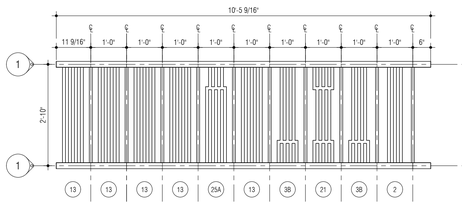
P-C.1
SCALE : 1/2" = 1'-0"



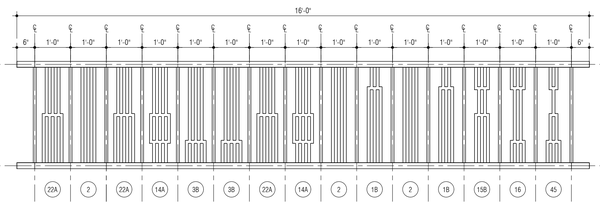
P-C.2
SCALE : 1/2" = 1'-0"



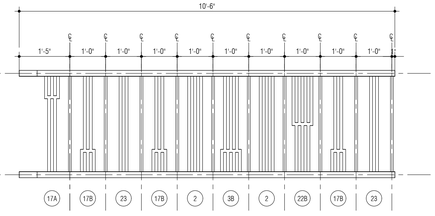
P-C.3
SCALE : 1/2" = 1'-0"



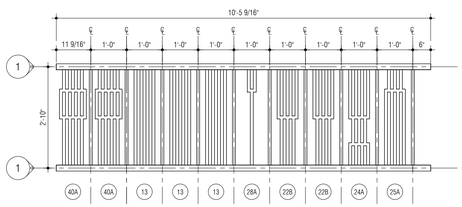
P-D.1
SCALE : 1/2" = 1'-0"



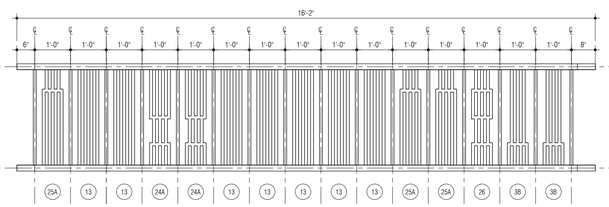
P-D.2
SCALE : 1/2" = 1'-0"



P-D.3
SCALE : 1/2" = 1'-0"



P-E.1
SCALE : 1/2" = 1'-0"



P-E.2
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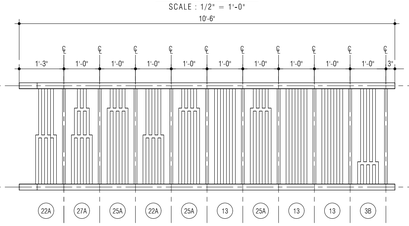

P-E.3
SCALE : 1/2" = 1'-0"

Gallery - Unfolded Layout

SCALE : ½ " = 1'-0"

3
A-6.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico
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EXP. 19.X.2025

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

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ESTE DIBUJO: ESPECIFICACIONES Y PLANOS LISTOS
PLANOS Y LAS ESPECIFICACIONES COMPLEMENTOS
ESTÁN PREPARADOS DE ACUERDO CON LOS CÓDIGOS
PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-
CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTACIONES O CORPORACIONES
PÚBLICAS J U R I S D I C C I O N E S
C O N
S U P E R V I S I Ó N
D E
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6177 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TEE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

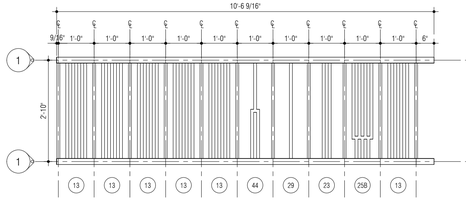
Gallery - Unfolded Layout Plan

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	imb / 05.ii.2024

DESCRIPTION

A-5.2



P-F.1

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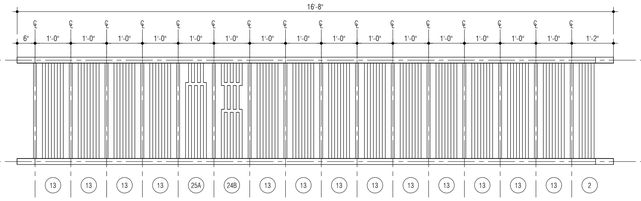

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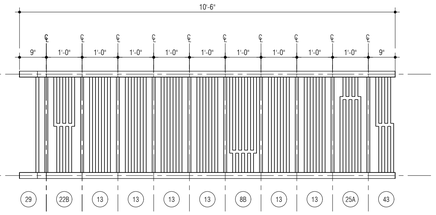

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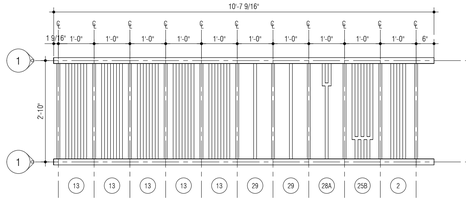

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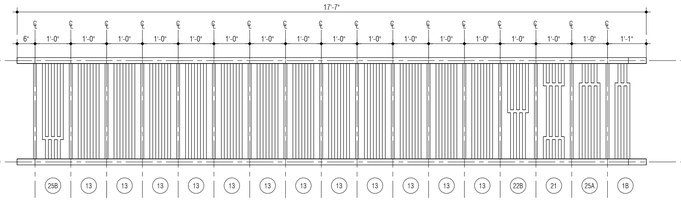

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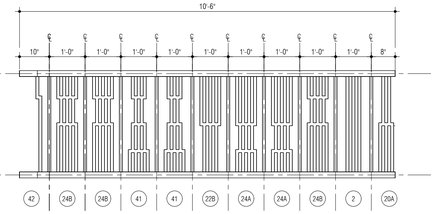

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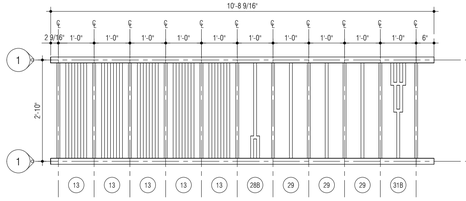

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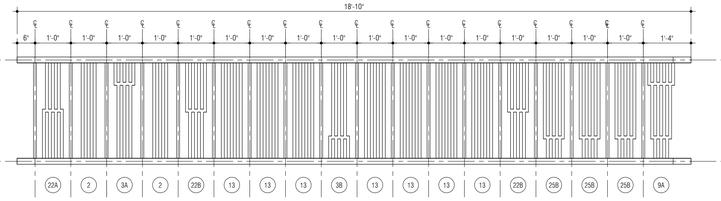

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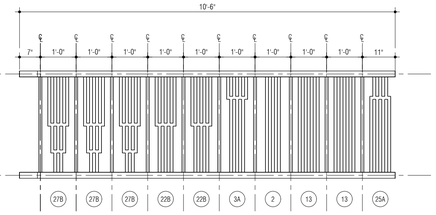

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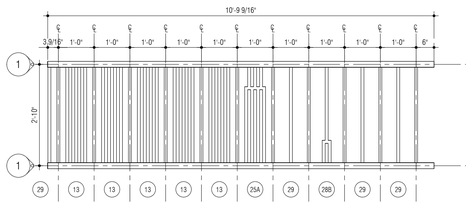

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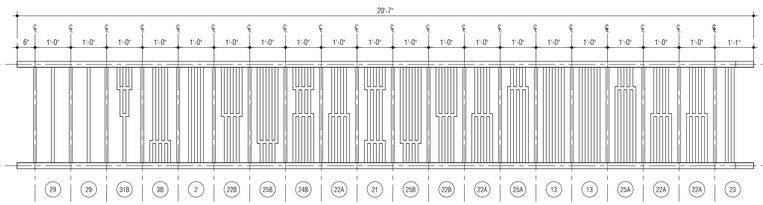

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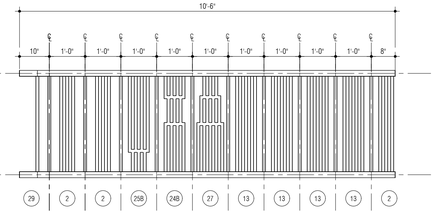

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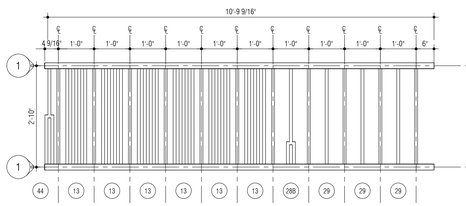

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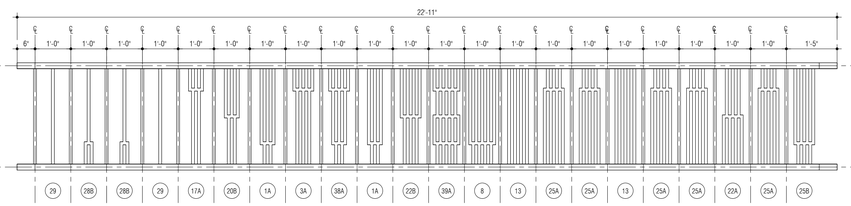
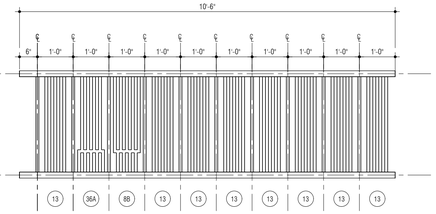
SCALE : 1/2" = 1'-0"



P-J.2

SCALE : 1/2" = 1'-0"



P-J.3

SCALE : 1/2" = 1'-0"

Gallery - Unfolded Layout

SCALE : ½ " = 1'-0"

3
A-6.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez bottelo puerto rico

LIC. MAR 00CC 11
EXP. 19.X.2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

ESTE DIBUJO: ESPECIFICADO Y PREPARE ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS PARA EL PROYECTO INDICADO EN EL TITULO, HAN SIDO PLANOS Y ESPECIFICACIONES COMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION, CERTIFICO: QUE ESTOS PLANOS Y ESPECIFICACIONES HAN SIDO PREPARADOS BAJO MI SUPERVISION PROFESIONAL Y CUMPLEN CABALMENTE CON LA LEY NUMERO 173 DE 12 DE AGOSTO DE 1988, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA REGLAMENTAR EL EJERCICIO DE LA PROFESION DE ARQUITECTURA EN PUERTO RICO" Y LOS REGLAMENTOS QUE LA IMPLEMENTAN.

ESTOS PLANOS Y ESPECIFICACIONES HAN SIDO PREPARADOS POR NOSOTROS O BAJO NUESTRA SUPERVISION DIRECTA Y SOMOS LOS UNICOS AUTORIZADOS A REPRODUCIR, O MODIFICAR ESTOS PLANOS Y ESPECIFICACIONES.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Gallery - Unfolded Layout Plan

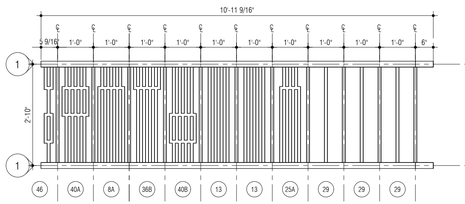
CLIENT

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	imb / 05.ii.2024

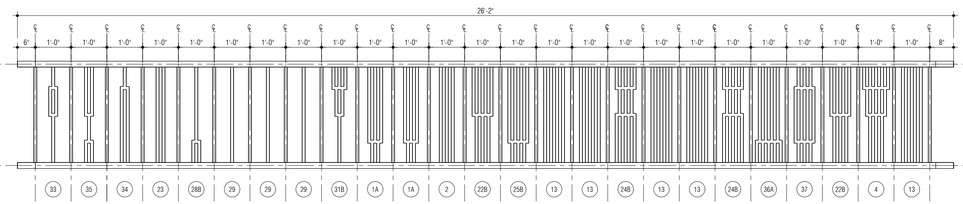
DESCRIPTION

A-5.3



P-K.1

SCALE : 1/2" = 1'-0"



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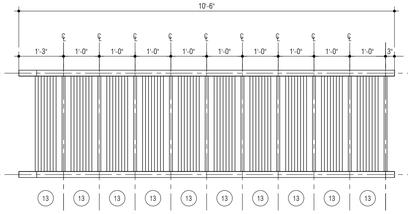
SCALE : 1/2" = 1'-0"



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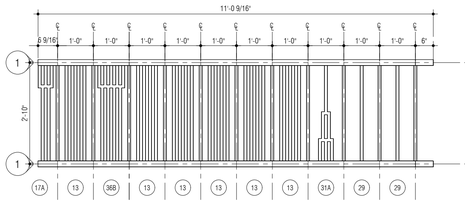

P-L.1

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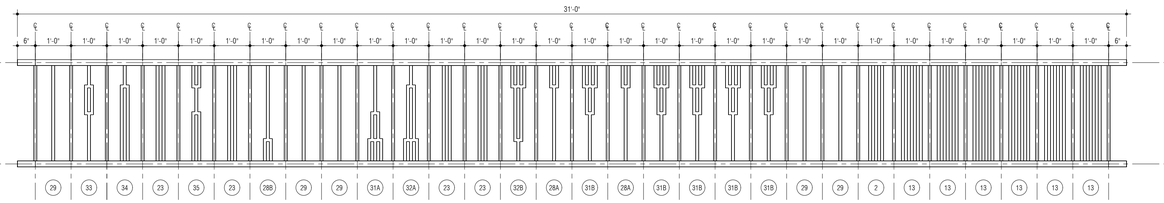
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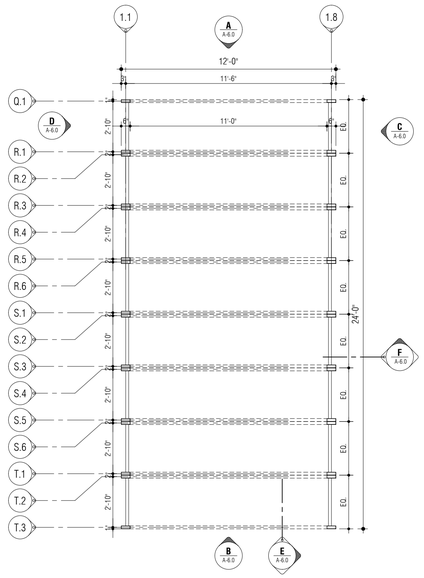
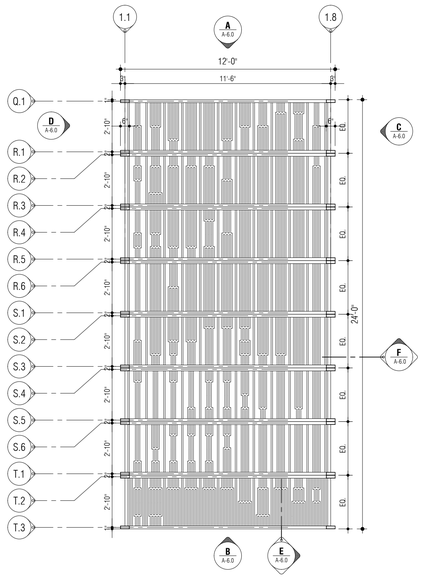


Pavilion - Layout Plan

SCALE : ¼" = 1'-0"

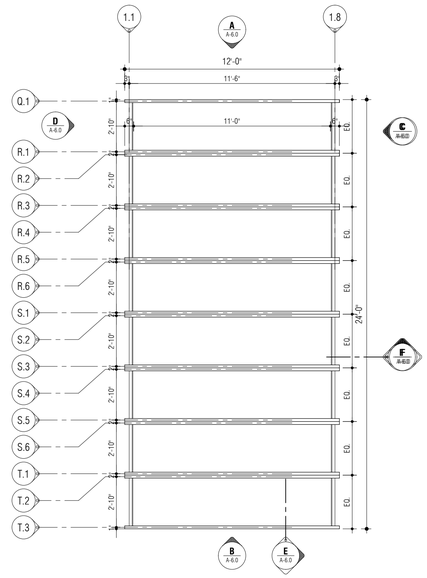
1 A-6.0



Pavilion - Reflected Ceiling Plan

SCALE : ¼" = 1'-0"

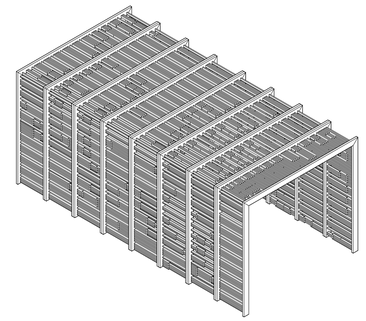
2 A-6.0



Pavilion - Roof Plan

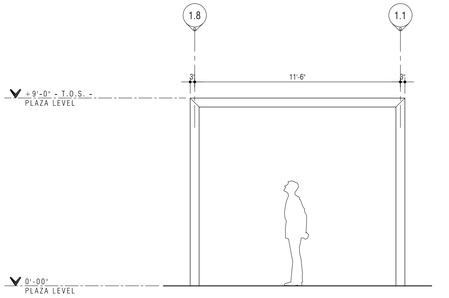
SCALE : ¼" = 1'-0"

3 A-6.0



Pavilion - Axon

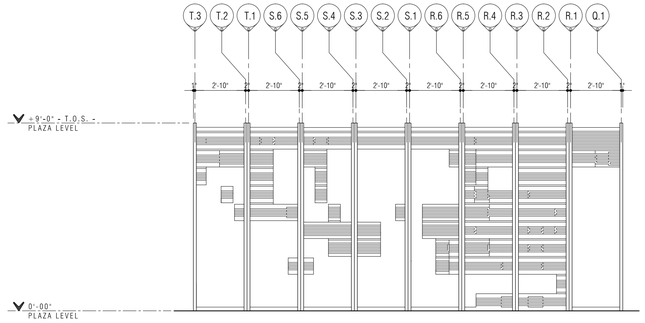
NOT TO SCALE



Pavilion - Elevation

SCALE : ½" = 1'-0"

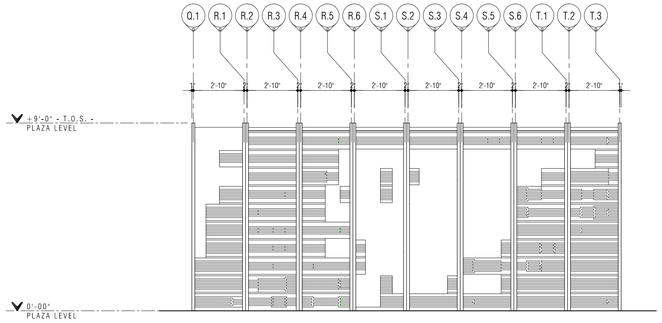
A A-6.0



Pavilion - Elevation

SCALE : ½" = 1'-0"

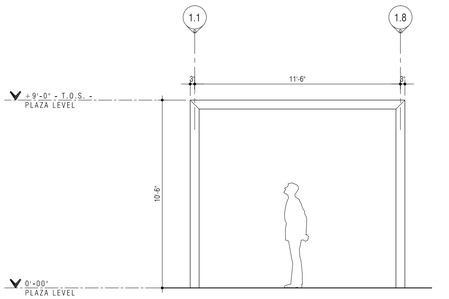
C A-6.0



Pavilion - Elevation

SCALE : ½" = 1'-0"

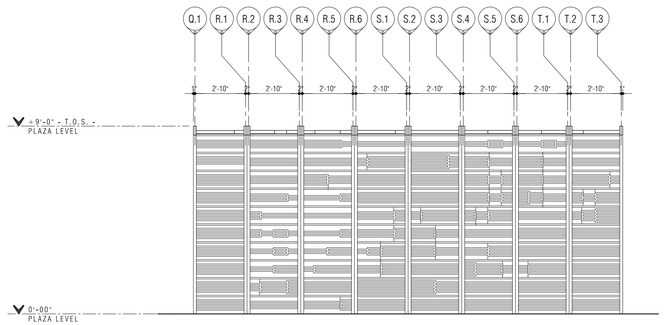
D A-6.0



Pavilion - Elevation

SCALE : ½" = 1'-0"

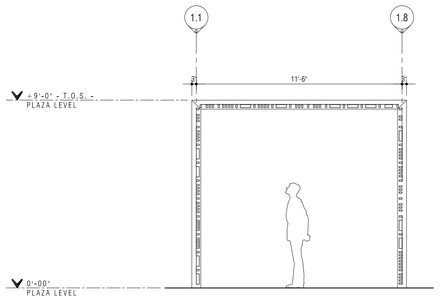
B A-6.0



Pavilion - Section

SCALE : ½" = 1'-0"

E A-6.0



Pavilion - Section

SCALE : ½" = 1'-0"

F A-6.0

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REVISIONS:

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL:

julián manríquez botello
puerto rico
LIC. MXX DCCC IV
EXP. 1 X 2025

CERTIFICACIÓN - COPYRIGHTS + VIEW RAME

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Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS:

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT:

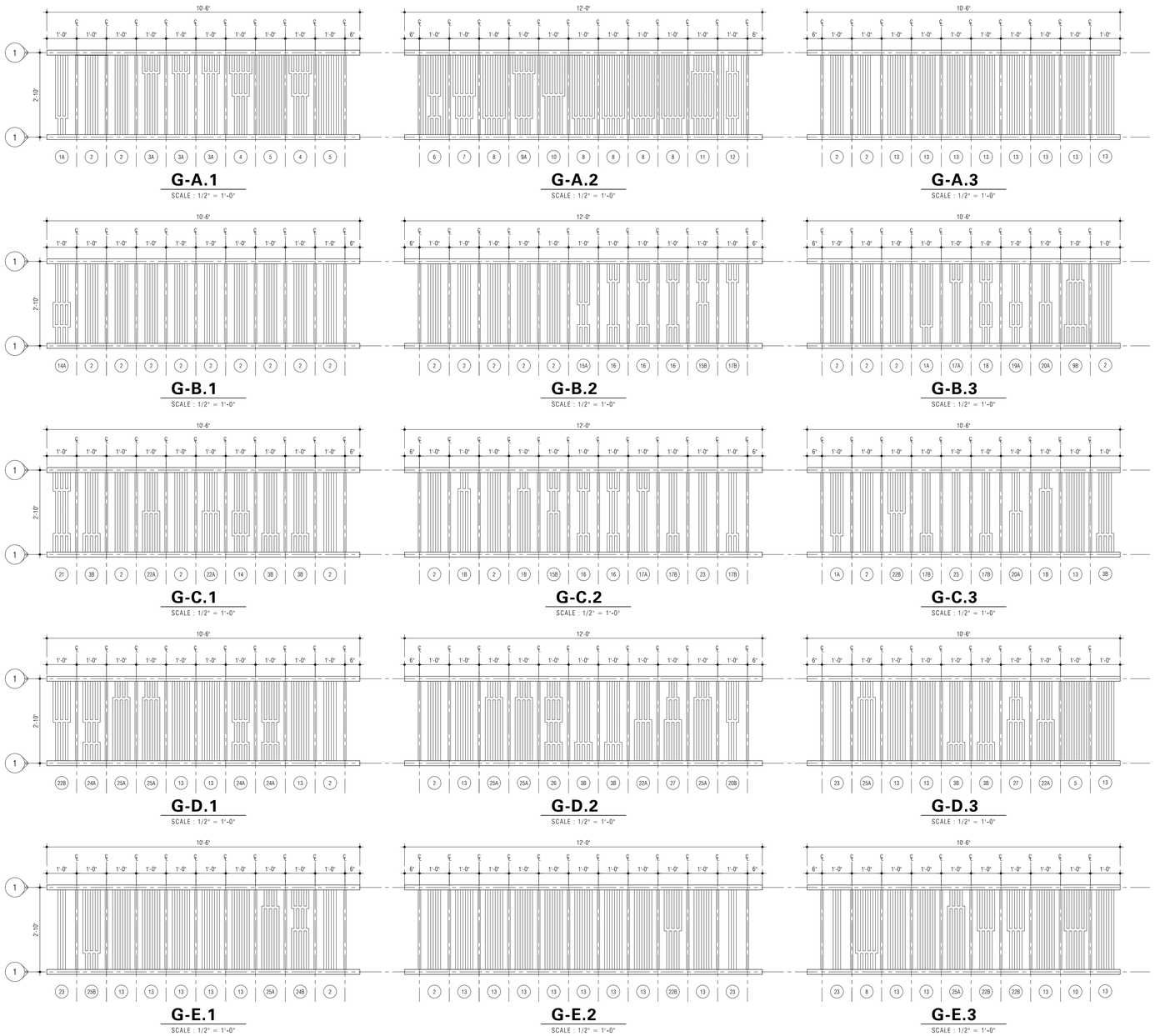
DWG. TITLE:

Pavilion - Layout Plan, Elevations & Sections

CLIENT:
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #: 22-01
PROJECT PHASE: Construction Docs - 90%
SHEET #: 8
DRAWN BY: jmb
DATE: 05.ii.2024
DISCIPLINE:

A-6.0



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PROFESSIONAL SEAL



CERTIFICACIÓN - CERTIFICATE - FIRM NAME

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Carolina, PR, 00979 - Office Tel. +1 (787) 256-0630
e-mail: info@informationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Pavilion - Unfolded Layout Plan

CLIENT

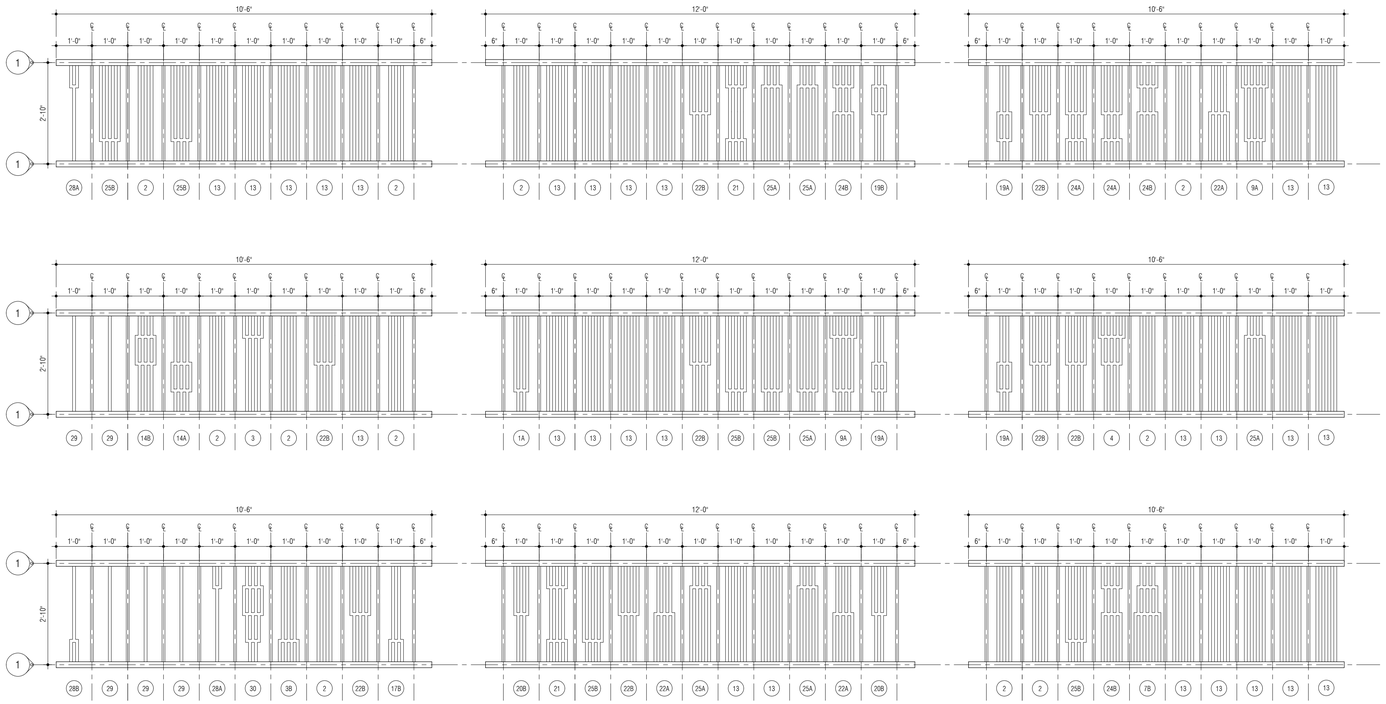
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
8	jmb	05.ii.2024

DESCIPLINE

A-6.1



Pavilion - Unfolded Layout

SCALE : 1" = 1'-0"

3
A-6.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. MAX DCCC III
EXP. 19 X 2025

CERTIFICACION - CERTIFICATE - FIRM NAME

[illegible]

in.formation studio

landscape . architecture . product

6777 Av. Isla Verde, Edificio Isla Verde Mall - Suite 221
Carolina, PR, 00979 - Office Tel: +1 (787) 256-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Pavilion - Unfolded Layout Plan

CLIENT

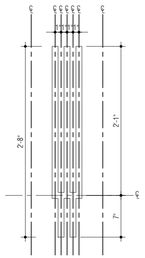
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
8	jmb	05.ii.2024

DISCIPLINE

A-6.2



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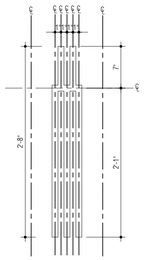

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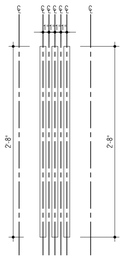

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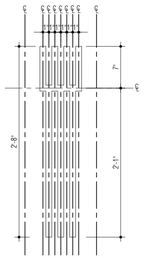

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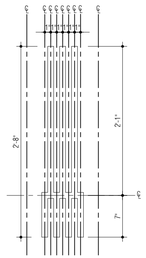

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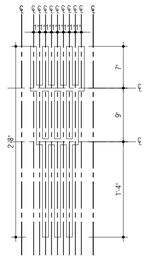

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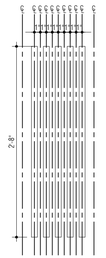

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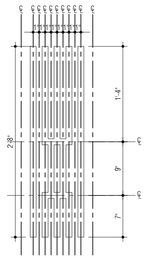

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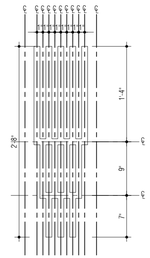

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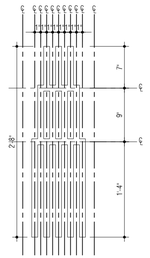

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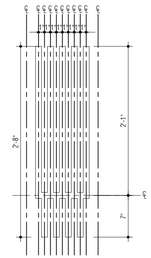

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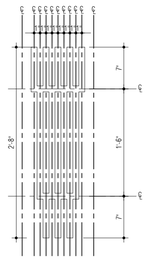

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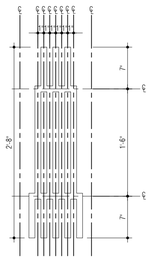

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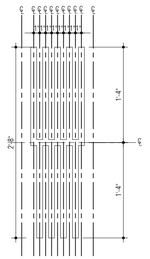

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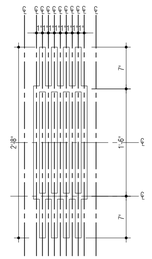

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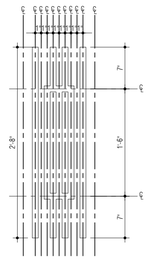

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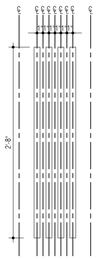

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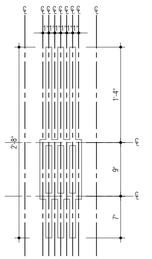

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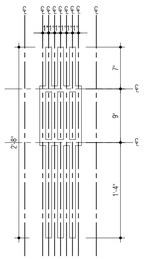

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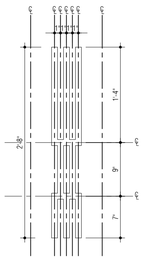

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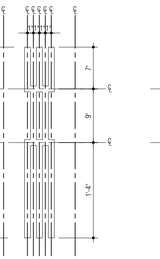

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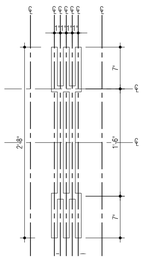

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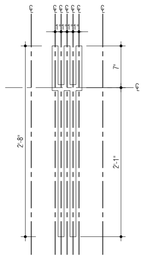

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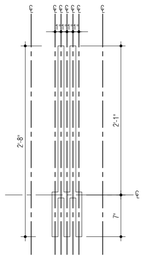

Type 17B

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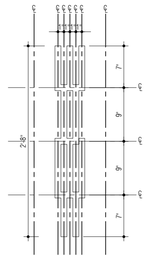

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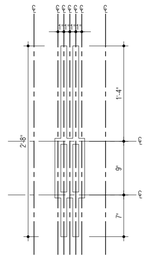

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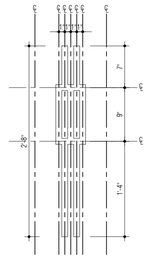

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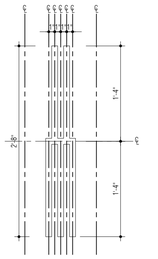

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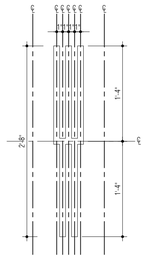

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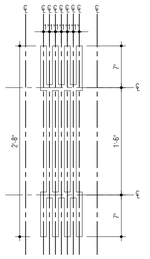

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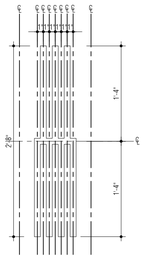

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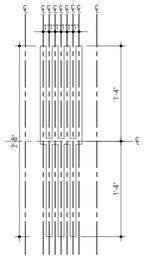

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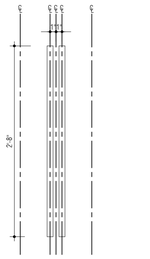

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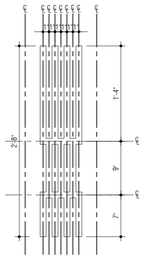

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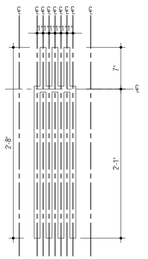

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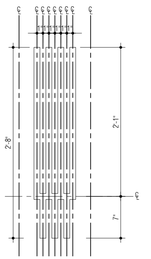

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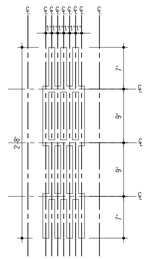

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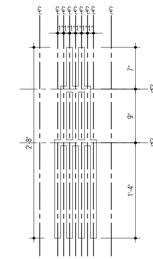

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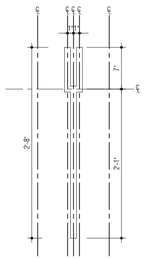

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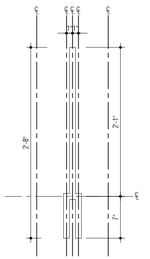

Type 28B

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Type 29

SCALE : 1 " = 1'-0"
QUANTITY: N

Type 30

SCALE : 1 " = 1'-0"
QUANTITY: N

Type 31A

SCALE : 1 " = 1'-0"
QUANTITY: N

Type 31B

SCALE : 1 " = 1'-0"
QUANTITY: N

Type 32A

SCALE : 1 " = 1'-0"
QUANTITY: N

Type 32B

SCALE : 1 " = 1'-0"
QUANTITY: N

Notes:

1.0 Do not scalle dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manriquez botello puerto rico

LIC. MAS 00CC III
EXP. 19.X.2025

CERTIFICACIÓN - COPYRIGHTS + VIEW NAME

Y O
PODRÁN UTILIZARSE SIN LA AUTORIZACIÓN
ESCRITA DE
in.formation studio
ESTOS PLANOS ESTÁN PROTEGIDOS POR LAS LEYES DE PROPIEDAD INTELECTUAL Y DERECHOS DE AUTOR. ESTOS PLANOS Y ESPECIFICACIONES SON PROPIEDAD EXCLUSIVA DE in.formation studio Y NO
DEBERÁN SER COPIADOS, REPRODUCIDOS O PUBLICADOS EN FORMA ALGUNA SIN EL CONSENTIMIENTO ESCRITO DE in.formation studio. ESTOS PLANOS Y ESPECIFICACIONES SON PROPIEDAD EXCLUSIVA DE in.formation studio Y NO DEBERÁN SER COPIADOS, REPRODUCIDOS O PUBLICADOS EN FORMA ALGUNA SIN EL CONSENTIMIENTO ESCRITO DE in.formation studio. ESTOS PLANOS Y ESPECIFICACIONES SON PROPIEDAD EXCLUSIVA DE in.formation studio Y NO DEBERÁN SER COPIADOS, REPRODUCIDOS O PUBLICADOS EN FORMA ALGUNA SIN EL CONSENTIMIENTO ESCRITO DE in.formation studio. ESTOS PLANOS Y ESPECIFICACIONES SON PROPIEDAD EXCLUSIVA DE in.formation studio Y NO DEBERÁN SER COPIADOS, REPRODUCIDOS O PUBLICADOS EN FORMA ALGUNA SIN EL CONSENTIMIENTO ESCRITO DE in.formation studio.

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studio
landscape . architecture . product
6177 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

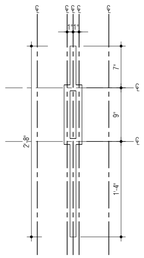
Pavilion - Unfolded Layout Plan

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET #	DRAWN BY / DATE
8	jmb / 05.ii.2024

DISCIPLINE

A-6.3



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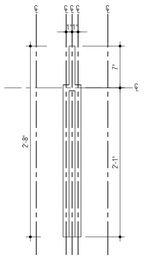

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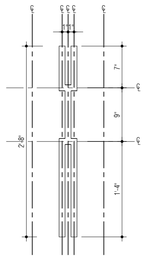

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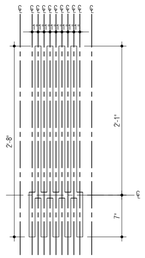

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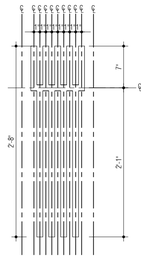

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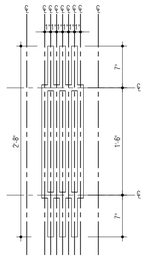

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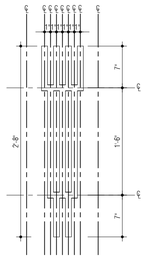

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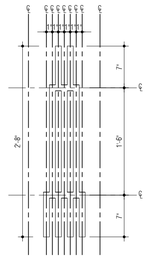

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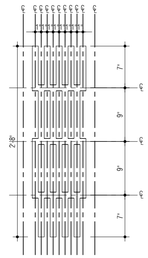

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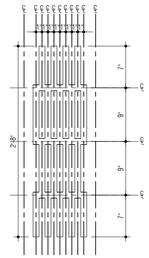

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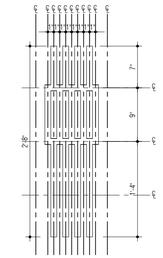

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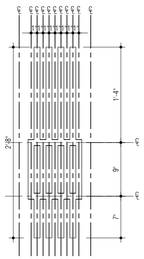

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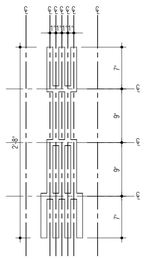

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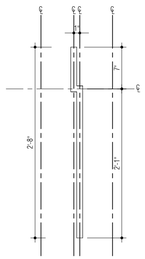

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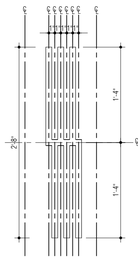

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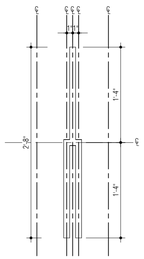

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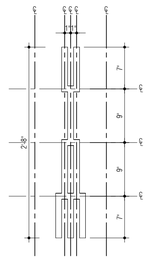

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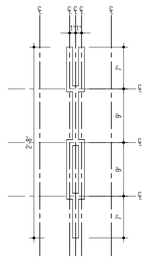

Type 46

SCALE : 1 " = 1'-0"
QUANTITY: N

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL



CERTIFICACIÓN - CERTIFICATE - FIRM NAME

[illegible] CERTIFICACIÓN
CERTIFICATION
EXPEDIENTE: IDENTIFICADO Y PREPARE ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS PARA EL PROYECTO DE REFERENCIA, CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS QUE TIENEN JURISDICCIÓN SOBRE ESTE PROYECTO.
CERTIFICACIÓN, CERTIFICO: IDENTIFIED AND PREPARED THESE PLANES Y ESPECIFICACIONES CUMPLIDO CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCIÓN VIGENTES POR LA PRESENTE LEY NUMERO 96 DEL 9 DE JULIO DE 1975, SEGÚN ENMENDADA.
FIRMA: FIRMADO Y SELLADO POR NOSOTROS, EL PROFESIONAL QUE SUSCRIBE ESTE DOCUMENTO.
SIGNED & PUBLISHED BY THE UNDERSIGNED PROFESSIONAL.
SELLO: ESTE DOCUMENTO ES PARTE INTEGRAL DE LOS PLANOS Y ESPECIFICACIONES.
SEAL: THIS DRAWING AND SPECIFICATIONS ARE AN INTEGRAL PART OF THE PLANS.
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PROJECT TEE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

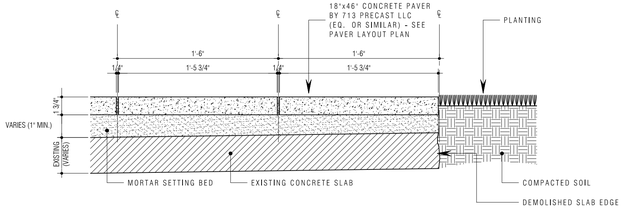
DWG. TITLE

Pavilion - Unfolded Layout Plan

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 8
DRAWN BY jmb
DATE 05.ii.2024
DISCIPLINE

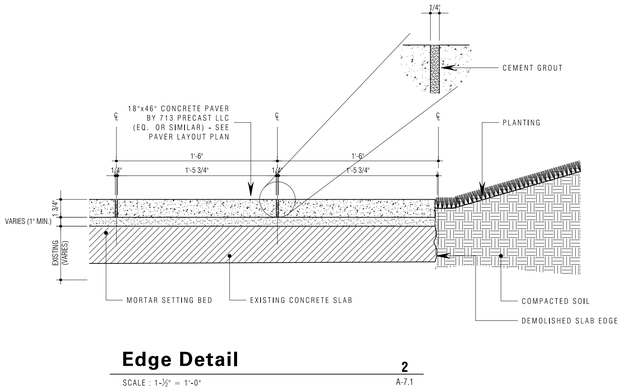
A-6.4



Edge Detail

SCALE : 1-½" = 1'-0"

1 / A-7.1



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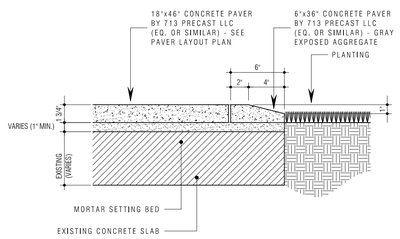
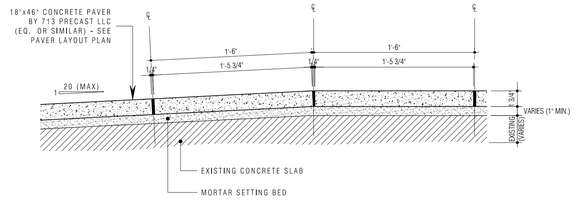
2 / A-7.1



Tree Planter Edge Detail (Typ)

SCALE : 1-½" = 1'-0"

3 / A-7.1



Ramp Detail (Typ)

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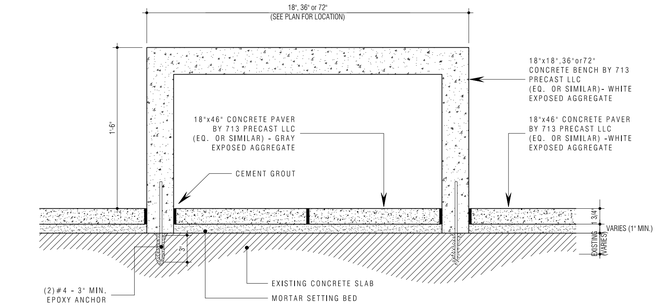
4 / A-7.1



Bench Detail (Typ)

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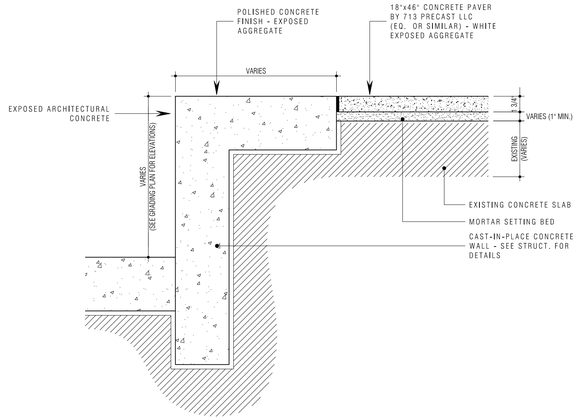
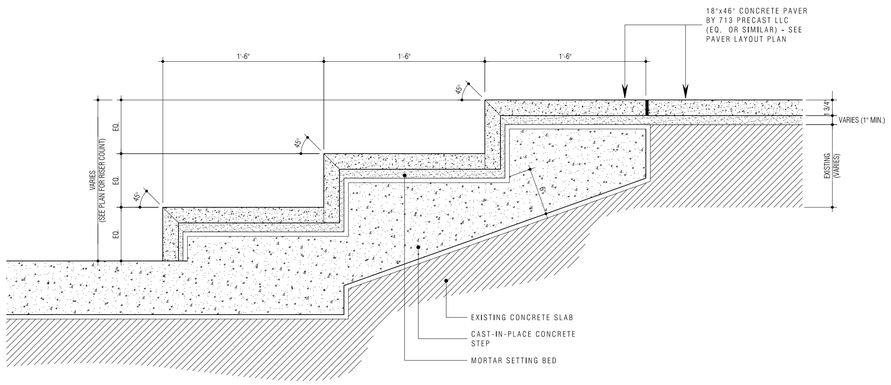
5 / A-7.1



Perimeter Wall Detail (Typ)

SCALE : 1-½" = 1'-0"

6 / A-7.1



Stair Detail (Typ)

SCALE : 1-½" = 1'-0"

7 / A-7.1

Notes:

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4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
LIC. MXX 00CCE-19
EXP. 19.X.2025
puerto rico

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderon Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

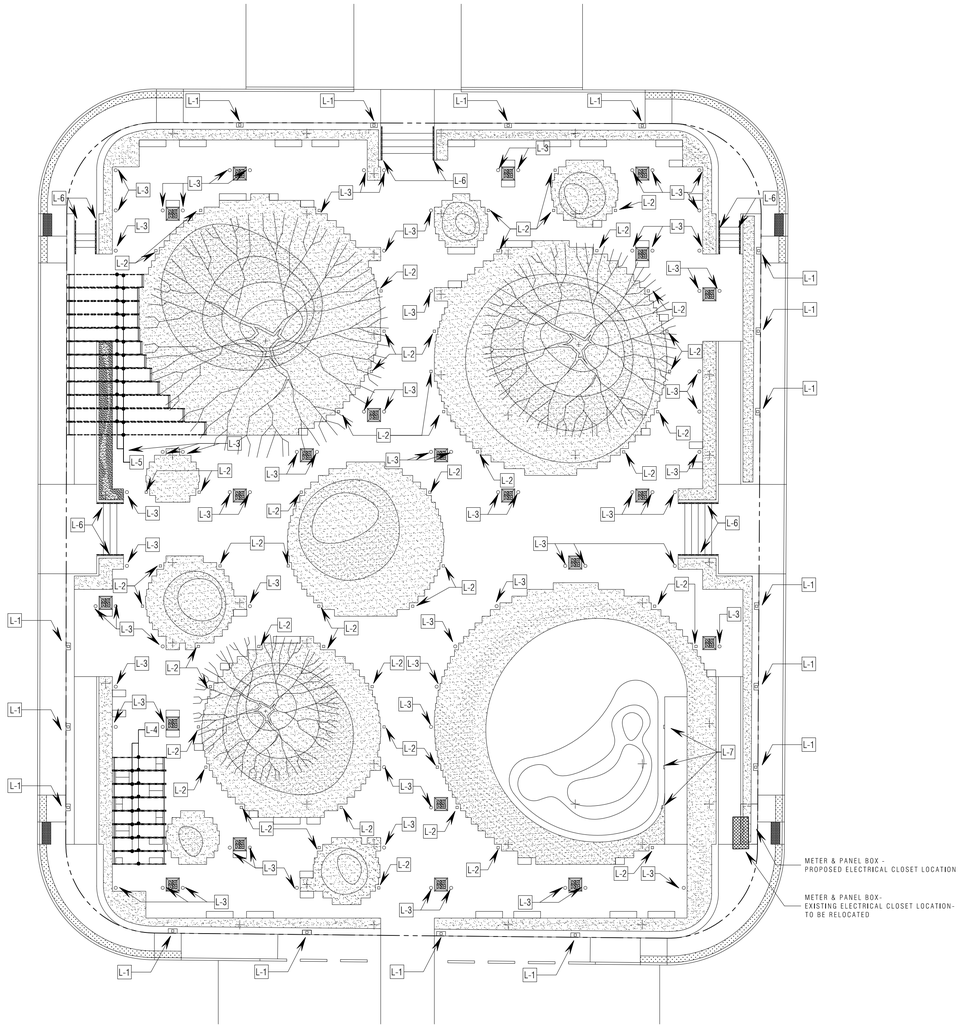
DWG. TITLE

Paper - Details

OWNER
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 8
DRAWN BY jmb
DATE 05.ii.2024
DISCIPLINE

A-7.1



Proposed Lighting Layout Plan

SCALE : 1/16" = 1'-0"

LIGHT FIXTURE SCHEDULE							
ID	DESCRIPTION	HEIGHT	LENGTH	INPUT VOLTAGE (V)	POWER (W)	LOCATION	REQ.
L-1	UVA-20251 VANCOUVER 55 - LIGHT COLUMN - BY LIGMAN LIGHTING	9.8'	-	220 - 240	33	SIDEWALK - SEE LIGHTING LAYOUT	17
L-2	UVA-10151 VANCOUVER 39 - BOLLARD - BY LIGMAN LIGHTING	40"	-	220 - 240	15	VARIES - SEE LIGHTING LAYOUT	51
L-3	UMK-60695 Mask 2 Ingrade 2 Sector 90°/90°	2"	-	220 - 240	8	VARIES - SEE LIGHTING LAYOUT	72
L-4	NEONFLEX PRO V - LINEAR LIGHTING - BY AMERICAN LIGHTING	-	366' (TOTAL LENGTH)	24V DC	3.05 / FT	PAVILION	-
L-5	NEONFLEX PRO V - LINEAR LIGHTING - BY AMERICAN LIGHTING	-	600' (TOTAL LENGTH)	24V DC	3.05 / FT	GALLERY	-
L-6	NEONFLEX PRO V STATIC WHITE - LINEAR LIGHTING - BY AMERICAN LIGHTING	-	9'	24V DC	3.05 / FT	HANDRAIL	10
L-7	HSL13 STATIC WHITE - STEP LIGHT - BY HYDREL	-	-	120 - 277	8	STAGE ENTRY	3

Notes

1-EMT CONDUIT SHALL BE USED EXCEPT WHERE NOT ALLOWED BY N.E.C. OR UNLESS OTHERWISE INDICATED, 3/4" IPS MINIMUM SIZE.

2-EMT FITTINGS SHALL BE CONCRETE TIGHT.

3-THHN WIRE SHALL BE USED UNLESS OTHERWISE INDICATED, #12 A.W.G. MINIMUM SIZE.

4-WIRING DEVICES AND PLATES SHALL BE WHITE COLORED, SPECIFICATION GRADE.

5-ELECTRICAL INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH N.E.C. AND P.R.E.P.A. REGULATIONS, LATEST EDITION.

6-INSTALLATION DETAILS ARE ILLUSTRATIVE AND SHOULD NOT BE USED WITHOUT VERIFYING JOB SITE CONDITIONS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ANY DEVIATION THEREFROM.

7-DIMENSIONS OF JUNCTION OR PULL BOXES SHALL BE REVISED BY ELECTRICAL CONTRACTOR ACCORDING TO ACTUAL FIELD CONDITIONS TO SECURE AT LEAST PERMISSIBLE MINIMUM CABLE BENDING RADIUS.

8-ALL CONVENIENCE RECEPTACLES SHALL HAVE A #12 GREEN JUMPER BETWEEN RECEPTACLE GROUNDING SCREW AND THE OUTLET BOX GROUNDING SCREW.

9-CONNECTIONS IN WIREWAYS SHALL BE MADE BY USE OF CABLE CONNECTION BLOCKS EQUAL OR SIMILAR TO "KEYTAP" AS MANUFACTURED BY KEYSTONE MFG. CORP.

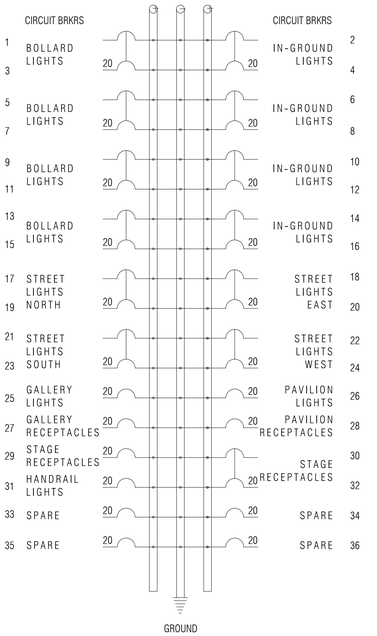
10-RACEWAY SHALL BE PROVIDED WITH APPROVED EXPANSION FITTINGS WHERE CROSSINGS BUILDING EXPANSION JOINT.

11-ELECTRICAL CONTRACTOR SHALL PROVIDE POWER & CONNECT ALL EQUIPMENT FURNISHED UNDER OTHER SECTION OF THE SPECIFICATIONS. FINAL CONNECTION SHALL BE DONE UNDER THE SUPERVISION OF THE RESPECTIVE CONTRACTORS.

12-LAUNDRY RECEPTACLES SHALL BE INSTALLED 6' ABOVE WATER FAUCETS SERVING WATER.

13-ANY UNDERGROUND CONDUIT FOR SECONDARY FEEDER SHALL BE BURIED AT A MINIMUM DEPTH OF 36" BELOW FINISHED GRADE, UNLESS COVERED BY 4" CONCRETE ENVELOPE IN WICH CASE MINIMUM DEPTH SHALL BE 18" BELOW FINISHED GRADE.

ELECTRICAL LOAD DISTRIBUTION
PANEL NO:1
RECESSED MOUNTED
100 AMPS CIRCUITS
120/220 VOLTS SINGLE PHASE



Demolition notes

1-CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT AND MATERIALS FROM AREAS TO BE REMODELED, TAKING CARE THAT CIRCUITS THAT ARE TO BE KEPT ENERGIZED, ARE COORDINATED TO MAINTAIN THESE SERVICES.

2-EXISTING CIRCUITS AFFECTED BY THIS REMODELING SHALL BE VERIFIED SO THAT THEY ARE LEFT WITHOUT SHORTS AND FREE FROM ANY DEFECTS.

3-IN ALL AREAS TO BE REMODELED, THE CONTRACTOR SHALL REMOVE ALL CONDUITS NOT EMBEDDED IN CONCRETE. CONDUITS EMBEDDED IN CONCRETE THAT ARE TO BE ABANDONED SHALL REMAIN WITHOUT ANY CONDUCTORS. ALL BOXES SHALL BE PROVIDED WITH BLANK PLATES.

4-CONTRACTOR SHALL VERIFY IN FIELD ALL ELECTRICAL OUTLETS, SWITCHES AND JUNCTION BOXES. SOME MAY BE RELOCATED TO MEET ARCHITECTURAL INTENTIONS.

TL812 OR APPROVED
BRANCH SERVICE CONDUIT 3#2
THW/1-8THW IN 1 1/2" PVC

DISTRIBUTION PANEL TYPE
GENERAL ELECTRIC MODEL NO

RANGE CIRCUIT 3#6 THW IN 3/4" PVC
ALL OTHER CIRCUIT 3#12 THW IN 1/2" PVC
(GROUND ALL CIRCUITS WITH 1#12 THW)

NOTE: 3 WIRE WITH GROUND REQUIRED FOR ALL CEILING OUTLETS.

Legend

J	JUNCTION BOX IN HUNG CEILING
J	WALL MOUNTED JUNCTION BOX, HEIGHT AS SHOWN ON DWGS.
	CEILING LIGHTING OUTLET.
	WALL LIGHTING OUTLET.
	FLOOD LIGHTING OUTLET.
	LINEAR CEILING LIGHTING OUTLET.
	DUPLEX RECEPTACLE 20A- 125V- 3W- GD. TYPE.
	DUPLEX SPLIT WIRE RECEPTACLE 20A- 125V- 3W, GROUNDING TYPE, ONE SIDE CONTROLLED BY SWITCH, AT 1'-6" A.F.F.
	DUPLEX RECEPTACLE 20A- 125V- 3W GROUNDING TYPE W/G.F.C.I. AT 3'-6" A.F.F.
	SINGLE RECEPTACLE 30A-125/250V-4W-3POLE-GROUNDING TYPE
$	SINGLE POLE SWITCH 20A- 277V- QUIET TYPE, 4'-6" A.F.F.
$ 3W	DITTO, BUT 3 WAY.
$ 4W	DITTO, BUT 4 WAY.
$	DOUBLE POLE SWITCH 30A,250V,3W, QUIET TYPE, AT 4'-0" A.F.F.

	CONDUIT EMBEDDED IN FLOOR SLAB OR WALLS.
	CONDUIT RUN EXPOSED OR EMBEDDED IN WALLS OR CEILING.
	CONDUIT IN HUNG CEILING OR WALLS.
	CONDUIT RUN TO EXISTING PANEL BOARD.
	ELECTRIC PANELBOARD, SEE PANEL SCHEDULE.
E	DENOTES "EXISTING".
A.F.F.	DENOTES "ABOVE FINISH FLOOR".
WP	DENOTES "WATER PROOF".
J	WATER TIGHT PVC JUNCTION BOX.
	COMBINATION MAGNETIC STARTER & FUSIBLE DISCONNECT SWITCH.

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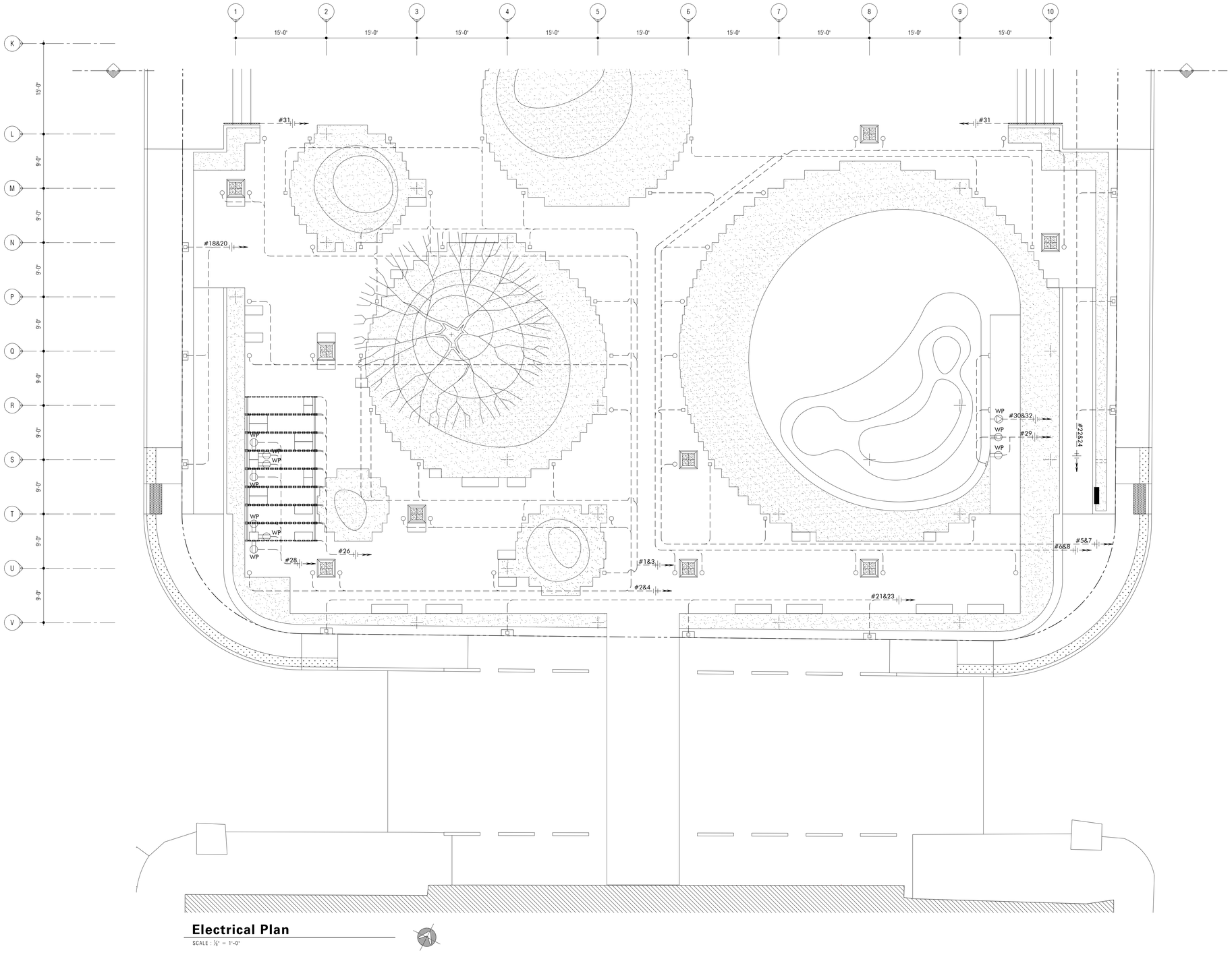
REVISIONS		
1	05.ix.17	Explanation
REV. #	DATE	ISSUING REASON

PROFESSIONAL SEAL

CERTIFICACIÓN - COPYRIGHTS + FINE NAME

[boilerplate boilerplate boilerplate



Electrical Plan

SCALE : 1/8" = 1'-0"

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S. E. U. O.
ESTE PLANO, DISEÑO Y/O IDEA ESTÁN PROTEGIDOS POR LA LEY DE DERECHOS DE AUTOR Y PROPIEDAD INTELECTUAL DE LOS ESTADOS UNIDOS DE AMÉRICA (TÍTULO 17 DEL CÓDIGO DE LOS ESTADOS UNIDOS). CUALQUIER REPRODUCCIÓN, PUBLICACIÓN O DISTRIBUCIÓN NO AUTORIZADA DE ESTE PLANO, DISEÑO O IDEA PUEDE CONSTITUIR UNA VIOLACIÓN DE LA LEY DE DERECHOS DE AUTOR CON CONSECUENCIAS CIVILES Y PENALES. EL INFRACTOR PUEDE ESTAR SUJETO A LA RESPONSABILIDAD POR DAÑOS Y PERJUICIOS, INCLUYENDO HONORARIOS DE ABOGADOS, COSTAS DEL PROCESO Y, EN CASOS EXTREMOS, PENA DE CÁRCEL. ESTE PLANO, DISEÑO O IDEA ES PROPIEDAD INTELECTUAL EXCLUSIVA DE in.formation studio. TODOS LOS DERECHOS RESERVADOS.

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Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

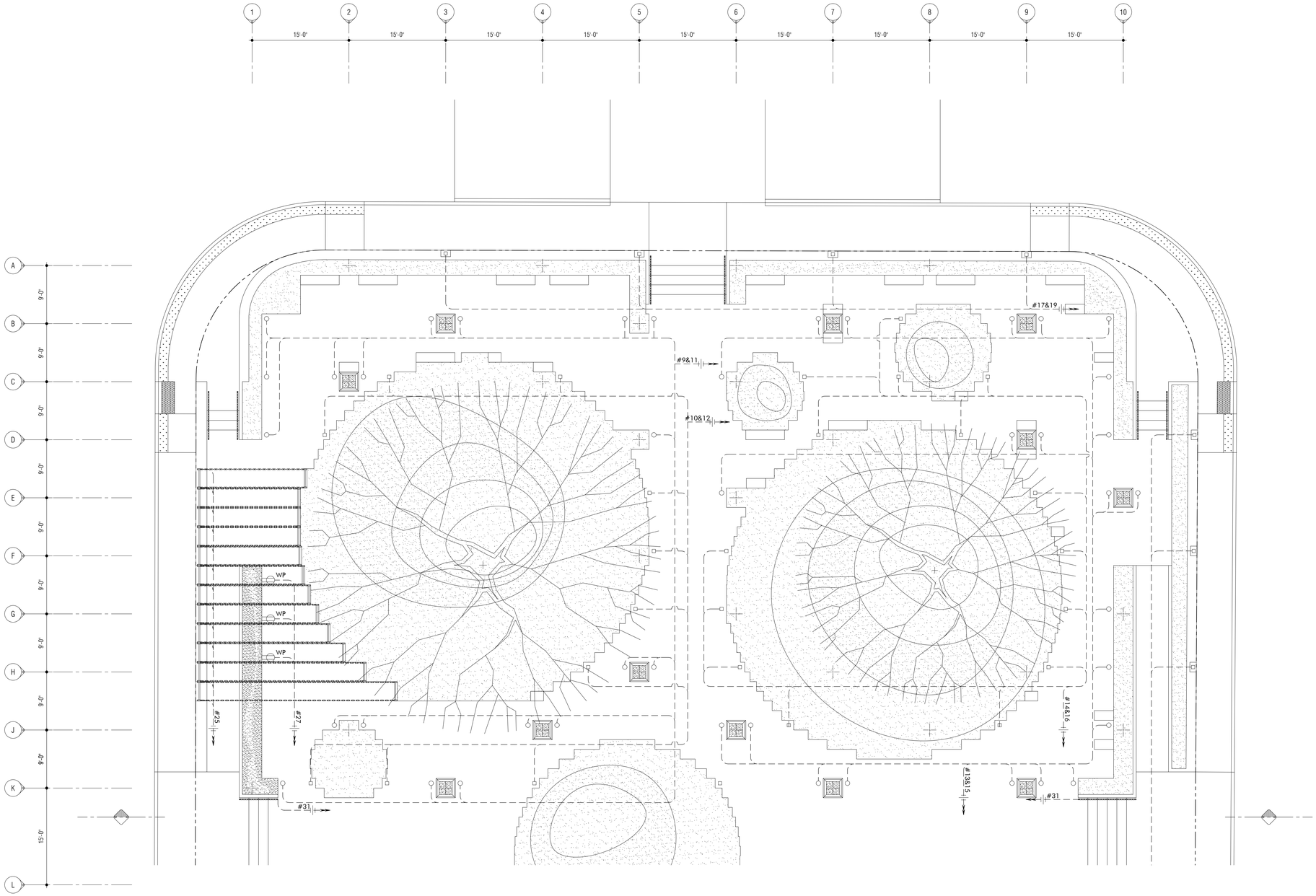
DWG. TITLE

Proposed Electrical Plan

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 8
DRAWN BY jmb
DATE 05.ii.2024
DISCIPLINE

E-1.1



Electrical Plan

SCALE : 1/8" = 1'-0"

Notes:

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REVISIONS:

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

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PROJECT TIES & ADDRESS:

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CONSULTANT:

DWG. TITLE:

Proposed Electrical Plan

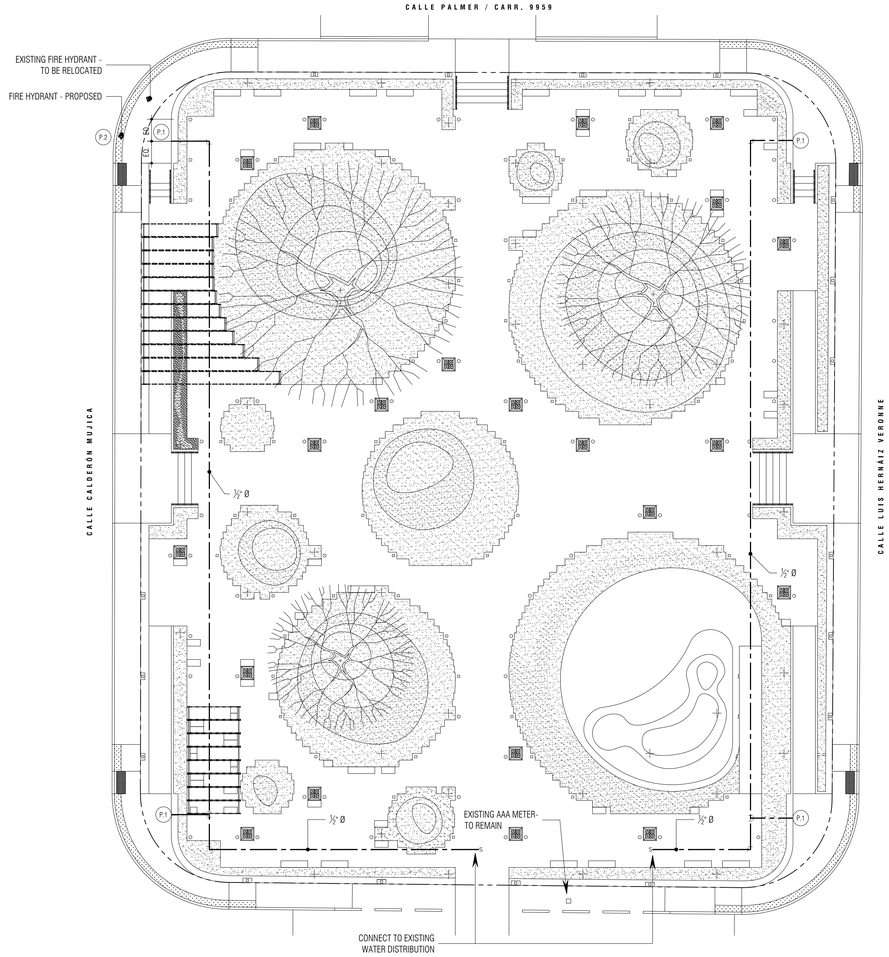
CLIENT:
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

SHEET #	PROJECT PHASE
8	Construction Docs - 90%

DRAWN BY	DATE
jmb	05.ii.2024

DISCIPLINE

E-1.2



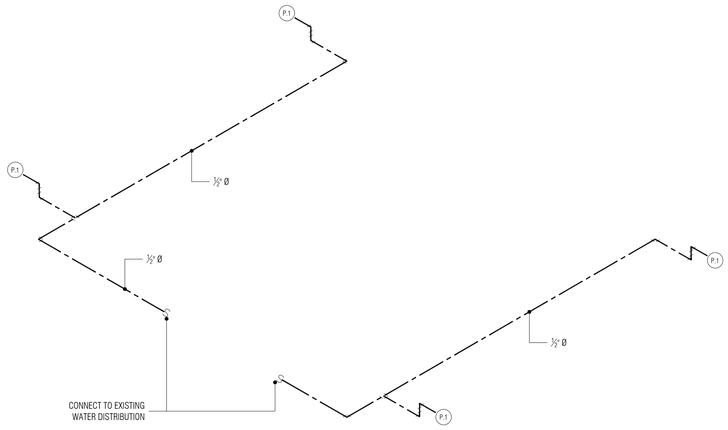
Plumbing Distribution Plan

SCALE : 1/16" = 1'-0"

Legend

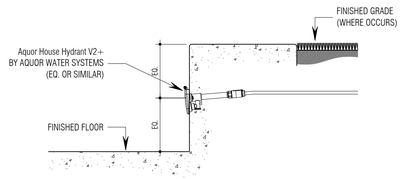
WATER DISTRIBUTION LINE

FIXTURE SCHEDULE					
ID	DESCRIPTION	COLD WATER	HOT WATER	DRAINAGE	REQ,
P-1	WALL HYDRANT	½"	N/A	N/A	4
P-2	FIRE HYDRANT				1



Supply Isometric

NOT TO SCALE



Wall Hydrant Detail

SCALE: 1" = 1'-0"

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REVISIONS

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1	05.ix.17	Explanation

PROFESSIONAL SEAL

CERTIFICADOS - COTTONETE + FIEW NAME

Y O
PARA PROPOSITO DE LICITACION
NO CONSTRUCCION
ESPECIFICACIONES: ESPECIFICADO Y PREPARADO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTAR- IAS, SE HA HECHO DE ACUERDO CON LOS REGLAMENTOS Y PLANES Y ESPECIFICACIONES Y CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRU- CCION VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS C O N JURISDICCION, CERTIFICO: QUE ESTOS PLANOS Y ESPECIFICA- CIONES HAN SIDO PREPARADOS Y ESPECIFICA- DOS BAJO MI SUPERVISION Y CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTES EN LA JURISDICCION ANTES MENCIONADA.
D A D A , F I R M A D O , L A P R E S E N T E Y S E L L A D O E S T A M P I L L A P R O F E S I O N A L

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Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANTS

DWG. TITLE

Plumbing Distribution Plan

CLIENT

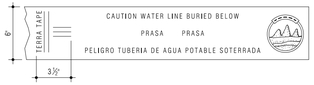
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
6	jmb	05.ii.2024

DESCRIPCION

P-1.0



COLOR:
GREEN

MATERIAL:
ALUMINUM FOIL LAMINATED BETWEEN TWO LAYERS
OF INERT PLASTIC FILM

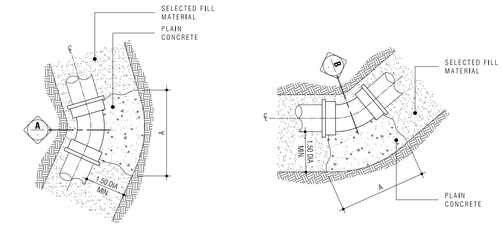
IMPRINT COLOR:
BLACK

COSTUMER:
PRASA SAN JUAN, PR

PRODUCT CODE:
6" 0521556,
3" 0531556

6" Detectable Marking Tape Detail for Water Main

NOT TO SCALE



90° BEND		
DIA.	A	B
0'-4"	2'-0"	2'-0"
0'-6"	3'-0"	3'-0"
0'-8"	4'-0"	4'-0"
0'-10"	4'-0"	4'-0"
1'-4"	7'-0"	7'-0"

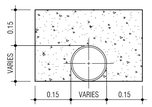
22.5° BEND		
DIA.	A	B
0'-4"	1'-0"	1'-0"
0'-6"	2'-0"	2'-0"
0'-8"	2'-0"	2'-0"
0'-10"	2'-0"	2'-0"
1'-4"	4'-0"	4'-0"

45° BEND		
DIA.	A	B
0'-4"	2'-0"	2'-0"
0'-6"	2'-0"	2'-0"
0'-8"	3'-0"	3'-0"
0'-10"	3'-0"	3'-0"
1'-4"	5'-0"	5'-0"

11.25° BEND		
DIA.	A	B
0'-4"	1'-0"	1'-0"
0'-6"	1'-0"	1'-0"
0'-8"	2'-0"	2'-0"
0'-10"	2'-0"	2'-0"
1'-4"	3'-0"	3'-0"

Thrust Block For Horizontal & Vertical Bends

NOT TO SCALE



Concrete Protection for House Connection Detail

NOT TO SCALE

Plumbing Notes for PRASA

1. ALL WATER METER BOXES TO BE INSTALLED OUTSIDE OF PROPERTY LIMITS, DRIVING LANES, PARKING, OR VEHICULAR ACCESS RAMPS.
2. ALL WATER METERS SHALL REGISTER WATER VOLUME IN CUBIC METERS.
3. ALL WATER METER BOXES TO BE BUILT FROM EITHER FLEXIBLE COPPER TYPE "K" OR BRONZE.
5. ALL BRANCH CONNECTIONS OF MAIN WATER LINE SHALL BE MECHANICAL CONNECTIONS (FLARE OR BOLTED). FOR FLEXIBLE COPPER, TYPE "K" ARE REQUIRED. FOR BRONZE, BOLTED CONNECTIONS ARE REQUIRED. WELDED CONNECTIONS ARE NOT ALLOWED.
6. ALL COLD WATER PIPES INSIDE & OUTSIDE OF BUILDING SHALL BE COPPER TYPE "K".
7. THE HORIZONTAL DISTANCE BETWEEN SANITARY AND WATER SUPPLY HOUSE CONNECTION LINES SHALL BE OF AT LEAST 5 FEET. THESE SHALL NOT BE INSTALLED WITHIN THE SAME EXCAVATION TRENCH.
8. CONTRACTOR SHALL VERIFY ON FIELD EXISTING LOCATION OF MAIN COLD WATER LINES ON STREET AND INSTALL NEW CONNECTIONS AS PER DETAIL.
9. WATER MAIN & CITY SEWER CONNECTIONS SHALL BE AS APPROVED BY P.R.A.S.A.
10. VALVES SHALL BE PROVIDED IN ALL CONNECTIONS OF WATER PIPES AND EQUIPMENTS OF EQUAL SIZE.
11. HORIZONTAL WASTE LINES AND SOIL PIPES LESS THAN 4" DIA. TO BE OF ¼"/FT SLOPE & GREATER THAN OR EQUAL TO 4" DIA. TO BE OF ⅛"/FT SLOPE.
12. ALL P.V.C. DRAIN PIPES AND FITTINGS FOR DRAIN, WASTE, & VENT SERVICE SHALL CONFORM TO THE U.S. DEPARTMENT OF COMMERCE STANDARD TS, 5608, BE MADE FROM POLYVINYL (CHLORIDE) P.V.C. TYPE I OR II COMPOUND OR EQ. AS PER ASTM DESIGNATION D1784 COT. & BEAR THE SEAL OF APPROVAL BY THE NATIONAL SANITATION FOUNDATION.
13. ALL P.V.C. PIPE TO BE SCH. 40 (EXCEPT OTHERWISE SPECIFIED).
14. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS WITH JURISDICTION.
15. THESE DRAWINGS CALL FOR FINISHED WORK, TESTED, BALANCED, AND PREPARED FOR OPERATION. BALANCE RECORDS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO SYSTEM APPROVAL.
16. MINOR DETAILS NOT SHOWN NOR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION, SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S WORK.
17. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCY BETWEEN ACTUAL MEASUREMENTS AND THOSE INDICATED, AND NOT PROCEED WITH THE WORK PRIOR TO RECEIPT OF INSTRUCTIONS FROM THE OWNER.
18. THE CONTRACTOR SHALL WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO AVOID CONFLICT WITH THE WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK, WHILE MAINTAINING THE DESIGN INTENT OF THE ARCHITECT.
19. WHERE REQUIRED, THE CONTRACTOR SHALL PREPARE AND SUBMIT THE NECESSARY SHOP DRAWINGS FOR THE APPROVAL OF THE ARCHITECT.
20. ALL FIXTURES, MATERIALS, & EQUIPMENTS SHALL BE INSTALLED AS PER MANUFACTURER SPECIFICATIONS.
21. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENTS TO BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS.
22. THE CONTRACTOR SHALL PATCH ALL SURFACES AFFECTED BY THE REQUIRED WORK SHOWN IN THESE DRAWINGS.
23. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE OWNER.
24. SLEEVES SHALL BE PROVIDED FOR ALL MECHANICAL PIPING THRU CONCRETE FLOOR SLABS AND CONCRETE, MASONRY, TILE AND DRYWALL CONSTRUCTION.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING SANITARY INVERT ELEVATIONS PRIOR TO ANY CONCRETE POUR. AND NOTIFYING THE ARCHITECT IF ANY SANITARY SLOPE CAN NOT BE ACHIEVED.
26. FINAL SANITARY AND POTABLE WATER CONNECTIONS ARE SUBJECT TO P.R.A.S.A. APPROVAL.

General Notes

1. ALL PLUMBING TO BE COORDINATED BETWEEN GENERAL CONTRACTOR, PLUMBING SUB-CONTRACTOR, AND ARCHITECT.
2. REFER TO ARCHITECTURAL DRAWINGS FOR REFERENCE AND UTILITIES LOCATION.
3. ANY ISSUES, DISCREPANCIES, OR CONFLICTS BETWEEN THE ARCHITECTURAL INTENTIONS AND ANY OTHER DISCIPLINE MUST BE BROUGHT FORTH SO THAT ALL PARTIES CAN PROPOSE SOLUTIONS.
4. PLUMBING DIAGRAMS ARE TO BE INTERPRETED AS BEST THE SITUATION ALLOWS AS TO NOT CONFLICT WITH THE ARCHITECT'S INTENTIONS.
5. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE AND THE NATIONAL PLUMBING CODE (A.S.A-A 40.8-1955) SPECIFICATION ISSUED OF THIS PROJECT.
6. ALL PLUMBING MATERIAL SHALL BE AS INDICATED IN SPECIFICATION ISSUED FOR THIS PROJECT,EXCEPT OTHERWISE NOTED OR CALLED FOR BY OWNER.
7. ALL VALVES SHALL BE PROVIDED IN THE WALL ON FLOOR OR AS R.Q.D.
8. LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
9. ALL HORIZONTAL PORTIONS OF SOIL AND WASTE STACKS AND BRANCHES, SHALL BE OF SLOPE 1/4" PER FEET,EXCEPT AS FOR OTHERWISE SHOWN.
10. ALL PIPES SHALL BE ADEQUATE AND SUPPORTED ON HANGERS OR CARRIERS AS R.Q.D. HANGERS SHALL BE PLACE AT 8 FEET INTERVALS FOR PIPE SIZES UP TO 4" DIAMETER.
11. THE SIZE GIVEN IN FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE USED EXCEPT IN SOME CASES WHERE THEY SHALL BE INCREASED AS R.Q.D.BY PLUMBING CODE.
12. THE PLUMBING CONTRACTOR SHALL SEEK APPROVAL AND ADVICE FROM THE ARCHITECT AND STRUCTURAL ENGINEER FOR THE LOCATION OF PIPES INSIDE STRUCTURAL CONCRETE, COMPLYING WITH A.C.I. BUILDING CODE,ART 703 LATEST EDITION.

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

CERTIFICADOS - CERTIFICATES - NEW NAME

[illegible] CERTIFICADO # PLANOS (CESE)
PLANOS Y LAS CORRESPONDENCIAS COMPLEMENTARIAS
PREPARADOS BAJO MI SUPERVISIÓN CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS QUE SON JURISDICCIÓN. CERTIFICO: [illegible] PLANOS Y ESPECIFICACIONES CUMPLIDO CABALMENTE CON LOS REQUISITOS DE LA COMPAÑÍA ASEGURADORA EMISORA DE LAS PÓLIZAS DE RESPONSABILIDAD PROFESIONAL QUE LES ACOMPAÑAN. [illegible] PROJECTS PER NOTICE-S.SWITCHES, D.PER [illegible] ARCHITECTS, [illegible] LONDON * UNDERWRITERS AND ITS CONTENTS ARE INFORMATION STUDIO REVIEW. [illegible] NOTICE. [illegible] OFFICE.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderon Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

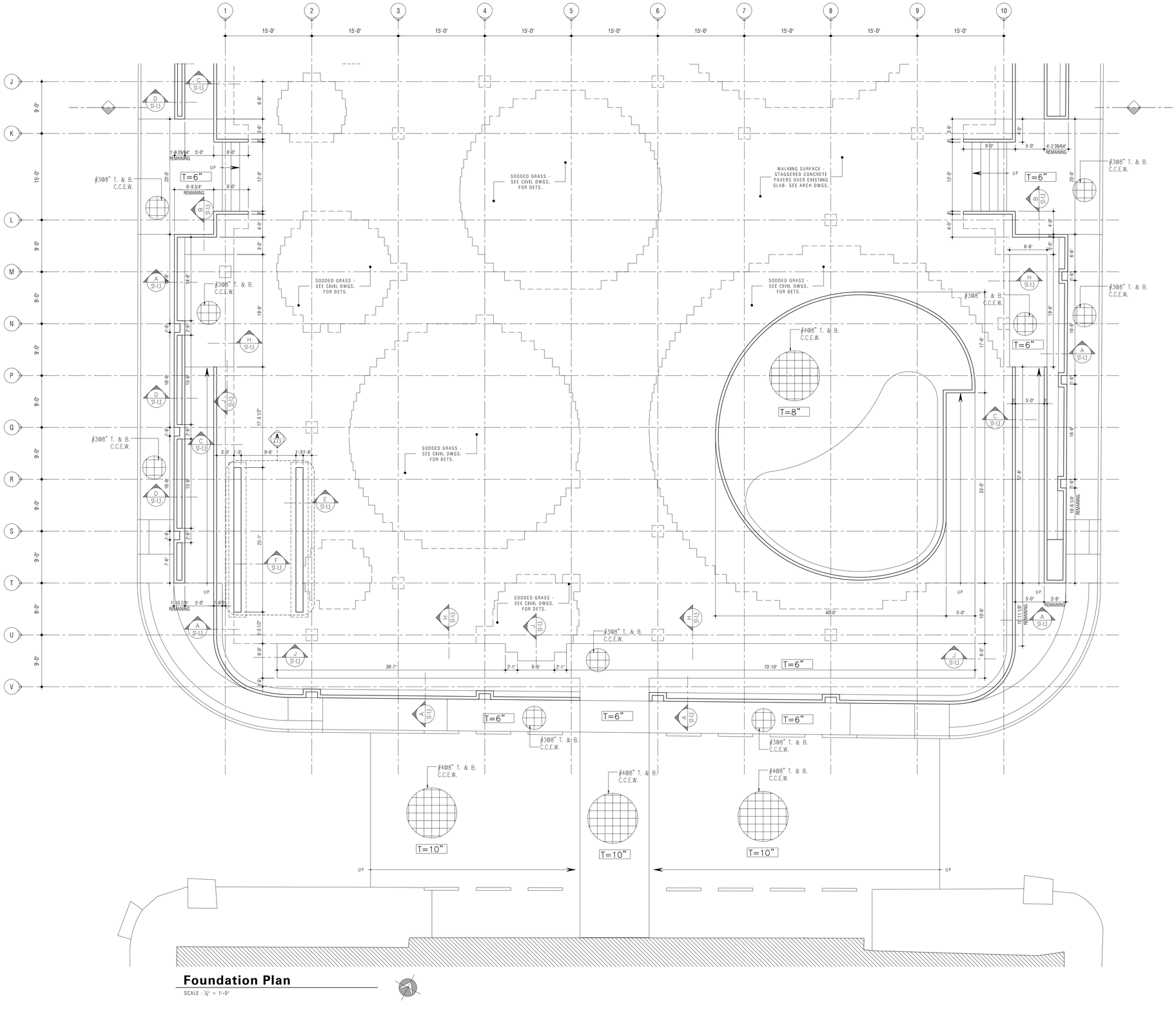
DWG. TITLE

Plumbing Notes & Details

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 6
DRAWN BY jmb
DATE 05.ii.2024
DISCIPLINE

P-1.1



Foundation Plan

SCALE : 1/8" = 1'-0"

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PROFESSIONAL SEAL

CERTIFICADOS - CERTIFICATES - NEW NAME

LEY NÚMERO 50 DEL 4 DE AGOSTO DE 1988, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY ORGÁNICA DE LA OFICINA DE ÉTICA GUBERNAMENTAL DE PUERTO RICO", ESTABLECE EL POR MEDIO DEL PRESENTE CERTIFICO QUE HE CUMPLIDO CABALMENTE CON LAS DISPOSICIONES DE DICHA LEY. ASIMISMO, CERTIFICO QUE NINGÚN EMPLEADO O FUNCIONARIO PÚBLICO QUE HAYA PARTICIPADO EN LA TOMA DE DECISIONES O EN LA REDACCIÓN DE ESTE CONTRATO, HA TENIDO INTERÉS PECUNIARIO DIRECTO O INDIRECTO EN EL MISMO DURANTE EL PERÍODO DE SU NOMBRAMIENTO O EMPLEO Y POR UN AÑO DESPUÉS DE CESAR EN SUS FUNCIONES.

PURSUANT TO LAW NUMBER 50 OF AUGUST 4, 1988, AS AMENDED, KNOWN AS THE "ORGANIC LAW OF THE OFFICE OF GOVERNMENTAL ETHICS OF PUERTO RICO", I HEREBY CERTIFY THAT I HAVE COMPLIED FULLY WITH THE PROVISIONS OF SAID LAW. I ALSO CERTIFY THAT NO EMPLOYEE OR PUBLIC OFFICIAL WHO HAS PARTICIPATED IN THE MAKING OF THIS CONTRACT, HAS HAD A DIRECT OR INDIRECT PECUNIARY INTEREST IN THE SAME DURING THE PERIOD OF HIS APPOINTMENT OR EMPLOYMENT AND FOR ONE YEAR AFTER LEAVING OFFICE.

THIS PROJECT MANUAL, PARTS, PARTICULARS OR ANY SUCH DOCUMENT AS THE RESPONSIBILITY CONSIGNED HEREIN IS STRICTLY PROHIBITED WITHOUT THE WRITTEN CONSENT AND SHALL BE RETURNED TO in.formation studio.

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CONSULTANT

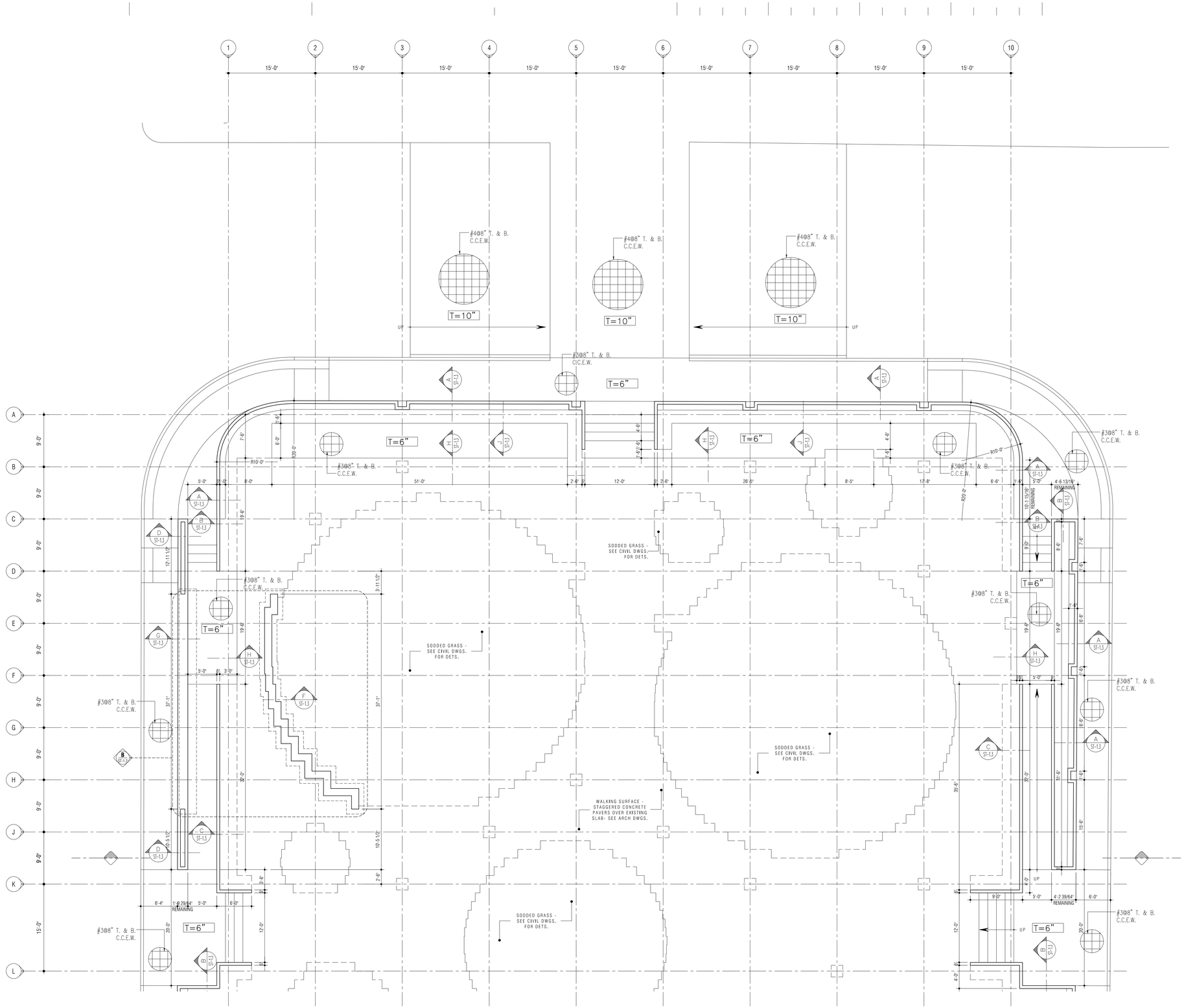
DWG. TITLE

Foundation Plan

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 8
DRAWN BY jmb
DATE 05.ii.2024
DISCIPLINE

ST-1.0



Foundation Plan Cont.

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PROFESSIONAL SEAL:

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

Y O
FIRMA PROFESIONAL REGISTRADA
CERTIFICACIÓN
CERTIFICACIÓN: ESPECIFICACIONES Y PLIEGOS (CESE)
PLANOS Y LAS ESPECIFICACIONES COMPLEMENTAN-
MES. TES PREPARADOS PARA ESTE PROYECTO CUMPLEN
PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUC-
CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTARIAS Y O CORPORACIONES
PÚBLICAS JURISDICCIÓN. CERTIFICO:
C E R T I F I C A C I O N
C E R T I F I C A T E
CUMPLEN CABALMENTE
CON LOS REQUISITOS DE
COMPRENSIÓN (CHAPTER)
ENCONTRADOS POR LA PRESE-
LEY NUMERO 96 DEL 9 DE
JULIO DE 1976, DE LA JUNTA DE PLANIFICACIÓN
SEGÚN ENMENDADA. Y PARA LOS PROPÓSITOS
ANTE PRESENTE. ESTOS PLANOS Y ESPECIFICACIONES
SON PARA DISEÑADOS POR MI, BAJO MI DIRECTA
SUPERVISIÓN Y CONTROL
EN CUMPLIMIENTO CON
LOS REQUISITOS DE LA
LEY NÚMERO 173 DEL 12
DE AGOSTO DE 1988,
SEGÚN ENMENDADA.
ESTOS PLANOS Y ESPECIFICACIONES
SON PARA DISEÑADOS
POR MÍ, BAJO MI DIRECTA
SUPERVISIÓN Y CONTROL
EN CUMPLIMIENTO CON
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DE AGOSTO DE 1988,
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DONNEL AND FOR THE
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CONSULTANT:

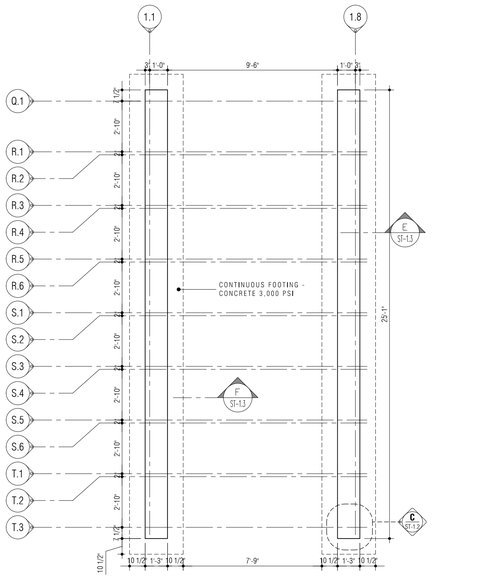
DWG. TITLE:

Foundation Plan Cont.

CLIENT:
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #: 22-01
PROJECT PHASE: Construction Docs - 90%
SHEET #: 8
DRAWN BY: jmb
DATE: 05.ii.2024
DISCIPLINE:

ST-1.1



Pavilion - Foundation Plan A

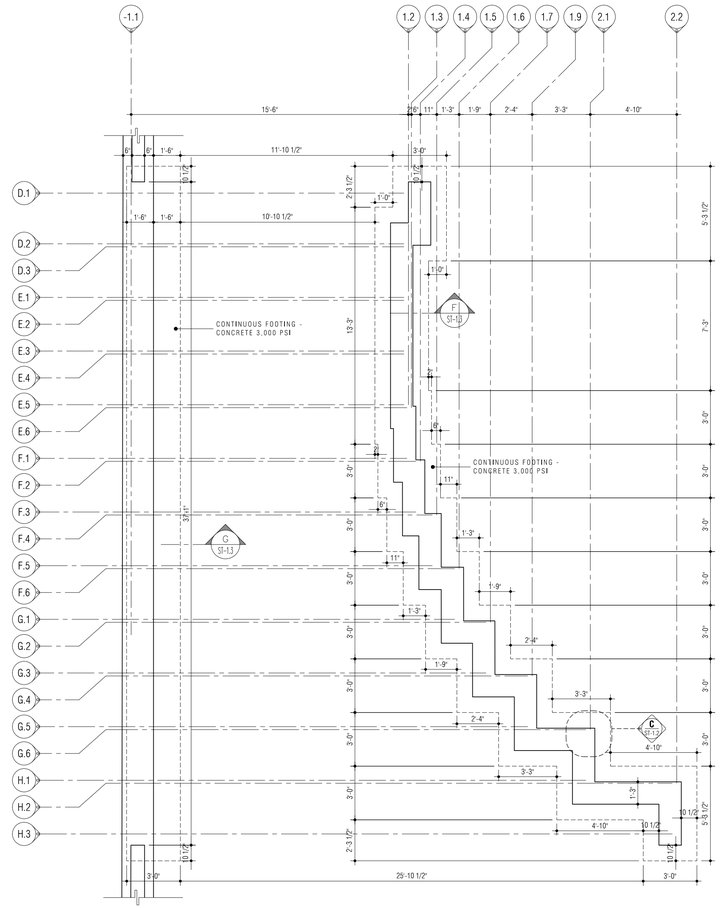
SCALE : 1/4" = 1'-0"

ST-1.2

Base Plate Detail C

SCALE : 1-½" = 1'-0"

ST-1.2



Gallery - Foundation Plan B

SCALE : 1/4" = 1'-0"

ST-1.2

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

CERTIFICACIÓN - CUTTYHUNK - NEW NAME

SEL. [illegible] DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS [illegible] ESTADO LIBRE ASOCIADO DE PUERTO RICO, COMO LA [illegible] ETHM FUNTION- JULIO DE 1975, [illegible] PARA PROSEGUIR CON LA [illegible] SEGUN TA SEA [illegible] REPRESENTADO. P.E.R. - I.A. THE UNITED- LLC, AND [illegible] ENTRE- PUER-

[illegible] CERTIFICADO Y PUESTO AL DÍA POR EL COLEGIO DE INGENIEROS Y AGRIMENSORES DE PUERTO RICO, ESTÁ DEBIDAMENTE AUTORIZADO A EJERCER LA PROFESIÓN DE INGENIERÍA EN EL ESTADO LIBRE ASOCIADO DE PUERTO RICO. [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS ESTATALES Y FEDERALES VIGENTES. [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible] CERTIFICADO Y PUESTO AL DÍA POR EL COLEGIO DE INGENIEROS Y AGRIMENSORES DE PUERTO RICO, ESTÁ DEBIDAMENTE AUTORIZADO A EJERCER LA PROFESIÓN DE INGENIERÍA EN EL ESTADO LIBRE ASOCIADO DE PUERTO RICO. [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible]

[illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible] DISEÑOS Y PLANOS ESPECIFICADOS CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO, INCLUYENDO LA [illegible]

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Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Foundation Blowup Plan

CLIENT

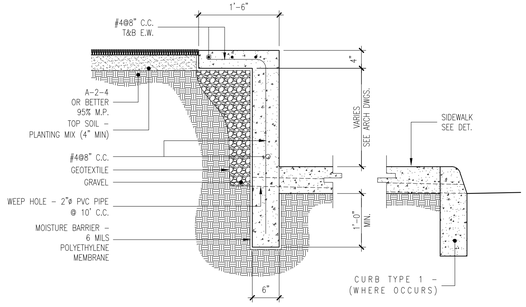
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
8	jmb	05.ii.2024

DESIGN UNIT

ST-1.2



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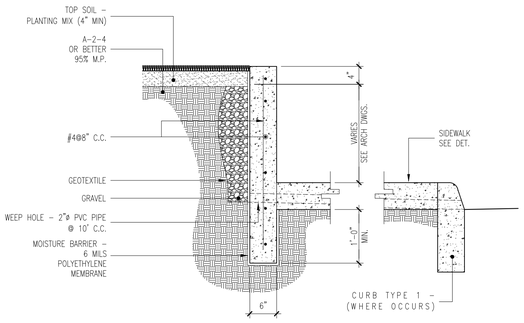

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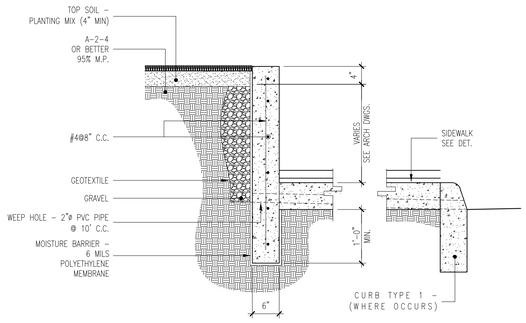

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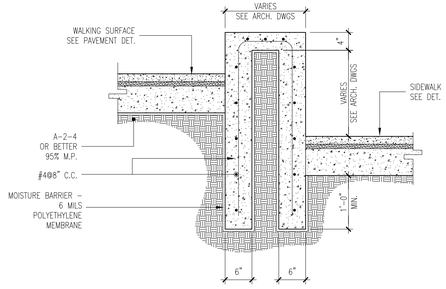

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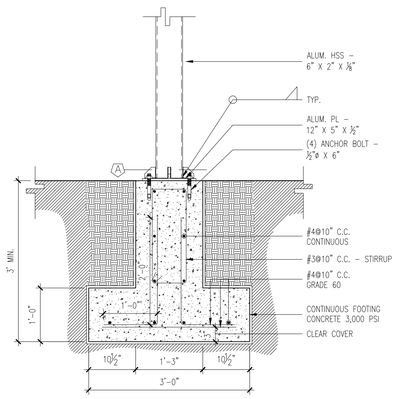

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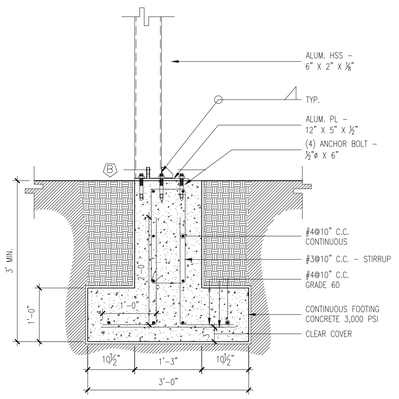

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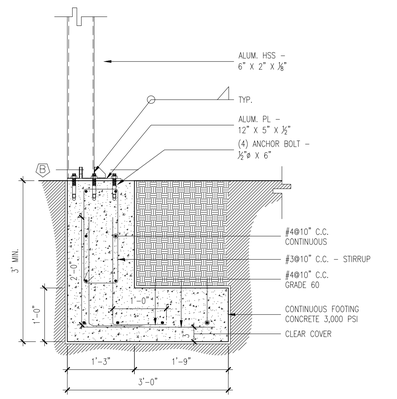

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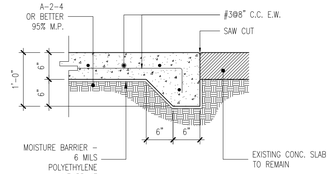

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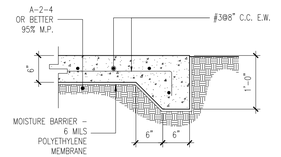

FOOTING SECTION (J / ST-1.3)
SCALE=3/4"=1'-0"

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

CERTIFICACIÓN - COTTIMENTO - FIRM NAME

[illegible] PARA TRAMITACIÓN EXPEDICIÓN DE PERMISO

CERTIFICACIÓN: ESPECIFICACIONES Y PLANOS LISTOS
PLANOS Y LAS ESPECIFICACIONES COMPLEMENTAN-
SE MUTUAMENTE. EL CONTRATISTA DEBE ESTUDIAR LOS
PLANOS Y ESPECIFICACIONES Y CUMPLIR CON LAS
DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUC-
CIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES
PÚBLICAS
C O N
S T R U C
CIONES SE HA
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RADO Y
ESTÁN LA "1ST
STIMA FUENTE-
JULIO DE 1979.
LOS PLANOS
HAN PASADO-
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REVISADOS Y
ESTAMPADOS
P O R - LA
THE UNITED-
S.E. AND
THE STATES-
PUER-
JUDICATURA, CERTIFICA:
LOS PLANOS Y ESPECIFICACIONES
PLANOS Y ESPECIFICACIONES
CUMPLEN CABALMENTE
CON LAS DISPOSICIONES DE LA
REGLAMENTACIÓN VIGENTES
ENDOSADO POR LA PROFE-
LEY NÚMERO 96 DEL 9 DE
JULIO DE 1976, SEGÚN
ENMENDADA.
DERECHOS RESERVADOS
D.R.M.P.I.A. A
REGLERA Y SON LA
SEGÚN ENMENDADA.
PROPIEDAD INTELECTUAL
DERECHOS RESERVADOS
D.R.M.P.I.A. O PUN
POR MC. MAS ASENTES
SEGÚN ENMENDADA.
EN CUALQUIER CASO,
DEPS: THIS DRAWING
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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

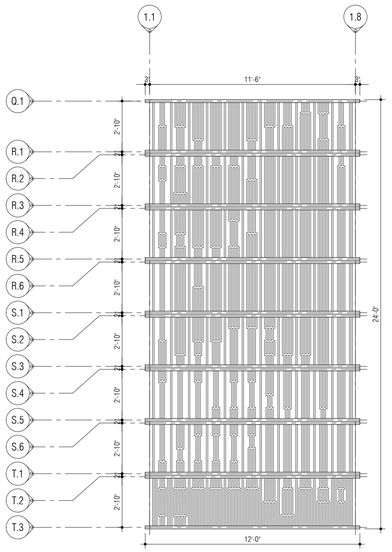
Foundation Details

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET # 8	DRAWN BY jmb
	DATE 05.ii.2024

DESIGN INFO

ST-1.3

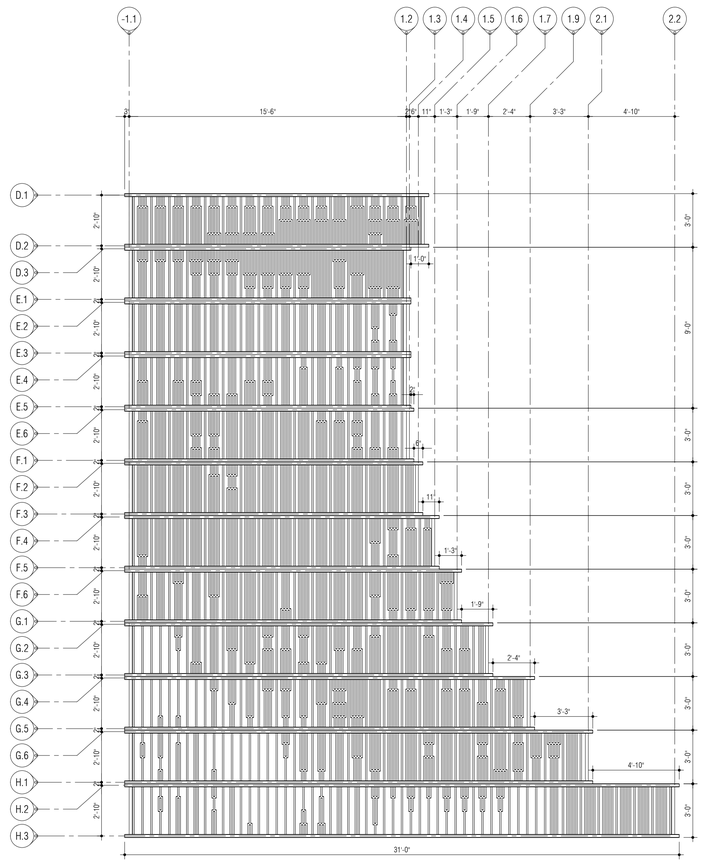


Pavilion - Structural Plan

A

SCALE : ¼" = 1'-0"

ST-2.0

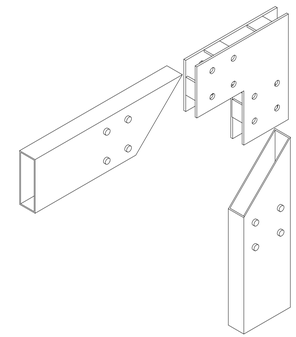


Gallery - Structural Plan

B

SCALE : ¼" = 1'-0"

ST-2.0

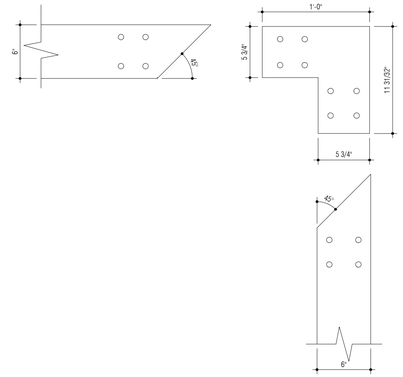


Connection Axonometric

B

SCALE : ¼" = 1'-0"

ST-2.0



Connection Detail

B

SCALE : 1-½" = 1'-0"

ST-2.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

DERECHOS DE AUTOR - COPYRIGHTS - FIRM NAME

V O
PLANOS, MEMORIAS Y ESPECIFICACIONES
DE CONSTRUCCION

ESTE DOCUMENTO CONSTITUYE Y PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, PARA USO EN EL LUGAR DE LA OBRA. LOS PLANOS Y ESPECIFICACIONES COMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS

C O N

J U R I S D I C C I O N

ESTE DOCUMENTO SE HA PREPARADO PARA SER UTILIZADO EN LA LOCALIDAD DE PUERTO RICO. COMO LA "STRUCTURAL PROFESSIONAL" DE ESTE PROYECTO, EL ARQUITECTO NO ASUME RESPONSABILIDAD POR EL USO DE ESTE DOCUMENTO EN OTRAS JURISDICCIONES.

C E R T I F I C A C I O N

ESTE ARQUITECTO CERTIFICA QUE LOS PLANOS Y ESPECIFICACIONES COMPLIERON CABALMENTE CON LAS LEYES APLICABLES DE PUERTO RICO.

S E G U R A

P A R A L A

REGULACION Y CON LA INTENCION DE QUE SEAN EMBOSADAS. SOLO LOS PLANOS SELLADOS POR MI, NO ASENTOS SELLADOS, SON LOS UNICOS DOCUMENTOS CALCULADOS COMO ESTE. THIS DRAWING LEGAL PROPERTY OF SHALL BE USED AS A CONSTRUCTION DOCUMENT ONLY BY AUTHORIZED SIGNED AND FOR THE

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PROPIEDAD DE ESTE DOCUMENTO

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Carolina, PR, 00979 - Office Tel: +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Structural Plan

CLIENT

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
8	jmb	05.ii.2024

DESCRIPTION

ST-2.0

STRUCTURAL NOTES, GENERAL DETAILS & DEMOLITION SEQUENCE

DESIGN & CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS AND PROVISION OF THE FOLLOWING CODES AND SPECIFICATIONS:

1. AMERICAN CONCRETE INSTITUTE
2. UNIFORM BUILDING CODE, UBC 1997
3. AMERICAN SOCIETY FOR TESTING AND MATERIALS
4. CONCRETE REINFORCING STEEL INSTITUTE
5. AMERICAN WELDING SOCIETY
6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION

DESIGN LOADS:

1. GRAVITARY LIVE LOADS (100 PSF OPEN TERRACE) . . . . . UBC 1997
2. GRAVITARY LIVE LOADS (40 PSF ROOF) . . . . . UBC 1997
3. WIND LOADS. ASCE-7
4. EARTHQUAKE LOADS. . . . . UBC 1997

CAST-IN-PLACE REINFORCED CONCRETE:

1. CONCRETE SHALL HAVE A 28-DAY ULTIMATE COMPRESSIVE STRENGHT AS SET FORTH BELOW:

   A. WALLS, SLAB, BEAMS ..... 4,000 PSI.
   B. ALL OTHERS ..... 4,000 PSI.

2. SLUMP OF CONCRETE SHALL NOT EXCEED 4" UNLESS A HIGH RANGE WATER-REDUCING ADMIXTURE IS USED. THE SLUMP OF CONCRETE PRIOR TO ADDITION OF A HIGH RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 4". THE SLUMP OF CONCRETE CONTAINING A HIGH RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 10".
3. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE BETWEEN 4 AND 8 PERCENT.
4. THE NOMINAL COARSE AGGREGATE SIZE SHALL BE A MINIMUN OF 3/4" IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL
5. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STREGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS FOR EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY A REGISTERED LICENSED ENGINEER. PHYSICAL TESTS RESULTS FOR COARSE AND FINE AGGREGATES SHALL ALSO BE SUBMITED CERTIFIEDX BY A REGISTERED ENGINEER.
6. REINFORCING SHALL CONFORM TO ASTM A615, GR60, UNLESS NOTED OTHERWISE ON SPECS AND/OR DRAWINGS.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
8. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH ACI DETAILING MANUAL 1994 (SP-66)
9. ALL REINFORCING SHALL BE SUPPORTED IN FORMS USING STEEL CHAIRS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH CRSI "MANUAL OF STANDAR PRACTICE" (1989).
10. MINIMUN CONCRETE COVER, UNLESS NOTED OTHERWISE, AS FOLLOWS:
    UNFORMED SURFACE IN CONTACT WITH THE GROUND . . . . . 3 IN.
    FORMED SUFACES EXPOSED TO EARTH OR WEATHER
    #6 BARS AND LARGER..... 2 IN.
    #5 BARS AND SMALLER..... 1-1/ IN.
    FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
    BEAMS, GIRDERS, COLUMNS, AND GRADE BEMAS.. 1-1/2 IN.
    SLABS, WALLS
    #11 BARS AND SMALLER..... 3/4 IN.
    #14 AND #18 BARS..... 1-1/2 IN.
11. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE, WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "C" SPLICES.

TENSION SPLICES (INCHES)							COMPRESSION SPLICES (INCHES)
BAR SIZE	TOP BARS A	TOP BARS B	TOP BARS C	OTHER BARS A	OTHER BARS B	OTHER BARS C	
#3	13	16	21	12	12	15	12
#4	17	22	29	12	16	20	15
#5	21	27	36	15	20	26	19
#6	27	35	46	19	25	32	23
#7	37	48	63	26	34	44	26
#8	48	63	82	35	46	60	30
#9	61	80	104	44	57	75	34
#10	78	101	132	56	73	95	38
#11	96	124	163	68	88	116	42

COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS
LAP WELDED WIRE FABRIC ONE SPACING OF CROSS WIRES PLUS 2".

12. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.
13. CONCRETE WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATIONS.
14. ALL SYMBOLS AND STRESSES AS WELL AS CONCRETE WORK SHALL CONFORM TO THE STANDARD OF THE AMERICAN CONCRETE INSTITUTE (ACI-318-95).
15. ALL SLAB AND CORRESPONDING BEAMS, CURBS, OR APRONS SHALL BE POURED MONOLITHICALLY.
16. ALL SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE IN PLACE BEFORE CONCRETE IS POURED.
17. ALL OPENINGS IN CONCRETE WALLS SHALL BE REINFORCED AROUND WITH 2#5 BARS PLACED AT 2 INCHES FROM THE FACE AND EXTENDING 24 INCHES BEYOND CORNERS, UNLESS OTHERWISE SPECIFIED IN PLANS.
18. TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN ALL ONE WAY SLAB NORMAL TO THE PRINCIPAL REINFORCEMENT IN ACCORDANCE WITH ACI-318-95 BUILDING CODE.
19. FOR CONSTRUCTION JOINTS IN STRUCTURAL MEMBERS A VERTICAL BULKHEAD AND KEY JOINT MUST BE PROVIDED.
20. ALL NEGATIVE REINFORCEMENT (TOP REINF.) AND POSITIVE REINFORCEMENT, (BOTTOM REINF.) IN SLABS AND BEAMS SHALL BE EXTENDED BEYOND THE CENTER LINE OF THE END SUPPORTS IN ACCORDANCE WITH ACI-318-95 BUILDING CODE, UNLESS OTHERWISE SPECIFIED.
21. SLAB ON GROUND, AS INDICATED ON DRAWINGS.
22. FOR CONCRETE FORMWORK, SURFACE FINISHING, BEVELED CORNERS AND DRIPS, SEE ARCHITECTURAL PLANS.
23. PROVIDE DOWELS IN WALL AND COLUMN FOOTINGS EQUAL IN SIZE AND NUMBER TO VERTICAL REINFORCEMENT, EXTENDING A TENSION SPLICE LENGTH INTO WALL OR COLUMN AND 40 BAR DIAMETER INTO FOOTING. (THE LATERAL EMBEDMENT SHALL BE EXTENDED AS NECESSARY TO PROVIDE A MIMINUM HORIZONTAL LEG RESTING ON FOOTING REINFORCEMENT EQUAL TO THE CORRESPONDING "C" LENGTH FOR THE BAR SIZE.)
24. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALL) SO AS TO CAUSE SEGREGATION OF AGGREGATES IN SUCH CASES, HOOPERS OR VERTICAL CHUTES OR TRUNKS SHALL BE USED. THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED THE ABOVE REQUIREMENTS.
25. THE SIZE OF NAILS AND SIMILAR FASTENERS DRIVEN INTO CONCRETE SHALL BE SUCH, AS NOT TO CRACK OR IMPAIR IT. NEVERTHELESS, IF THE CONCRETE IS DAMAGED, IT SHALL BE PROPERLY REPAIRED AFTER REMOVING THE DAMAGED PORTION AND SUITABLE JOINT SURFACE ARE PROVIDED.
26. ALL FORMWORK FOR FLEXURAL MEMBERS SHALL BE BUILT WITH A CAMBER CORRESPONDING TO ITS WON DEFORMATION PLUS THE STRUCTURE DEAD LOAD DEFORMATIONS. IN DETERMINIG THE AMOUNT OF CAMBER, THE CONTRACTOR SHALL HAVE THE ASSISTANCE OF THE DESIGNER WHERE SO REQUESTED.
27. ALL CAST IN PLACE REINFORCED CONCRETE STRUCTURAL MEMBERS SHALL BE PROPERLY CURED IN ACCORDANCE WITH ACI-318-95 CHAPTER V.
28. ALL REINFORCING BARS SHALL BE HIGH TENSILE DEFORMED MEETING ASTM A-615 GRADE 60.
29. ALL LAPPING, BENDING AND PLACING OR REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH ACI-318-95 BUILDING CODE.

STRUCTURAL STEEL

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
   ALL WF, CHANNELS, ANGLES, PLATES, ETC. A36
   STRUCTURAL TUBE . . . . . A500 (Fy=46)
   STEEL PIPE . . . . . A53 (Fy=35)
   ANCHOR BOLTS AND UNFINISHED BOLTS A307
   BOLTS, NUTS AND WASHERS A325
   WELDING ELECTRODES . . . . . E333, CLASS E 7018XX
   UNLESS OTHERWISE CALL FOR IN DRAWINGS.
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE 1990). EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS AND/OR DRAWINGS.
3. THE STEEL STRUCTURE IS A PARTIAL-SELF-SUPPORTING STEEL RIGID FRAME AND IS DEPENDENT UPON DIAPHRAGM ACTION OF THE METAL ROOF DECK AND ATTACHMENT TO THE MASONRY WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETED AND ARE CAPABLE OF PROVIDING THIS LATERAL SUPPORT.
4. THE FABRICATOR IS RESPONSIBLE FOR THE SHOP DRAWINGS OF ALL CONNECTONS. CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE FABRICATOR'S ENGINEER WITH THE ENGINEER'S SEAL. ENGINEER'S MAY BE QUALIFIED "FOR DETAILING OF CONNECTIONS ONLY"
5. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
6. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. UNLESS NOTED OTHERWISE, ANCHOR BEAMS TO MASONRY WITH TWO (2) 3/4" DIAMETER ANCHOR BOLTS WITH 4" HOOK AND 4'-4" EMBEDMENT.
7. STRUCTURAL STEEL WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING & INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATION. AISC, ASTM & AWS SPECIFICATIONS WILL GOVERN ALL STRUCTURAL STEEL WORKS.
8. DESIGN & CONSTRUCTION SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION STANDARD PRACTICE.
9. STRUCTURAL STEEL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER AND IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY, AWS, REQUIREMENTS.
10. ALL INSPECTION AND TESTING OF WELDING SHALL BE DONE IN ACCORDANCE TO SECTION 501 THROUGH 607 OF THE AWS DLO-94 CODE FOR WELDING IN BUILDING CONSTRUCTION.
11. ALL CONNECTIONS SHALL BE BEARING TYPE UNLESS OTHERWISE SPECIFIED ON PLANS.
12. SHOP DRAWINGS FOR ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE SUBMITTED TO THE DESIGNER FOR APPROVAL WELL IN ADVANCE OF CONSTRUCTION.
13. INCORRECTLY FRABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIAL OR CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR RIVIEW AND APPROVAL OR REGECTION, PRIOR TO REMEDIAL OR CORRECTIVE ACTION TO BE IMPLEMENTED.

MISCELLANEOUS:

1. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSABLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
3. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHUOT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
5. OPENING 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
6. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
7. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT ONCE UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCE SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
10. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROVISIONAL OF RECORD REVIEW OF THE SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
11. CONCRETE ITEMS AND REINFORCEMENT SHALL BE ERECTED IN STRICT ACCORDANCE WITH OWNER APPROVED SHOP AND ERECTION DRAWINGS FOLLOWING THE DETAILS SHOWN ON PLANS.
12. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PRODUCE CORRECTLY ALIGNED CONCRETE AND STEEL ELEMENTS CONSIDERING AMONG OTHER THINGS, THE ELASTIC DEFORMATION OF THE STRUCTURAL MEMBERS.
13. WHERE "OWNER" IS MENTIONED IN PLANS IT IS TO BE UNDERSTOOD EITHER OWNER OR HIS AUTHORIZED REPRESENTATIVE.
14. CONTRACTOR SHALL SUBMIT FOR OWNERS' APPROVAL LOCATION AND DETAILS OF CONTRUCTION JOINTS IN SLABS AND BEAMS, AND IN ANY OTHER STRUCTURAL MEMBER.
15. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON STRUCTURAL PLANS AGAINST THE DIMENSIONS ON ARCHITECTURAL PLANS BEFORE LAYING OUT THE WORK.
16. ALL STRUCTURES HAVE BEEN DESIGNED ACCORDING TO FINAL BEHAVIOR AND CONDITIONS. HOWEVER, DURING ERECTION OF SAME, CERTAIN CONDITIONS CAN ARISE FOR WHICH THE BEHAVIOR OR THE STRUCTURE HAS NOT BEEN CONTEMPLATED. THEREFORE, THE CONTRACTOR SHOULD PROVIDE AT ALL TIME ADEQUATE SHORING AND RESTORING UNTIL THE DESIGN CONDITION HAVE BEEN MET. IF THERE IS ANY DOUBT DURING ANY PHASE OF THE CONSTRUCTION, PLEASE CONSULT AND/OR NOTIFY THE STRUCTURAL DESIGNERS.
17. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS PRIOR TO STARTING CONSTRUCTION. IF ANY DISCREPANCY ARISES IN THE STRUCTURAL AND ARCHITECTURAL PLANS, THE ARCHITECTS AND ENGINEERS SHALL BE NOTIFIED IMMEDIATELY.
18. CONTRACTOR MUST PROVIDE, SET AND VERIFY DIMENSIONS AND LOCATION OF ALL ANCHORS, INSERTS BOLTS, SLEEVES, CODUITS, ETC., SHOWN OR NOTED IN ARCHITECTURAL AND/OR MECHANICAL AND PLUMBING PLANS.
19. PROVISION FOR DETAILS NOT SPECIFICALLY DRAN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACI-318-95 BUILDING CODE AND/OR AISC SPECIFICATIONS AND CLARIFIED WITH THE DESIGNER.
20. HORIZONTAL MOVEMENT OF ANY HEAVY EQUIPMENT OVER STRUCTURAL FLOORS OR ROOF AND ITS TEMPORARY AND/OR DEFINITE LOCATIONS MUST BE PREVIOUSLY APPROVED BY THE DESIGNER SO AS NOT TO OVERLOAD THE STRUCTURE OR IN ANY OTHER WAY IMPAIR THE CONSTRUCTIONS. SAME PRECAUTION SHALL BE TAKEN FOR THE PILING OF CONSTRUCTIONS MATERIAL SUPON THE STRUCTURE.
21. ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS AND INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED.
22. IN CASE OF DOUBT IN THE INTERPRETATION OF ANY ASPECT OF THESE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS, DESIGNER SHALL BE CONSULTED.
23. AT HORIZONTAL JOINTS IN WALL AND COLUMNS, THE LOWER SURFACE SHALL BE THOROUGHLY CLEARED AND ALL WEAR OR LOOSE CONCRETE REMOVED FROM THERE BEFORE POURING THE UPPER CONCRETE. (SEE SPECS. FOR ADDITIONAL REQUIREMENTS). NO JOINT SHALL BE COVERED WITH PLASTER OR OTHERWISE WITHOUT A VISUAL EXAMINATION AND APPROVAL BY THE INSPECTOR.
24. NO DEFECTIVE CONCRETE SHALL BE CORRECTED OR COVERED WITH MORTAR, PLASTER ETC. WITHOUT THE INSPECTORS' APPROVAL.

QUALITY ASSURANCE:

1. THE OWNER WILL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY OR LABORATORY TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS. THE TESTING AGENCY SHALL BE LICENSED IN THE COUNTRY WHERE THE STRUCTURE IS LOCATED AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN THE COUNTRY WHERE THE STRUCTURE IS LOCATED.
2. FAILURE OF QUALITY ASSURANCE TESTING AND INSPECTIONS TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS NOTED, NOR SHALL IT OBLIGATE THE OWNER'S REPRESENTATIVE FOR FINAL ACCEPTANCE.
3. SEE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR QUALITY ASSURANCE TESTING AND INSPECTION:
   CONCRETE ACI-318-95
   REINFORCED MASONRY . . . .ASTM, CRSI, ACI
   STRUCTURAL STEEL . . . . . ASTM, AWS, AISC
   STEEL JOIST GIRDERS . . . . ASTM, AWS, SJI, AISC
   STEEL JOISTS . . . . . ASTM, AWS, SJI, AISC
   METAL ROOF DECK . . . . . ASTM, SDI, AISC
4. SEE GEOTECHNICAL REPORT FOR QUALITY ASSURANCE TESTING AND INSPECTIONS FOR FOUNDATION WORK.
5. THE TESTING AGENCY OR LABORATORY AND ITS REPRESENTATIVES ARE NOT AUTHORIZED TO REVOKE, ALTER, RELAX, ENLARGE OR RELEASE ANY PORTION OF THE WORK, PERFORM ANY DUTIES OF THE CONTRACTOR, OR BE A PARTY TO SHEDULING OF WORK.
6. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY OR LABORATORY AND THE OWNER'S REPRESENTATIVE A MINIMUM OF 24 HOURS IN ADVANCE OF ALL WORK REQUIRING QUALITY ASSURANCE TESTING AND INSPECTIONS AND ALL REASONABLE FACILITIES SHALL BE MADE AVAILABLE FOR TECHNICIANS.
7. RECORDS OF INSPECTIONS SHALL BE KEPT AVAILABLE TO THE BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND TWO YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT TESTING AGENCY.
8. ALL SLABS ON GROUND SHALL REST UPON EXISTING OR GRADED COMPETENT SUBSOIL MATERIAL, OR UPON GRANULAR SELECTED WELL COMPACTED FILL MATERIAL, IN ACCORDANCE WITH LATEST AASHTO SPECIFICATIONS FOR FILL SOIL MATERIAL CLASSIFICATION AND COMPACTION REQUIREMENTS.

Tension Development Length (ld), (inches)

(Minimum Straight Embedment length) for bars spaced less than 6" in, c.c.

Bar Size	f'c=3,000 psi		f'c=3,750 psi		f'c=4,000 psi		f'c=5,000 psi		f'c=6,000 psi	
	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars
#3	13	12	13	12	13	12	13	12	13	12
#4	17	12	17	12	17	12	17	12	17	12
#5	21	15	21	15	21	15	21	15	21	15
#6	27	19	25	18	25	18	25	18	25	18
#7	37	26	33	24	32	23	29	21	29	21
#8	48	35	43	31	42	30	38	27	34	25
#9	61	44	55	39	53	38	48	34	43	31
#10	78	56	70	50	67	48	60	43	55	39
#11	96	68	86	61	83	59	74	53	68	48
#14	130	93	117	83	113	81	101	72	92	66
#18	169	120	151	108	146	104	131	93	119	85

Basic Tension Splices For Grade 60 Bars

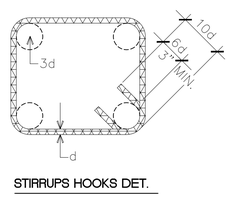
Bar Size	CLASS A,B, & C LAP SPLICE LENGTHS (INCHES)								
	f'c=3,000			f'c=4,000			f'c=5,000		
	A	B	C	A	B	C	A	B	C
#3	12	16	20	12	16	20	12	16	20
#4	12	16	20	12	16	20	12	16	20
#5	15	20	26	15	20	26	15	20	26
#6	19	25	33	18	24	31	18	24	31
#7	26	34	45	23	30	39	21	27	36
#8	35	45	59	30	30	51	27	35	46
#9	44	57	74	38	49	65	34	44	58
#10	56	72	95	48	63	82	43	56	73
#11	68	89	116	59	77	101	53	69	90

NOTE:
FOR OTHER CONDITIONS, CONSULT STRUCTURAL ENGINEERS
A. WHEN 33% OF BARS AT SECTION ARE CUT.
B. WHEN 50% OF BARS AT SECTION ARE CUT.
C. WHEN 100% OF BARS AT SECTION ARE CUT.

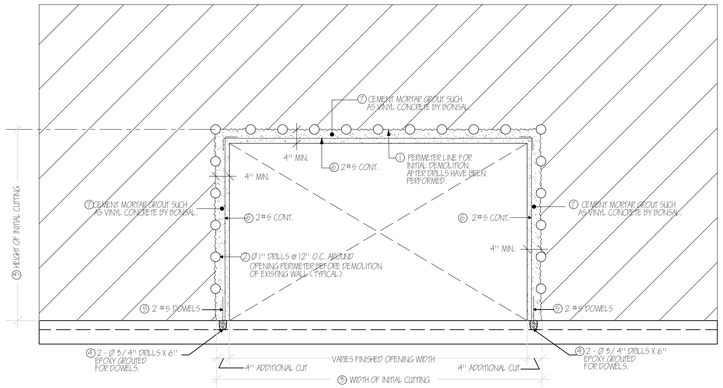
Tension Development Length (ld), (inches)

(Minimum Straight Embedment length) for bars spaced 6" in, or more c.c.

Bar Size	f'c=3,000 psi		f'c=4,000 psi		f'c=5,000 psi	
	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars
#3	12	12	12	12	12	12
#4	14	12	14	12	14	12
#5	17	12	17	12	17	12
#6	22	15	20	14	20	14
#7	30	21	26	18	23	17
#8	38	28	34	24	30	22
#9	49	35	42	30	38	27
#10	62	45	54	38	48	34
#11	77	54	66	47	59	42
#14	104	74	90	65	81	58
#18	135	96	117	83	105	74



STIRRUPS HOOKS DET.



WALL OPENING TYPICAL DETAIL

DEMOLITION & REPAIRING SEQUENCE

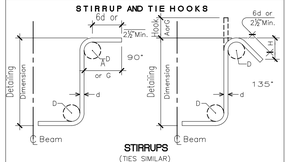
1. DELINEATE PERIMETER LINE OF INITIAL DEMOLITION AS IN FIGURE.
2. PERFORM DRILLS AS SHOWN, ø 1" @ 12" O.C. ON FIGURE.
3. CUT INITIAL OPENING AS SHOWN ON FIGURE.
4. BORE DRILLS FOR DOWELS @ WALL BOTTOM OR FOOTING.
5. INSTALL 2#5 DOWELS X 2'-0" AND GROUT WITH EPOXY COMPOUND
6. GROUT WITH VINYL CONCRETE AROUND OPENING PERIMETER AND DRILL HOLES FOR FINISHED DIMENSIONS.

ASTM STANDAR REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS, PER FOOT	NOMINAL DIMENSIONS-ROUND SECTIONS DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

SUPERSEDES CARDS ISSUED PRIOR TO JAN. 1978

STIRRUP AND TIE HOOKS

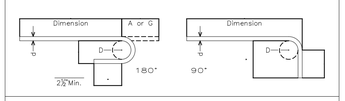


STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP AND TIE HOOK DIMENSIONS
Grades 40-50-60 ksi

Bar Size	D (in)	90 HOOK Hook A or G	135 HOOK Hook A or G	135 HOOK Approx. H
#3	1½"	4	4	2⅝"
#4	2"	4½	4½	3"
#5	2½"	6	5½	3⅝"

ACI/ASTM STANDARD HOOKS



SIZES OF 180-DEG. HOOKS
All Grades
D=6d for #3 through #8
D=8d for #9 #10 and #11
D=10d for #14 and #18

SIZES OF 90-DEG. HOOKS
All Grades
D=6d for #3 through #8
D=8d for #9 #10 and #11
D=10d for #14 and #18

RECOMMENDED END HOOK DIMENSIONS

Bar Size	180 HOOKS All Grades A or G	180 HOOKS All Grades J	90 HOOKS All Grades A or G
#3	5	3	6
#4	6	4	8
#5	7	5	10
#6	8	6	1-0
#7*	10	7	1-2
#8*	11	8	1-4
#9*	1-3	11¼	1-7
#10*	1-5	1-0¾	1-10
#11*	1-7	1-2¾	2-0
#14	2-2	1-8¾	2-7
#18	2-11	2-3	3-5

* These sizes-Grade 40-check availability. Sizes #14, #18, check availability; no Grade 40 under ASTM.

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x.17	Explanation

PROFESSIONAL SEAL

CERTIFICADOS - COPYRIGHTS + VIEW NAME

ESTE PROYECTO ARQUITECTONICO ESTA PROTEGIDO POR LAS LEYES Y REGLAMENTOS DE LA PROPIEDAD INTELECTUAL DE LOS ESTADOS UNIDOS DE AMERICA Y LOS TRATADOS INTERNACIONALES SOBRE LA MATERIA. CUALQUIER USO NO AUTORIZADO DE LOS DISEÑOS, PLANOS Y ESPECIFICACIONES INCLUYENDO PERO NO LIMITADO A LA REPRODUCCION, PUBLICACION, ADAPTACION O COMUNICACION PUBLICA DE DICHOS DISEÑOS, PLANOS Y ESPECIFICACIONES SIN EL CONSENTIMIENTO POR ESCRITO DE in.formation studio PUEDE RESULTAR EN SANCIONES CIVILES Y PENALES BAJO LAS LEYES FEDERALES DE LOS ESTADOS UNIDOS DE AMERICA. LOS DISEÑOS, PLANOS Y ESPECIFICACIONES NO DEBERAN SER USADOS POR NINGUNA PERSONA O ENTIDAD PARA NINGUN PROPOSITO SIN LA APROBACION POR ESCRITO DE in.formation studio. LOS DERECHOS DE PROPIEDAD INTELECTUAL SOBRE LOS DISEÑOS, PLANOS Y ESPECIFICACIONES SON PROPIEDAD DE in.formation studio. REVISTA: 2016 in.formation studio

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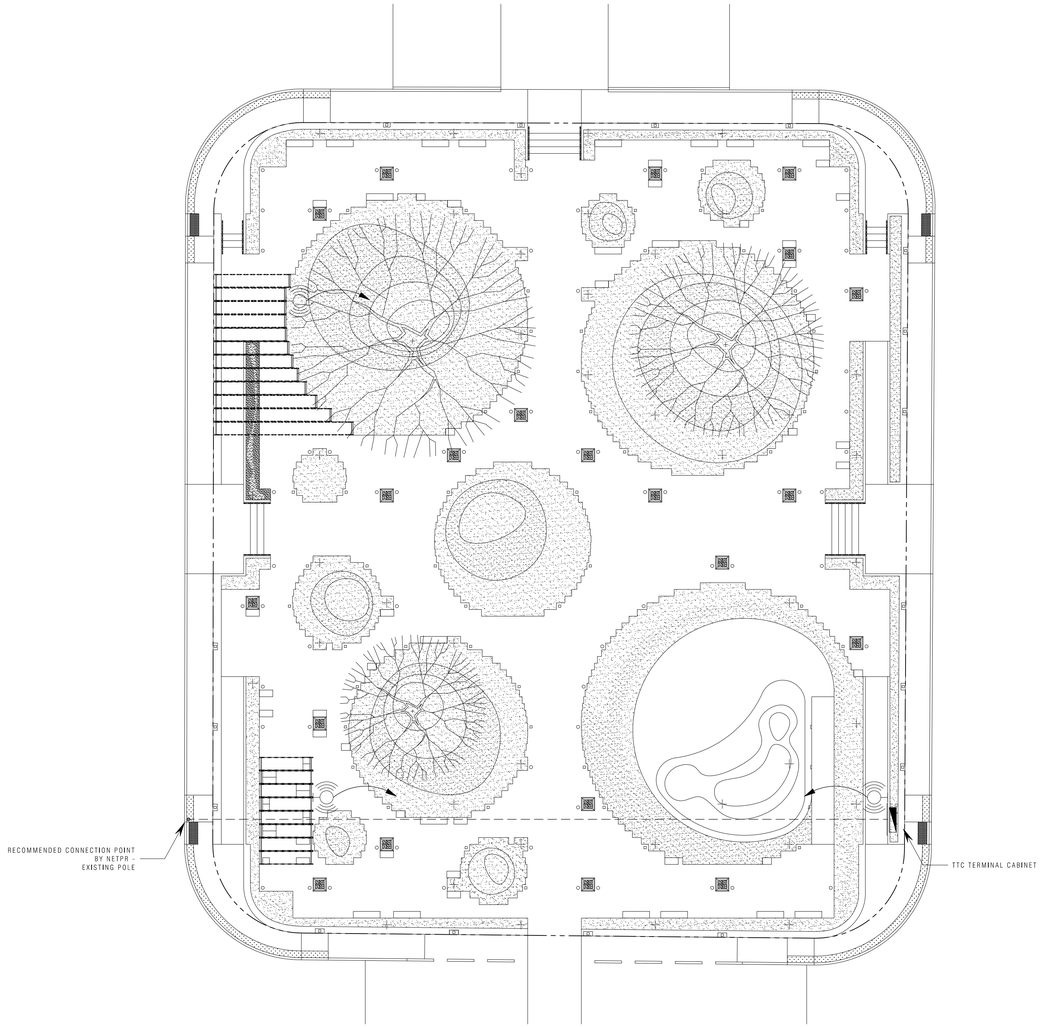

Telecommunication Site Plan

SCALE : 3/16" = 1'-0"

Legend

- 4' SQUARE BOX W/WIFI ANTENNA
- TELECOM TERMINAL BOX - RECESSED
- TELECOMMUNICATION CONDUIT RUN - (2) 2" PVC SCH. 40 CONDUITS BELOW GRADE.
- CONDUIT RUN TO TTC
- EXISTING POLE WITH NEW TELECOMMUNICATION RISER 2-2" PVC SCH. 40 CONDUITS.

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

CERTIFICACIÓN - COPYRIGHTS - VIEW NAME

V. B.
PLANOS APROBADOS SEGÚN LEY
ACTUACIONES MENORES
SEGÚN LEY
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PLANOS Y ESPECIFICACIONES PREPARADOS POR NOSOTROS, SOMETIDOS, O ENTREGADOS, O POR NOSOTROS, O BAJO NUESTRA SUPERVISIÓN, SON INSTRUMENTOS DE SERVICIO PARA USO EXCLUSIVO CON RESPECTO A ESTE PROYECTO Y NO SERÁN UTILIZADOS POR NINGUNA PERSONA, EN NINGÚN OTRO PROYECTO, O EXTENSIÓN DE ESTE PROYECTO, EXCEPTO POR ACUERDO ESCRITO Y APROBACIÓN APROPIADA DE LA FIRMA DISEÑADORA.
ESTE DISEÑO, ESPECIFICACIONES Y PLANOS ESTÁN PROTEGIDOS POR LAS LEYES Y REGLAMENTOS DE DERECHOS DE AUTOR Y PROPIEDAD INTELECTUAL. NINGUNA PERSONA, GRUPO O ENTIDAD PODRÁ UTILIZAR, COPIAR O DISTRIBUIR ESTE DISEÑO, ESPECIFICACIONES Y PLANOS SIN EL CONSENTIMIENTO ESCRITO Y EXPRESO DE LA FIRMA DISEÑADORA.
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e-mail: info@informationstudio.com

PROJECT TEE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Proposed TTC Site Plan

CLIENT
Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

PROJECT # 22-01
PROJECT PHASE Construction Docs - 90%
SHEET # 6
DRAWN BY jmb
DATE 05.ii.2024
DISCIPLINE

T-1.0

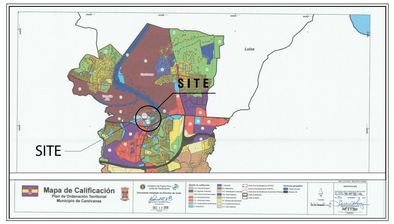
Appendix 15



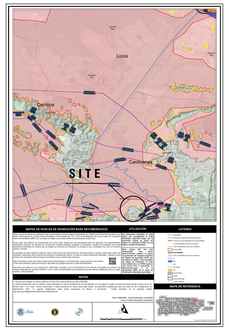
Project Image



Location Map



Zoning Map



Flood Map

Municipio de Canóvanas -
Hon. Lornna Soto Villanueva

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19865, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIEN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTE DE LAS AGENCIAS GUBERNAMENTALES CON JURISDICCION SOBRE LA OBRA. CERTIFICO, ADEMAS, QUE EN LA PREPARACION DE ESTOS PLANOS Y ESPECIFICACIONES HE CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NUM. 173 DE 12 DE AGOSTO DE 1988, ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REGLAMENTACION DE LA PRACTICA DE LA ARQUITECTURA EN PUERTO RICO", EN CUANTO A LA RESPONSABILIDAD QUE CUALQUIER PERSONA TIENE DE NO REPRESENTAR FALSAMENTE LA CALIDAD DE LOS HECHOS QUE CIMIENTA O FUNDAMENTA SUS OPINIONES PROFESIONALES, SEGUN DISPUESTO POR NUESTRO TRIBUNAL SUPREMO EN EL CASO DE JUAN DEL TORO, ETC. V. EL ESTADO LIBRE ASOCIADO DE PUERTO RICO, ETC., 174 DPR 563 (2008). DECLARACION DE OBRA PUBLICA POR PERSONAS QUE NO SEAN EMPLEADOS O POR OTRAS PERSONAS QUE NO SEAN EMPLEADOS DE LA AGENCIA. LA INFORMACION CONTENIDA EN ESTOS PLANOS ES PROPIEDAD INTELECTUAL DE LA OFICINA DE ARQUITECTURA QUE LOS PREPARA. NINGUNA PERSONA QUE NO SEA EL PROFESIONAL AUTORIZADO PARA USAR ESTOS PLANOS Y ESPECIFICACIONES PODRA USARLOS PARA OTRO PROYECTO DIFERENTE AL QUE SE HACE REFERENCIA EN LOS MISMOS, SIN EL CONSENTIMIENTO ESCRITO Y AUTORIZACION DEL PROFESIONAL QUE LOS DISEÑO, CONFECCIONO Y PREPARO. CUALQUIER USO NO AUTORIZADO DE ESTOS PLANOS Y ESPECIFICACIONES SERA RESPONSABILIDAD EXCLUSIVA DE LA PERSONA QUE LOS USE. ESTOS PLANOS Y ESPECIFICACIONES NO PODRAN SER REPRODUCIDOS, COPIADOS O USADOS EN FORMA ALGUNA, TOTAL O PARCIAL, SIN EL CONSENTIMIENTO ESCRITO Y AUTORIZACION DEL PROFESIONAL QUE LOS DISEÑO, CONFECCIONO Y PREPARO. CUALQUIER USO NO AUTORIZADO DE ESTOS PLANOS Y ESPECIFICACIONES SERA RESPONSABILIDAD EXCLUSIVA DE LA PERSONA QUE LOS USE.

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Drawing List

General

T-1	TITLE SHEET
L-001	SYMBOLS, LEGEND & ABBREVIATIONS
GN-1.0	GENERAL NOTES
GDN-1.0	GENERAL DEMOLITION NOTES
SY-1.0	LAND SURVEY AND TOPOGRAPHY

Civil

C-1.0	CIVIL GEOMETRY SITE PLAN
C-1.1	CIVIL DETAILS
C-2.0	GRADING PLAN
C-2.1	STORM DRAINAGE PLAN & DETAILS
C-3.0	TRAFFIC CONTROL PLAN & DETAILS
C-3.1	PEDESTRIAN CROSSWALK PLANS & DETAILS
C-3.2	SPEED TABLE PLANS & DETAILS
C-3.3	PAVEMENT JOINT LAYOUT PLAN & DETAILS
C-4.0	MAINTENANCE OF TRAFFIC (MOT) PLAN
C-4.1	MAINTENANCE OF TRAFFIC (MOT) PLAN
C-4.2	MOT DETAILS
C-4.3	MOT DETAILS
C-5.0	CES PLAN & DETAILS

Architecture

L-1.0	PLANTING LAYOUT PLAN & DETAILS
ED-1.0	DEMOLITION PLAN & NOTES
ED-1.1	DEMOLITION PLAN & NOTES CONT.
AS-1.0	SITE PLAN
A-1.0	FLOOR PLAN & DETAILS
A-1.1	FLOOR PLAN & DETAILS CONT.
A-1.2	DESCRIPTIVE GEOMETRY
A-1.3	DESCRIPTIVE GEOMETRY CONT.
A-1.4	DESCRIPTIVE GEOMETRY CONT.
A-1.5	SIDEWALK CORNER BLOWUP PLAN
A-1.6	SIDEWALK CORNER BLOWUP PLAN CONT.
A-2.0	GENERAL ELEVATIONS
A-3.0	GENERAL SECTIONS
A-4.0	STAIR PLANS & DETAILS
A-4.1	STAIR SECTIONS & DETAILS
A-5.0	GALLERY PLANS & DETAILS
A-5.1	GALLERY ELEVATIONS & SECTIONS
A-5.2	GALLERY UNFOLDED LAYOUT
A-5.3	GALLERY UNFOLDED LAYOUT CONT.
A-5.4	MODULE TYPES & DETAILS
A-5.5	MODULE TYPES & DETAILS CONT.
A-6.0	ELECTRICAL CLOSET PLANS & DETAILS
A-6.1	ELECTRICAL CLOSET PLANS & DETAILS
A-7.1	PAVER PATTERN LAYOUT & DETAILS
A-7.2	PAVER PATTERN LAYOUT & DETAILS CONT.
A-7.3	PAVER DETAILS

Structural

S-1.0	FOUNDATION PLAN & DETAILS
S-1.1	FOUNDATION PLAN & DETAILS CONT.
S-1.2	GALLERY FOUNDATION PLAN & DETAILS
S-1.3	FOUNDATION DETAILS
S-1.4	FOUNDATION DETAILS CONT.
S-2.0	GALLERY STRUCTURAL PLAN & DETAILS
S-3.0	STRUCTURAL NOTES & DETAILS
S-3.1	STRUCTURAL NOTES & DETAILS

Plumbing

P-1.0	PLUMBING PLANS & DETAILS
P-2.0	PLUMBING NOTES & DETAILS

Electrical

E-1.0	ELECTRICAL SITE PLAN
E-2.0	ELECTRICAL LIGHTING PLAN
E-3.0	ELECTRICAL POWER PLAN
E-4.0	ELECTRICAL NOTES, SCHEDULES & DETAILS

julián manríquez botello puerto rico
LIC. MAY. 19865
EXP. 19.X.2025

Cadastral No: 089-086-015-01

PROJECT NAME & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica Esq. Calle Muñoz Rivera
Canóvanas,PR 00729

LANDSCAPE
XXX
XXX

CIVIL
JOG Engineering, Corp.
José O. González García, P.E.

STRUCTURAL
JOG Engineering, Corp.
José O. González García, P.E.

MECHANICAL H/C
XXX
XXX

PLUMBING
XXX
XXX

FIRE PROTECTION
XXX

ELECTRICAL
Requena & Asociados
Alfonso Lázaro, P.E.

Consultants

TELE/DATA COMMUNICATIONS
XXX
XXX

ELECTRONIC/AUDIOVISUAL
XXX
XXX

THEATER/ACOUSTICAL
XXX
XXX

LIGHTING DESIGN
XXX
XXX

PHOTOGRAPH
XXX
XXX

SECURITY
XXX
XXX

ENVIRONMENTAL + HAZARDOUS MATERIAL
XXX
XXX

DIGITAL FABRICATION
XXX
XXX

Specialty Consultants

Abbreviations

A-I		**J-Z**		**Acronyms**	
[E]	EXISTING	**JAN**	JANITOR	**SAD**	SEE ARCHITECTURAL DRAWINGS
[N]	NEW	**JT**	JOINT	**SSD**	SEE STRUCTURAL DRAWINGS
AB	ANCHOR BOLT	**LAM**	LAMINATE	**SCD**	SEE CIVIL DRAWINGS
ACT	ACCOUSTICAL CEILING TILE	**LP**	LOW POINT	**SMD**	SEE MECHANICAL DRAWINGS
ACCOUST	ACCOUSTICAL	**LAV**	LAVATORY	**SED**	SEE ELECTRICAL DRAWINGS
AFF	ABOVE FINISH FLOOR	**MAX**	MAXIMUM	**SLD**	SEE LANDSCAPE DRAWINGS
AFFE	ABOVE FINISH FLOOR ELEVATION	**MECH**	MECHANICAL	**SD & TD**	SEE DATA & TELECOMMUNICATION DRAWINGS
AFFL	ABOVE FINISH FLOOR LEVEL	**MH**	MANHOLE		
ALT	ALTERNATE	**MIN**	MINIMUM		
ALUM	ALUMINUM	**MO**	MASONRY OPENING		
APPROX	APPROXIMATE	**MISC**	MISCELLANEOUS		
ARCH	ARCHITECTURAL	**MTD**	MOUNTED		
ASPH	ASPHALT	**MTL**	METAL		
BB	BOTTOM OF BEAM	**NIC**	NOT IN CONTRACT		
BD	BOARD	**NO**	NUMBER		
BLDG	BURLDING	**NTS**	NOT TO SCALE		
BLKG	BLOCKING	**OC**	ON CENTER		
BM	BEAM	**OD**	OUTSIDE DIAMETER		
BOD	BOTTOM OF DECK	**OH**	OVERHEAD		
BOS	BOTTOM OF SLOPE	**OPNG**	OPENING		
BOT	BOTTOM	**OPP**	OPPOSITE		
BT	BOTTOM CURB	**PBC**	PLUMBING CONTRACTOR		
BS	BOTH SIDES	**PL**	PLATE		
BW	BOTTOM WALL	**PLAS LAM**	PLASTIC LAMINATE		
CB	CATCH BASIN	**PLYWD**	PLYWOOD		
CJ	CONTROL JOINT	**PNT**	PAINT		
CLG	CEILING	**PR**	PAIR		
CL	CENTER LINE	**PT**	POINT OF TANGENCY		
CLR	CLEAR	**RAD**	RADIUS		
CMU	CONCRETE MASONRY UNIT	**RD**	ROOF DRAIN		
COL	COLUMN	**REINF**	REINFORCED		
CONC	CONCRETE	**REQD**	REQUIRED		
CONT	CONTINUOUS	**RESIL**	RESILIENT		
CONTR	CONTRACTOR	**RM**	ROOM		
CPT	CARPET	**RO**	ROUGH OPENING		
CT	CERAMIC TILE	**RTU**	ROOF TOP UNIT		
CTR	CENTER	**SHTG**	SHEATHING		
DBL	DOUBLE	**SIM**	SIMILAR		
DET	DETAIL	**SPECS**	SPECIFICATIONS		
DIA	DIAMETER	**SQ**	SQUARE		
DN	DOWN	**SS**	STAINLESS STEEL		
DR	DOOR	**STA**	STATION		
DS	DOWN SPOUT	**STD**	STANDARD		
DWG	DRAWING	**STL**	STEEL		
EA	EACH	**STRUCT**	STRUCTURAL		
EF	EACH FACE	**SUSP CLG**	SUSPENDED CEILING		
EJ	EXPANSION JOINT	**TBD**	TO BE DETERMINED		
ELC	ELECTRICAL CONTRACTOR	**TBS**	TO BE SELECTED		
ELEC	ELECTRICAL	**TOB**	TOP OF BEAM		
ELEV	ELEVATION (FACADE)	**TOC**	TOP OF CURB		
EQ	EQUAL	**TOPA**	TOP OF PANEL		
EQUIP	EQUIPMENT	**TOP**	TOP OF PARAPET		
EXF	EXHAUST FAN	**TOS**	TOP OF STAIR		
EXP	EXPANSION	**TOST**	TOP OF STRUCTURE		
EXIST	EXISTING	**TOW**	TOP OF WALL		
EW	EACH WAY	**TYP**	TYPICAL		
EWC	ELECTRIC WATER COOLER	**UNF**	UNFINISHED		
FD	FREE DISCHARGE (ROOF DRAIN)	**UON**	UNLESS OTHERWISE NOTED		
FDN	FOUNDATION	**VCT**	VINYL COMPOSITE TILE		
FFE	FINISH FLOOR ELEVATION	**VIF**	VERIFY IN FIELD		
FH	FIRE HYDRANT	**W/**	WITH		
FIN	FINISH (ED)	**WD**	WOOD		
FLR	FLOOR				
FP	FIREPROOF				
FTG	FOOTING				
FURR	FURRING				
GA	GAUGE				
GALV	GALVANIZED				
GCC	GENERAL CONSTRUCTION CONTRACTOR				
GL	GLASS				
GRD	GRADE				
GYP	GYPSUM				
HAC	HEATING & A/C CONTRACTOR				
HB	HOSE BIB				
HC	HOLLOW CORE				
HDWD	HARDWOOD				
HM	HOLLOW METAL				
HORIZ	HORIZONTAL				
HP	HIGHT POINT				
HT	HEIGHT				
ID	INSIDE DIAMETER				
IDC	INSIDE DIMENSION CLEAR				
INSUL	INSULATION				
INT	INTERIOR				

Symbols

- NORTH ARROW
- ELEVATION DESIGNATION / REFERENCED DRAWING — ELEVATION - EXTERIOR
- SECTION DESIGNATION / REFERENCED DRAWING — GENERAL SECTION
- PARTIAL OR WALL SECTION DESIGNATION / REFERENCED DRAWING — PARTIAL OR WALL SECTION
- ELEVATION - INTERIOR
- DETAIL DESIGNATION / REFERENCED DRAWING — DETAIL
- DOOR DESIGNATION # / HARDWARE DESIGNATION # — DOOR DESIGNATION
- WINDOW DESIGNATION
- NOTE INDICATOR
- DEMOLITION NOTE INDICATOR
  A. ACCESSORIES/MISCELLANEOUS
  C. CEILING
  D. DOORS/FRAMES
  F. FLOOR
  M. MECHANINCAL/PLUMBING
  P. PARTITIONS
  W. WINDOWS
- REVISION INDICATOR
- ROOM NAME — SPACE IDENTIFICATION NAME
- 23 — SPACE DESIGNATION #
- REF., CLG., WALL / FLOOR / BASE — FINISHES KEY
- 1 — FIXTURE/EQUIPMENT IDENTIFIER
- +14'-6" A.F.F.E. — ELEVATION - AT FINISH FLOOR LEVEL
- +14'-0" A.F.E.E. — ELEVATION - AT CEILING LEVEL
- 1 / A-2.6 — DETAIL SECTION
- CHANGE IN FLOOR FINISH
- CHANGE OF FLOOR FINISH WHERE THRESHOLD OR SADDLE OCCURS
- XX — STRUCTURAL AXIS
- CHANGE IN FLOOR LEVEL
- HIDDEN OUTLINE (SHOWING CONDITION BELOW, ABOVE, BEHIND OR BEYOND)
- MATCH LINE
- 12% — SLOPE
- 126.6' — EXISTING SPOT ELEVATION
- 126.6' — PROPOSED SPOT ELEVATION
- 6" — DIMENSION - PRIMARY - TXT HT. 3/32" - & OFFSET 1/16"
- 6" — DIMENSION - SECONDARY - TXT HT. 3/64" - & OFFSET 1/32"
- ANNOTATION ARROW
- ANNOTATION DOT
- CENTER LINE
- BREAK LINE

Floor Plan

A

SCALE : 1/128" = 1'-0"

A-2.1

BID SET — February 25, 2017

NOT FOR CONSTRUCTION

Legend

- EXISTING CONSTRUCTION TO REMAIN
- WALLS TO BE DEMOLISHED
- STRUCTURAL CONCRETE WALL
- CONCRETE BLOCK WALL
- GWB. PARTITION
- ELEMENTS TO BE REMOVED
- PROPERTY LINE

Notes:

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2.0 All dimensions are in feet and inches, unless noted otherwise.

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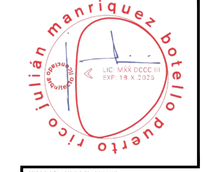
5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/JUL/17	Explanation

PROFESSIONAL SEAL



CERTIFICACIÓN - CUTTYHUNK + NEW NAME

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Symbols, Legend, Abbreviations & Acronyms

CLIENT

Municipality of Canóvanas - Hon. Lorna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
2	krs / 26.vi.2024

DISCIPLINE

L-001

General Notes

1.0 THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AT SITE AND NOTIFY, THE PROJECT ARCHITECT OR CONSTRUCTION REPRESENTATIVE OF ANY AND ALL DISCREPANCIES AND LIST ANY WORK NOT YET COMPLETED BEFORE STARTING WORK.

2.0 ALL WORK ON THIS PROJECT SHALL BE IN ACCORDANCE WITH ALL CODES, SUB-CODES AND BUILDING DEPARTMENTS HAVING JURISDICTION. GENERAL CONTRACTOR TO CONTACT LOCAL BUILDING OFFICIALS FOR SPECIFIC REQUIREMENTS FOR THIS PROJECT.

3.0 THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS FOR THE GENERAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS REQUIRED FOR THE WORK NOTED ON THESE PLANS AND SPECIFICATIONS.

4.0 BOTH THE OWNER'S GENERAL CONTRACTORS AND ALL SUBCONTRACTORS WORKING ON THIS PROJECT ARE RESPONSIBLE FOR CONTACTING THE PUBLIC UTILITY COMPANIES SUPPLYING UTILITIES TO THE AREA WHERE THE PROJECT IS LOCATED, IN ORDER TO VERIFY LOCATIONS OF UTILITIES, UNDERGROUND OR OVERHEAD, AND SECURE THE PROPER PROCEDURES WHILE WORKING ADJACENT TO, ABOVE OR NEAR SUCH UTILITIES TO AVOID ANY PROBLEMS WITH EXPLOSIONS, DISCONNECTIONS, REMOVALS, ETC.

5.0 THE GENERAL CONTRACTOR SHALL LAY OUT WORK AS SPECIFIED IN THE DRAWINGS AND SHALL BE HELD RESPONSIBLE FOR PROPER ESTABLISHMENT AND MAINTENANCE OF ALL LINES AND DIMENSIONS, BEFORE DOING ANY WORK. THIS GENERAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE SITE AND NOTIFY THE ARCHITECT, THE OWNER AND THE OWNER'S CONSTRUCTION REPRESENTATIVE OF ANY DISCREPANCIES VERBALLY AND THEN IN WRITING.

6.0 ALL CONTRACTORS SHALL BE BONDABLE, LICENSED CONTRACTORS POSSESSING GOOD LABOR RELATIONS AND MUST BE CAPABLE OF QUALITY WORKMANSHIP, IN HARMONY WITH OTHER CONTRACTORS WORKING ON THE PROJECT. THE OWNER TO BE NOTIFIED OF THE NAMES OF ALL POTENTIAL SUBCONTRACTORS PRIOR TO AWARDING BIDS.

7.0 PRIOR TO COMMENCEMENT OF ANY WORK, THE GENERAL CONTRACTOR SHALL CONTACT AND MEET WITH OWNER AND PROJECT MANAGEMENT REPRESENTATIVE FOR A PRE-CONSTRUCTION MEETING, AT WHICH TIME THE GENERAL CONTRACTOR WILL PRESENT TO ALL PARTIES A LIST OF NAMES, ADDRESSES, BUSINESS AND HOME TELEPHONE NUMBERS OF THE SUBCONTRACTORS FOR THIS PROJECT.

8.0 THE GENERAL CONTRACTOR, ALL SUBCONTRACTORS OR OUTSIDE SERVICES COMPLETING WORK ON THIS PROJECT SHALL COMPLY WITH ALL THE PROVISIONS OF O.S.H.A. (OCCUPATIONAL SAFETY AND HEALTH ACT).

9.0 THE GENERAL CONTRACTOR SHALL HAVE AT ALL TIMES, AT THE PREMISES, APPROVED WORKING DRAWINGS (IF APPLICABLE) AND BUILDING DEPARTMENT APPROVED PERMIT DRAWINGS.

10.0 ALL CLEARANCES OF PIPES AND DUCT WORK INSTALLED BY THE GENERAL CONTRACTOR OR SUBCONTRACTORS MUST BE MAINTAINED FOR ADEQUATE HEIGHTS REQUIRED FOR CEILING SYSTEM AND LIGHT FIXTURES.

11.0 THE CONTRACTORS AND SUBCONTRACTORS PARTICIPATING IN THE PERFORMANCE OF WORK SHALL REMOVE AND DISPOSE OF, AT LEAST ONCE A WEEK AND MORE FREQUENTLY AS MAY DIRECT, ALL DEBRIS AND RUBBISH CAUSED BY OR RESULTING FROM THE PERFORMANCE OF WORK AND, UPON COMPLETION THEREOF, REMOVE ALL TEMPORARY STRUCTURES, SURPLUS MATERIALS, DEBRIS AND RUBBISH OF WHATEVER KIND REMAINING IN THE WORK AREA WHICH HAD BEEN BROUGHT IN OR CREATED BY THE CONTRACTOR AND SUBCONTRACTORS IN THE PERFORMANCE OF WORK. THIS CONTRACTOR MUST MAINTAIN A CLEAR PATH OF EGRESS AT ALL TIMES FREE FROM TRASH AND RUBBISH AT ALL TIMES. ALL REMOVAL OF CONSTRUCTION DEBRIS TO AN APPROVED DUMPING SITE TO BE INCLUDED IN THE GENERAL CONTRACTOR'S WORK.

12.0 ALL FINISH AND EXPOSED WOOD SHALL RECEIVE A FIRE RETARDANT COATING OR TREATMENT IF REQUIRED BY CODE OR THE LOCAL FIRE MARSHALL. NO WOOD OR COMBUSTIBLE MATERIAL SHALL BE USED ABOVE THE SUSPENDED CEILING UNLESS NON-COMBUSTIBLE LUMBER IS USED AND IS SPECIFICALLY ALLOWED BY U.B.C. LOCAL BUILDING CODES, THE FIRE MARSHALL AND ALL AGENCIES HAVING JURISDICTION. IF FIRE TREATED WOOD IS REQUIRED FOR FIXTURING ITEMS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR EXECUTING THIS WORK AS PER BUILDING OFFICIALS' REQUIREMENTS. THE WOOD MUST BEAR THE U.L. APPROVAL AND MILL STAMP INDICATING IT WAS PROPERLY TREATED.

13.0 ALL EQUIPMENT, MILLWORK AND FIXTURES SUPPLIED BY OWNER TO BE UNLOADED, ASSEMBLED AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE REPRESENTATIVE.

14.0 ANY SUBSTITUTIONS OF FINISH MATERIALS MUST BE APPROVED BY THE ARCHITECT IN WRITING. GENERAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING TWO (2) SAMPLES OF EACH SUBSTITUTION.

15.0 EACH CONTRACTOR AND SUBCONTRACTOR PERFORMING WORK SHALL MAINTAIN CONTINUOUS PROTECTION OF ADJACENT PREMISES IN SUCH MANNER AS TO PREVENT ANY DAMAGE TO ADJACENT PROPERTY AND IMPROVEMENTS BY REASON OF THE PERFORMANCE OF WORK. EACH CONTRACTOR AND SUBCONTRACTOR SHALL PROPERLY PROTECT WORK WITH LIGHTS, GUARD RAILS, AND BARRICADES AND SECURE ALL PARTS THEREOF AGAINST STORM AND ACCIDENT.

16.0 WHEN BIDDING THIS PROJECT, EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND VERIFYING EXISTING CONDITIONS AS REFLECTED IN THESE CONTRACT DOCUMENTS. ANY EXTRA WORK REQUIRED BUT NOT INCLUDED IN THE DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY.

17.0 GENERAL CONTRACTORS AND ALL SUBCONTRACTORS ARE REQUIRED TO FURNISH THE MINIMUM COVERAGE AND LIMITS OF LIABILITY DESCRIBED ON THE CONTRACT DOCUMENTS.

18.0 GENERAL CONTRACTORS ARE REQUIRED TO FAMILIARIZE ALL PERSONS AND SUBCONTRACTORS WORKING ON THIS PROJECT WITH THESE GENERAL NOTES AND THE CONTRACT DOCUMENTS NOTED IN THESE DRAWINGS. GENERAL CONTRACTORS SHALL BE RESPONSIBLE FOR FULLY ACQUAINTING THEMSELVES WITH THE CONTENT AND SCOPE OF THESE SPECIFICATIONS, AND SPECIAL ATTENTION SHOULD BE GIVEN THE SPECIFICATIONS THROUGHOUT THE SPAN OF THIS PROJECT BY THESE GENERAL CONTRACTORS, SUPERVISORS AND SUBCONTRACTORS, AS THE STANDARD ESTABLISHED HEREIN SHALL BE APPLIED, WITH EMPHASIS TO ALL WORK. WORK DECLARED UNACCEPTABLE BY THE OWNER/ARCHITECT SHALL BE CORRECTED IN A MANNER AND TO A DEGREE OF QUALITY AS ACCEPTABLE BY THE OWNER.

19.0 THE GENERAL CONDITIONS OF THE "CONTRACT FOR CONSTRUCTION" DOCUMENT A-201, ISSUED BY THE AMERICAN INSTITUTE OF ARCHITECTS, 1981 EDITION, RELATES TO THE WORK OF THIS PROJECT AND IS HEREBY MADE A PART OF THESE DRAWINGS AS THOUGH FULLY CONTAINED IN THESE DRAWINGS. THE GENERAL CONTRACTORS AND ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY NUMBER OF COPIES OF DOCUMENT A-201, TO ACQUAINT HIMSELF WITH THE ARTICLES CONTAINED THEREIN AND TO REVIEW WITH ALL SUBCONTRACTORS, SUPPLIERS AND ANY OTHER PARTIES TO THE CONTRACT OR INDIVIDUALS OR AGENCIES ENGAGED ON THE WORK AS TO ITS CONTENTS.

20.0 ONLY THE CLIENT'S REPRESENTATIVE, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK, ALTER, ADD TO, OR DEDUCT FROM THE CONTRACT WORK. THE CONTRACT SUM SHALL BE ADJUSTED ACCORDINGLY, AND SUCH COSTS SHALL BE COMPETITIVE WITH LOCAL CONSTRUCTION COSTS.

21.0 AT THE TIME OF FINAL SUBMITTAL FOR ALL COSTS BY THE GENERAL CONTRACTOR TO THE OWNER, INCLUDING BASE BID, EXTRAS AND CREDITS, THE OWNER'S GENERAL CONTRACTOR'S SUBCONTRACTORS SHALL FURNISH TO THE OWNER A WRITTEN GUARANTEE STIPULATING THAT, AT NO ADDITIONAL COST TO THE OWNER CONTRACTOR, ANY DEFECTIVE WORK OR MATERIALS SHALL BE REPAIRED OR REPLACED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF WORK, UNLESS OTHERWISE NOTED.

22.0 NO EXTRAS FOR COSTS CAN BE AUTHORIZED UNLESS APPROVED IN WRITING BY THE ARCHITECT OR THE OWNER'S CONSTRUCTION REPRESENTATIVE. ANY ISSUES OF CREDITS TO BE CALCULATED BASED ON COMPETITIVE RATES AND EQUIPMENT'S COSTS APPROVED BY THE ARCHITECT.

23.0 FOR CLARIFICATION PURPOSES, CLIENT AND OWNER ARE THE SAME PARTY. GENERAL CONTRACTOR WILL BE REQUIRED TO HANDLE ALL WORK IN THESE DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE.

24.0 THE CONTRACTORS ARE REQUIRED TO HAVE ALL SUBCONTRACTORS REVIEW THESE ABOVE NOTES PRIOR TO BIDDING AND TO FOLLOW-UP AND EXECUTE AS WRITTEN.

25.0 THE DESIGN CONCEPT LEAVES ZERO OR MINIMAL CLEARANCE FOR ERROR IN REGARD TO LAYOUT. "HOLD DIMENSION" INDICATIONS ARE TO BE ADHERED TO AND THE CONTRACTOR IS TOTALLY RESPONSIBLE FOR ERROR OR OMISSION. ANY QUESTIONS RELATING TO DIMENSIONING ARE TO BE ADDRESSED TO THE ARCHITECT ONLY.

26.0 ALL PAYMENTS MADE TO THE GENERAL CONTRACTOR FOR THIS PROJECT ARE TO BE ALLOCATED FOR THIS PROJECT ONLY. FOR PAYMENTS TO SUBCONTRACTORS, MATERIAL SUPPLIERS AND AGENTS AUTHORIZED BY THE SPECIFIC CONTRACTOR TO PERFORM WORK OR SUPPLY MATERIALS TO THIS PROJECT ONLY. THE GENERAL CONTRACTORS ARE REQUIRED TO SUBMIT PARTIAL WAIVERS OF LIENS FOR THEIR WORK AS WELL AS SUBCONTRACTORS OR MATERIAL SUPPLIERS, UPON THE REQUEST OF THE CLIENT OR THE CLIENT'S ARCHITECT AND THE REQUEST FOR THE FINAL 10% RETENTION ON THIS PROJECT MUST INCLUDE SIGNED AND EXECUTED WAIVERS OF LIEN INDICATING 100% COMPLETION AND 100% PAYMENT IN FULL, BY ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS.

27.0 ALL EXITS SHALL BE UNOBSTRUCTED AT ALL TIMES, DURING CONSTRUCTION AND OCCUPANCY.

28.0 THE GENERAL CONTRACTOR, AT THE POINT OF "SUBSTANTIAL COMPLETION" AND "TURNOVER" MUST COMPLETE, AT GENERAL CONTRACTOR'S COST AND EXPENSE (FINAL PAYMENT CANNOT BE REQUESTED UNLESS ALL OF THIS WORK NOTED IS COMPLETED):
A) FINAL INSPECTIONS BY ALL BODIES HAVING JURISDICTION NECESSARY FOR FINAL COMPLETION, CERTIFICATE OF OCCUPANCY OR COMPLETION, WHICHEVER IS APPLICABLE.
B) FINALIZE ALL PUNCH LISTS AND/OR REQUIREMENTS, TO THE SATISFACTION OF BOTH THE ARCHITECT AND THE OWNER
C) FINALIZE CHANGES ON PLANS AND SPECIFICATIONS AND MARK ALL APPROVED BUILDINGS DEPARTMENT, FIRE MARSHALL AND OWNER CHANGES ON A SET OF COPIES FOR BOTH OWNER ARCHITECT AND FORWARD SUCH INFORMATION TO BOTH PARTIES VIA COURIER. MARKUPS SHALL BE COMPLETED USING A CLOUD PROCEDURE WITH A MAGIC MARKER TO EASILY DISTINGUISH CHANGES FROM ORIGINAL WORK.

29.0 IF THE OWNER OR ARCHITECT DO NOT MAKE REPEATED SITE VISITS CONTINUALLY OR AT ALL, THE GENERAL CONTRACTOR IS NOT RELIEVED OF ANY RESPONSIBILITY OR DUTIES INVOLVED IN THIS CONSTRUCTION WORK.

30.0 THE CONSTRUCTION DRAWINGS LISTED ON THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BASED ON THE BEST INFORMATION AVAILABLE DURING PREPARATION OF PLANS. IN THE EVENT THAT PROBLEMS ARISE DURING THE COURSE OF THE PROJECT, DUE TO UNKNOWN SITE CONDITIONS OR CODE AND REQUIREMENTS (IF ANY) THAT CONFLICT WITH DRAWINGS, THE GENERAL CONTRACTOR SHALL INFORM THE ARCHITECT IMMEDIATELY.

31.0 THE PROPER RECEIPT OF ALL NEW MATERIALS AND EQUIPMENT AT THE JOB SITE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, AND/OR HIS/HER SUBCONTRACTORS (IF ANY). SECURE AND SAFE STORAGE OF ALL NEW AND EXISTING MATERIALS AND EQUIPMENT TO REMAIN (IF ANY) WILL BE PROVIDED BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR TO IMMEDIATELY ADVISE CONSTRUCTION DEPT. OF ALL DAMAGED OR DEFICIENT SHIPMENTS OF MATERIALS AND EQUIPMENT, WHETHER SUPPLIED BY TENANT OR DIRECTLY BY CONTRACTOR OR HIS/HER SUPPLIERS. GENERAL CONTRACTOR TO COMPLETE AND SUBMIT ALL NECESSARY PAPERWORK AND ARRANGE INSPECTIONS OF DAMAGED GOODS AS PER TENANT CONSTRUCTION DEPT. REQUIREMENTS.

32.0 THE GENERAL CONTRACTOR IS REQUIRED TO ADHERE TO ALL NEW REQUIREMENTS, STATED OR NOT ON THESE PLANS AND SPECIFICATIONS, FOR THE LATEST A.D.A., LAW EFFECTIVE JANUARY 26, 1992. THIS LAW IS A CIVIL RIGHTS LAW AND THE EXCLUSION OF REQUIREMENTS BY THE LOCAL CODE OFFICIALS DOES NOT RELIEVE THE TENANT OR THE TENANT'S CONTRACTOR OF ADHERING TO THESE NECESSARY WORK, EITHER DURING CONSTRUCTION OR AFTER OCCUPANCY.

33.0 QUALITY STANDARDS: ALL SUCH WORK SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER AND SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION THEREOF. GENERAL CONTRACTOR SHALL REQUIRE ANY PERSON PERFORMING ANY SUCH WORK TO GUARANTEE THE SAME TO BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND MATERIALS FOR ONE (1) YEAR FROM THE DATE OF COMPLETION THEREOF. OWNER SHALL ALSO REQUIRE ANY SUCH PERSON TO BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR WITHOUT ADDITIONAL CHARGE, OF ANY AND ALL WORK DONE OR FURNISHED BY OR THROUGH SUCH PERSON, WHICH SHALL BECOME DEFECTIVE WITHIN ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION OF THE WORK. THE CORRECTION OF SUCH WORK SHALL INCLUDE, WITHOUT ADDITIONAL CHARGE, ALL EXPENSES AND DAMAGES IN CONNECTION WITH SUCH REMOVAL, REPLACEMENT OR REPAIR OF ANY PART OF THE WORK WHICH MAY BE DAMAGED OR DISTURBED THEREBY. ALL WARRANTIES OR GUARANTEES AS TO MATERIALS OR WORKMANSHIP ON OR WITH RESPECT TO OWNER'S WORK SHALL BE CONTAINED IN THE CONTRACT OR SUBCONTRACT WHICH SHALL INURE TO THE BENEFIT OF OWNER, AND CAN BE DIRECTLY ENFORCED BY HIM/HER. GENERAL CONTRACTOR TO HAVE THIS CLAUSE IN EVERY SUBCONTRACTOR AGREEMENT FOR THE PROJECT AND IF SUCH CLAUSE IS NOT INCLUDED, IT WILL NOT RELIEVE THE GENERAL CONTRACTOR OF THE REQUIREMENTS OR WORK STATED HEREIN.

34.0 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT, UNLESS CONTRACT DOCUMENTS GIVE OTHER SPECIFIC INSTRUCTIONS CONCERNING THESE MATTERS. SEE AIA DOCUMENT A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ARTICLE 3, SECTION 3.3.1 (1987 EDITION)

35.0 THE ARCHITECT SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT FOR CONSTRUCTION.

36.0 THE GENERAL CONTRACTOR AND/OR HIS/HER SUBCONTRACTOR IS TO COMPLETE ALL FINISHES AS PER PLANS AND SPECIFICATIONS. THE FINISHES NOTED MAY FOR VARIOUS REASONS BE CHANGED BASED ON AVAILABILITY AND/OR APPROVAL OF DIFFERENT MANUFACTURES AND/OR HIS/HER SUBCONTRACTOR WILL BE REQUIRED TO ADHERE TO THE EXACT SPECIFICATION ON DRAWINGS, BASED ON THE TYPE OF SUBSTRATE AND/OR THE SUBSTRATE PREPARATION, AND CORRECT APPLICATION AND/OR NECESSARY WORK FOR PROPER ADHESION AND/OR EXPANSION/CONTRACTION OF THE FINISH MATERIAL OR SUCH SUBSTRATE.

37.0 IF THERE IS A DISCREPANCY BETWEEN A SMALLER DETAIL OR PLAN REGARDING INFORMATION, SIZING, MEASURING, ETC., AND A LARGER DETAIL OR PLAN, THE GENERAL CONTRACTOR AND/OR THE SUBCONTRACTOR WORKING ON THE DETAIL/PLAN IS TO CONTACT THE ARCHITECT OR THE ARCHITECT'S REPRESENTATIVE PRIOR TO STARTING THAT PARTICULAR WORK.

38.0 THE CONSTRUCTION DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONDITIONS, ETC.) REFER TO EXISTING CONDITIONS AT THE SITE AT THE TIME THE DOCUMENT'S PRODUCTION COMMENCED. THE ARCHITECTS ARE NOT RESPONSIBLE FOR ANY ADDITIONAL DESIGN WORK RELATED TO DAMAGE, ALTERATIONS, OR CONSTRUCTION WORK PERFORMED ON SITE AFTER MENTIONED DATE.

39.0 WORDS "SUPPLY", "INSTALL", "PROVIDE", "REPLACE", ETC, REFER TO NEW MATERIALS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AS PART OF THE CONSTRUCTION CONTRACT, UNLESS SPECIFIED OTHERWISE ON INSTALLATION DETAILS WHERE NOT ALL MATERIALS OR PROCEDURES ARE SPECIFIED, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PARTS AND SHALL CARRY ON ALL STANDARD GOOD CONSTRUCTION PRACTICE METHODS.

40.0 ALL METAL, CONCRETE, CONCRETE COMPOSITE, GYPSUM BOARD, MASONRY, WOOD AND OTHER MATERIAL INTERIOR AND EXTERIOR SURFACES, EITHER NEW OR EXISTING, EXCLUDING DOOR AND WINDOW HARDWARE, ACOUSTIC CEILINGS, FLOOR FINISHES, CERAMIC TILES AND GLASS SURFACES, SHALL BE PAINTED ACCORDING TO PAINT SPECIFICATIONS. THIS INCLUDES ALL CEILINGS, WALLS, RAILINGS, HANDRAILS, PARAPETS, GATES, FIXED GRILLES, DOORS, DOOR FRAMES, WINDOWS, ETC, CLEAN AND PREPARE ALL SURFACES AS PER PAINT SPECIFICATIONS BEFORE APPLYING NEW PAINT, THE ARCHITECT SHALL SUBMIT THE COLOR SCHEMES.

41.0 ACCESS TO THE PROJECT SHALL BE COORDINATED WITH OWNER BEFORE CONSTRUCTION COMMENCEMENT. CONSTRUCTION SITE ACCESS SHALL BE CONTROLLED BY THE CONTRACTOR AND ALL HIS EMPLOYEES SHALL BE DULY IDENTIFIED.

42.0 THE CONTRACTOR SHALL MAINTAIN A GRAPHIC AND WRITTEN RECORD OF ALL CHANGES IN THE DRAWINGS TO SUBMIT TO THE OWNER AT THE END OF THE CONSTRUCTION.

43.0 THE ARCHITECT HAS THE PREROGATIVE OF CHARGING A FEE OF $125.00 PER HOUR FOR THE REVISION OF SUBSTITUTIONS PRESENTED BY THE CONTRACTOR DURING THE BID OR CONSTRUCTION PERIODS.

44.0 THE CONTRACTOR SHALL TAKE INTO ACCOUNT ALL PRECAUTIONS NOT TO DAMAGE EXISTING TREES AND/OR PLANTS TO REMAIN.

45.0 ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AIR CONDITIONING AND STRUCTURAL EQUIPMENT AND/OR INSTALLATION DETAIL SHALL BE INCLUDED IN THE BASE BID EVEN THOUGH THEY ONLY APPEARS ON ARCHITECTURAL DRAWINGS (AND NOT ON ELECTRICAL, STRUCTURAL, MECHANICAL OR CIVIL DRAWINGS) OR ON ELECTRICAL, STRUCTURAL, MECHANICAL OR CIVIL DRAWINGS (AND NOT ON ARCHITECTURAL DRAWINGS), THE CONTRACTOR SHALL VERIFY THE DRAWINGS BEFORE SUBDIVIDING THE DRAWING SETS FOR SUBCONTRACTOR QUOTATIONS.

46.0 THE CONTRACTOR SHALL INSTALL SIGNS FOR THE HANDICAPPED ON WALLS NEXT TO RAMPS, COMPLYING WITH THE ADA CODE. SUBMIT SAMPLE FOR THE ARCHITECT'S APPROVAL.

47.0 ALL MATERIAL SPECIFIED MUST BE INSTALLED OR APPLIED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

48.0 THE CONSTRUCTOR MUST SUBMIT FINISH SAMPLES FOR THE ARCHITECT'S APPROVAL.

49.0 ALL CONCRETE, CONCRETE BLOCK WALLS & CEILINGS TO BE PLASTERED, UNLESS OTHERWISE NOTED.

50.0 THIS IS A PUBLIC BID THEREFORE WHENEVER AND WHEREVER ON THIS PLANS REFERENCE IS MADE TO A SPECIFIC PRODUCT BRAND OR SUPPLIER THE GENERAL CONTRACTOR SHALL UNDERSTAND THAT AN EQUAL OR SIMILAR MATERIAL OR COMPONENT CAN BE SUBMITTED FOR EVALUATION AND POSSIBLE APPROVAL OR DISAPPROVAL OF THE ARCHITECT.

51.0 CONSTRUCTION TIME & REQUIREMENT FOR THIS PROJECT REFER TO CONTRACT DOCUMENTS.

52.0 CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE STREETS, SIDEWALKS AND BUILDING AREAS TO FAMILIARIZE WITH THE EXTENT OF EXISTING ELEMENTS TO BE DEMOLISHED AND REMOVED. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING ALL DEMOLISHED MATERIALS AND EQUIPMENT AWAY FROM THE SITE AT NO COST TO THE OWNER.

53.0 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO ACTUAL CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES, ERRORS OR OMISSIONS, SO THAT PROPER CORRECTIONS ARE MADE. ALL CHANGES AND REVISIONS TO THE EXTENT OF WORK WILL BE AT NO EXTRA COST TO THE OWNER.

54.0 THE CONTRACTOR SHALL COORDINATE OR VERIFY THE LOCATION OF EXISTING UTILITIES, SUCH AS TELEPHONE, ELECTRICAL CONDUITS, SANITARY, WATER AND STORM SEWER LINES. PRIOR TO PROCEED WITH ANY EXCAVATION OR CONSTRUCTION, IN CASE OF INTERFERENCE WITH EXISTING CONDITION, THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER AT NO COST TO THE OWNER.

55.0 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTIONS TO EXISTING UTILITIES, SUCH AS TELEPHONE, ELECTRICAL CONDUITS, SANITARY, WATER AND STORM SEWER LINES WITH NO EXPOSED ENDS, UNLESS OTHERWISE NOTED.

56.0 ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.

57.0 PROVISIONS FOR DETAIL, NOT SPECIFICALLY DRAWN, SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH ACI 318 BUILDING CODE AND/OR CLARIFIED WITH THE DESIGNER.

58.0 ALL DETAILING AND CONSTRUCTION TO BE MADE IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE" (ACT 315), "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACT 318) AND ALL OTHER AMERICAN CONCRETE INSTITUTE STANDARDS AND RECOMMENDATIONS FOR ACCEPTABLE PRACTICES.

59.0 IN CASE OF DOUBT IN THE INTERPRETATION OF ALL ASPECT IN THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATIONS, THE DESIGNER SHALL BE CONSULTED.

60.0 THE CONTRACTOR SHALL REPAIR, CLEAN, AND RESTORED TO FINISHED GRADE, AS REQUIRED ALL CURBS, SIDEWALKS AND AREAS AFFECTED DURING THE CONSTRUCTION OPERATION, DUE TO THE MOVEMENT OF HEAVY EQUIPMENT OR THE TEMPORARY STOCKING OF CONSTRUCTION MATERIALS. AT NO ADDITIONAL COST TO OWNER, IN ORDER TO MINIMIZE DAMAGE, THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER AND LIMIT TO A MINIMUM THE USE OF AREAS FOR SITE MOVEMENT AND STORAGE OF MATERIALS AND EQUIPMENT.

61.0 CONTRACTOR SHALL REMOVE FROM THIS SITE SCRAP MATERIAL OR ANY OTHER ELEMENT DISCARDED WITHIN THE PROJECT. THIS MAY REQUIRE INSPECTION, HANDLING AND/OR DISPOSAL AT CONTRACTOR OWN EXPENSE.

62.0 THE CONTRACTOR IS ADVISED TO INSPECT THE SITE PRIOR TO HIS BIDDING TO ASCERTAIN THE EXTENT OF WORK REQUIRED IN THE DEMOLITION AND REMOVAL OF EXISTING STRUCTURES AND/OR ELEMENTS.

63.0 DURING DEMOLITION AND CONSTRUCTION WORK, INCLUDING EXCAVATIONS, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES SUCH AS SANITARY, WATER AND STORM SYSTEMS BUILDING CONNECTIONS, AND UNDERGROUND ELECTRICAL FACILITIES, ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR WITHIN 12 HOURS OF ITS OCCURRENCE WITHOUT ADDITIONAL COMPENSATION.

64.0 WHERE REQUIRED, CONCRETE WATER VALVE BOXES, CATCH BASINS AND MANHOLES SHALL BE RAISED OR LOWERED TO MATCH PROPOSED GRADING AND PROVIDED NEW COVER, STANDARD GRATING, OR STANDARD MANHOLE COVER, MANHOLES OR VALVE BOXES HIGHER THAN THE PROPOSED GRADING MAY REMAIN UNALTERED IF DRAINAGE IS NOT IMPAIRED.

65.0 CONSTRUCT WHEEL CHAIR RAMPS AT CORNER WHERE SIDEWALK IS REPLACED OR NEW SIDEWALK INSTALLED.

65.0 THE MAXIMUM CONTROL JOINT SPACING AT CURB AND SIDEWALK IS 3 METERS, JOINT MUST BE 0.003 METERS WIDE.

67.0 FORMS SHALL BE OF METAL AND SHALL EXTEND FOR THE FULL DEPTH OF THE CONCRETE. WOODEN FORMS MAY BE USED, WHEN AUTHORIZED BY THE ENGINEER, ON SHORT RADIUS CURVES SUCH AS AT STREET INTERSECTIONS AND AT SUCH OTHER LOCATIONS FOR WHICH CURVED METAL FORMS MAY NOT BE AVAILABLE. ALL FORMS SHALL BE FREE FROM WARP AND OF SUFFICIENT STRENGTH TO RESIST THE PRESSURE OF THE CONCRETE WITHOUT DISPLACEMENT. BRACING AND STAKING OF FORMS SHALL BE SUCH THAT THE FORMS OF REMAIN IN BOTH HORIZONTAL AND VERTICAL ALIGNMENT UNTIL THEIR REMOVAL. ALL FORMS SHALL BE CLEANED AND COATED WITH AN APPROVED FORM RELEASE AGENT OR FORM OIL BEFORE CONCRETE IS PLACED. DIVIDER PLATES SHALL BE OF METAL. FORMS SHALL CONFORM TO THE SPECIFIED RADIUS WHEN PLACED ON CURVES.

68.0 WHERE EXISTING SIDEWALK IS BEING RECONSTRUCTED AND WHERE NEW SIDEWALK IS BEING BUILT ALONG LOCAL ROADS, THE CONTRACTOR SHALL INSTALL CURB AND GUTTER TYPE AS SPECIFIED AND AS SHOWN IN PLANS.

69.0 SAW CUT SHALL BE MADE AT THE BOUNDARIES OF EXISTING ASPHALT OR CONCRETE PAVEMENT AND A NEW OR EXISTING SIDEWALK TO BE RECONSTRUCTED AT LEAST 2 INCHES DEEP.

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 In formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/JUL/17	Explication

PROFESSIONAL SEAL

julián manriquez botello puerto rico
LIC. MSX DCCC III
EXP. 19 X. 2025

CERTIFICATIONS + COPYRIGHTS + FIRM NAME

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE ESTE ES MI PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS. YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE ESTOS PLANOS SON EVIDENCIA QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O COMPAÑIAS PUBLICAS CON JURISDICCION SOBRE LA MATERIA.

Tel.: 00926 PARA LA DISEÑO, EMBARCADA TRANQUILA Y CON SEGURA. ESTOS PLANOS SON PROPIEDAD INTELECTUAL DE MR. MES ASOCIOS, S.E. Y QUEDO PROTEGIDOS BAJO LAS LEYES DE PROPIEDAD INTELECTUAL. ACCION JUDICIAL Y RESPONSABILIDAD CIVIL Y PENAL SERA EFECTIVA EN CONTRA DE CUALQUIER PERSONA O ENTIDAD QUE HAGA REFERENCIA (DOCU-MENTOS, PLANOS, INDICE PERSONAL AND OBRA) PROYECTO HEREIN.

SIGNED: ANY TOTAL PARTIAL REPRODUCTION OR USE OF DOCU-MENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT PERMISSION AND WRITTEN AUTHORIZATION FROM THE ARCHITECT AND SHALL BE SUBJECT TO PROSECUTION.

ST0910

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General Demolition Notes

ALL INFECTION CONTROL CRITERIA AS SPECIFIED IN SECTION 01 00 00 - GENERAL REQUIREMENTS - SHALL BE ADHERED TO DURING ALL PHASES OF THE PROJECT.

1. THE DEMOLITION DRAWINGS FOR ARCHITECTURAL AND ENGINEERING WORK HAVE BEEN PREPARED USING 'MEASURED DRAWINGS/AS-DESIGNED' DOCUMENTS PROVIDED BY THE OWNER. NEITHER THE OWNER NOR THE ARCHITECT WARRANT THESE TO BE "AS-BUILT" DOCUMENTS, AND ACTUAL CONDITIONS MAY VARY. THE DEMOLITION WORK INDICATED IS INTENDED TO SHOW THE GENERAL SCOPE OF THE DEMOLITION WORK AND IN NO WAY RELIEVES THE CONTRACTOR FROM PERFORMING ANY AND ALL DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.

2. DEMOLITION NOTES INDICATED ON DRAWINGS MAY NOT BE ALL INCLUSIVE. REMOVE ALL ITEMS REQUIRED FOR RECONSTRUCTION ACTIVITIES.

3. VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK, BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE ARCHITECT IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.

4. ALL STRUCTURAL ELEMENTS SHALL BE PROTECTED DURING DEMOLITION & THROUGHOUT CONSTRUCTION.

5. ALL DEMOLISHED MECHANICAL AND ELECTRICAL ITEMS SHALL BE REMOVED INCLUDING MAIN RUNS AND SERVICE LINES TO SOURCE, ALL SYSTEM LINES ARE NOT SHOWN ON CONSTRUCTION DOCUMENTS.

6. ALL WALLS, SUB-STRUCTURAL FRAMES, PARTITIONS, EQUIPMENT, ETC, INDICATED BY DASHED LINES (- - - -) SHALL BE REMOVED. ALL MECHANICAL, ELECTRICAL, PLUMBING AND OTHER SERVICES WHICH ARE CONTAINED IN THE AREA TO BE REMOVED SHALL ALSO BE REMOVED OR REROUTED. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH NEW CONSTRUCTION BEFORE STARTING DEMOLITION.

7. AFTER REMOVAL OF EXISTING FLOOR FINISH, CONCRETE FLOOR SHALL BE GROUND SMOOTH AND LEVELED BEFORE INSTALLATION OF NEW FINISH PER ROOM FINISH SCHEDULE. AT DISSIMILAR FLOOR ELEVATIONS, FEATHER SELF-LEVELING UNDER-LAYMENT COMPOUND TO EACH FLOOR ELEVATION AND GRIND SMOOTH. AT DISSIMILAR FLOOR MATERIALS, AND/OR AT JUNCTIONS BETWEEN NEW AND EXISTING FLOORS, PROVIDE APPROPRIATE TRANSITION STRIP.

8. WHERE EXISTING DOORS, DOOR FRAMES, EQUIPMENT, PORTIONS OF WALLS AND PARTITIONS ARE REQUIRED TO BE REMOVED FOR THE COMPLETION OF THE WORK, EXERCISE CAUTION TO AVOID DISRUPTING SURROUNDING MATERIALS. SALVAGE EXISTING MATERIALS AS MUCH AS POSSIBLE FOR REUSE IN PATCHING SURROUNDING FINISHES WHEN APPROVED BY THE OWNER'S REPRESENTATIVE OR INDICATED ON CONSTRUCTION DRAWINGS.

9. WHERE REMOVAL OF EXISTING WALLS, PARTITIONS, EQUIPMENT, ETC, DISRUPTS EXISTING ELECTRICAL, MECHANICAL AND PLUMBING SERVICES, MAKE PERMANENT (OR IF NECESSARY, PROPER TEMPORARY) CONNECTIONS TO RESTORE AFFECTED SERVICES TO ORIGINAL CONDITION IN AREAS NOT SCHEDULED FOR DEMOLITION AND REMODELING.

10. REPAIR ANY DAMAGE TO ITEMS INDICATED TO REMAIN AS A RESULT OF DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. SEE SITE, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

11. ERECT AND MAINTAIN TEMPORARY CONSTRUCTION BARRIERS, COORDINATE LOCATIONS WITH CONSTRUCTION DOCUMENTS, PROJECT PHASING, ARCHITECT AND OWNER'S REPRESENTATIVE.

12. MAINTAIN CLEAR EXIT PATHS DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.

13. UTILITIES/MEDICAL SYSTEM SHUTDOWNS (INCLUDING MEDICAL GASES) SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE, PER THE SPECIFICATIONS.

14. PRIOR TO MOBILIZATION, OR WORK COMMENCEMENT, THE CONTRACTOR SHALL COMMUNICATE IN WRITING THE PRESENCE/ABSENCE OF ASBESTOS OR LEAD IN ANY PART OF THE EXISTING STRUCTURE.

15. THE CONTRACTOR IS RESPONSIBLE FOR ASBESTOS ABATEMENT AND SHALL COORDINATE SUCH ABATEMENT WITH DEMOLITION WORK.
    A. THE OWNER BELIEVES THAT A CERTAIN AMOUNT OF THE EXISTING TILE HAS ASBESTOS-BASED MASTIC.
    B. THE OWNER BELIEVES THAT EXISTING LEAD BASED PAINT MAY BE PRESENT IN HE EXISTING STRUCTURE.

16. ALL DEMOLITION WORK SHALL BE PERFORMED WITH "DUE CARE AND DILIGENCE" SO AS TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH COULD NOT BE PREDETERMINED UNTIL DEMOLITION WAS STARTED. ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A LOCATION DIFFERENT FROM FLOOR TO FLOOR, ETC., OR ARE UNIDENTIFIED, SHALL BE REPORTED TO THE ARCHITECT BEFORE REMOVAL FOR FINAL DISPOSITION.

17. REMOVE PORTIONS OF EXISTING CONSTRUCTION AS DRAWN AND PATCH TO MATCH ADJACENT CONSTRUCTION. PATCH TO MATCH ADJACENT SURFACES OF EXISTING WALLS AND FLOORS IN ALL AREAS REQUIRED DUE TO THE REMOVAL OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT OR FIXTURES. NEW WORK SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED.

18. WHERE DEMOLITION WORK UNCOVERS OR LEAVES OPENINGS IN PARTITIONS OR INCOMPLETE PARTITIONS, EXTEND, RESTORE, AND/OR CLOSE OPENING IN PARTITION AS INDICATED AND/OR AS REQUIRED TO MAINTAIN FIRE RATINGS, MATCH EXISTING CONSTRUCTION, U.N.O., WITHIN THE LIMITS AND TOLERANCES FOR MATERIALS AS SPECIFIED OR RECOMMENDED BY THE MANUFACTURER. REFINISH SURFACES TO ALIGN FLUSH WITH EXISTING.

19. WHERE DEMOLITION WORK OR RELOCATION OF EXISTING ITEMS LEAVES UNFINISHED SURFACES AND/OR SUBSTRATES, CUT AND PATCH AS REQUIRED TO RESTORE SUBSTRATE AND/OR FINISH MATERIAL EVEN AND FLUSH WITH ADJOINING SURFACES. TEXTURE AND REFINISH TO MATCH EXISTING UNLESS NOTED OTHERWISE.

20. APPLY SELF-LEVELING COMPOUND TO FLOORING WHERE CMU WALLS ARE DEMOLISHED. GRIND FLOOR PRIOR TO APPLYING SELF-LEVELING COMPOUND IF REQUIRED TO ALLOW FOR LEVEL FLOOR SURFACE.

21. WHERE DEMOLITION OR RELATED WORK LEAVES FLOOR SURFACES WITH IMPERFECTIONS OR NOT LEVEL TO TOLERANCES SPECIFIED FOR NEW WORK, PROVIDE SELF-LEVELING UNDERLAYMENT.

22. REMOVAL OF EXISTING FIXTURES AND EQUIPMENT WILL REQUIRE ISOLATING THE PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. INSTALL NEW ISOLATION VALVES WHERE REQUIRED FOR COMPLETION OF WORK.

23. REMOVAL OF EXISTING PLUMBING FIXTURES AND EQUIPMENT, ETC. WILL REQUIRE CAPPING AND SEALING EXISTING MAINS OR BRANCHES AS NECESSARY AND REQUIRED TO ALLOW THE REMAINING SYSTEMS TO FULLY OPERATE WITHOUT DEGRADATION. CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK, AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK. REFER TO GENERAL CONDITIONS AND DIVISION 1 SECTIONS IN THE SPECIFICATIONS.

24. ALL DRAINED PIPING RISERS AND MAINS SHALL BE REFILLED WITH PROPER FLUID AND PROPERLY VENTED BY THE CONTRACTOR, ONCE NEW WORK HAS BEEN INSTALLED.

25. CEILINGS WHICH ARE IN CONFLICT WITH NEW WORK SHALL BE REMOVED OR RELOCATED ALONG WITH ALL MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS. COORDINATE WITH GENERAL CONTRACTOR THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILINGS, WALLS, ETC. AS REQUIRED FOR THE SPECIFIC WORK.

26. EXISTING PIPING AND EQUIPMENT, ETC., NOT TO BE UTILIZED IN THE COMPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED AS REQUIRED. ALL ENDS OF DISCONTINUED PIPING SHALL BE CAPPED IN THE NEAREST WALL, CEILING OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. OPENINGS LEFT IN WALLS, CEILINGS, ETC., WHERE EQUIPMENT AND PIPE, ETC., ARE REMOVED AND NOT REPLACED, SHALL BE PATCHED NEATLY WITH SIMILAR MATERIAL TO ADJACENT CONSTRUCTION. REFER TO DRAWINGS DELINEATING NEW WORK FOR ADDITIONAL INFORMATION REGARDING SYSTEMS OR PORTIONS OF SYSTEMS WHERE USE IS TO BE DISCONTINUED.

27. WHEREVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC., ARE REQUIRED TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGARS, BRACING, FOUNDATION, ETC., AFTER REMOVAL, AFFECTED CONSTRUCTION AND SURFACES, SUCH AS FLOORS ,WALLS, BASES, AND CEILINGS, SHALL BE FINISHED TO MATCH ADJACENT SURFACES UNLESS OTHERWISE NOTED.

28. EXISTING PIPING, FIXTURES AND EQUIPMENT THAT ARE NOT TO BE REUSED SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE OWNER IF THEY WISH TO RETAIN OWNERSHIP OF SAME. IF NOT, EQUIPMENT SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AS SOON AS PRACTICAL AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.

29. ALL CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.

30. WHERE EXISTING PIPING AND EQUIPMENT, ETC,, THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.

31. PORTIONS OF EXISTING SYSTEMS MAY BE SHOWN FOR CLARITY EVEN THOUGH IT MAY NOT BE NECESSARY TO MODIFY OR REVISE THEM. ALL EXISTING SYSTEMS ARE SHOWN BASED ON ORIGINAL OR REMODEL BUILDING DRAWINGS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.

32. ALL WORK MUST BE COORDINATED AND SCHEDULED WITH THE OWNER AND OCCUPANTS OF THIS BUILDING SO AS TO PROVIDE THE LEAST AMOUNT OF DISRUPTION OF BUILDING ACTIVITIES AS POSSIBLE.

33. ALL ACCESSIBLE ABANDONED PIPING AND DUCTWORK SHALL BE REMOVED AND PROPERLY DISPOSED OF.

34. CONTRACTOR SHALL REPAIR ALL SURFACES TO LIKE NEW AFTER TEMPORARY WALLS AND DOORS HAVE BEEN REMOVED.

Demolition Keynotes

Accessories/Miscellaneous

- A1 REMOVE AND DISPOSE OF EXISTING TOILET
- A2 REMOVE AND DISPOSE OF EXISTING COUNTERTOP, SHELVING, AND WORKSTATION
- A3 REMOVE AND DISPOSE OF EXISTING CANOPY AND RELATED ITEMS

Ceiling

- C1 REMOVE AND DISPOSE OF EXISTING CEILING SYSTEM.
- C2 REMOVE AND DISPOSE OF EXISTING TRACKS.
- C3 REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURES.

Doors and Frames

- D1 REMOVE AND DISPOSE OF EXISTING DOOR, FRAME, HARDWARE AND SIDELIGHT.
- D2 REMOVE AND DISPOSE OF EXISTING SLIDING DOOR, FRAME, HARDWARE AND RELATED ITEMS.
- D3 REMOVE AND DISPOSE OF EXISTING BI-FOLDING DOOR, FRAME, HARDWARE AND RELATED ITEMS.
- D4 NOT USED.

Floor

- F1 REMOVE AND DISPOSE OF EXISTING FLOOR COVERING TO SLAB.
- F2 REMOVE AND DISPOSE OF EXISTING CONCRETE WALKWAY/ STOOP.
- F3 REMOVE AND DISPOSE OF EXISTING RECESSED WALK OFF FLOOR MAT AND FLOOR COVERING LEVEL RECESS WITH SELF LEVELING UNDER-LAYMENT COMPOUND.
- F4 REMOVE AND DISPOSE OF EXISTING..
- F5 REMOVE AND DISPOSE OF EXISTING..

Mechanical/Plumbing

- M1 REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE (UTILITY SINK, FLOOR DRAIN, WATER CLOSET, URINAL, SHOWER AND/OR LAVATORY), RE: MEP.
- M2 NOT USED.
- M3 REMOVE AND DISPOSE OF EXISTING FIN TUBE RADIATOR, RE: MEP.
- M4 REMOVE AND DISPOSE OF EXISTING FAN COIL UNIT HEATER, RE: MEP.
- M5 NOT USED.

Partitions

- P1 REMOVE AND DISPOSE OF EXISTING MASONRY PARTITION AND RELATED ITEMS.
- P2 REMOVE AND DISPOSE OF EXISTING STUD PARTITION AND RELATED ITEMS.
- P3 REMOVE AND DISPOSE OF EXISTING STUD PARTITION/ FURRING AND RELATED ITEMS AROUND COLUMN. STEEL COLUMN SHALL REMAIN.
- P4 REMOVE AND DISPOSE OF EXTERIOR WALL SYSTEM AND RELATED ITEMS.
- P5 NOT USED.

Protection Notes

1. GENERAL: CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION TO REMAIN AS REQUIRED TO PREVENT DAMAGE. ALL EXISTING MATERIALS, SURFACES, EQUIPMENT, ETC, DAMAGED DURING THE WORK SHALL BE REPAIRED TO THE OWNER'S REPRESENTATIVE SATISFACTION OR REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER. PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO THE START OF ALL DEMOLITION, AND MAINTAINED THROUGHOUT CONSTRUCTION AS NEEDED.
2. COORDINATE LOCATION AND TYPE OF ALL PROTECTION BARRIERS WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
3. PROVIDE FLOOR PROTECTION COVERINGS AS REQUIRED TO PREVENT DAMAGE TO EXISTING FLOOR COVERINGS AND FINISHES TO REMAIN THROUGHOUT ALL CONSTRUCTION AND DEMOLITION ACTIVITY.
4. EXISTING EMERGENCY EXITS MUST BE MAINTAINED ACCESSIBLE DURING THE PERIOD OF CONSTRUCTION
5. CONTRACTOR SHALL SEAL ALL DOOR OPENINGS AND HVAC OPENINGS IN ALL AREAS OF DEMOLITION AND CONSTRUCTION PRIOR TO CUTTING, SANDING, ETC. TO PREVENT DUST MIGRATION TO ADJACENT ROOMS.
6. CONTRACTOR SHALL PROVIDE TEMPORARY WEATHER PROTECTION FOR ALL EXTERIOR OPENINGS WHERE DOORS, WINDOWS, LOUVERS, ROOF HATCHES AND ROOF EQUIPMENT OPENINGS ARE REMOVED OR WHERE NEW EXTERIOR OPENINGS ARE INSTALLED UNTIL PERMANENT ITEMS OR WEATHER PROTECTION ARE INSTALLED.
7. CONTRACTOR SHALL PROVIDE PROTECTION TO EXISTING PLANTS AND NEW PLANTINGS FROM PHYSICAL INJURY, ROOT ZONE COMPACTION AND OTHER RELATED DISTURBANCES DURING PERIODS OF CONSTRUCTION.
8. PROTECTIVE MATERIAL SHALL NOT RESTRICT THE AMOUNT OF AIR NOR MOISTURE NEEDED FOR THE ROOT ZONE WITHIN THE DRIPLINE AREA OF THE PLANT.

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

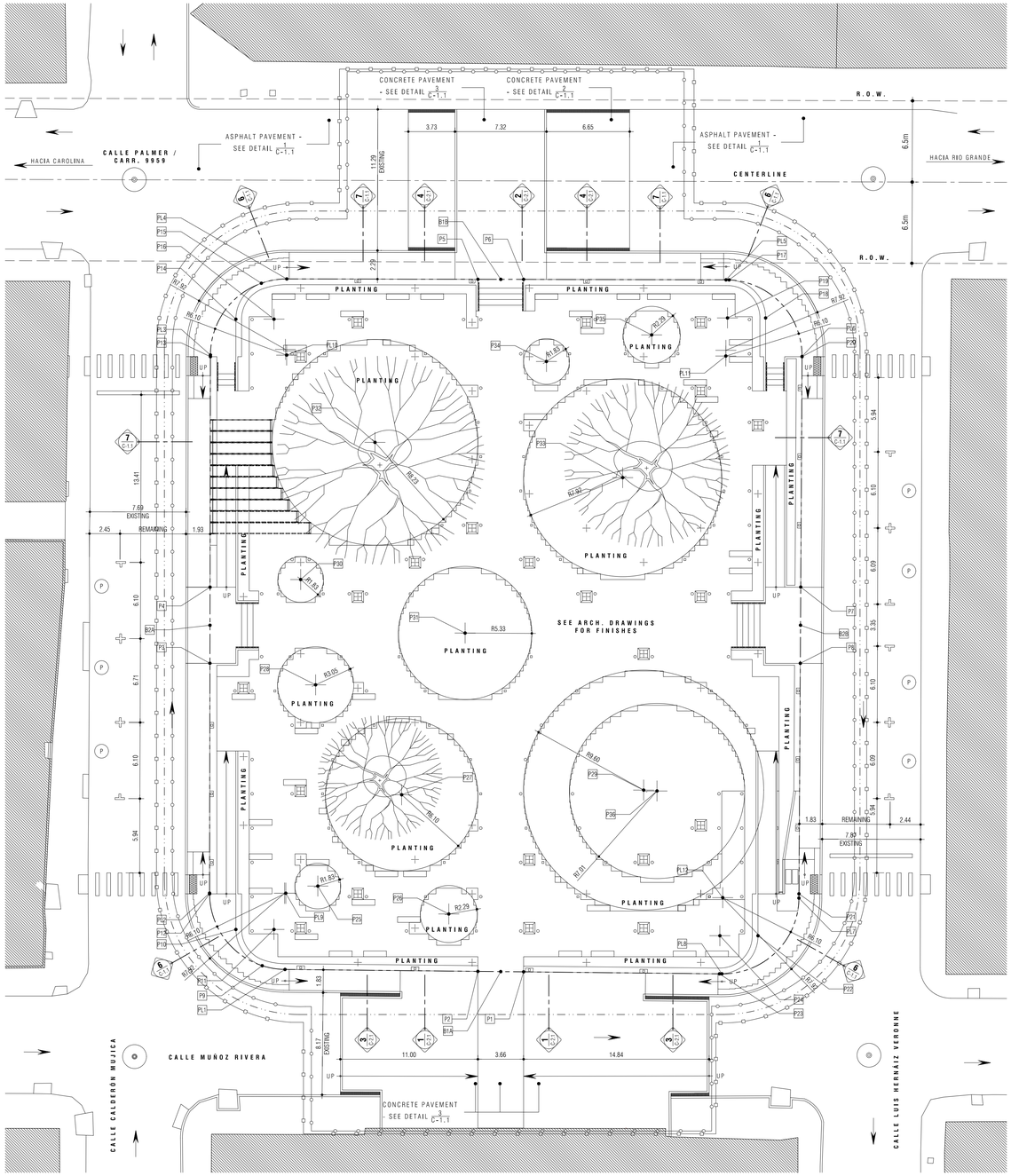
REV. #	DATE	ISSUING REASON
1	05/x/17	Explication

PROFESSIONAL SEAL

JULIÁN MANRIQUEZ BOTELLO PUERTO RICO LIC. MAN. 00CC-111 EXP. 19 X 2025

CERTIFICACIONES - COMMENTS - FIRM NAME

YO, JULIÁN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, COMPUSO/CONFIRMÓ Y PREPARÓ ESTOS PLANOS Y/O ESPECIFICACIONES Y/O INFORME TÉCNICO ADJUNTO, Y CERTIFICO QUE ESTOS PLANOS Y/O ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE EN LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE LA OBRA. ESTOS PLANOS Y/O ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NÚM. 173 DEL 14 DE AGOSTO DE 1988, SEGÚN ENMENDADA, CONOCIDA PARA LA INVERSIÓN POR LA INDUSTRIA PRIVADA EN LA LEY NÚMERO 80 DEL 5 DE JULIO DE 1976, SEGÚN ENMENDADA. RECONOZCO QUE CUALQUIER OMISIÓN O VIOLACIÓN A LAS DISPOSICIONES LEGALES APLICABLES PODRÍA CAUSAR LA REVOCACIÓN DE ESTA CERTIFICACIÓN. CUALQUIER CAMBIO A POR NOSOTROS EMPLEADOS, O POR OTRAS PERSONAS QUE NO SEAN EMPLEADOS DE MI FIRMA CONSULTORA O CONTRATISTAS, PODRÍA CAUSAR LA REVOCACIÓN DE ESTA CERTIFICACIÓN. ME HAGO RESPONSABLE POR LA ACCIÓN JUDICIAL Y DISCIPLINARIA QUE PUEDA TOMAR EL COLEGIO DE INGENIEROS Y AGRIMENSORES DE PUERTO RICO CONTRA MI PERSONA, SEGÚN LO DISPONGA LA LEY 173 DEL 14 DE AGOSTO DE 1988, SEGÚN ENMENDADA, Y EL REGLAMENTO PARA LA ADMINISTRACIÓN DE LA PROFESIÓN DE INGENIERÍA Y LA AGRIMENSURA. POR TANTO, ESTUDIO LLC, AND SHALL NOT BE RESPONSIBLE FOR ANY CHANGES MADE IN THE PLANS AND/OR SPECIFICATIONS BY OTHERS WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. ESTUDIO LLC, AND SHALL BE INDEMNIFIED AND HELD HARMLESS BY THE OWNER AND/OR USER OF THE INFORMATION CONTAINED HEREIN FOR ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND COURT COSTS, ARISING FROM THE UNAUTHORIZED REUSE OF THE INFORMATION CONTAINED HEREIN. ESTUDIO LLC, AND SHALL BE ENTITLED TO COMPENSATION FOR ANY A



Geometry Site Plan

SCALE : 1 = 200

LEGEND

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- PROPOSED TREE
- DIRECTION OF TRAVEL
- EXISTING PARKING TO REMAIN

COORDINATES			
POINT	**NORTH**	**EAST**	**DESCRIPTION**
PL1	260455.9251	255621.4083	PROPERTY LINE
PL2	260458.8276	255613.2604	PROPERTY LINE
PL3	260497.0752	255593.7859	PROPERTY LINE
PL4	260505.2204	255596.4675	PROPERTY LINE
PL5	260521.0967	255627.8029	PROPERTY LINE
PL6	260518.3936	255636.0062	PROPERTY LINE
PL7	260479.6630	255655.4475	PROPERTY LINE
PL8	260471.4683	255652.7105	PROPERTY LINE
PL9	260461.3850	255618.6971	PROPERTY LINE CORNER RADIUS CENTER
PL10	260499.7826	255599.2227	PROPERTY LINE CORNER RADIUS CENTER
PL11	260515.6588	255630.5581	PROPERTY LINE CORNER RADIUS CENTER
PL12	260476.9283	255649.9993	PROPERTY LINE CORNER RADIUS CENTER

B1A	260463.5997	255636.8641	CONSTRUCTION NORTH-SOUTH AXIS BASELINE
B1B	260512.9540	255611.7315	CONSTRUCTION NORTH-SOUTH AXIS BASELINE
B2A	260477.7415	255603.5662	CONSTRUCTION EAST-WEST AXIS BASELINE
B2B	260499.1737	255645.6539	CONSTRUCTION EAST-WEST AXIS BASELINE

P1	260464.4131	255638.5021	PLAZA ENTRY
P2	260462.7863	255635.2260	PLAZA ENTRY
P3	260475.0231	255604.9449	PLAZA ENTRY
P4	260480.4598	255602.1875	PLAZA ENTRY
P5	260512.1275	255610.1001	PLAZA ENTRY
P6	260513.7805	255613.3628	PLAZA ENTRY
P7	260501.8978	255644.2865	PLAZA ENTRY
P8	260496.4496	255647.0213	PLAZA ENTRY
P9	260455.383878	255619.649498	PERIMETER
P10	260456.991327	255616.457189	PERIMETER
P11	260458.37445	255619.173303	PERIMETER RADIUS CENTER
P12	260458.577114	255613.286297	PERIMETER
P13	260496.901961	255593.846399	PERIMETER
P14	260500.50231	255594.30015	PERIMETER
P15	260503.988308	255594.80986	PERIMETER
P16	260501.885433	255597.016264	PERIMETER RADIUS CENTER
P17	260521.205375	255628.028833	PERIMETER
P18	260519.815228	255632.00957	PERIMETER
P19	260518.432105	255629.293456	PERIMETER RADIUS CENTER
P20	260518.378748	255636.013678	PERIMETER
P21	260479.960672	255655.294061	PERIMETER
P22	260473.4940	255653.8951	PERIMETER
P23	260471.3809	255652.5346	PERIMETER
P24	260474.1109	255651.7190	PERIMETER RADIUS CENTER

P25	260463.059279	255620.721159	PLANTING AREA RADIUS CENTER
P26	260465.823408	255631.070595	PLANTING AREA RADIUS CENTER
P27	260472.611269	255623.38198	PLANTING AREA RADIUS CENTER
P28	260477.325999	255613.258809	PLANTING AREA RADIUS CENTER
P29	260481.740833	255640.483879	PLANTING AREA RADIUS CENTER
P30	260484.292036	255608.369633	PLANTING AREA RADIUS CENTER
P31	260486.444515	255622.031784	PLANTING AREA RADIUS CENTER
P32	260496.767135	255608.686813	PLANTING AREA RADIUS CENTER
P33	260503.245029	255627.620941	PLANTING AREA RADIUS CENTER
P34	260508.758063	255617.969614	PLANTING AREA RADIUS CENTER
P35	260514.46999	255624.506208	PLANTING AREA RADIUS CENTER
P36	260482.1634	255641.4686	STAGE RADIUS CENTER

Notes:

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4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS		
1	05/x.17	Explanation
REV. #	DATE	ISSUING REASON

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA — INGENIERO LICENCIADO — LIC. #6588 — PUERTO RICO

Yo, José O. González García, ingeniero civil, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones, y complementarias, también certifico que amiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y ordenanzas municipales vigentes de las agencias, Juntas reglamentadoras o corporaciones públicas con jurisdicción, certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido estrictamente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1978, según enmendada, en cuanto que cualquier declaración falsa o falsificación de los hechos que se hayan realizado por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICACIÓN - COTTONETS - NEW NAME

YO, JULIAN MARRUQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS, TAMBIEN CERTIFICO QUE ENMENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y ORDENANZAS MUNICIPALES VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN, CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NUMERO 96 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 96 DE 6 DE JULIO DE 1978, SEGUN ENMENDADA, EN CUANTO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA REALIZADO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

SIGNED: ANY TOTAL PARTIAL REPRODUCTION OR USE OF SAID DOCUMENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT AND SHALL BE RETURNED TO INFORMATION STUDIO.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Geometry Site Plan

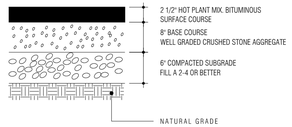
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
6	krs / 10.v.2023

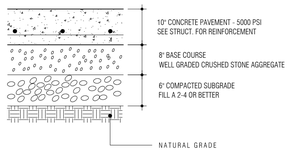
DISCIPLINE

C-1.0



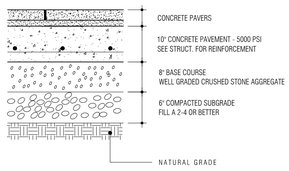
Heavy Duty Asphalt Pavement Detail (Typ) 1

NOT TO SCALE C-1.1



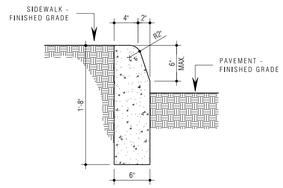
Heavy Duty Concrete Pavement Detail (Typ) 2

NOT TO SCALE C-1.1



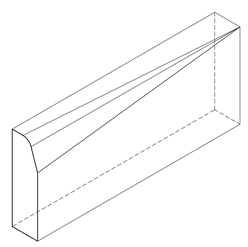
Heavy Duty Concrete Pavement Detail (Typ) 3

NOT TO SCALE C-1.1



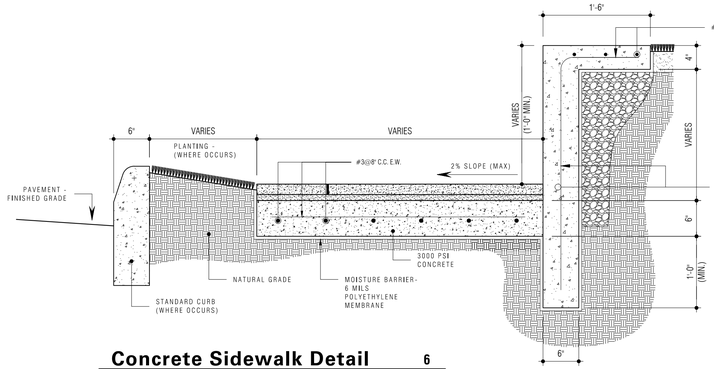
Standard Curb 4

SCALE : 1" = 1'-0" C-1.1



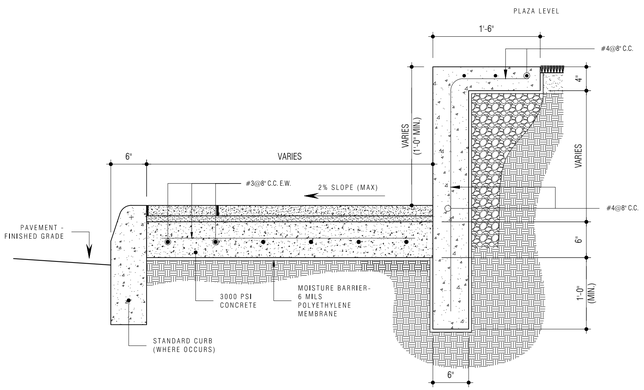
Curb Type 1 - Transition 5

NOT TO SCALE C-1.1



Concrete Sidewalk Detail 6

SCALE : 1" = 1'-0" C-1.1



Concrete Sidewalk Detail 7

SCALE : 1" = 1'-0" C-1.1

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x.17	Explanation

PROFESSIONAL SEAL



CERTIFICACIÓN - COPYRIGHTS - VIEW NAME

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YO, JULIAN MARRUGUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE LOS MISMOS, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REFORMA POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚM. 96 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, EN CUANTO A QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA REALIZADO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OFPP. DOPE. DOPE.

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Carolina, PR, 00979 - Office: Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñoz, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Civil Details

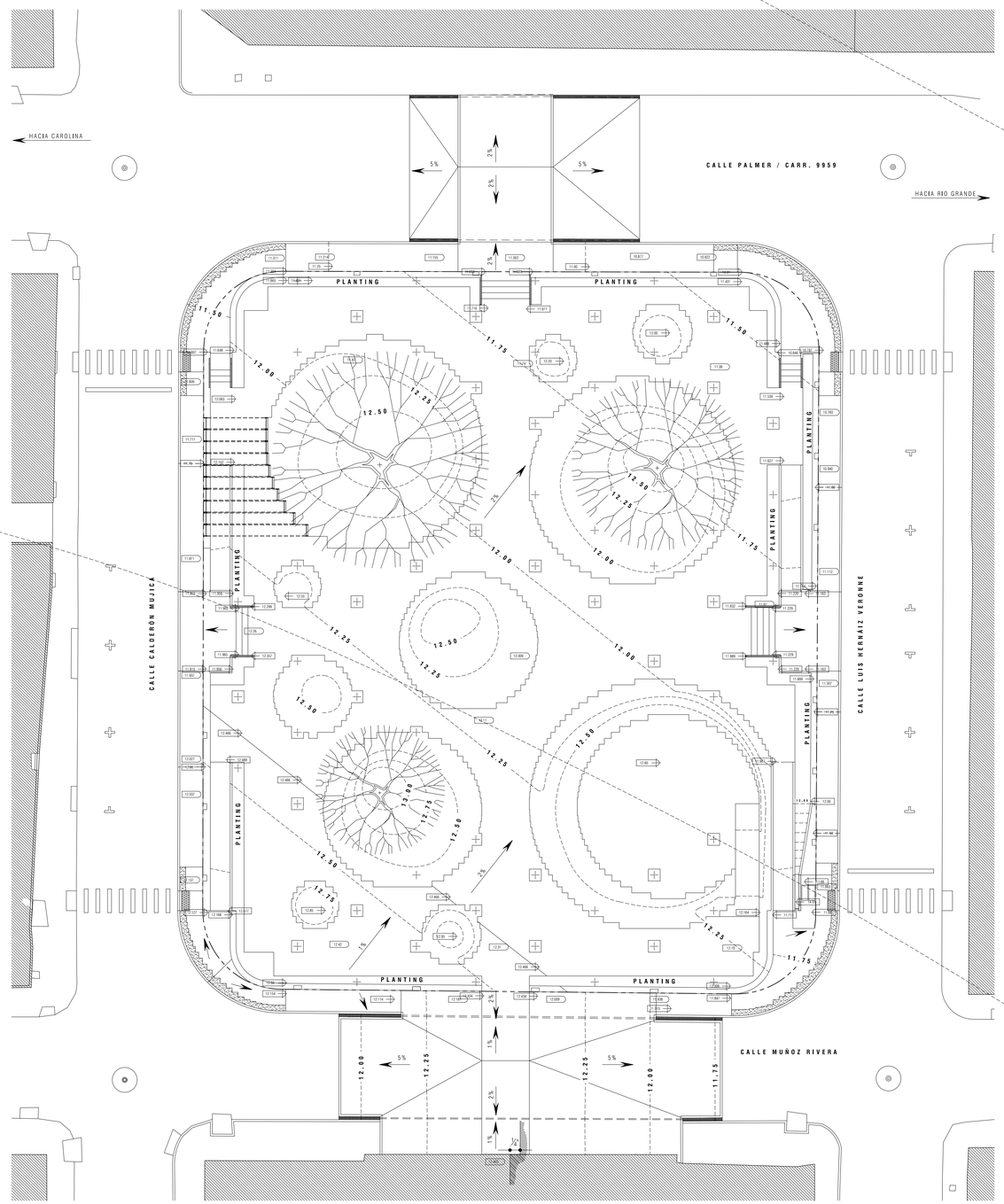
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
7	krs / 26.vi.2024

DISCIPLINE

C-1.1



Grading Site Plan

SCALE : 1/16" = 1'-0"

Legend

- XX% — SLOPE
- RUNOFF FLOW
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- XX.XX — CONTOUR
- PROPERTY LINE

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x.17	Explanation

PROFESSIONAL SEAL

JOSÉ O. GONZÁLEZ GARCÍA
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

Yo, José O. González García, licencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras o corporaciones públicas con jurisdicción sobre certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido estrictamente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la profesión de por la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1976, según enmendada, entiendo que cualquier declaración falsa o fabricación de los hechos que se hayan realizado por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

YO, JULIAN MARRUGUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARÓ ESTOS PLANOS. Y, BIEN CIERTO, CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPE- CIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPO- RACIONES PÚBLICAS CON JURISDIC- CIÓN SOBRE ESTOS PLANOS Y ESPECIFICA- CIONES. ADEMÁS, CERTIFICO QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚMERO 14-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA TORNEGUEN Y CON PARA LA PROFESIÓN DE INGENIERO Y CON LA LEY NÚMERO 96 DEL 6 DE SEGUN ENMENDADA JULIO DE 1976, SEGÚN RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FABRICACIÓN DE LOS HECHOS QUE SE HAYAN REALIZADO POR DESCONOCIMIENTO O POR NEGLIGENCIA, YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE CON MI CONOCIMIENTO ME HACEN RESPONSABLE DISCIPLINARIA POR LA ACCIÓN JUDICIAL Y OGPE Y POR CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE. OGPE. COPYRIGHT - ALL RIGHTS RESERVED - DERECHOS RESERVADOS - COPYRIGHT AND OTHER PROPERTY RIGHTS IN THIS DESIGN AND DRAWING ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT WHETHER THE WORK FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. NO PART OF THIS DESIGN OR DRAWING MAY BE REPRODUCED OR USED IN ANY FORM OR BY ANY MEANS GRAPHIC, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, TAPING OR INFORMATION STORAGE AND RETRIEVAL SYSTEMS - USED WITHOUT THE PRIOR WRITTEN PERMISSION OF THE ARCHITECT. ALL RIGHTS RESERVED. COPYRIGHT © 2009 - ANY UNAUTHORIZED USE OF THESE DRAWINGS AND SPECIFICATIONS IS STRICTLY PROHIBITED. - DERECHOS RESERVADOS - DERECHOS DE AUTOR Y OTROS DERECHOS DE PROPIEDAD EN ESTE DISEÑO Y DIBUJOS, ASÍ COMO LOS DISEÑOS Y DIBUJOS EN SÍ MISMOS, SON Y DEBERÁN PERMANECER PROPIEDAD DEL ARQUITECTO, INDEPENDIENTEMENTE DE QUE LA OBRA PARA LA CUAL SE PREPARARON SEA EJECUTADA O NO. NINGUNA PARTE DE ESTE DISEÑO O DIBUJO PUEDE SER REPRODUCIDA O UTILIZADA EN CUALQUIER FORMA O POR CUALQUIER MEDIO GRÁFICO, ELECTRÓNICO O MECÁNICO, INCLUYENDO FOTOCOPIAS, GRABACIÓN, CINTA O SISTEMAS DE ALMACENAMIENTO Y RECUPERACIÓN DE INFORMACIÓN - UTILIZADO SIN EL PERMISO POR ESCRITO DEL ARQUITECTO. TODOS LOS DERECHOS RESERVADOS. COPYRIGHT © 2009 - CUALQUIER USO NO AUTORIZADO DE ESTOS DISEÑOS Y DIBUJOS ESTÁ ESTRICTAMENTE PROHIBIDO.

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Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

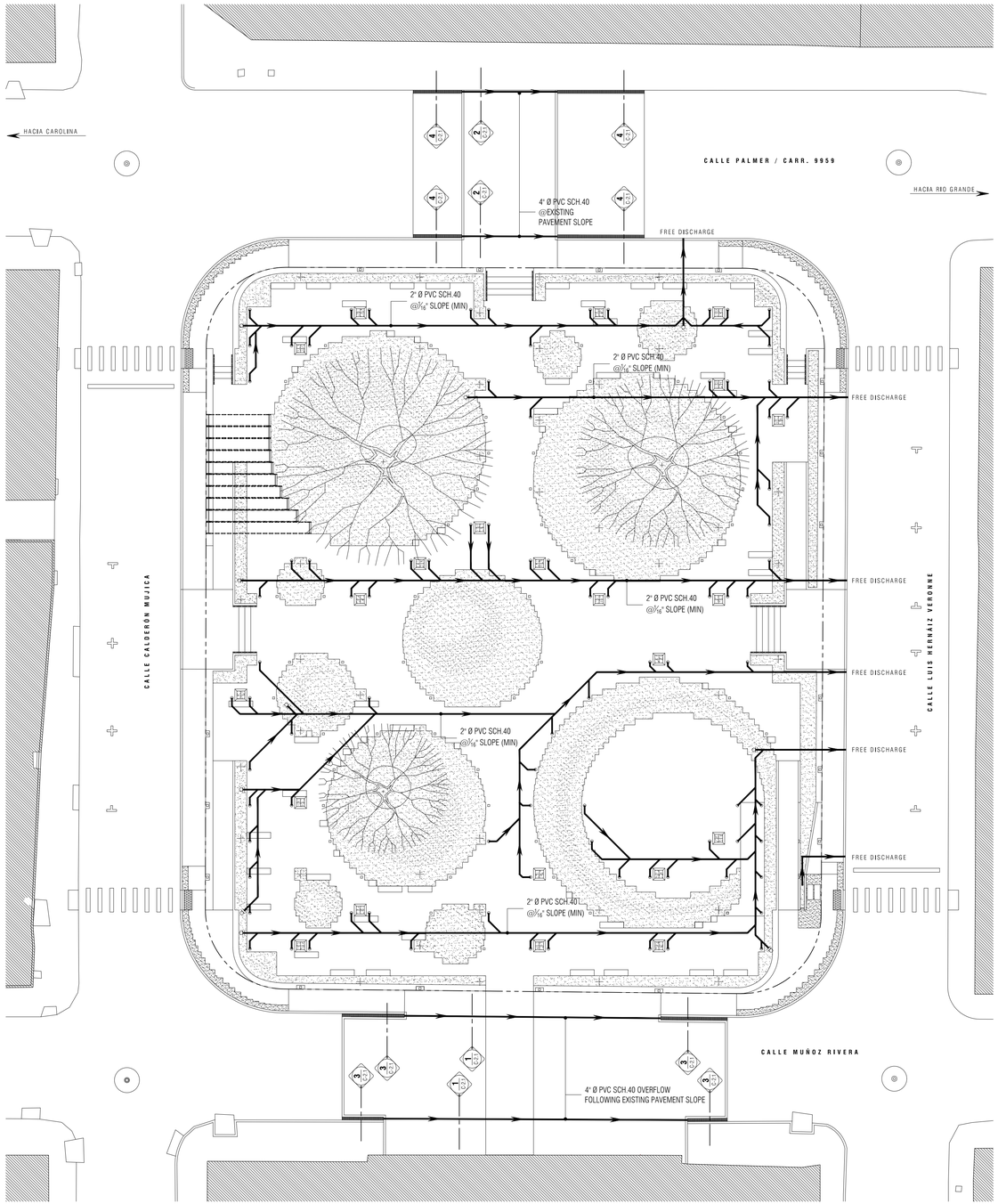
DWG. TITLE

Proposed Grading Plan

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

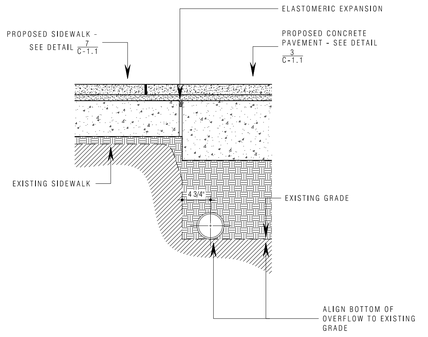
PROJECT #: 22-03
PROJECT PHASE: Construction Docs - 100%
SHEET #: 8
DRAWN BY: krs
DATE: 26.vi.2024
DISCIPLINE

C-2.0



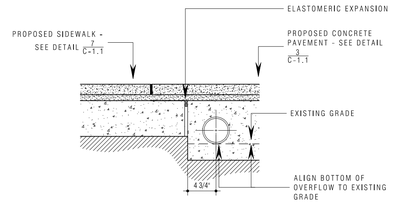
Storm Water Drainage Plan

SCALE : 1/16" = 1'-0"



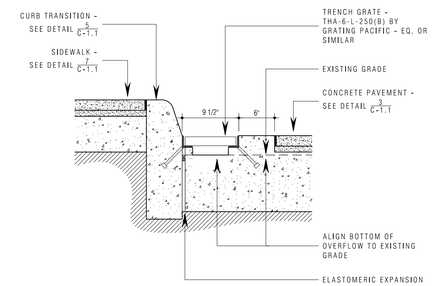
Speed Table Trench Drainage Detail 1

SCALE : 1" = 1'-0" C-2.1



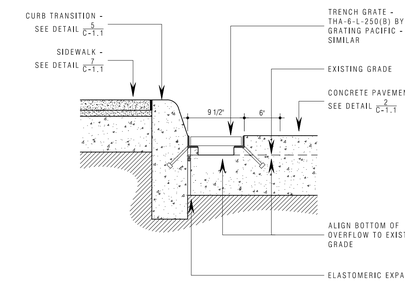
Speed Table Trench Drainage Detail 2

SCALE : 1" = 1'-0" C-2.1



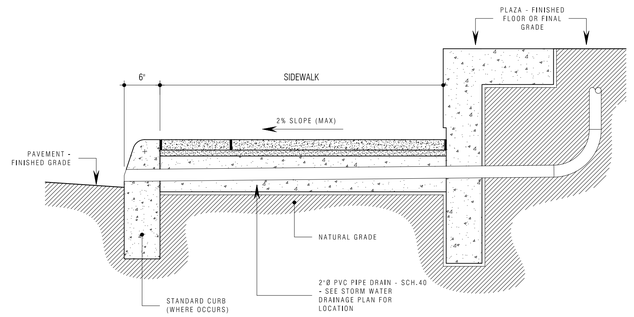
Speed Table Trench Drainage Detail 3

SCALE : 1" = 1'-0" C-2.1



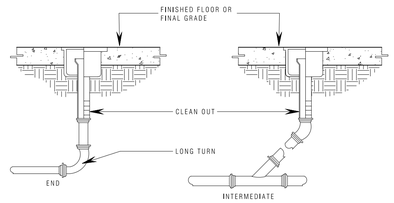
Speed Table Trench Drainage Detail 4

SCALE : 1" = 1'-0" C-2.1



Free Discharge at Curb Detail

NOT TO SCALE



Clean Out Detail (Typ)

NOT TO SCALE

Legend

- STORM DRAIN LINE
- C.O. CLEAN OUT PLUG
- C.O. CLEAN OUT FLUSH WITH WALL
- C.O. CLEAN OUT FLUSH WITH FLOOR OR FINISH GRADE
- IN-GROUND LIGHT FIXTURE

Notes:

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REV. #	DATE	ISSUING REASON
1	05/JUL/17	Explanation

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

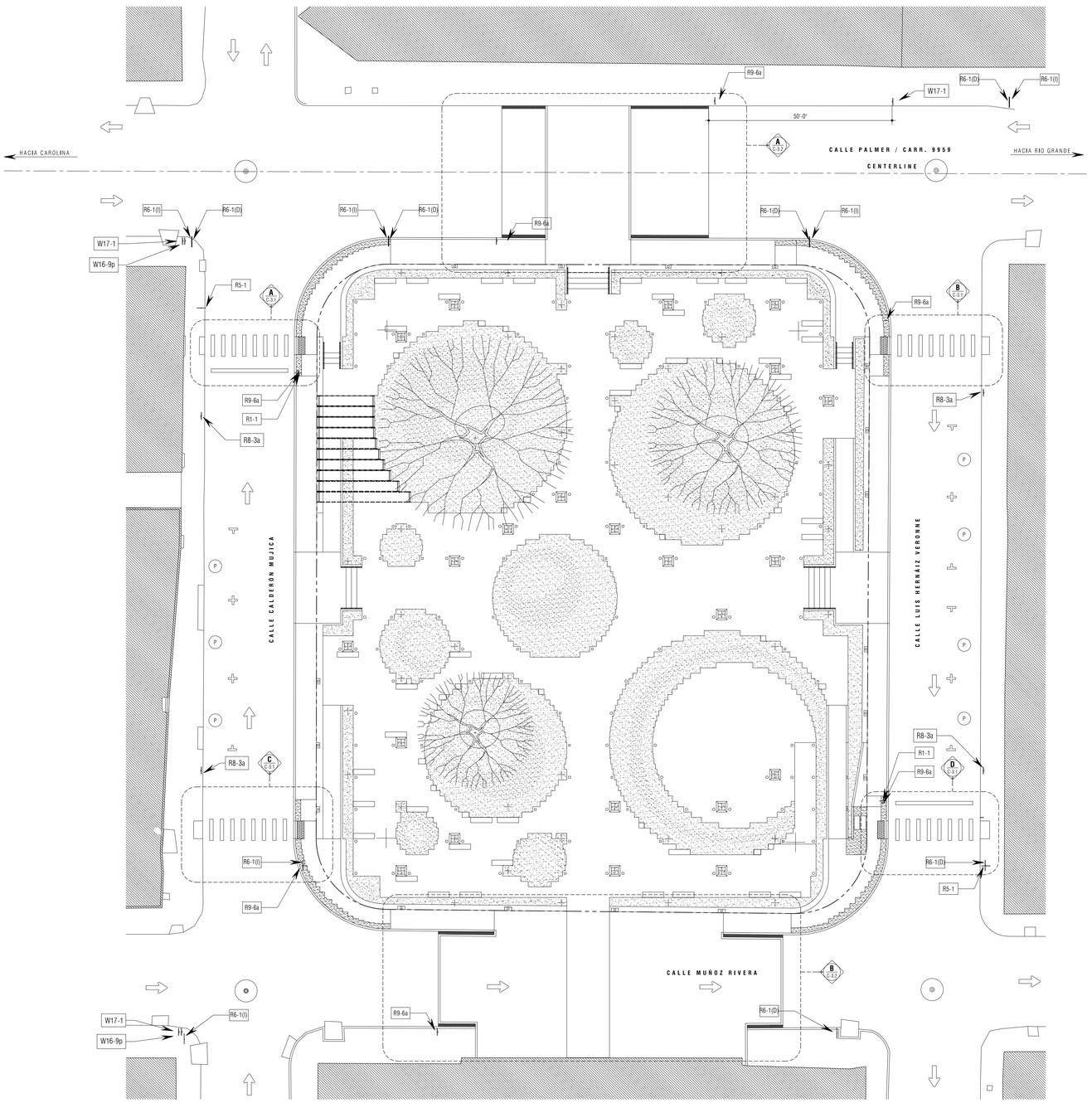
DWG. TITLE

Storm Water Drainage Plan

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

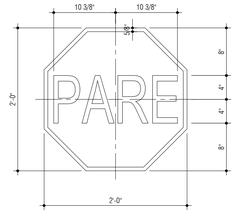
PROJECT # 22-03
PROJECT PHASE Construction Docs - 100%
SHEET # 9
DRAWN BY krs
DATE 26.vi.2024
DISCIPLINE

C-2.1



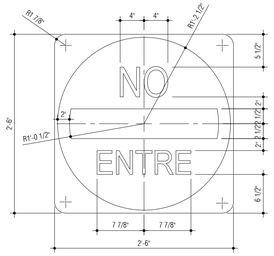
Traffic Control Plan

SCALE : 1 = 200



R1-1 (Minimo)

SCALE : 1" = 1'-0"



R5-1 (Normal)

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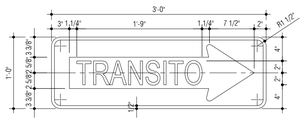
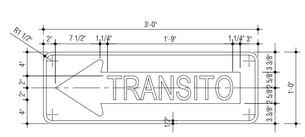


R6-1 (D)

SCALE : 1" = 1'-0"



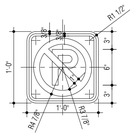
R6-1 (I)

SCALE : 1" = 1'-0"



R9-6a (PR)

SCALE : 1" = 1'-0"

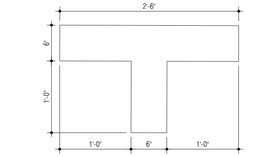


R8-3a

SCALE : 1" = 1'-0"

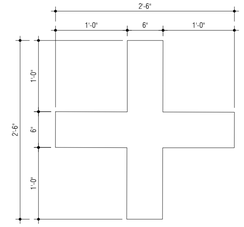
Legend

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TRAFFIC FLOW
- PROPOSED DETOUR
- XX-X (X) — TRAFFIC SIGN TYPE
- TRAFFIC SIGN
- (P) — PARKING SPACE



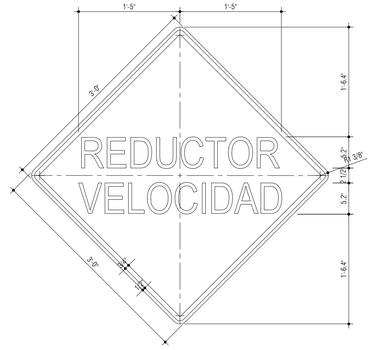
Parking End Marking

SCALE : 1" = 1'-0"



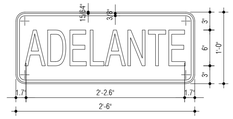
Intermediate Parking Marking

SCALE : 1" = 1'-0"



W17-1

SCALE : 1" = 1'-0"



W16-9p

SCALE : 1" = 1'-0"

Notes

1. UNLESS OTHERWISE SHOWN, DIMENSIONS ARE IN METERS.
2. BEGIN ALL LANE LINE MARKING AT STOP LINE, CROSSWALK, OR NOSE OF MEDIAN UNLESS OTHERWISE NOTED ON PLANS.
3. DIMENSIONS SHOWN ARE STANDARD UNLESS OTHERWISE SHOWN ON PLANS.
4. STOP LINE SHALL BE PAINTED AS AN ADDITION TO A STOP SIGN OR SIGNAL.
5. CURB SHALL BE PAINTED YELLOW AT INTERSECTION AS FOLLOWS: 6 METERS FROM THE TANGENT CURB IN CASE OF NON-SIGNALIZED INTERSECTION, & 10 METERS IN CASE OF SIGNALIZED INTERSECTION.
6. ALL PAVEMENT MARKINGS AT INTERSECTIONS SHALL BE PROVIDED UP TO 50 METERS AWAY FROM THE STOP LINE AT EACH APPROACH.
7. ALL PAVEMENT MARKINGS SHALL BE YELLOW OR WHITE IN COLOR AND SHALL BE MADE OF REFLECTIVE THERMOPLASTIC PAINT. MARKINGS VISIBLE ONLY TO TRAFFIC PROCEEDING IN THE WRONG DIRECTION SHALL BE RED.
8. WORD AND SYMBOL MARKINGS SHALL BE WHITE IN COLOR AND SHALL BE PLACED COINCIDENT WITH THE LONGITUDINAL CENTER OF EACH RESTRICTED LANE OR AS SHOWN ON THE PLANS.
9. WHERE SYMBOL ARROWS ARE USED TO CONVEY A MANDATORY MOVEMENT, LANE-USE ARROW PAVEMENT MARKINGS SHALL BE USED AND SHALL BE ACCOMPANIED BY STANDARD SIGNS AND THE WORD MARKING ONLY.
10. ALL THERMOPLASTIC PAVEMENT MARKINGS, INCLUDING WORDS AND SYMBOLS, SHALL HAVE AN AVERAGE THICKNESS ABOVE THE PAVEMENT LEVEL OF 120 THOUSANDS OF AN INCH. THE MINIMUM THICKNESS ABOVE THE PAVEMENT LEVEL SHALL BE 100 THOUSANDS OF AN INCH, AND THE MAXIMUM THICKNESS ABOVE THE PAVEMENT LEVEL SHALL NOT EXCEED 130 THOUSANDS OF AN INCH.
11. THE AUTHORITY WILL MEASURE THE THICKNESS OF THE THERMOPLASTIC MARKINGS ABOVE THE PAVEMENT AREA AT THE EDGE OF THE PAVEMENT MARKINGS AND COMPUTE THE AVERAGE THICKNESS.
12. THE AUTHORITY, IN ITS JUDGEMENT, MAY REJECT AND REQUIRE THE REMOVAL AND REPLACEMENT OF PAVEMENT MARKINGS DUE TO EXCESSIVE THICKNESS OR THICKNESS VARIABILITY.

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x.17	Explanation

PROFESSIONAL SEAL

JOSÉ O. GONZÁLEZ GARCÍA — INGENIERO LICENCIADO — LIC. #6588 — PUERTO RICO

CERTIFICACIÓN - CERTIFICATE - FORM NUMB

Yo, José O. González García, licencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que atiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras y corporaciones públicas con jurisdicción sobre certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la ley para la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1978, según enmendada, que establece que cualquier declaración falsa o falsificación de los hechos que se hayan realizado por mi desconocimiento o por negligencia ya sea por mi, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

YO, JULIAN MARRUGUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARÓ ESTOS PLANOS. TAMBIÉN CERTIFICO QUE ATENDIDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE ESTOS PLANOS Y ESPECIFICACIONES. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NUMERO 96 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, CONOCIDA COMO LA LEY PARA LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 96 DE 6 DE JULIO DE 1978, SEGUN ENMENDADA, QUE ESTABLECE QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA REALIZADO POR MI DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE. ©COPYRIGHT 2017 BY INFORMATION AS A REFERENCE DOCU-MENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESS CONSENT AND SHALL BE RETURNED TO INFORMATION STUDIO. ALL RIGHTS RESERVED. THIS DOCUMENT IS NOT TO BE USED, COPIED, REPRODUCED, AND/OR DISCLOSED IN WHOLE OR IN PART FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF THE ARCHITECT. VIOLATION OF THIS COPYRIGHT WILL BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW. THESE PLANS AND SPECIFICATIONS CONSTITUTE ORIGINAL, UNPUBLISHED WORK OF THE ARCHITECT AND THE IDEAS, DESIGNS AND PLANS INDICATED OR REPRESENTED THEREIN ARE THE PROPERTY OF THE ARCHITECT. NO PART OF THESE PLANS AND SPECIFICATIONS SHALL BE USED BY ANY PERSON OR ENTITY FOR ANY PURPOSE WHATSOEVER WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE ARCHITECT. ANY UNAUTHORIZED USE, REPRODUCTION OR DISCLOSURE OF THESE PLANS AND SPECIFICATIONS IS STRICTLY PROHIBITED.

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Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TIES & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Traffic Control Plan

CLIENT

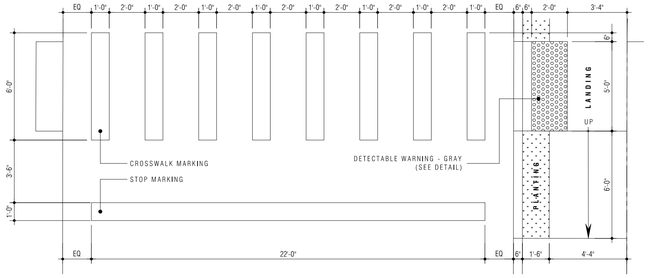
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
10	krs	26.vi.2024

DISCIPLINE

C-3.0

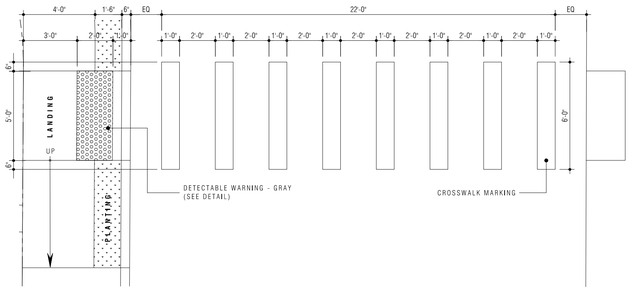


Blow-Up Plan

SCALE : ½" = 1'-0"

A

C-3.1

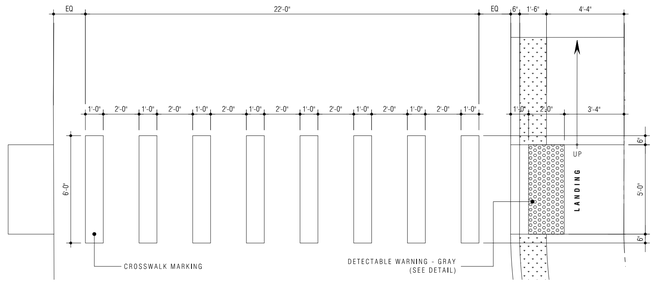


Blow-Up Plan

SCALE : ½" = 1'-0"

B

C-3.1

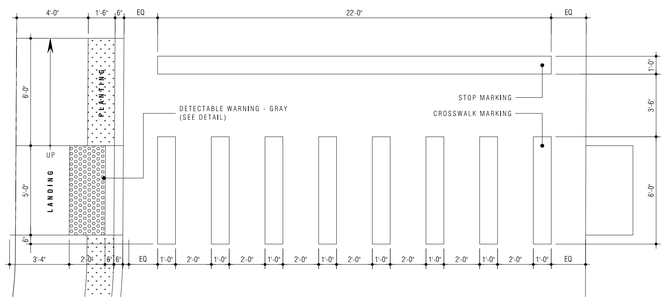


Blow-Up Plan

SCALE : ½" = 1'-0"

C

C-3.1

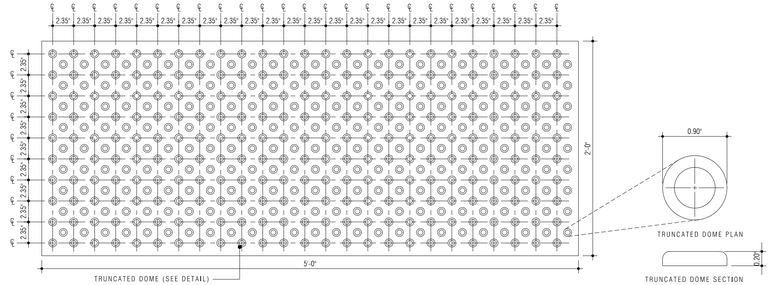


Blow-Up Plan

SCALE : ½" = 1'-0"

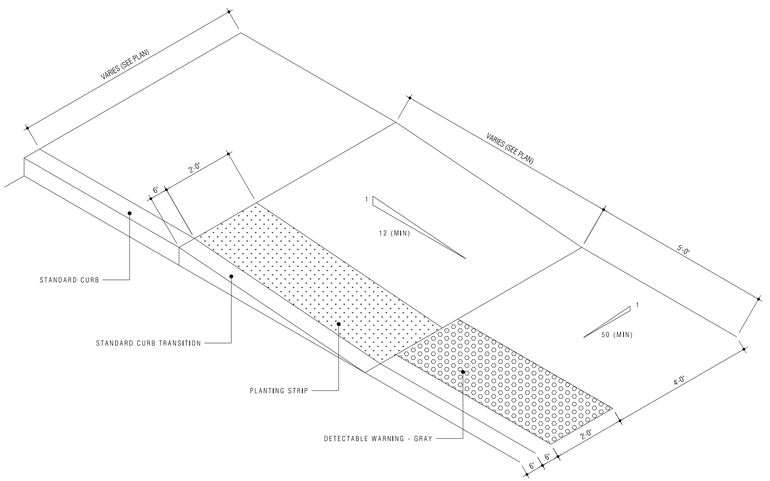
D

C-3.1



Detectable Warning Field with Truncated Domes

SCALE : 1 ½" = 1'-0"



Parallel Curb Ramp Axonometric

NOT TO SCALE

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x.17	Explanation

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

Yo, José O. González García, licencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones y complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras o corporaciones públicas con jurisdicción sobre certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la reglamentación por la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1976, según enmendada, entiendo que cualquier declaración falsa o falsificación de los hechos que se hayo realizado por mi desconocimiento o por negligencia ya sea por mi, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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e-mail: info@formationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulick, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG TITLE

Pedestrian Crosswalks Plans & Details

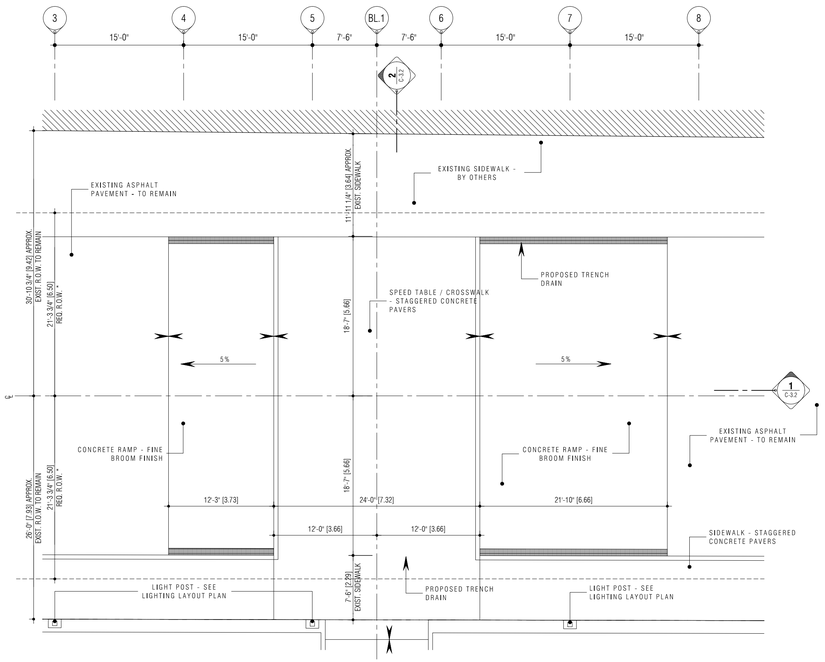
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
11	krs / 26.vi.2024

DESCRIPTION

C-3.1

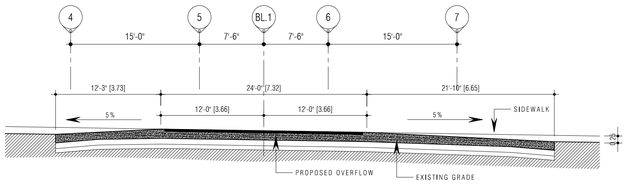


PR-9959 Proposed Speed Table + Pedestrian Crossing - Plan

A

SCALE : 1 = 100

C-3.2

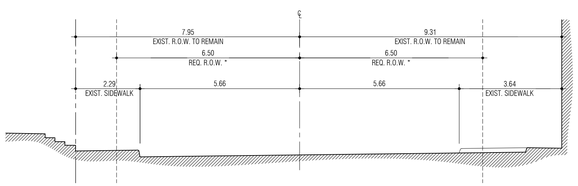


PR-9959 Proposed Speed Table + Pedestrian Crossing - Section

1

SCALE : 1 = 100

C-3.2



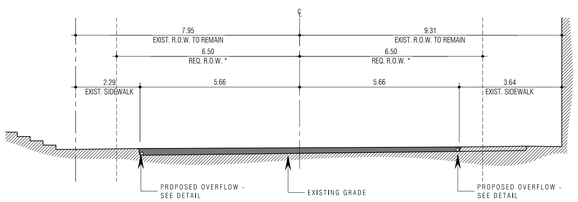
PR-9959 Existing Conditions - Section

2

SCALE : 1 = 100

C-3.2

NOTE :
* REQUIRED RIGHT OF WAY AS PER NOTE (A) IN *"GUÍA DE SECCIONES TÍPICAS PARA LAS CARRETERAS ESTATALES"*.



PR-9959 Proposed Speed Table + Pedestrian Crossing - Section

2'

SCALE : 1 = 100

C-3.2

NOTE :
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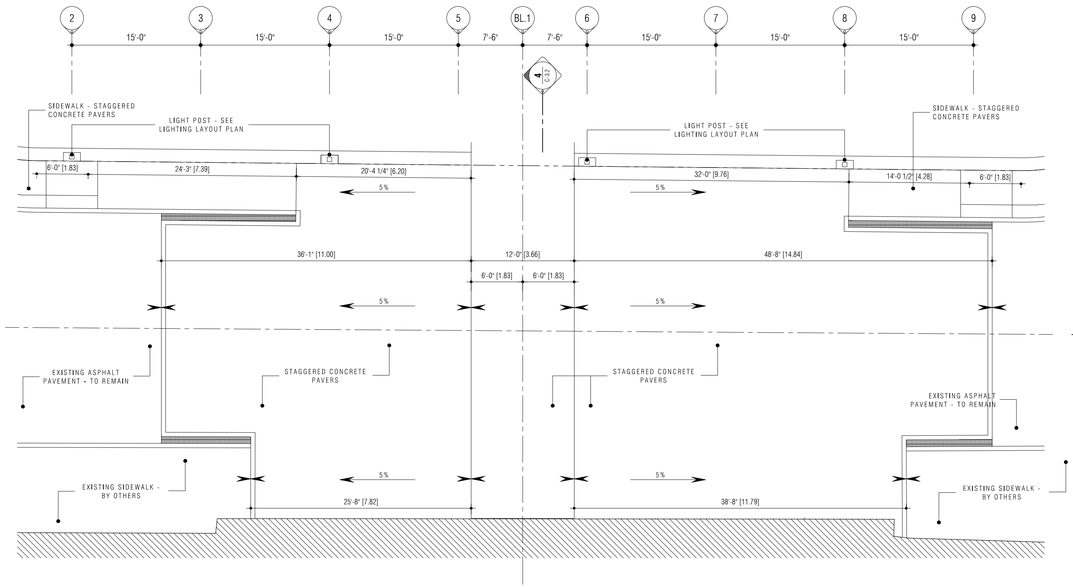
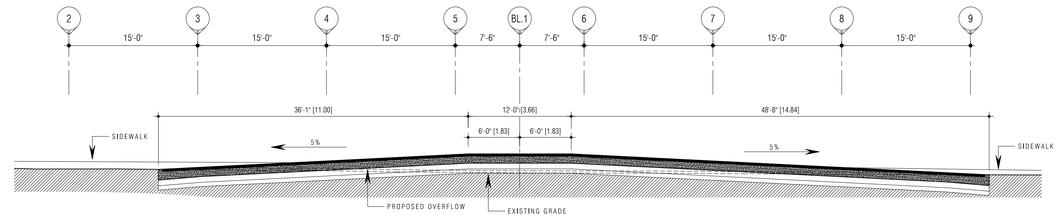


Calle Muñoz Rivera Proposed Speed Table + Pedestrian Crossing - Plan

B

SCALE : 1 = 100

C-3.2

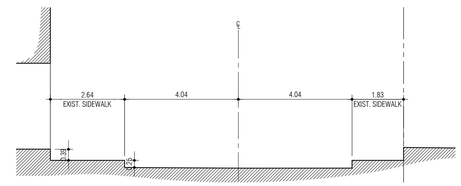


Calle Muñoz Rivera Proposed Speed Table + Pedestrian Crossing - Section

3

SCALE : 1 = 100

C-3.2

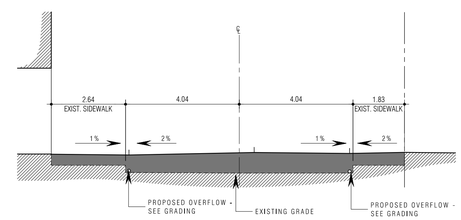


Calle Muñoz Rivera Existing Conditions - Section

4

SCALE : 1 = 100

C-3.2



Calle Muñoz Rivera Proposed Speed Table + Pedestrian Crossing - Section

4'

SCALE : 1 = 100

C-3.2

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

CERTIFICACIÓN - CUTTYHUNK - VIEW NAME

Yo, José O. González García, licencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó los planos y las especificaciones complementarias, también certifico que amiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras o corporaciones públicas con jurisdicción sobre certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la ley para la reforma por la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1976, según enmendada, entiendo que cualquier declaración falsa o falsificación de los hechos que se hayan realizado por mi desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulick, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Speed Table Plans & Details

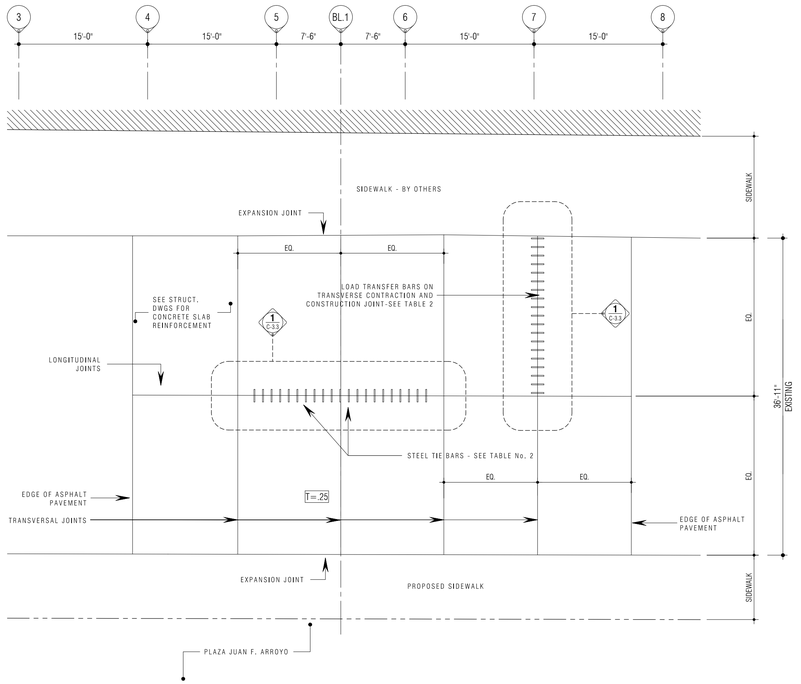
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
12	krs / 26.vi.2024

DISCIPLINE

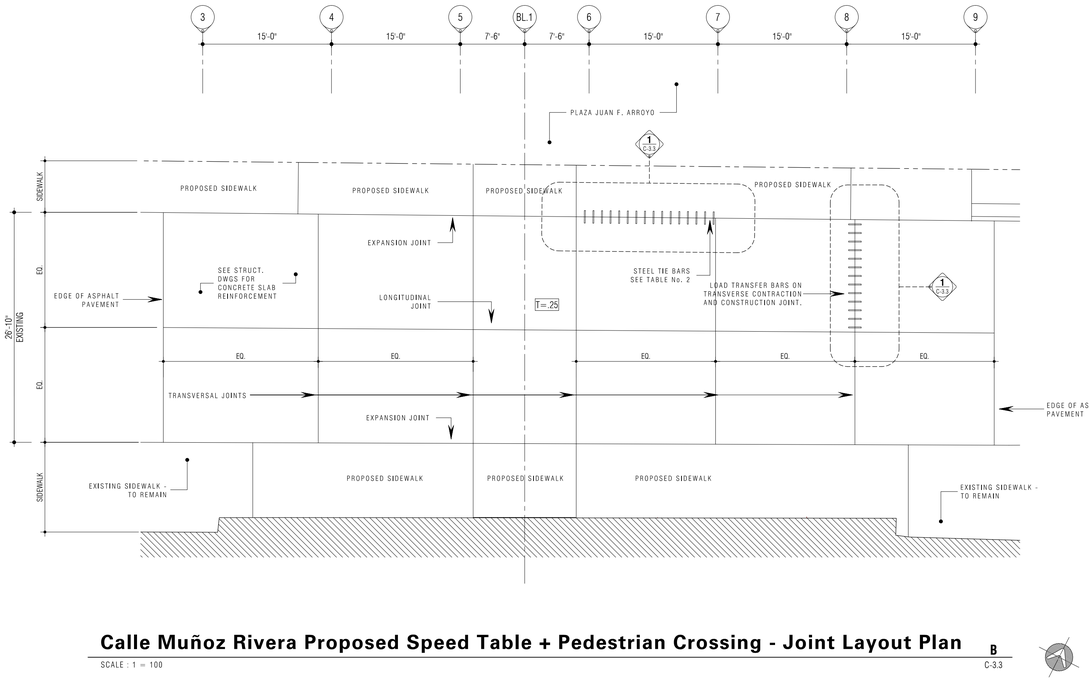
C-3.2



PR-9959 Proposed Speed Table + Pedestrian Crossing - Joint Layout Plan

SCALE : 1 = 100

A
C-3.3



Calle Muñoz Rivera Proposed Speed Table + Pedestrian Crossing - Joint Layout Plan

SCALE : 1 = 100

B
C-3.3

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIAN MARRUGUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. TAMBIÉN CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚM. 96 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, SIN EMBARGO, QUE CUALQUIER DECLARACIÓN FALSA O FABULOSA DE LOS HECHOS QUE SE HAYA INCLUIDO, O LA OMISIÓN O DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA CUAL PUEDA SER OBJETO.

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PROJECT TEE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Pavement Joint Layout Plan & Details

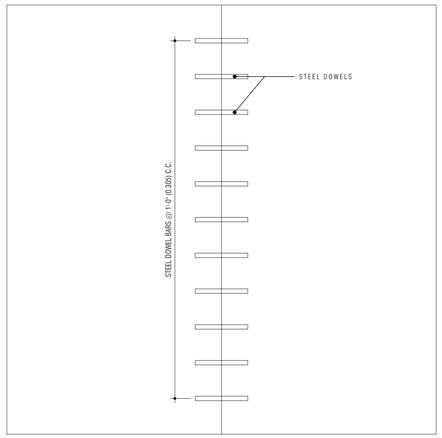
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
13	krs / 26.vi.2024

DISCIPLINE

C-3.3



Contraction and Construction Joints Detail 1

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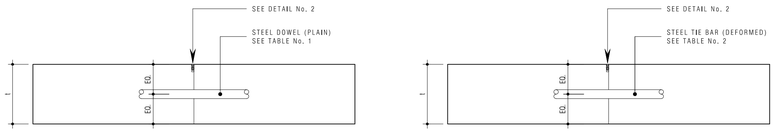
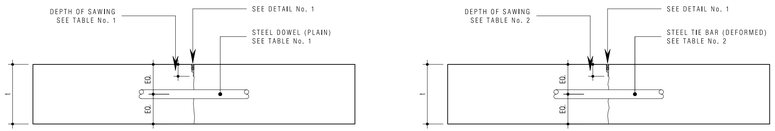
C-3.3



DETAIL OF CONSTRUCTION JOINT AT END OF CONSTRUCTION OPERATION - SECTION

DETAIL OF LONGITUDINAL JOINT TO BE USE WHEN SLABS EQUAL TO OR LESS THAN ONE LANE WIDE ARE PLACED - SECTION



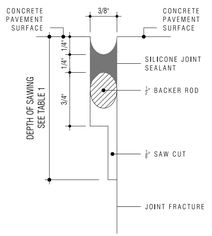
DETAIL OF SAWED TRANSVERSE CONTRACTION JOINT - SECTION

DETAIL OF SAWED LONGITUDINAL JOINT TO BE USE WHEN SLABS WIDER THAN ONE LANE ARE PLACED - SECTION

Concrete Pavement Joints 2

NOT TO SCALE

C-3.3



Detail No. 1

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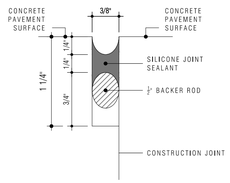

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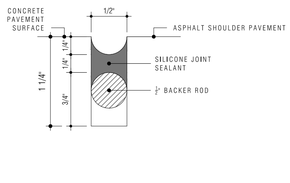


Detail No. 3

SCALE : 1 = 1

Notes

1. UNLESS OTHERWISE SPECIFIED, TRANSVERSE JOINTS SHALL BE SPACED 6.0 FROM EACH OTHER.
2. DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

TABLE 1

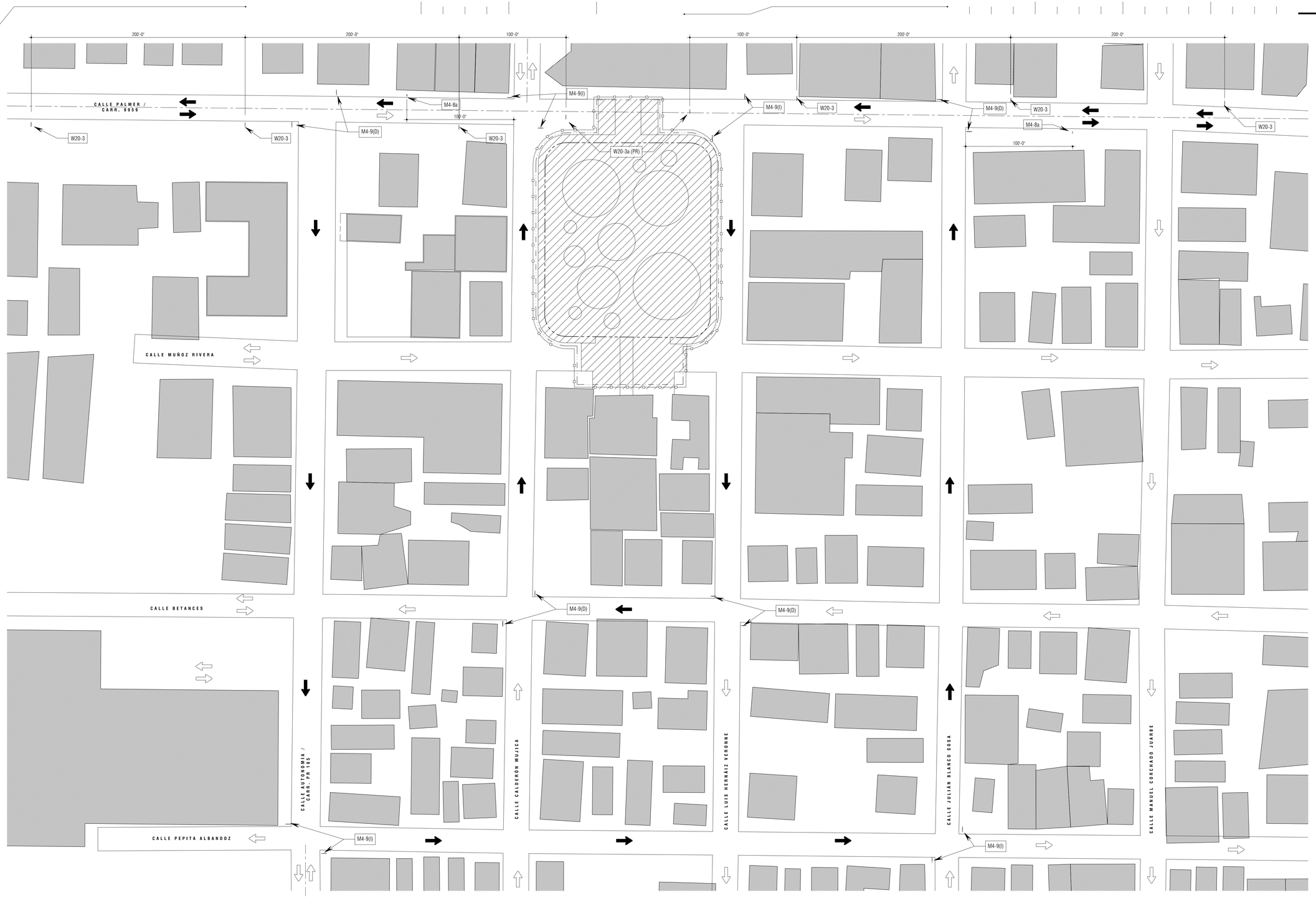
STEEL DOWEL (EPOXY COATED, PLAIN OR DEFORMED) AND DEPTH OF JOINTS SAW

PAVEMENT THICKNESS METERS	DOWEL BAR DIAMETER (INCHES)	DOWEL LENGTH (METERS)	DOWEL SPACING (METERS)	DEPTH OF JOINT SAW CUT METERS (MIN.)
0.200	1-3/8"	0.45	0.305	0.07
0.250	1-1/2"	0.45	0.305	0.08
0.350	1-5/8"	0.45	0.305	0.10

TABLE 2

TIE BAR (EPOXY COATED, DEFORMED)

TYPE AND GRADE OF STEEL	WORKING STRESS PSI	EXISTING PAVEMENT THICKNESS (METERS)	NO. 5 BARS			
			MINIMUM OVERALL LENGTH (INCHES)	LANE WIDTH METERS		
				3.05	3.35	3.65
				MAXIUM SPACING INCHES		
GRADE 60 BILLET STEEL	30,000	0.20	30	48	48	48
	30,000	0.25	30	48	48	48
	30,000	0.35	30	48	48	40



Maintenance of Traffic (MOT) Plan

SCALE : 1 = 500

NOTE:

1. DETOUR MOT PLAN TO BE USED ONLY DURING CONSTRUCTION OF SPEED TABLE LOCATED ON PR-9959 (CALLE PALMER) & CALLE MUÑOZ RIVERA.

Legend

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- PROPOSED TREE
- EXISTING TRAFFIC FLOW
- PROPOSED DETOUR
- XX-X (X) TRAFFIC SIGN TYPE
- WORK AREA
- CHANNELING DEVICE
- TRAFFIC SIGN
- FLAGGER

Notes:

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3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/jx.17	Explanation

PROFESSIONAL SEAL

JOSÉ O. GONZÁLEZ GARCÍA INGENIERO LICENCIADO LIC. #6588 PUERTO RICO

Yo, José O. González García, licencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y especificaciones y las complementarias, también certifico que cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras y corporaciones públicas con jurisdicción. También certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido fielmente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la ley para la reglamentación por la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1978, según enmendada, en cuanto a que cualquier declaración falsa o falsificación de los hechos que se hayan hecho por mi desconocimiento o por negligencia ya sea por mi, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIO MARRODUCC BOTELLO, LICENCIA 13603, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES Y LAS COMPLEMENTARIAS. CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS Y CORPORACIONES PÚBLICAS CON JURISDICCIÓN. TAMBIÉN CERTIFICO QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚMERO 96 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA REGLAMENTACIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚM. 95 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, EN CUANTO A QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYAN HECHO POR MI DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OFPR.

I, JULIO MARRODUCC BOTELLO, LICENSE 13603, CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED, CONFECTIONED AND PREPARED THESE PLANS AND SPECIFICATIONS AND THE COMPLEMENTARY. I CERTIFY THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH THE PROVISIONS APPLICABLE TO THE REGULATIONS AND CONSTRUCTION CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS AND PUBLIC CORPORATIONS WITH JURISDICTION. ALSO I CERTIFY THAT IN THE PREPARATION OF THESE PLANS AND SPECIFICATIONS THE PROVISIONS OF LAW NUMBER 96 OF JULY 6, 1978, AS AMENDED, KNOWN AS THE "LAW FOR THE REGULATION OF THE PUERTO RICAN INDUSTRY" AND LAW NUMBER 95 OF JULY 6, 1978, AS AMENDED, AS FAR AS THAT ANY FALSE STATEMENT OR FALSIFICATION OF FACTS MADE BY MY LACK OF KNOWLEDGE OR NEGLIGENCE EITHER BY MYSELF, MY AGENTS OR EMPLOYEES, OR BY OTHER PERSONS WITHOUT MY KNOWLEDGE, MAKE ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Maintenance of Traffic Plan

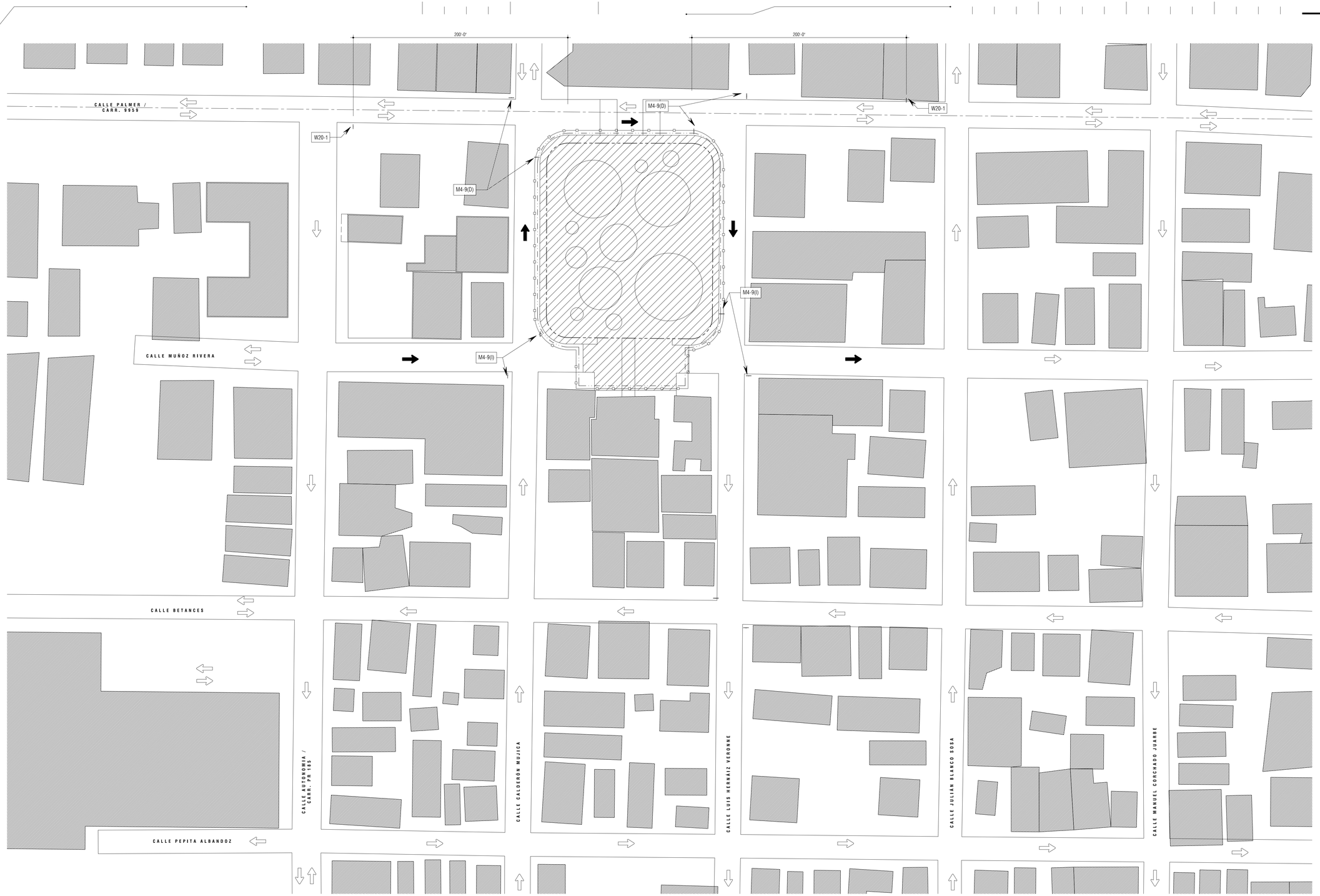
CLIENT: Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03 | PROJECT PHASE: Construction Docs - 100%

SHEET # 14 | DRAWN BY krs | DATE 26.vi.2024

DISCIPLINE

C-4.0



Maintenance of Traffic (MOT) Plan

SCALE : 1 = 500

NOTES:

1. PLAN TO BE USED DURING CONSTRUCTION ACTIVITIES WITHIN PROPERTY LINES & ADJACENT SIDEWALKS.
2. DETOUR TO BE IMPLEMENTED ONLY DURING CONSTRUCTION OF SPEED TABLE IN CALLE MUÑOZ RIVERA.

Legend

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- PROPOSED TREE
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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/jx.17	Explanation

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA — INGENIERO LICENCIADO — LIC. #6588 — PUERTO RICO

CERTIFICACIÓN - CERTIFICATE - FORM NUMB

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Maintenance of Traffic Plan

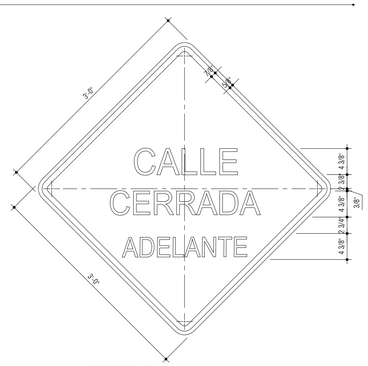
CLIENT: Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03 — PROJECT PHASE: Construction Docs - 100%

SHEET # 15 — DRAWN BY krs — DATE 26.vi.2024

DISCIPLINE

C-4.1



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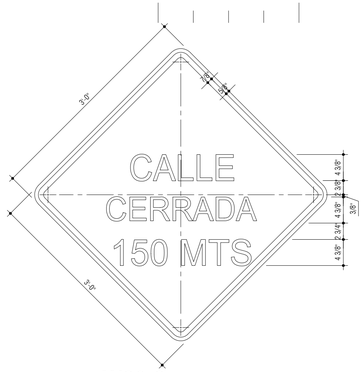

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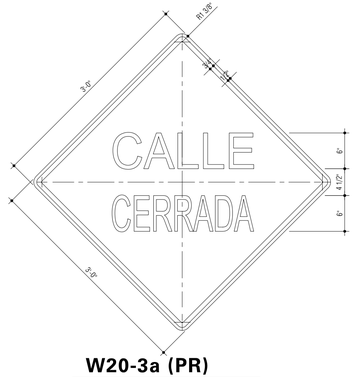

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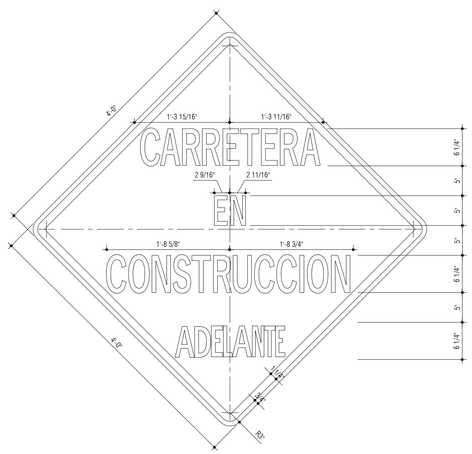

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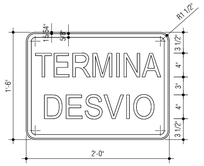

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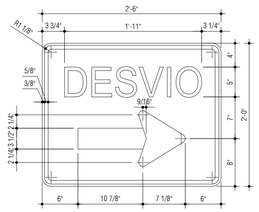

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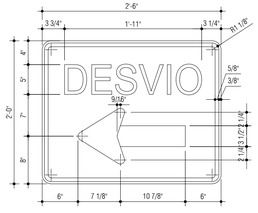

M4-9 (I)

SCALE : 1" = 1'-0"

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x.17	Explanation

PROFESSIONAL SEAL



CERTIFICACIÓN - CERTIFICATE - FIRM NAME

Yo, José O. González García, licencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras o corporaciones públicas con jurisdicción sobre certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1978, según enmendada, sobre que cualquier declaración falsa o falsificación de los hechos que se hayan realizado por mi desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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e-mail: info@hformationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

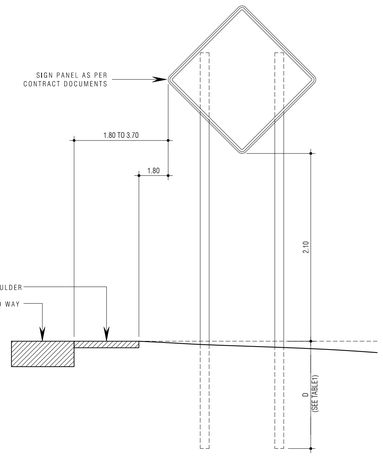
DWG. TITLE

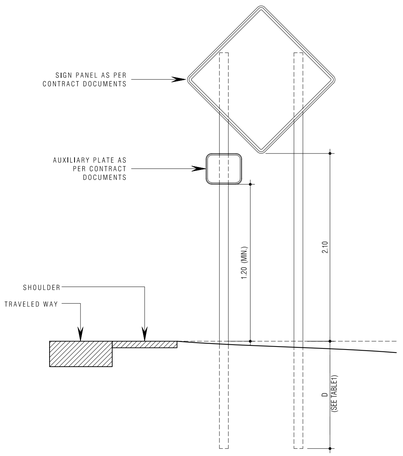
Maintenance of Traffic Notes & Details

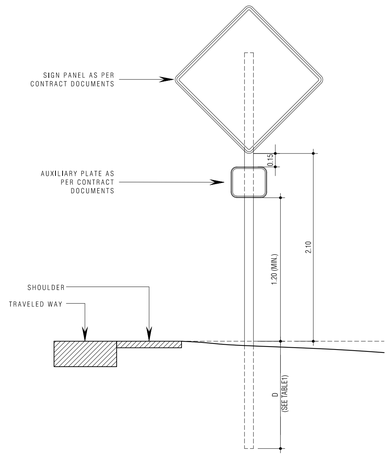
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

C-4.2







Fixed Roadway Signs - Rural Area

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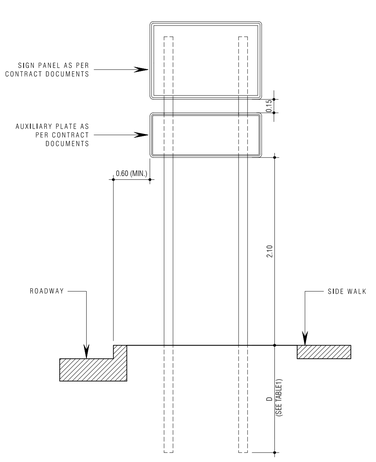

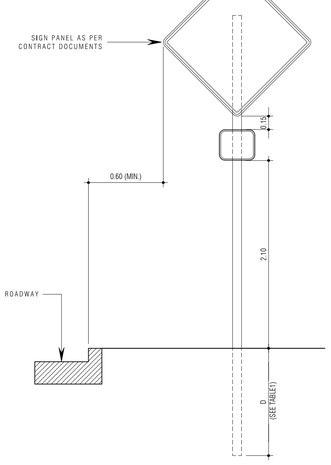

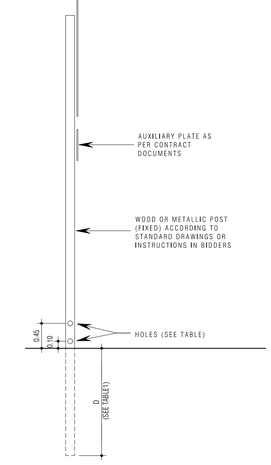

Fixed Roadway Signs - Urban Area

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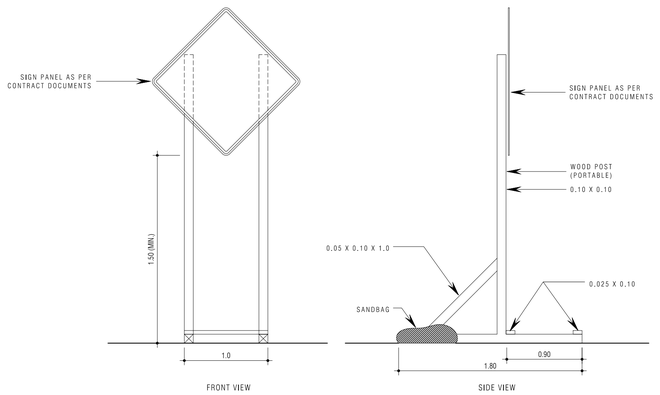
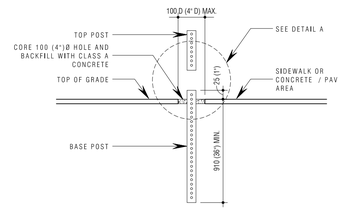


Portable Signs

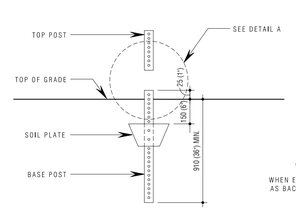
NOT TO SCALE

TABLE 1							
WOOD POST SIZE		D		HOLE DIAMETER		MAXIMUM SIGN PANEL AREA (SQUARE METERS)	
MT. X MT.	IN. X IN.	MT.	IN.	MT.	IN.	1 POST	2 POST
0.10 X 0.10	4 X 4	1.2	4	NONE REQUIRED		1.0	2.0
0.10 X 0.15	4 X 6	1.2	4	0.04	1.5	N/A	3.0
0.15 X 0.15	6 X 6	1.5	5	0.05	2.0	N/A	4.5
0.15 X 0.20	6 X 8	1.5	5	0.07	3.0	N/A	8.0



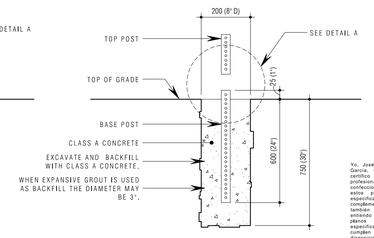
Sidewalk or Concrete

NOT TO SCALE



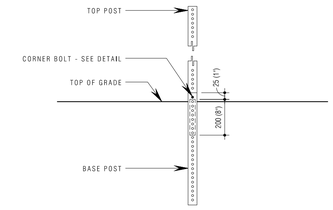
Natural Soil

NOT TO SCALE



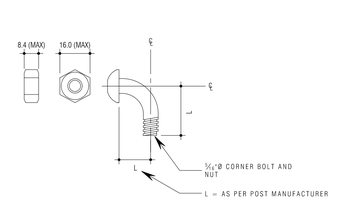
Rock Condition

NOT TO SCALE



Detail A - Top to Base Post Connection

NOT TO SCALE



Top to Base Post Fastener

NOT TO SCALE

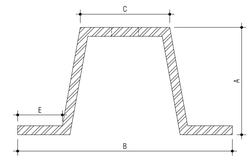


TABLE 2						
WEIGHT		NOMINAL DIMENSIONS				
			A	B	C	E
LB/FT	2	IN	1.45 - 1.55	3.00 - 3.15	1.25 - 1.30	0.62 - 0.67
KG/M	3	MM	37 - 38.5	77.5 - 78.5	31.75 - 32.5	15.8 - 17.0

Steel Flanged Channel - Top or Base Post

NOT TO SCALE

Notes

1.0 UNLESS OTHERWISE SHOWN, DIMENSIONS ARE IN METERS.

2.0 MOUNT SIGNS THAT ARE WIDER THAN 0.90M OR LARGER THAN 1 SQUARE METER ON TWO POSTS, SEE TABLE 1.

3.0 ALL LUMBER DIMENSIONS ARE NOMINAL.

4.0 THE CONTRACTOR MAY SUBMIT, FOR APPROVAL BY ENGINEER / ARCHITECT, ALTERNATE TEMPORARY SIGN MOUNTING WHICH FULLY COMPLIES WITH NCHRP 350 TL-3.

5.0 FOR POSTS GREATER THAN 0.10 X 0.10, CONTRACTOR SHALL SUBMIT BREAKAWAY SUPPORT DETAIL TO ENGINEER/ARCHITECT PRIOR TO INSTALLATION.

6.0 PORTABLE SIGNS MAY BE MOUNTED LOWER THAN FIXED SIGNS WHEN APPROVED BY ENGINEER/ARCHITECT.

7.0 MOUNTING FOR PORTABLE SIGNS SHALL HOLD THE SIGN FACE IN A VERTICAL PLANE.

8.0 FOR SIGNS REQUIRING POSTS 0.15 X 0.15 AND GREATER, SIGNS ARE CONSIDERED TO BE NON-BREAKAWAY IF MULTIPLE POST ARE REQUIRED AND THE POSTS CANNOT BE SPACED AT A MINIMUM OF 2.1 METERS APART. DO NOT PLACE HOLES IN POST OF NON-BREAKAWAY SIGNS.

9.0 SIGN MOUNTED ON PORTABLE SUPPORTS SHALL NOT BE USED FOR A DURATION OF MORE THAN THREE DAYS.

10.0 THE BACKGROUND FOR CONSTRUCTION WARNINGS SIGNS SHALL BE FLUORESCENT ORANGE COLOR ACCORDING TO SUPPLEMENTAL SPECIFICATION 638-2.02.

11.0 THE FINAL LOCATION OF TEMPORARY TRAFFIC SIGNS SHALL BE AS DIRECTED BY ENGINEER/ARCHITECT CONSIDERING OPTIMUM VISIBILITY AND, SAFETY IN THE EXISTING FIELD CONDITIONS.

12.0 THE CONTRACTOR SHALL USE APPROPRIATE SIZE DRIVE CAP TO DRIVE POST.

13.0 FOR SIDEWALK OR CONCRETE PAVED AREA, THE CONTRACTOR SHALL CORE SIDEWALKS SLAB 4" Ø AND BACKFILL WITH CLASS A CONCRETE AS A SUBSIDIARY OBLIGATION.

14.0 FOR ROCK CONDITION, THE CONTRACTOR SHALL EITHER EXCAVATE (8" DIAMETER HOLE) AND BACKFILL WITH CLASS A CONCRETE OR EXCAVATE (3" DIAMETER HOLE) AND BACKFILL WITH EXPANSIVE GROUT AS A SUBSIDIARY OBLIGATION.

15.0 THE CORNER BOLT SHALL BE THE ONE PROVIDED BY THE POST MANUFACTURER AND APPROVED BY FHWA AS A RESULT OF NCHRP 350 COMPLIANCE TESTING.

16.0 STEEL POST SHALL CONFORM TO THE REQUIREMENTS OF ASTM A499, GRADE 60 OR MARION STEEL COMPANY GRADE SP-80.

17.0 AFTER FABRICATION, POST SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111 (ASTM A123).

18.0 THE BASE POST MAY HAVE SLOTTED HOLE 9.5MM X 13MM FOR THE FIRST AND FIFTH HOLE.

19.0 REFLECTIVE SHEETING USED ON ALL SIGNS SHALL CONFORM TO ASTM D4956, TYPE III. THE BACKING SHALL BE CLASS 1 OR 2.

Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x.17	Explanation

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA INGENIERO LICENCIADO LIC. #6588 PUERTO RICO

CERTIFICACIÓN - CUTTYHUNK - NEW NAME

Yo, José O. González García, ingeniero civil, certifico que soy el profesional que diseñó, confeccionó y preparó los planos, memorial y las especificaciones complementarias, también certifico que emiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras y corporaciones públicas con jurisdicción. También certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la protección de la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1978, según enmendada, en cuanto a que cualquier declaración falsa o fabricación de los hechos que se hayan realizado por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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ALL REFERENCE DOCU-MENT FOR THIS PROJECT HEREIN.

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e-mail: info@formationstudio.com

PROJECT TITLE

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Maintenance of Traffic Notes & Details

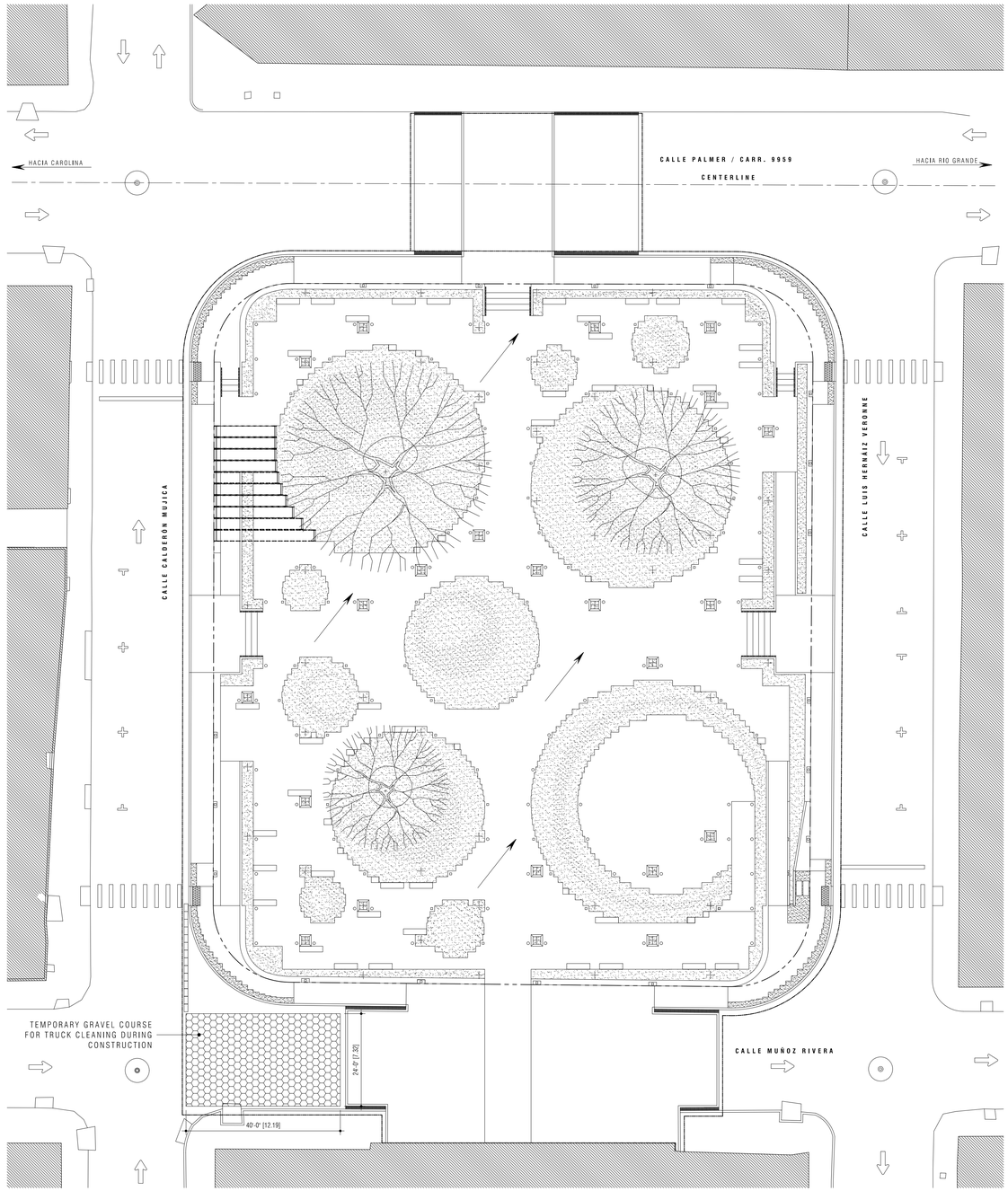
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
17	krs / 26.vi.2024

DISCIPLINE

C-4.3



CES Plan

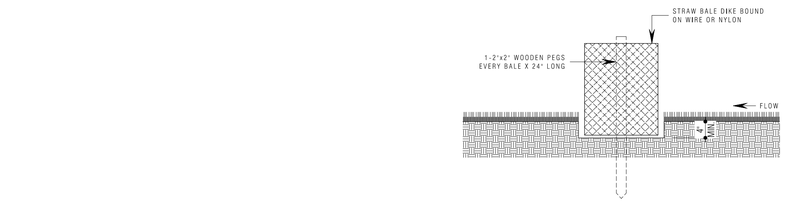
SCALE : 1 = 200

Legend

- PROPERTY LINE
- EXISTING TRAFFIC FLOW
- TEMPORARY GRAVEL COURSE FOR TRUCK CLEANING DURING CONSTRUCTION
- BALE ROW - STAKED/PEGGED TO GROUND - SEE DETAIL FOR PROPER ANCHORING
- TOPSOIL STOCK PILE AREA
- STRAW BALE DIKE AROUND OUTLET
- SILT FENCE
- XX-X APPROXIMATE BORING LOCATION AS PER SUB-SOIL STUDY
- ARROW INDICATES RUN-OFF FLOW

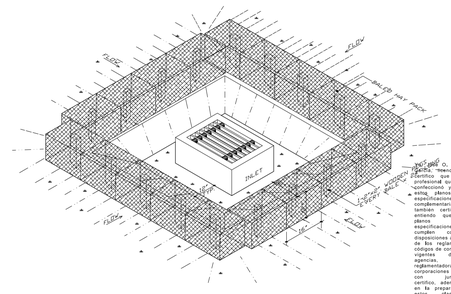
Sediment Control Notes

1. CONTRACTOR SHALL CONSTRUCT DITCHES, SWALES AND BERMS FOR CONTROLLING EROSION AND SEDIMENT POLLUTION DURING CONSTRUCTION.
2. NO FILL SHALL BE LEFT UNSTABLE MORE THAN THIRTY DAYS, NOR STORED WITHOUT COMPACTION.
3. SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED AS NECESSARY TO ASSURE IT IS FREE FROM DEBRIS OR MUD IN ORDER TO GUARANTEE ITS GOOD PERFORMANCE DURING CONSTRUCTION.
4. NO FILL SHALL BE STORED IN PROJECT FOR MORE THAN SEVEN DAYS.
5. ALL TUCKS AND EQUIPMENT WHEELS HALL BE CLEANED, AT CLEANING AREA, BEFORE LEAVING THE PROJECT.
6. THE PROJECT SHALL HAVE ONE EXIT ONLY, DURING AND AFTER CONSTRUCTION.
7. ALL PERMANENT SLOPES SHALL BE SODDED AS SOON AS POSSIBLE.
8. CONTRACTOR SHALL SPRAY WITH WATER (TWICE DAILY) ALL BARE GROUND THROUGHOUT PROJECT.
9. PREVENTIVE SEDIMENTATION WORKS SHALL BE PERFORMED PRIOR TO EARTH MOVEMENT ACTIVITIES.
10. FOR ADDITIONAL INFORMATION ON SEDIMENT CONTROL DURING CONSTRUCTION, REFER TO THE "CES PLAN" PROPOSAL.
11. SEDIMENT SHALL BE REMOVED AFTER ACCUMULATED TO HALF THE DESIGN DEPTH OF THE TRAP. SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA.
12. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
13. THE PROJECT ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY.
14. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ON TO PUBLIC R/W WHEN NEEDED. WASHING SHALL BE DONE ON AREA DESIGNATED FOR TRUCK CLEANING.
15. EACH BALE SHALL BE EMBEDDED IN HE SOIL A MINIMUM OF 4".
16. BALES SHALL BE SECURELY ANCHORED IN PLACE WITH WOODEN STAKES DRIVEN THROUGH THE BALES.
17. BALES SHALL BE REMOVED AFTER PROJECT COMPLETION SO AS TO BLOCK STORM FLOW DRAINAGE.



Bales Hay Embedding Detail

NTS



Straw Bale Dike Sediment Trap Det. - Proposed Inlets

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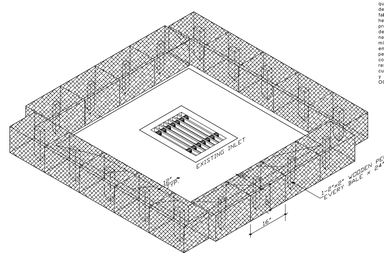

Straw Bale Dike Sediment Trap Det. - Existing Inlets

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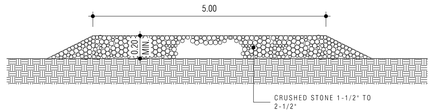
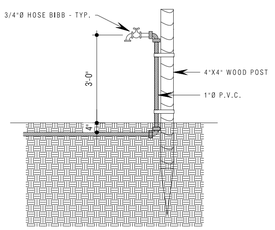


Truck Washing Facilities

NTS



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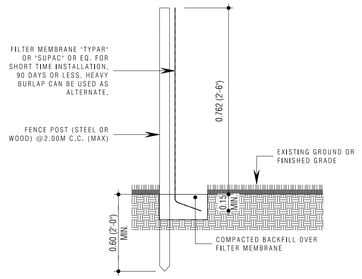

Silt Fence Detail

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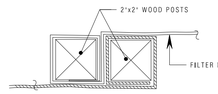

Silt Screen to Wood Post Detail

Notes:

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1	05/x.17	Explanation

PROFESSIONAL SEAL

JOSE O. GONZALEZ INGENIERO LICENCIADO LIC. #6588 PUERTO RICO

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

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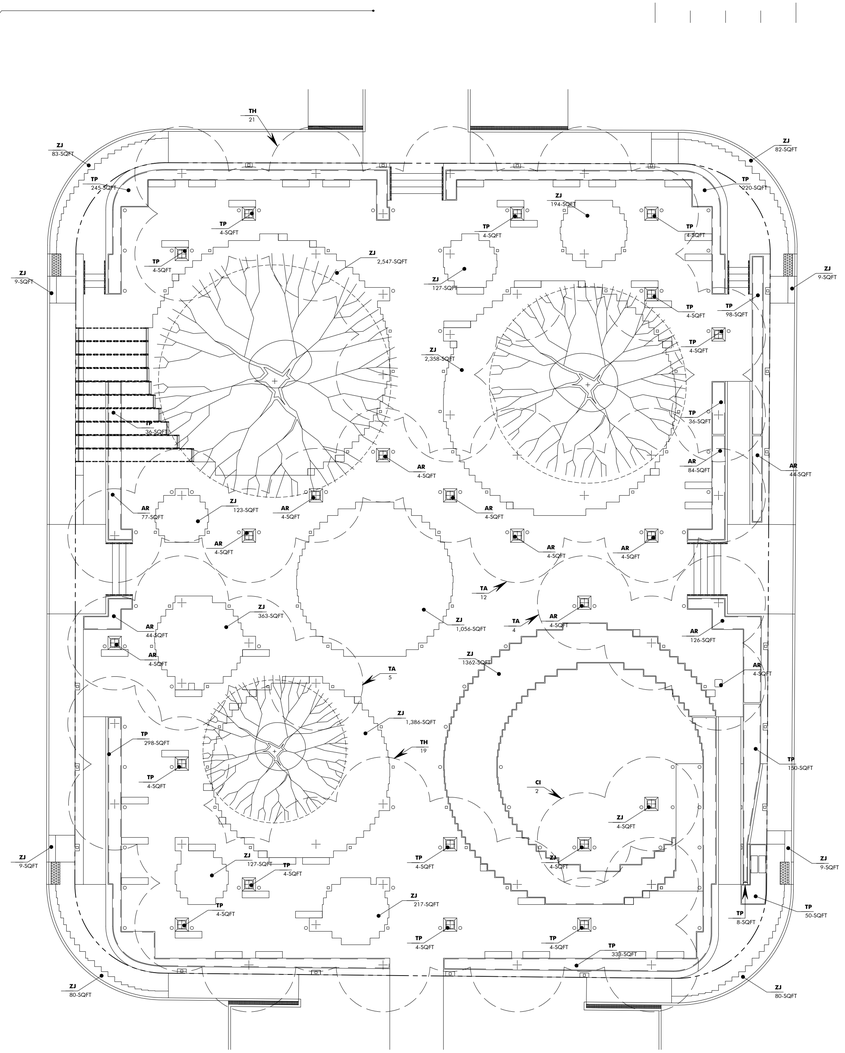
CES Plan & Details

OWNER
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
18	krs 26.vi.2024

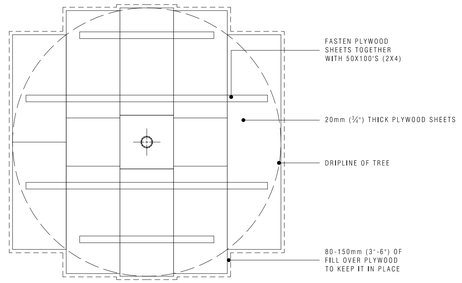
DISCIPLINE

C-5.0

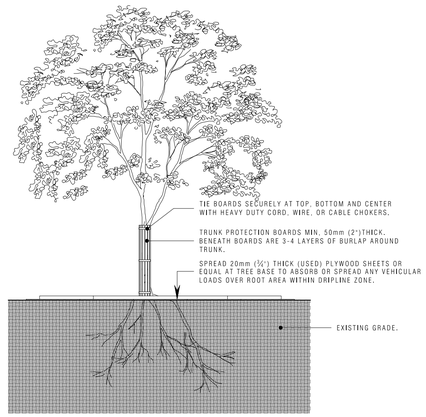


Planting Layout Plan A

SCALE : 1/16" = 1'-0" L-1.0



Plan



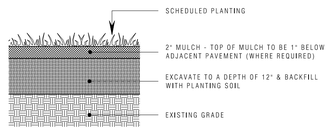
Section

Tree Protection (Typ) 1

NOT TO SCALE L-1.0

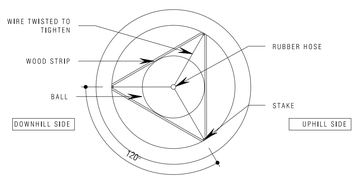
NOTES:

1. USE THIS DETAIL WHERE USE OF PROTECTIVE FENCING DOES NOT ALLOW FOR SUFFICIENT CONSTRUCTION MANEUVERING ROOM.
2. REMOVE ALL CHOKERS, BOARDS, ROPES, FILL AND PLYWOOD IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION. IF CONSTRUCTION TIME IS EXTENDED, DO NOT ALLOW THESE MATERIALS TO STRANGULATE TREE OR DAMAGE BARK.
3. IF LOWER LIMBS INTERFERE WITH WORK, TIE UP WITH HEAVY DUTY JUTE CORD.
4. TIE UP LIMBS IN WARM WEATHER IF POSSIBLE.
5. ADJUST HEIGHT OF PROTECTIVE BOARDS TO PREVENT ANTICIPATED DAMAGE BY EQUIPMENT.



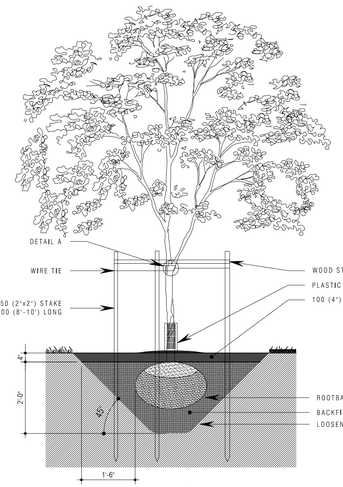
Ground Cover (Typ) 2

NOT TO SCALE L-1.0



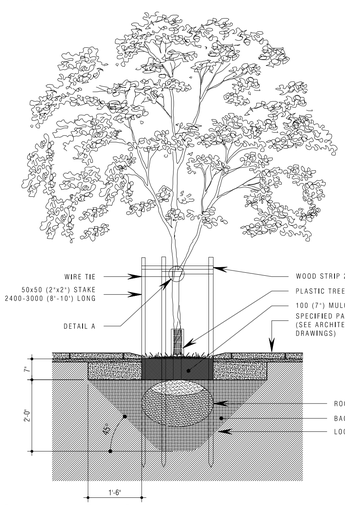
Staking for Special Conditions Plan 3

NOT TO SCALE L-1.0



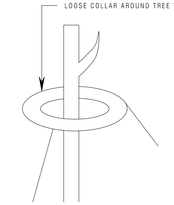
Staking for Special Conditions 4

NOT TO SCALE L-1.0



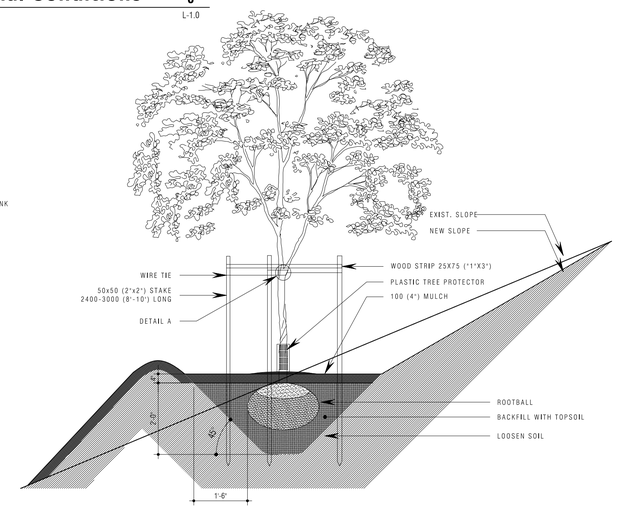
Staking for Special Conditions 5

NOT TO SCALE L-1.0



Detail A

NOT TO SCALE



Staking for Special Conditions 6

NOT TO SCALE L-1.0

PLANT SCHEDULE

CATEGORY	KEY	BOTANICAL NAME	COMMON NAME	QUANTITY	AREA (FT²)	MATURE SIZE / SHAPE	SPACING	SIZE / ROOT
EXISTING TREES	FT	FICUS TRIGONATA	JAGUEY BLANCO, BLACK FIG	3	N/A	60' H x 60' W	AS SHOWN	N/A
TREES	CI	CALOPHYLLUM INOPHYLLUM	MARIA TREE, BEAUTY LEAF	2	N/A	60' H X 30' W	AS SHOWN	15 GAL - 10' HT / BALLED & BURLAPPED
	TA	TABEBUIA AUREA	YELLOW POUI, YELLOW TABEUIA	21	N/A	30' H - IRREGULAR	AS SHOWN	15 GAL - 8' HT / BALLED & BURLAPPED
	TH	TABEUIA HETEROPHYLLA	ROBLE BLANCO, WHITE CEDAR	39	N/A	40' H - UP RIGHT, IRREGULAR	AS SHOWN	15 GAL - 8' HT / BALLED & BURLAPPED
GROUND COVER	AR	ARACHIS REPENS	MANI, ORNAMENTAL PEANUT	N/A	450	6" H - BROAD SPREADING	1'-0" C.C.	4" POT - FULLY ROOTED / SPRIGGED
	TP	TRADESCANTIA PALLIDA	PURPLE HEART, SANGUINARIA	N/A	1,500	1' H	1'-0" C.C.	4" POT - FULLY ROOTED/FULL
	ZJ	ZOYSIA JAPONICA	MEYER ZOYSIA GRASS	N/A	10,250	N/A	N/A	SODDED

Planting Notes

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.
2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS.
3. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HASBEEN FINISHED AND APPROVED BY THE PROJECT ARCHITECT OR EQUAL.
5. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
6. ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT TIME OF PLANTING.
7. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
8. THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR EQUAL.
9. ALL PLANT MATERIAL SHALL BE SELECTED AT THE NURSERIES BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
10. ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT WITHIN 24 HOURS AFTER PLANTING. IN TEMPERATE ZONES, ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT AT THE BEGINNING OF THEIR FIRST WINTER.
11. ALL PLANTS SHALL BE INSTALLED AS PER DETAILS AND THE CONTRACT SPECIFICATIONS.
12. ALL PLANTS AND STAKES SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.
13. THE LANDSCAPE CONTRACTOR SHALL PROVIDE FILL AS PER THE CONTRACT SPECIFICATIONS.
14. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING, ALL PLANTS SHALL THEN BE WATERED WEEKLY, IF NECESSARY, DURING THE FIRST GROWING SEASON.
15. THE LANDSCAPE CONTRACTOR SHALL REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
16. MULTIPLE STEMMED DECIDUOUS TREES OVER 4FT. IN HEIGHT SHALL BE STAKED WITH 2 STAKES IN SUCH A MANNER AS TO STABILIZE 2 MAINSTEMS.
17. THE WOOD STAKES SHALL BE CONSTRUCTION GRADE, ROUGH OR DRESSED, OF SOUND WOOD, DECAY RESISTANT, AND OF THE SIZE INDICATED IN THIS DRAWING.
18. THE WIRE TIES SHALL BE 12 OR 14 GAUGE GALVANIZED WIRE, AND BE PROVIDED WITH A ONE FOOT PIECE OF RUBBER HOSE PLACED TO PREVENT INJURY TO THE BARK.
19. TREE WRAPPING SHALL BE PLACED AROUND ALL TRUNKS OF DECIDUOUS TREES TWO OR MORE INCHES IN CALIPER. TREE WRAPPING SHALL EXTEND FROM GROUND LINE TO 50(2') ABOVE THE FIRST BRANCH. EACH TURN OF WRAPPING MATERIAL SHALL OVERLAP ½ THE WIDTH OF PREVIOUS TURN END WITH JUTE AT TOP, MIDDLE AND BOTTOM.
20. THE DIAMETER OF ALL PLANT PITS SHALL BE AT LEAST 2 OR 3 TIMES GREATER THAN THE BALL DIAMETER FOR BARE ROOT PLANTS. LOCATE THE ROOT BALL ON SOLID SOIL AND NOT LOOSE BACKFILL.
21. THE PIT DEPTHS SHALL COMPLY WITH THE REQUIREMENT OF THE STANDARD SPECIFICATION 625- PLANTING.
22. MULCH SHALL BE APPLIED AROUND ALL PLANT TO MINIMUM DEPTH OF 100 MM (4") OVER ENTIRE PLANT PIT. AGED SHREDDED HARDWOOD BARK, LICORICE ROOT OR AGED WOOD CHIPS CAN BE USED. ANY MULCH CONTAINING PRESERVATIVES IS UNACCEPTABLE.
23. BACKFILL WITH NATIVE SOIL UNLESS CONSIDERED UNSUITABLE IN THAT CASE FILL PIT WITH GOOD QUALITY TOPSOIL.
24. THE ENTIRE AREA OF THE PLANTING PITS SHALL BE GRADED SO THAT THE MAXIMUM SLOPE DOES NOT EXCEED 10:1 IN ANY DIRECTION.
25. TREES SHALL NOT BE PLANTED WITHIN THE CLEAR ZONE.
26. BACKFILL, TOP SOIL, CABLE OR WIRE TIES, RUBBER HOSES, STAKES AND PITS WILL BE CONSIDERED A SUBSIDIARY OBLIGATION.
27. THE CONTRACT UNIT PRICE FOR EACH OF THE PARTICULAR PAY ITEMS COVERED UNDER THE STANDARD SPECIFICATION 825-PLANTING WILL CONSTITUTE FULL COMPENSATION FOR INCIDENTALS NECESSARY TO COMPLETE THIS WORK.
28. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
29. ON SLOPES STEEPER THAN 3:1, THE FRONT CENTER OF THE PIT SHALL BE MODIFIED TO INCLUDE A "V" CUT THE FULL DEPTH OF THE PIT. THE PIT SHALL BE DUG 2' DEEPER AND BACKFILLED WITH 2" MATERIAL A-2-4 GRAVEL, DAYLIGHTED TO THE SLOPE FACE, AND CONVERED WITH FILTER FABRIC PRIOR TO BACKFILLING WITH SOIL MIXTURE.

Notes:

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2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MAY. DCCC III
EXP. 19 X 2025

CERTIFICACIÓN - CERTIFICATE - VIEW NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. I, JULIÁN MANRÍQUEZ BOTELLO, LICENSE 19803, CERTIFY I AM THE PROFESSIONAL WHO DESIGNED, PLANNED AND PREPARED THESE PLANS.

CERTIFICO QUE ESTOS PLANOS CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE. I CERTIFY THAT THESE PLANS COMPLY WITH THE APPLICABLE REGULATIONS AND CONSTRUCTION CODES IN FORCE.

ESTOS PLANOS FUERON PREPARADOS DE ACUERDO CON LAS DISPOSICIONES DE LA LEY NÚMERO 84 DE 13 DE JULIO DE 2018, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE PROFESIONALES DE LA CUBICUBICACIÓN DE PUERTO RICO". THESE PLANS WERE PREPARED IN ACCORDANCE WITH THE PROVISIONS OF LAW NUMBER 84 OF JULY 13, 2018, AS AMENDED, KNOWN AS THE "PUERTO RICO CUBICULUM PROFESSIONALS ACT".

ESTOS PLANOS FUERON PREPARADOS CUMPLIENDO CABALMENTE CON LA LEY NÚMERO 96 DEL 6 DE JULIO DE 2018, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE PROFESIONALES DE LA CONSTRUCCIÓN DE PUERTO RICO". THESE PLANS WERE PREPARED IN COMPLIANCE WITH LAW NUMBER 96 OF JULY 6, 2018, AS AMENDED, KNOWN AS THE "PUERTO RICO CONSTRUCTION PROFESSIONALS ACT".

RECONOZCO QUE CUALQUIER PERSONA QUE CAMBIE O ALTERE ESTOS PLANOS, EMPLEANDO, O POR OTRO MEDIO, SIN MI AUTORIZACIÓN O CONOCIMIENTO, ME HACEN RESPONSABLE DISCIPLINARIA POR LA VIOLACIÓN DE LA LEY 84 Y/O LA LEY 96 ANTES CITADAS. I RECOGNIZE THAT ANY PERSON WHO ALTERS THESE PLANS, EMPLOYING, OR BY OTHER MEANS, WITHOUT MY AUTHORIZATION OR KNOWLEDGE, MAKES ME LIABLE FOR DISCIPLINARY ACTION FOR VIOLATION OF LAW 84 AND/OR LAW 96 CITED ABOVE.

ESTOS PLANOS NO SON VÁLIDOS SIN LA FIRMA ORIGINAL Y SELLO DEL PROFESIONAL. THESE PLANS ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF THE PROFESSIONAL.

M.A.S. NO. 2022-000000 FECHA DE EXPIRACIÓN: 31 DE DICIEMBRE DE 2024 M.A.S. NO. 2022-000000 EXPIRATION DATE: DECEMBER 31, 2024

ESTOS PLANOS SON PROPIEDAD INTELECTUAL DE LA FIRMA QUE LOS PREPARÓ. NO SE PERMITE SU REPRODUCCIÓN EN CUALQUIER FORMA SIN EL CONSENTIMIENTO ESCRITO DE LA FIRMA. THESE PLANS ARE THE INTELLECTUAL PROPERTY OF THE FIRM THAT PREPARED THEM. NO REPRODUCTION IN ANY FORM IS PERMITTED WITHOUT THE WRITTEN CONSENT OF THE FIRM.

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PROJECT TEXT & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Planting Layout Plan & Details

CLIENT: Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03

PROJECT PHASE: Construction Docs - 100%

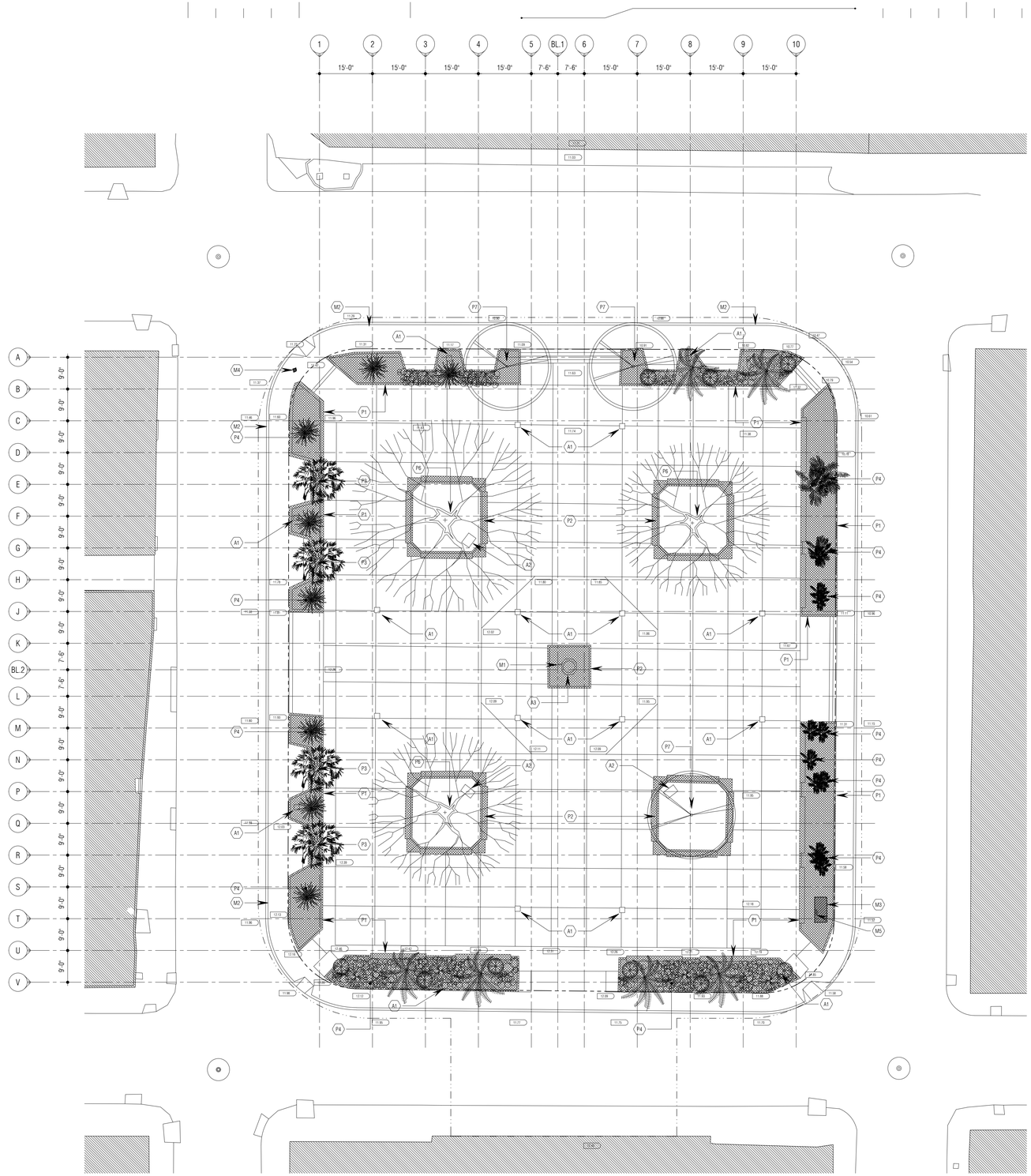
SHEET # 19

DRAWN BY krs

DATE 26.vi.2024

DISCIPLINE

L-1.0



Existing & Demolition Plan

SCALE : 1/16" = 1'-0"

Legend

- EXISTING CONSTRUCTION TO REMAIN
- WALL/OPENINGS TO BE DEMOLISHED
- STRUCTURAL/REINFORCED CONCRETE WALL
- CONCRETE BLOCK WALL
- GWB. PARTITION
- ELEMENTS TO BE REMOVED
- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- EXISTING TREE - CUT & DISPOSE

Demolition Keynotes

Accessories/Miscellaneous

- A1 REMOVE AND DISPOSE OF EXISTING LIGHT POST.
- A2 REMOVE AND DISPOSE OF BRASS PLAQUES.
- A3 REMOVE & RELOCATE CANOVANAX SCULPTURE.

Floor

- F1 REMOVE AND DISPOSE OF EXISTING SIDEWALK SLAB.
- F2 REMOVE AND DISPOSE OF EXISTING CONCRETE PAVEMENT.
- F3 REMOVE AND DISPOSE OF EXISTING BRASS JOINTS.
- F4 REMOVE AND DISPOSE OF EXISTING CONCRETE STAIRS AND RAMPS.
- F5 REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.

Electrical/Mechanical/Plumbing

- M1 REMOVE & RELOCATE HOSEBIB.
- M2 REMOVE ELECTRICAL POLE & BURY ALL ELECTRICAL LINES.
- M3 REMOVE AND DISPOSE OF EXISTING CONCRETE STRUCTURE & ELECTRICAL PANEL.
- M4 EXISTING FIRE HYDRANT TO BE RELOCATED
- M5 EXISTING LUMA ENERGY METER TO REMAIN

Planters/Partitions/Walls

- P1 REMOVE AND DISPOSE OF EXISTING PLANTER AND RELATED ITEMS.
- P2 REMOVE AND DISPOSE OF EXISTING PLANTER AND RELATED ITEMS.
- P3 REMOVE AND PREPARE TREE/PALM TREE TO BE RELOCATED.
- P4 REMOVE AND DISPOSE OF PLANT MATERIAL; BUSHES AND PALM TREES.
- P5 EXISTING TREE TO BE RELOCATED
- P6 EXISTING TREE TO REMAIN
- P7 EXISTING TREE TO BE REMOVED

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

julián manríquez botello, ficpuerto rico, LIC. MKR 00000 III EXP. 19 X 2025

CERTIFICACIÓN - COPYRIGHTS + VIEW RAMS

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CONSULTANT

DWG. TITLE

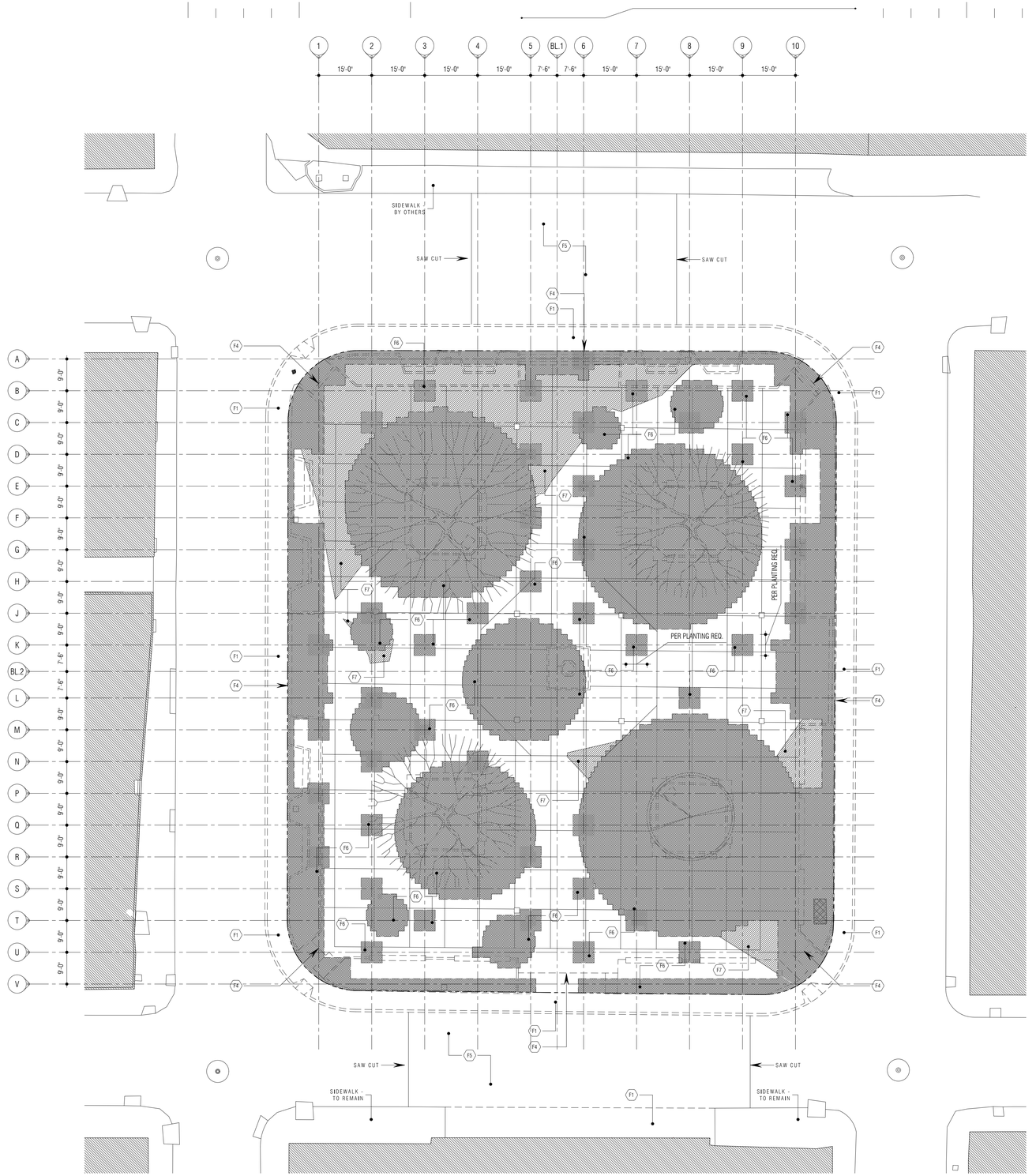
Existing & Demolition Plan

CLIENT
Municipality of Canóvanas - Hon. Lorna J. Soto

PROJECT # 22-03
PROJECT PHASE Construction Docs - 100%
SHEET NO. 20
DRAWN BY krs
DATE 26.vi.2024

DRAWING

ED-1.0



Existing & Demolition Plan

SCALE : 1/16" = 1'-0"

Legend

- EXISTING FLOOR TO BE SCARIFIED
- EXISTING FLOOR TO BE DEMOLISHED
- ELEMENTS TO BE REMOVED
- PROPERTY LINE

Floor

- F1 REMOVE AND DISPOSE OF EXISTING SIDEWALK SLAB.
- F2 REMOVE AND DISPOSE OF EXISTING CONCRETE PAVEMENT.
- F3 REMOVE AND DISPOSE OF EXISTING BRASS JOINTS.
- F4 REMOVE AND DISPOSE OF EXISTING CONCRETE STAIRS AND RAMPS.
- F5 REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT. PREPARE AREA FOR NEW CONCRETE PAVEMENT.
- F6 REMOVE AND DISPOSE OF ALL EXISTING CONSTRUCTION MATERIAL; REVEAL NATIVE SOIL & PREPARE FOR NEW PLANTING. SEE PLANTING LAYOUT PLAN & DETAILS.
- F7 ESTIMATED AREA TO BE SCARIFIED & LEVELED TO F.F.E. MINUS (3) THREE INCHES. SEE GRADING PLAN FOR F.F.E.

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1	05/x/17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico
LIC. MXX DCCC III
EXP. 19 X 2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. I, JULIÁN MANRÍQUEZ BOTELLO, LICENSE 19803, CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED, PREPARED AND CONFECTIONED THESE PLANS.

BIEN CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE JUNTOS REGLAMENTACIONES O CUERPO DE LA NACIÓN DE CONES DE HA C.A.P.E.H. COMO LA 1257 STAN PUER- ARJO DE 1975 ASÍ COMO DE HABI- TA PRO- DA EN SEA POR PERSONAS DE CUALQUIER TUAL PROP- IE USED N THIS PLANS.

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REGULATIONS AND CONSTRUCTION CODES IN FORCE IN THE NATION OR JURISDICTION WHERE THE PROJECT IS LOCATED, SUCH AS THE 1257 STANDARDS OF THE C.A.P.E.H. OF PUERTO RICO OF 1975 AS WELL AS THE HABITABILITY CODE OF PUERTO RICO. THESE PLANS ARE SEALED FOR USE IN THE PUERTO RICO JURISDICTION ONLY.

FIRMA - SIGNATURA

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FOR THE PURPOSE OF CERTIFICATION, I AM RESPONSIBLE FOR THE CONTENTS OF THESE PLANS AND SPECIFICATIONS, EXCEPT FOR THOSE PORTIONS PREPARED BY OTHERS WHICH I HAVE REVIEWED AND FOR WHICH I HAVE ASSUMED RESPONSIBILITY AS INDICATED BY MY SEAL AND SIGNATURE.

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CLIENT

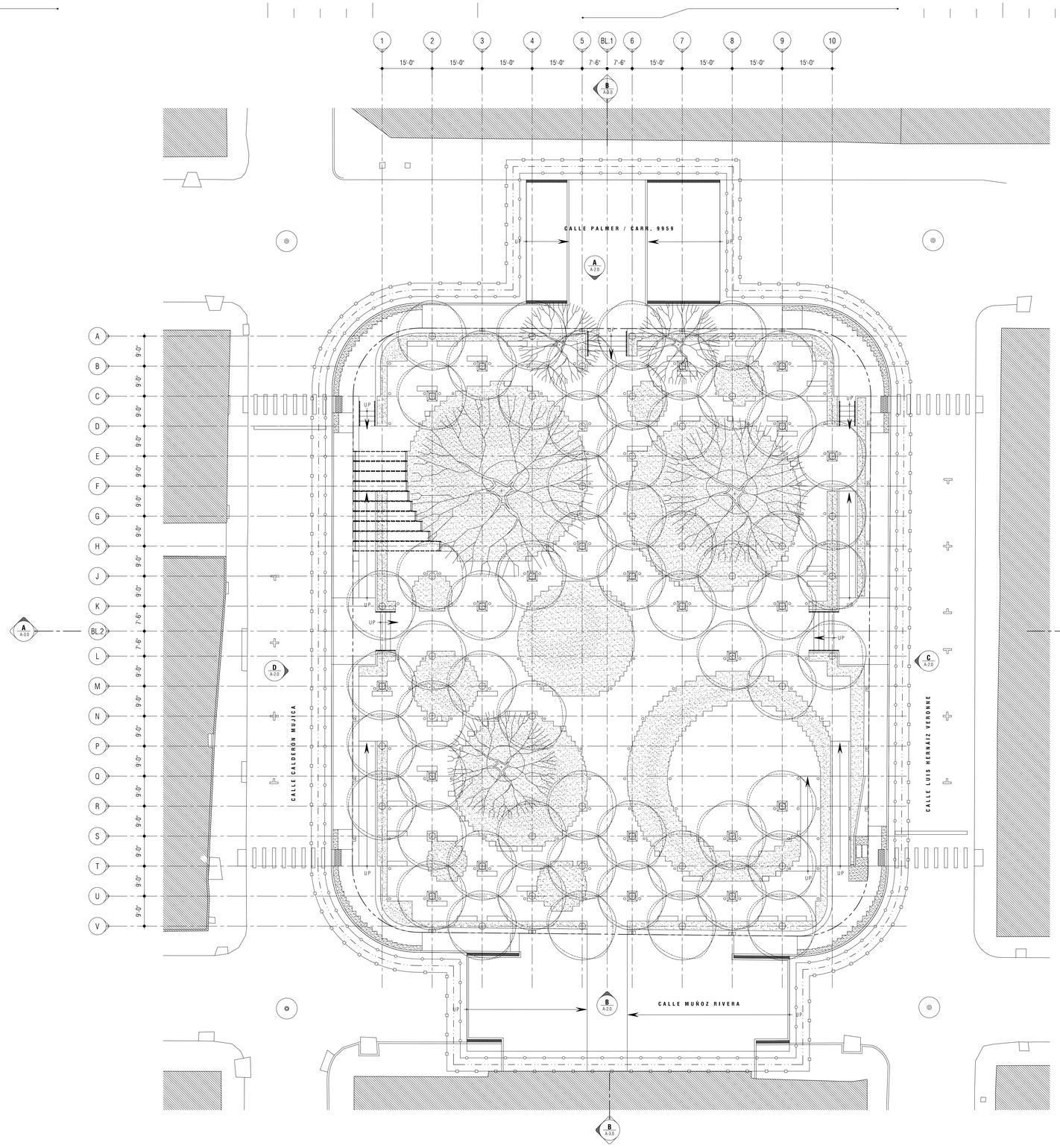
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET NO.	DRAWN BY	DATE
21	krs	26.vi.2024

SHEET UNIT

ED-1.1



Proposed Site Plan

SCALE : 1/16" = 1'-0"

LEGEND

- PROPERTY LINE
- LIMIT OF PROJECT SCOPE
- CONSTRUCTION FENCE & GATES
- SITE IMPROVEMENT LIMIT
- EXISTING TREE - TO REMAIN AND/OR BE RELOCATED
- PROPOSED TREE

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MSX 0000 III
EXP. 19 X 2025

CERTIFICACIÓN - CERTIFICATE - VIEW NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. CERTIFICO QUE ESTOS PLANOS SON FIEL REFLEJO DE LO CERTIFICO QUE EVIDENCIÓ QUE ESTOS PLANOS Y ESPS. CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O GOBIERNO RACIONES PÚBLICAS CON JURISDICCIÓN SOBRE ESTE PROYECTO. TAL CERTIFICACIÓN ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NÚMERO 96 DEL 5 DE JULIO DE 1978, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE SEGURIDAD EN CONSTRUCCIÓN". PARA LA TERMINACIÓN Y CON SEGÚN ENMENDADA, CONOCIDA COMO LA LEY NÚMERO 96 DEL 5 DE JULIO DE 1978, SEGÚN ENMENDADA, SE HACE PÚBLICO QUE CUALQUIER PERSONA QUE DISEÑE PLANOS SIN ESTAR DEBIDAMENTE CUALIFICADO O POR VIOLACIÓN A DICHA LEY, ESTARÁ INCURRIENDO EN DELITO MENOS GRAVE Y DE CONDENARSE POR LA MISMA, SE HARÁ PÚBLICO QUE CUALQUIER PERSONA QUE DISEÑE PLANOS SIN ESTAR DEBIDAMENTE CUALIFICADO O POR VIOLACIÓN A DICHA LEY, ESTARÁ INCURRIENDO EN DELITO MENOS GRAVE Y DE CONDENARSE POR LA MISMA, SE HARÁ PÚBLICO QUE CUALQUIER PERSONA QUE DISEÑE PLANOS SIN ESTAR DEBIDAMENTE CUALIFICADO O POR VIOLACIÓN A DICHA LEY, ESTARÁ INCURRIENDO EN DELITO MENOS GRAVE Y DE CONDENARSE POR LA MISMA, SE HACEN RESPONSABLE DISCIPLINARIA POR LA PRESENTACIÓN DE ESTOS PLANOS. STUDIO LLC, AND SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE OF INFORMATION. M.E.N.T.S. AS A REFERENCE DOCU- STUDIO LLC, AND SHALL MENT OR THE INFORMATION NOT BE HELD RESPONSIBLE CONTAINED HEREIN IS STRICTLY FOR ANY MISUSE OF PROHIBITED WITHOUT PERMISSION, INFORMATION. CONSENT AND NOTICE TO THE OPC PROJECT HEREIN. SHALL BE ADDRESSED TO M.E.N.T.S. STUDIO LLC.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Proposed Site Plan

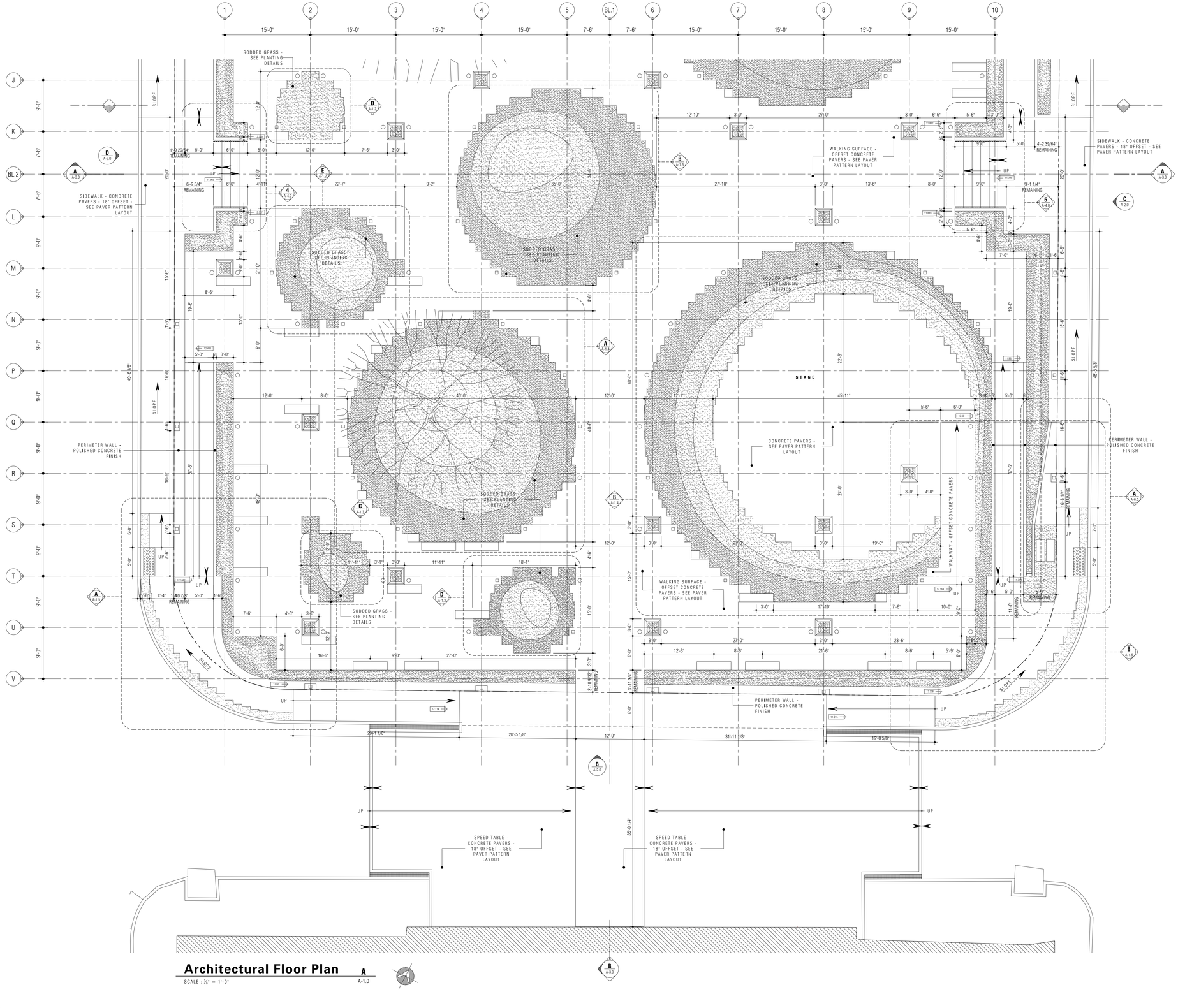
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
22	krs / 26.vi.2024

DISCIPLINE

AS-1.0



Architectural Floor Plan

SCALE : 1/8" = 1'-0"

A-1.0

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL



CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. I, JULIÁN MANRÍQUEZ BOTELLO, LICENSE 19803, CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED, PREPARED AND CONFECTIONED THESE PLANS.

CERTIFICO QUE EVIDENCIO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O CUERPOS GUBERNAMENTALES RACIONES PÚBLICAS CON JURISDICCIÓN SOBRE ESTE PROYECTO.

I CERTIFY THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE CONSTRUCTION CODES AND REGULATIONS IN FORCE BY THE AGENCIES, BOARDS OR GOVERNMENTAL BODIES WITH JURISDICTION OVER THIS PROJECT.

TEL. 939.579.1414 EMAIL: julian@manriquezbotello.com

CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. I, JULIÁN MANRÍQUEZ BOTELLO, LICENSE 19803, CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED, PREPARED AND CONFECTIONED THESE PLANS.

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TEL. 939.579.1414 EMAIL: julian@manriquezbotello.com

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Musica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

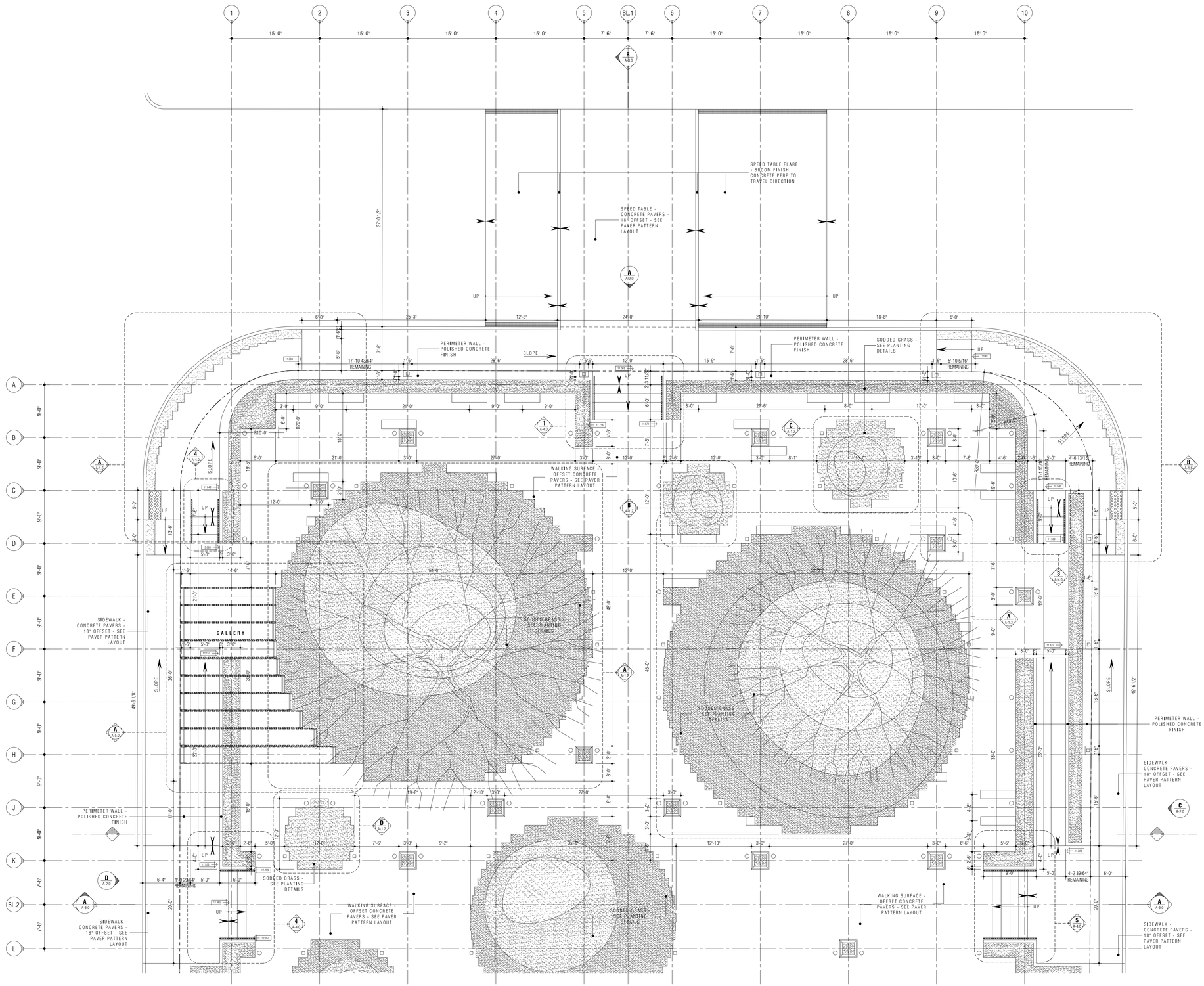
Proposed Floor Plan

Key Map

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #: 22-03
PROJECT PHASE: Construction Docs - 100%
SHEET #: 23
DRAWN BY: krs
DATE: 26.vi.2024
DISCIPLINE

A-1.0



Architectural Floor Plan A

SCALE : 1/8" = 1'-0" A-1.1

Key Map

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. MAY. 00CC III
EXP: 19.X.2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. I, JULIAN MANRIQUEZ BOTELLO, LICENSE 19803, CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED, DRAWN AND PREPARED THESE PLANS. I CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CUERPOS GUBERNAMENTALES QUE TENGAN JURISDICCIÓN SOBRE LA NACIÓN DE CONSTRUCCIÓN. I CERTIFY THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REGULATIONS AND CONSTRUCTION CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR GOVERNMENTAL BODIES THAT HAVE JURISDICTION OVER THE CONSTRUCTION NATION. CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NÚMERO 160 DE 17 DE DICIEMBRE DE 2013, CONOCIDA COMO "LEY PARA LA SEGURIDAD Y CONSERVACIÓN DE PISCINAS EN EL ESTADO LIBRE ASOCIADO DE PUERTO RICO". I CERTIFY THAT THESE PLANS AND SPECIFICATIONS FULLY COMPLY WITH LAW NUMBER 160 DATED 17 DECEMBER 2013, KNOWN AS THE "LEY PARA LA SEGURIDAD Y CONSERVACIÓN DE PISCINAS EN EL ESTADO LIBRE ASOCIADO DE PUERTO RICO". SEGÚN ENMENDADA POR LA LEY NÚMERO 186 DE 15 DE DICIEMBRE DE 2015. AS AMENDED BY LAW NUMBER 186 DATED 15 DECEMBER 2015. RECONOZCO QUE CUALQUIER CAMBIO A ESTOS PLANOS Y ESPECIFICACIONES PUEDE INVALIDAR ESTA CERTIFICACIÓN. I RECOGNIZE THAT ANY CHANGES TO THESE PLANS AND SPECIFICATIONS MAY VOID THIS CERTIFICATION. CAMBIOS O POR NEGLIGENCIA EMPLEADOS, O POR OTRAS PERSONAS QUE NO SEAN MI FIRMA. EMPLOYEES, OR BY OTHER PERSONS WHO ARE NOT MY FIRM. ME HAGO RESPONSABLE DISCIPLINARIA POR LA ACCIÓN JUDICIAL Y CIVIL QUE PUEDA RESULTAR. I HOLD MYSELF DISCIPLINARILY RESPONSIBLE FOR THE JUDICIAL AND CIVIL ACTION THAT MAY RESULT. ESTUDIO LLC, AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT HEREIN. M.E.N.T.S. ASUMO NINGUNA RESPONSABILIDAD POR EL USO NO AUTORIZADO DE ESTOS PLANOS. I ASSUME NO RESPONSIBILITY FOR THE UNAUTHORIZED USE OF THESE PLANS. DERECHOS DE AUTOR: ESTE DISEÑO ES PROPIEDAD INTELECTUAL DE in.formation studio llc Y NO PUEDE SER COPIADO, REPRODUCIDO O UTILIZADO EN TODO O EN PARTE SIN EL CONSENTIMIENTO POR ESCRITO DE in.formation studio llc. COPYRIGHT: THIS DESIGN IS THE INTELLECTUAL PROPERTY OF in.formation studio llc AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF in.formation studio llc.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

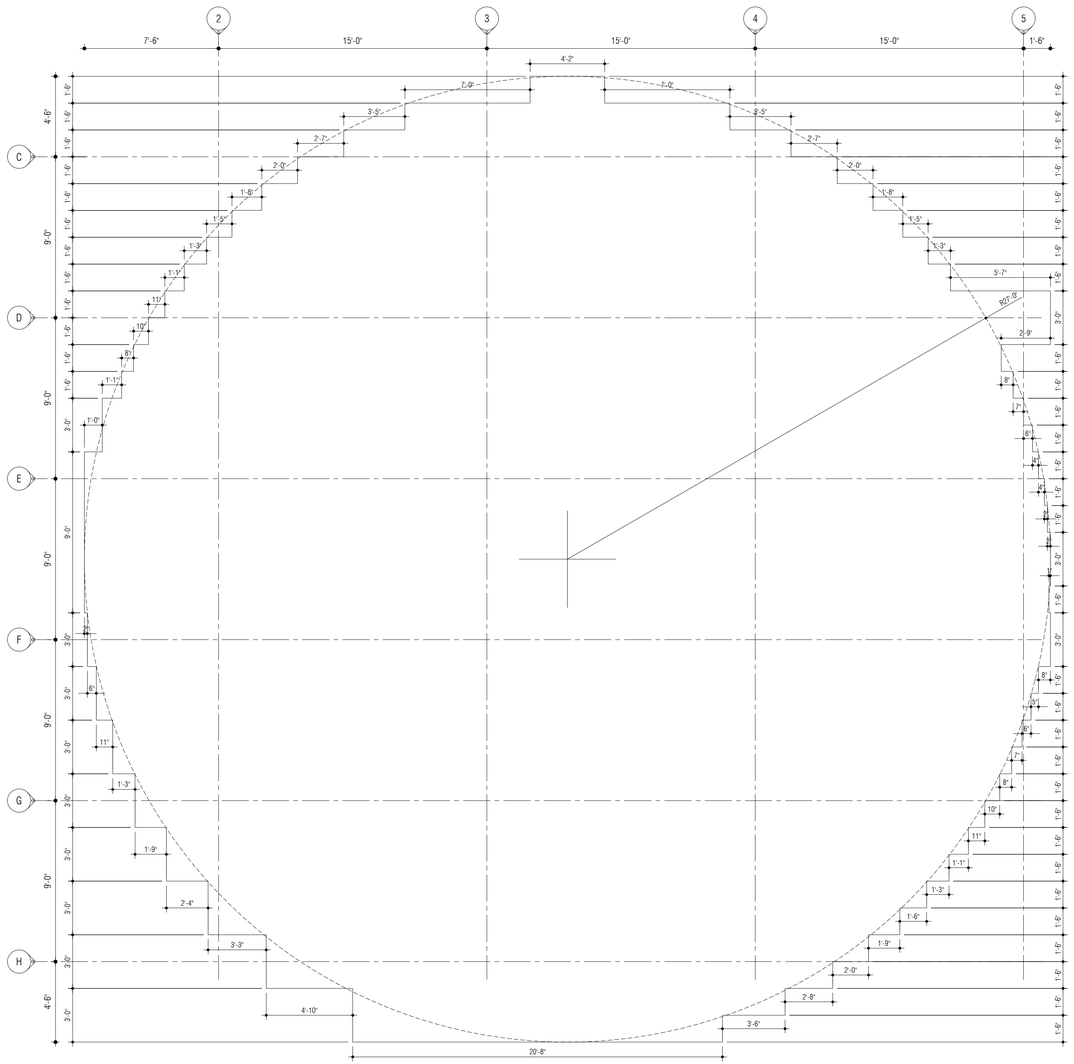
Proposed Floor Plan

CLIENT
Municipality of Canóvanas - Hon. Lorna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
24	krs 26.vi.2024

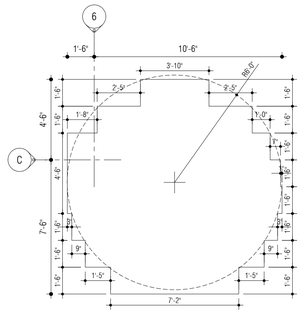
DESCRIPTION

A-1.1



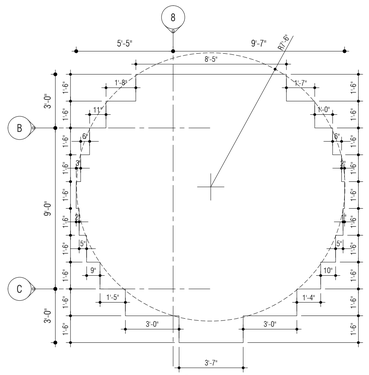
Descriptive Geometry A

SCALE : ¼" = 1'-0" A-1.2



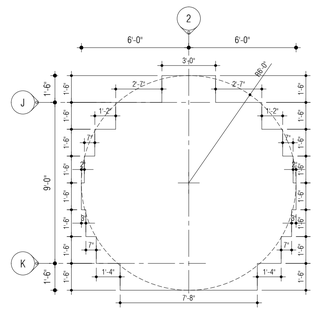
Descriptive Geometry B

SCALE : ¼" = 1'-0" A-1.2



Descriptive Geometry C

SCALE : ¼" = 1'-0" A-1.2



Descriptive Geometry D

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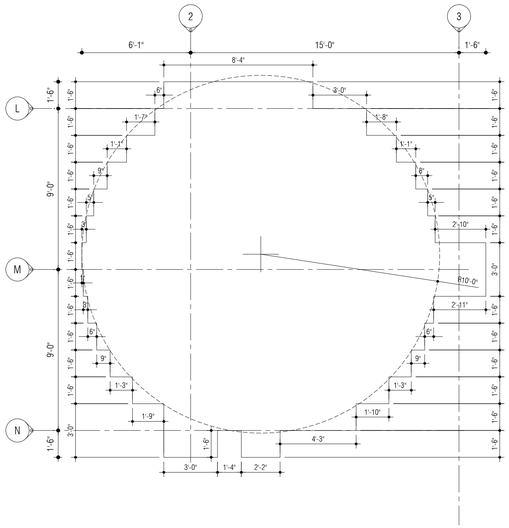

Descriptive Geometry E

SCALE : ¼" = 1'-0" A-1.2

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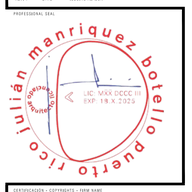
REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL



CERTIFICACION - CERTIFICATE - FIRM NAME

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO CONDICIONES Y PREPARO ESTOS PLANOS. LICENCIA PROFESIONAL NUMERO 19803 - 1984. CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPE- CIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTE DE LAS AGENCIAS, JUNTAS, REGLAMENTADORAS O CORPO- RACIONES PUBLICAS CON JURISDIC- CION EN LA FECHA DE EMISION DE ESTOS PLANOS Y ESPECIFICA- CIONES. CUMPLIENDO EN LA FECHA DE EMISION DE ESTOS PLANOS Y ESPECIFICA- CIONES. CUMPLIENDO CABALMENTE CON LA LEY NUMERO 173 DE 14 DE JULIO DE 1988, SEGUN ENMENDADA, PARA LA TORMENTA Y CON LA LEY NUMERO 96 DEL 6 DE JUNIO DE 1967, SEGUN ENMENDADA, PARA LA FALSA ALARMA. DE HACER CAMBIOS O ENMIENDAS A ESTOS PLANOS Y ESPECIFICA- CIONES, O POR OTRAS ENMIENDAS, EL POR OTRAS ENMIENDAS, EL PROFESIONAL QUE DISEÑO ESTOS PLANOS Y ESPECIFICA- CIONES NO ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y/ O DAÑOS CONSECUENTES QUE PUEDA PRESENTARSE DEBIDO A ESTOS CAMBIOS. DISCIPLINARIA POR LA FALSA ALARMA EN EL DISEÑO DE ESTE PROYECTO. ESTUDIO LLC AND SHALL NOT BE USED OR RE-USED BY OTHERS WITHOUT WRITTEN PERMISSION AND SHALL BE RETURNED TO INFORMATION STUDIO.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Descriptive Geometry

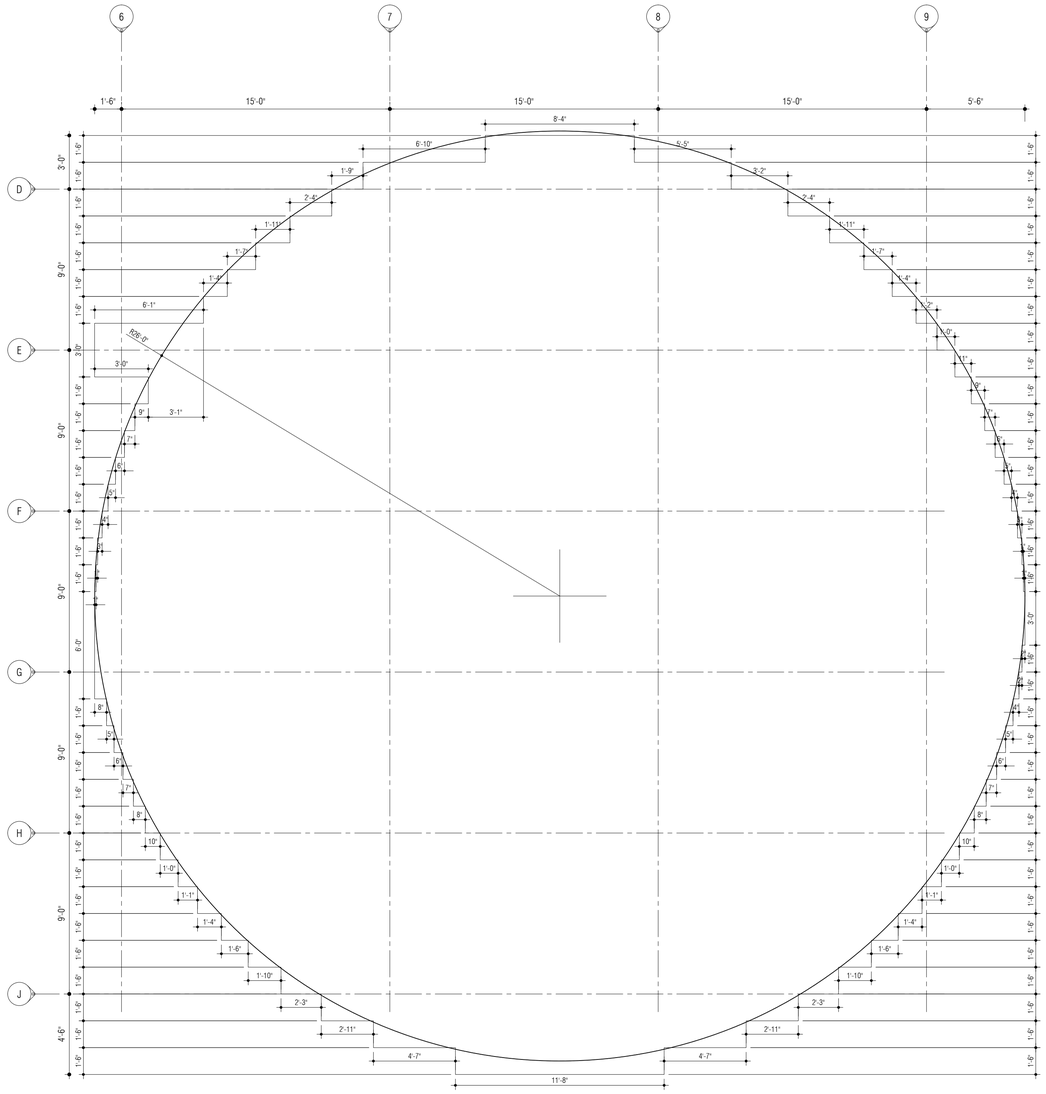
CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
25	krs	26.vi.2024

DESCIPLINE

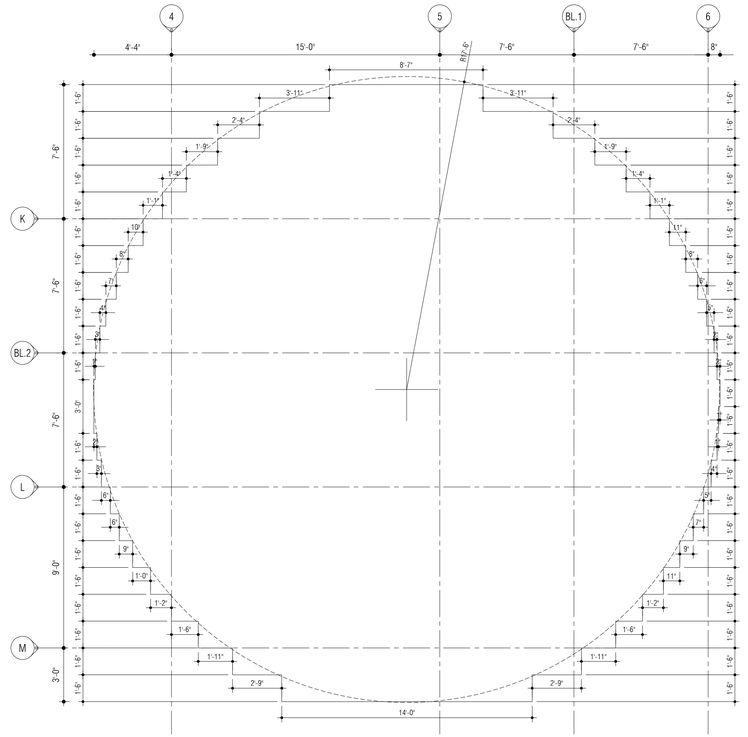
A-1.2



Descriptive Geometry A

SCALE : ¼" = 1'-0"

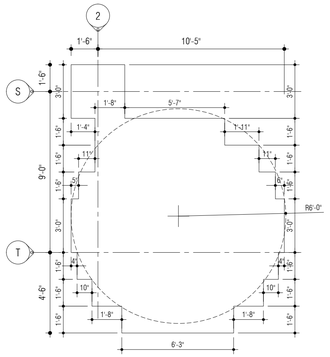
A-1.3



Descriptive Geometry B

SCALE : ¼" = 1'-0"

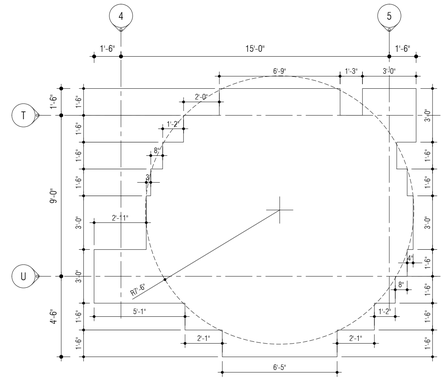
A-1.3



Descriptive Geometry C

SCALE : ¼" = 1'-0"

A-1.3



Descriptive Geometry D

SCALE : ¼" = 1'-0"

A-1.3

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
Arquitecto
LIC. MAX OCCC III
EXP. 19.X.2025

CERTIFICACION - CERTIFICATE - FIRM NAME

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Descriptive Geometry

CLIENT

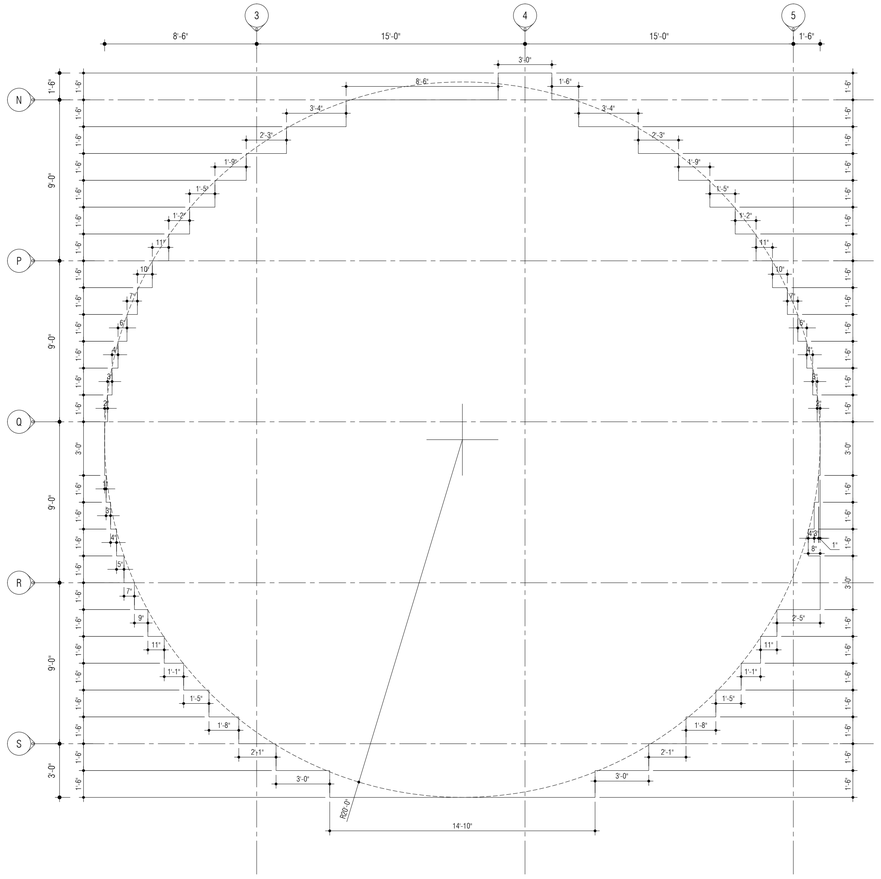
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
26	krs	26.vi.2024

DISCIPLINE

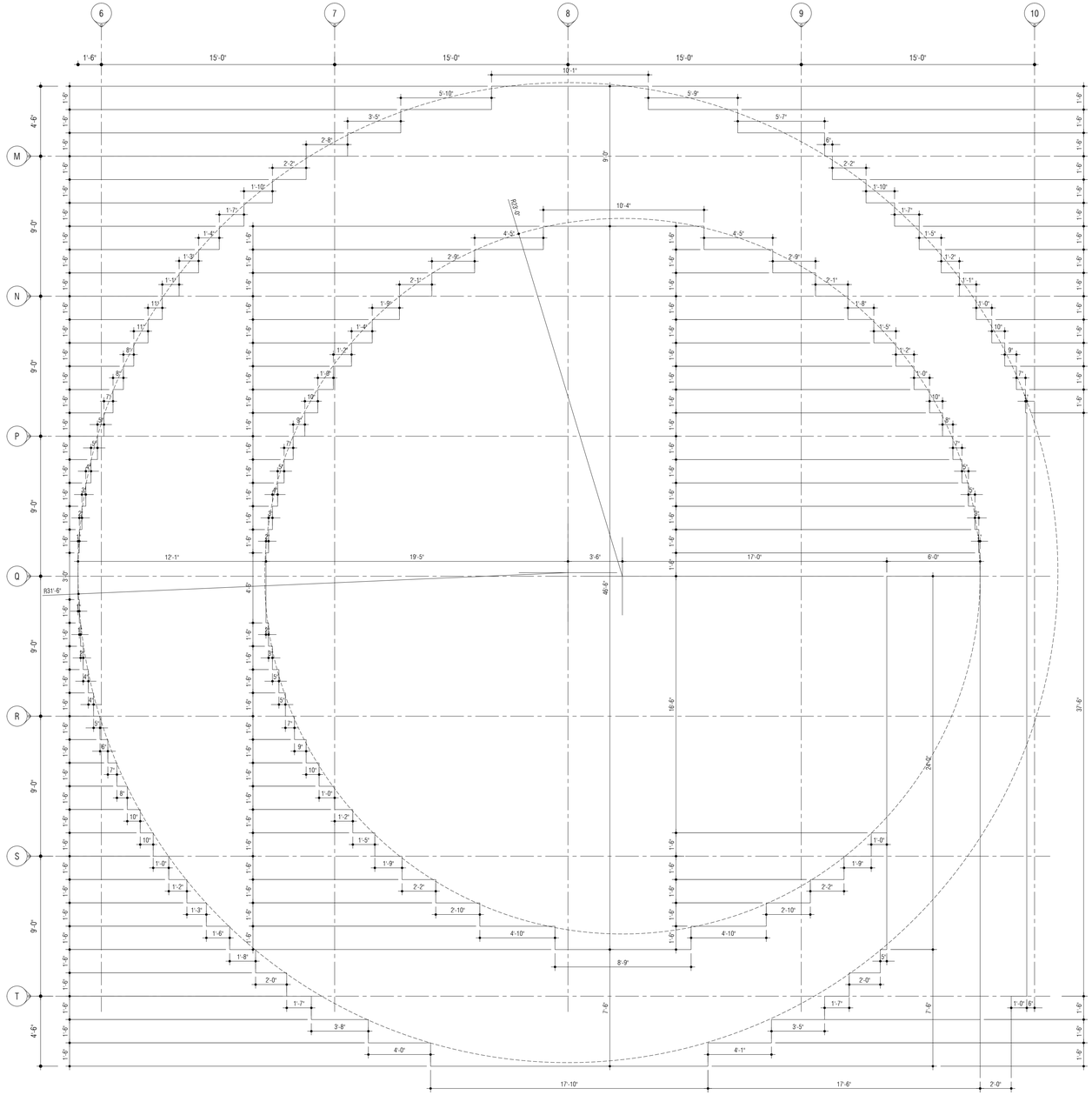
A-1.3



Descriptive Geometry

SCALE : ¼" = 1'-0"

A
A-1.4



Descriptive Geometry

SCALE : ¼" = 1'-0"

B
A-1.4

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. MAY. OCCC 17
EXP. 14 X 2025

CERTIFICACIÓN - COPYRIGHTS - VIEW NAME

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Carolina, PR, 00979 - Office: Tel. +1 (787) 296-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Descriptive Geometry

CLIENT

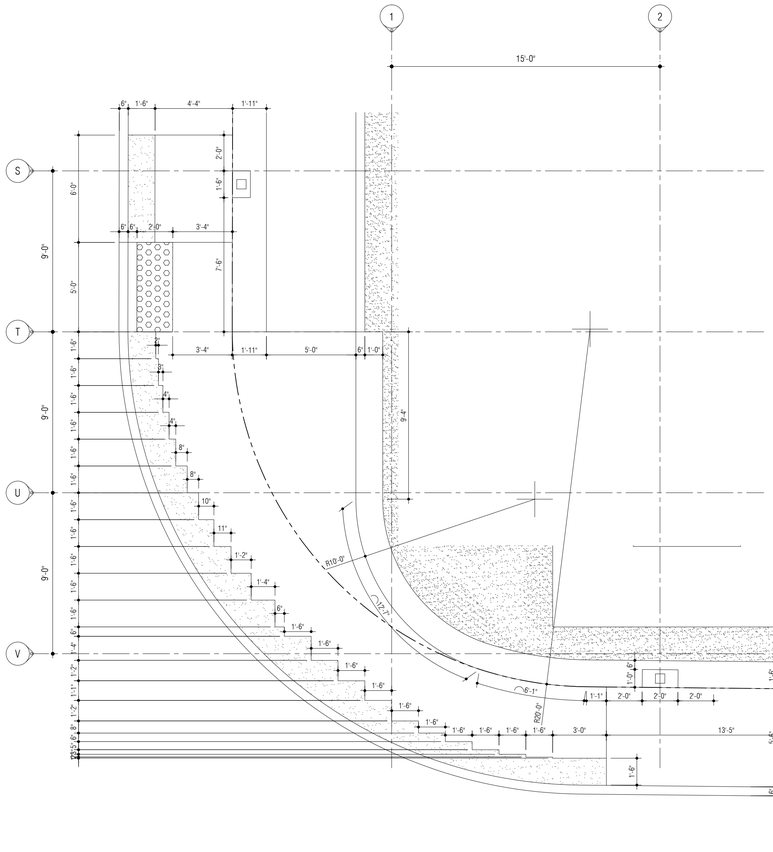
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
27	krs	26.vi.2024

DISCIPLINE

A-1.4

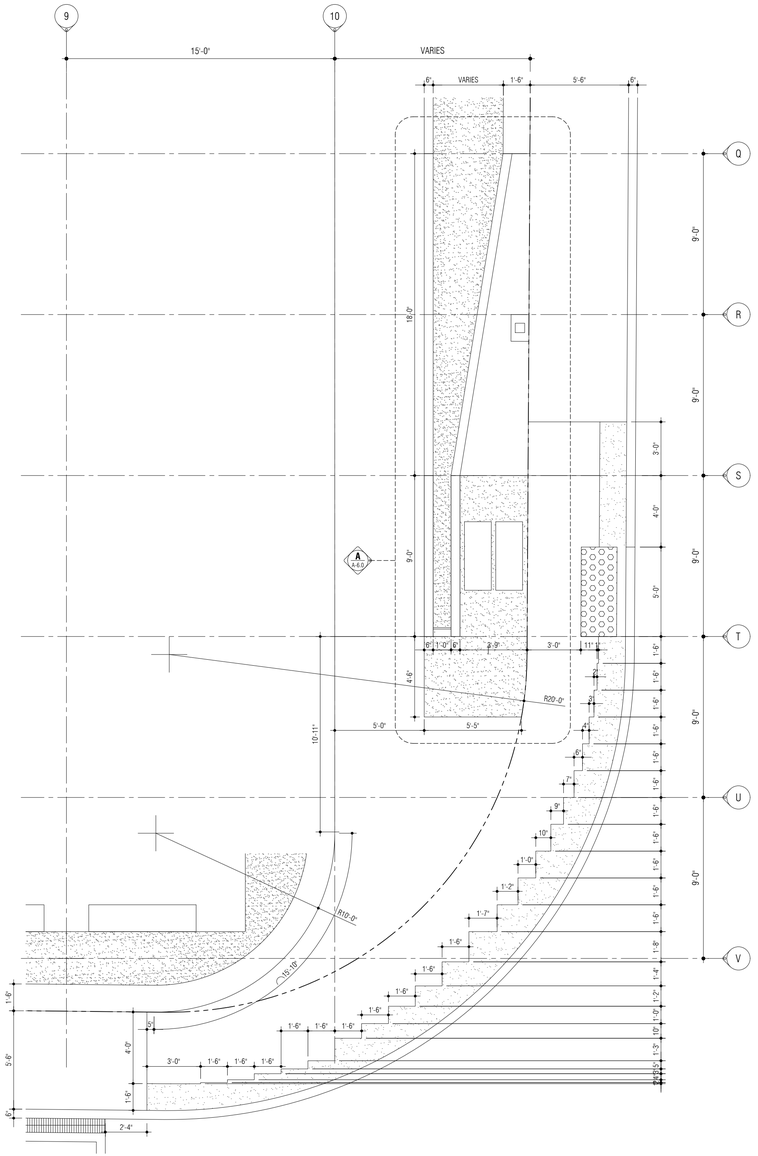


Blow-Up Plan

SCALE : ¼" = 1'-0"

A

A-1.5


9
10
15'-0"
VARIES
6'
VARIES
1'-6"
5'-6"
6'
Q
R
S
T
U
V
9'-0"
18'-0"
9'-0"
3'-0"
4'-0"
6'-0"
9'-0"
A
A4.0
6'
1'-0"
6'
2'-9"
3'-0"
11"
4'-6"
R20'-0"
5'-0"
5'-5"
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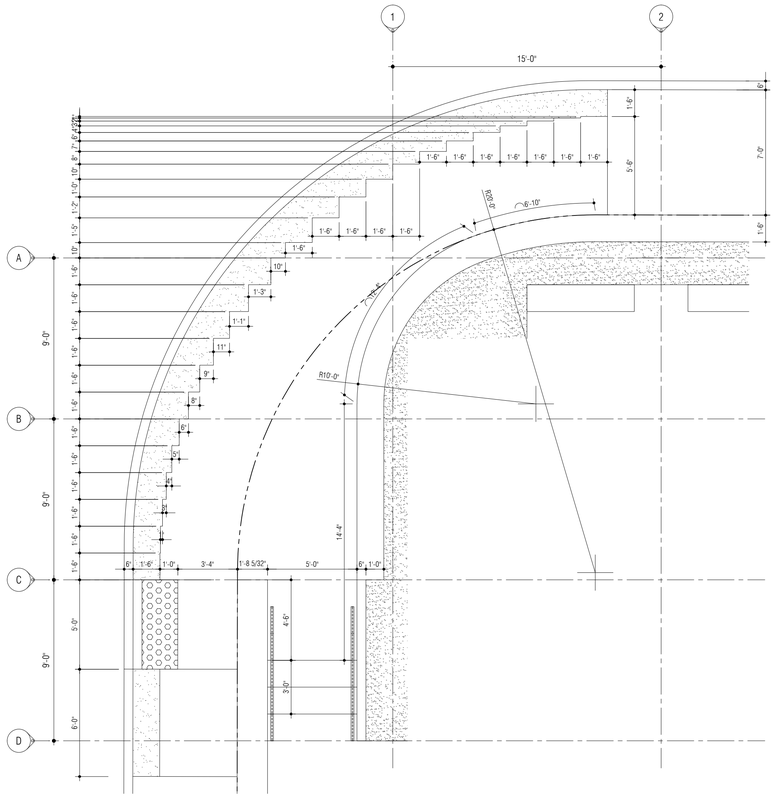
1'-7"
1'-6"
1'-6"
1'-6

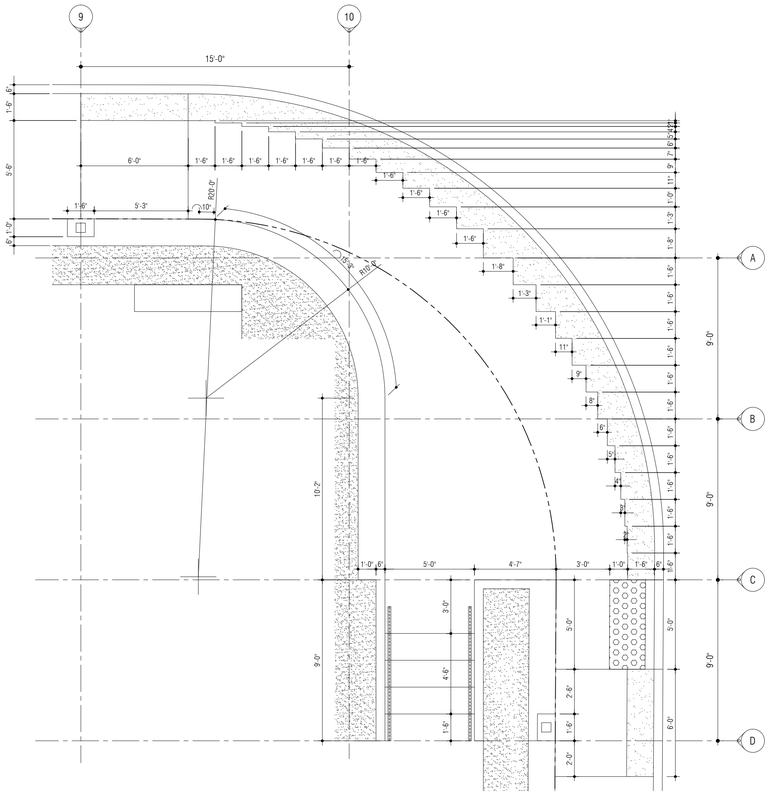


Blow-Up Plan

SCALE : ½" = 1'-0"

A

A-1.6



Blow-Up Plan

SCALE : ½" = 1'-0"

B

A-1.6

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL



CERTIFICACIÓN - COPYRIGHTS + FORM NAME

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SEGÚN ENMENDADA POR LA LEY 9 DE 24 DE JULIO DE 1978, MI NÚMERO DE SELLO ES 19803, VENCE EL 19 DE OCTUBRE DE 2025.

CERTIFICO QUE LA INFORMACIÓN CONTENIDA EN ESTOS PLANOS ES CORRECTA Y CONFORME A LA MEJOR INFORMACIÓN DISPONIBLE.

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Carolina, PR, 00979 - Office Tel. +1 (787) 246-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Sidewalk Corner - Blow-Up Plan

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03

PROJECT PHASE Construction Docs - 100%

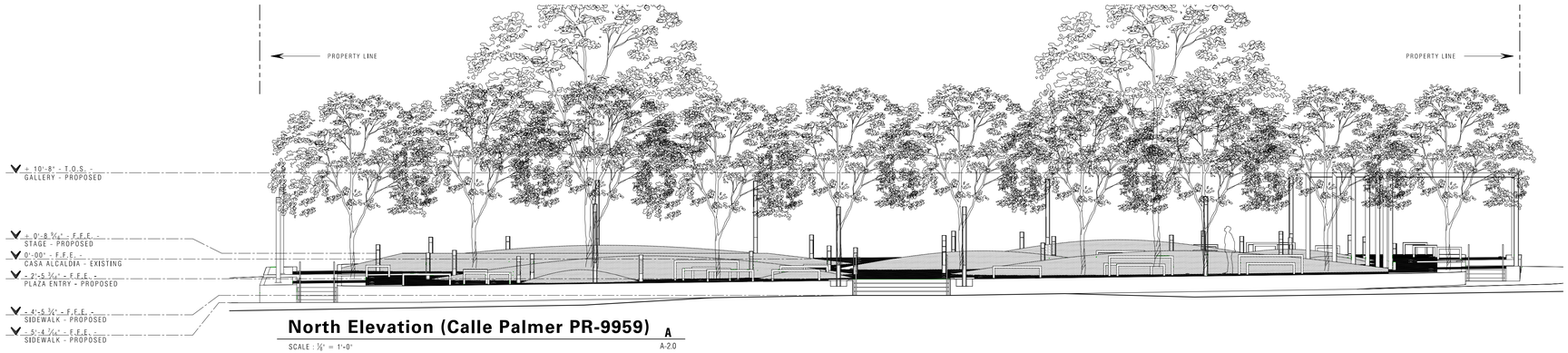
SHEET # 29

DRAWN BY krs

DATE 26.vi.2024

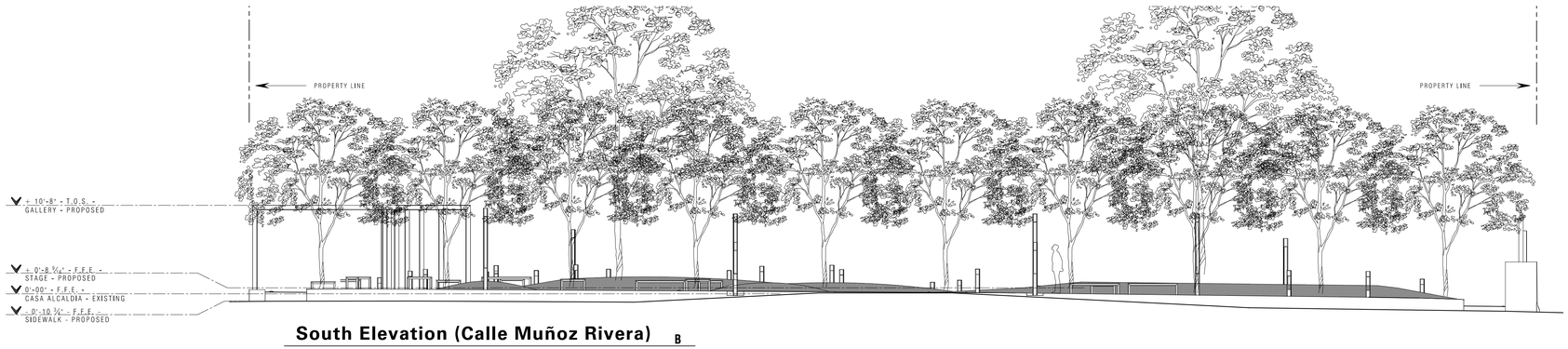
DISCIPLINE

A-1.6



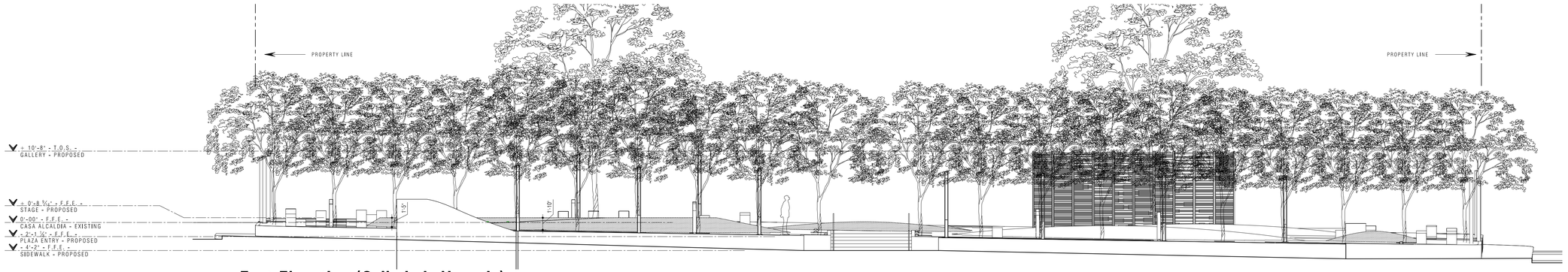
North Elevation (Calle Palmer PR-9959) A

SCALE : ⅛" = 1'-0" A-2.0



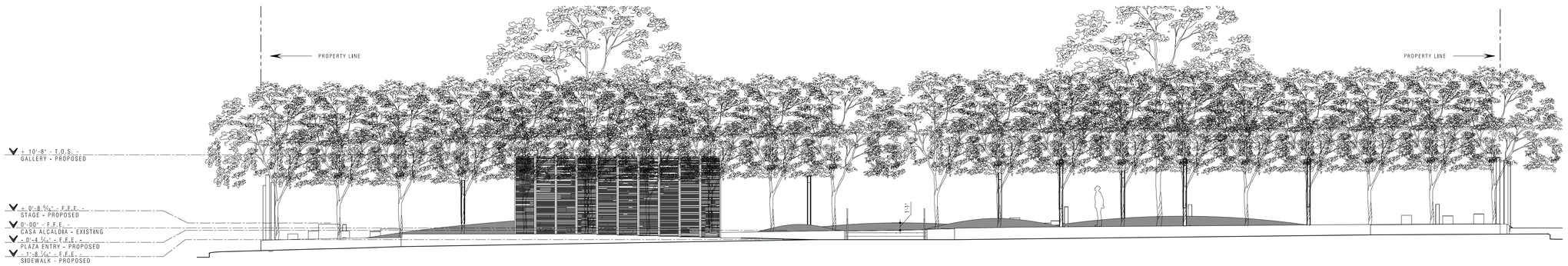
South Elevation (Calle Muñoz Rivera) B

SCALE : ⅛" = 1'-0" A-2.0



East Elevation (Calle Luis Hernaiz) C

SCALE : ⅛" = 1'-0" A-2.0



West Elevation (Calle Calderon Mujica) D

SCALE : ⅛" = 1'-0" A-2.0

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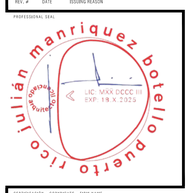
REVISIONS

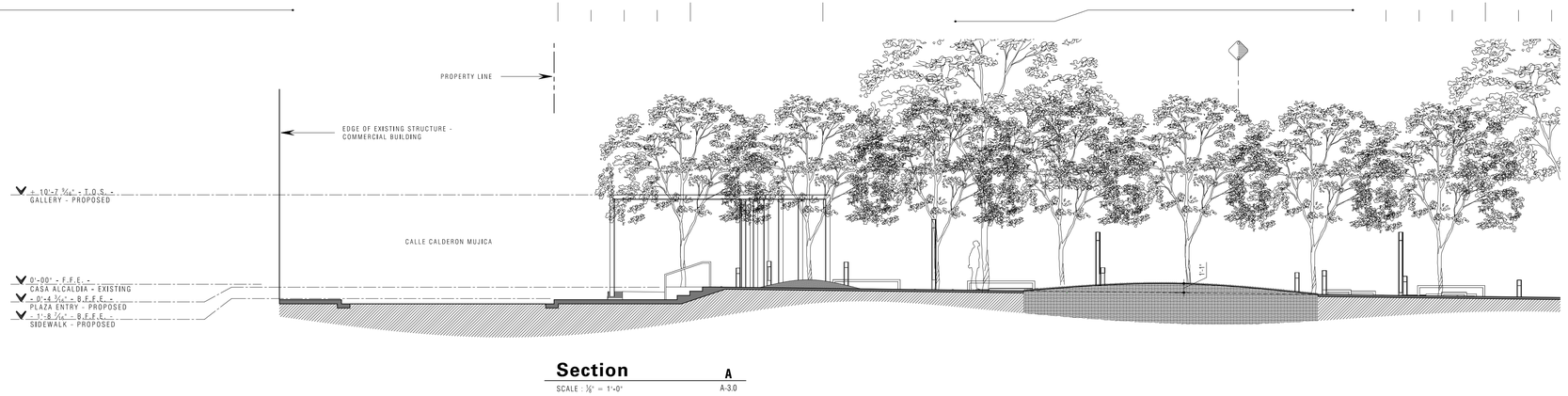
REV. #	DATE	ISSUING REASON
1	05/x.17	Explanation

PROFESSIONAL SEAL



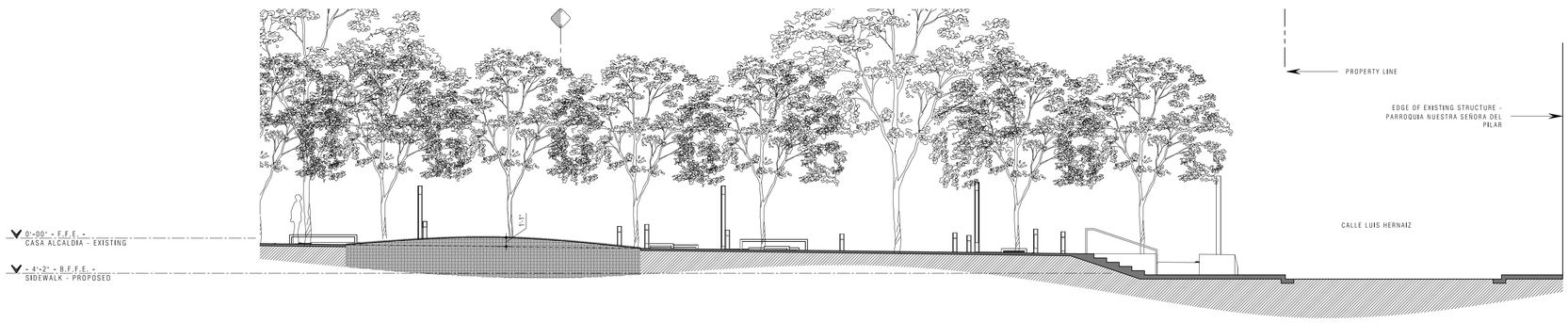
CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 13603, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. Y QUE A MI LEAL SABER Y ENTENDER, ESTOS PLANOS: CERTIFICO QUE ENTIENDO QUE ESOS PLANOS Y ESPS. CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O CUERPO REGIONES PÚBLICAS CON JURISDICCIÓN SOBRE LA OBRA. TAL CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NUMERO 96 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA, RECONOZCO QUE CUALQUIER VIOLACIÓN A DICHA LEY PARA LA TERMINACIÓN DE ESTOS PLANOS Y ESPS. PODRÁ CAUSARME LA SUSPENSIÓN Y CON TORNAVOZ EN



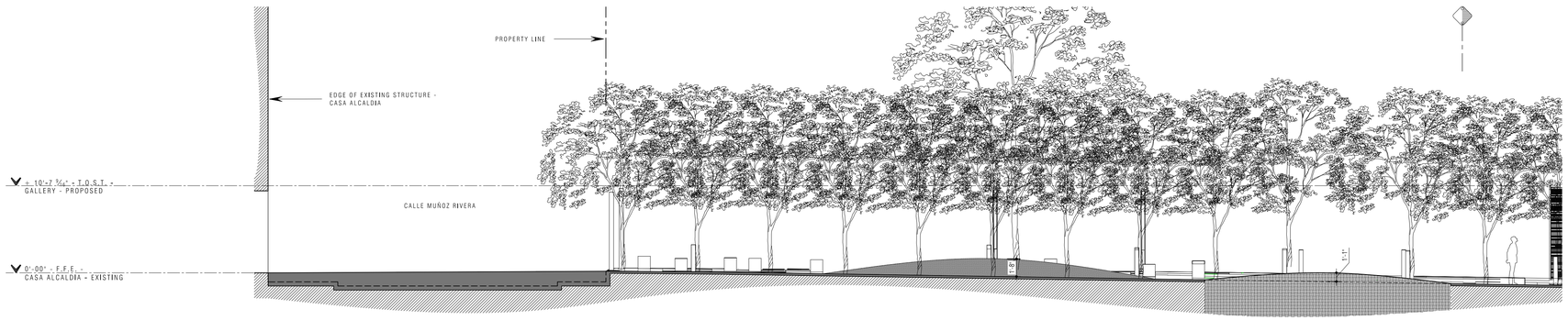
Section A

SCALE : 1/8" = 1'-0" A-3.0



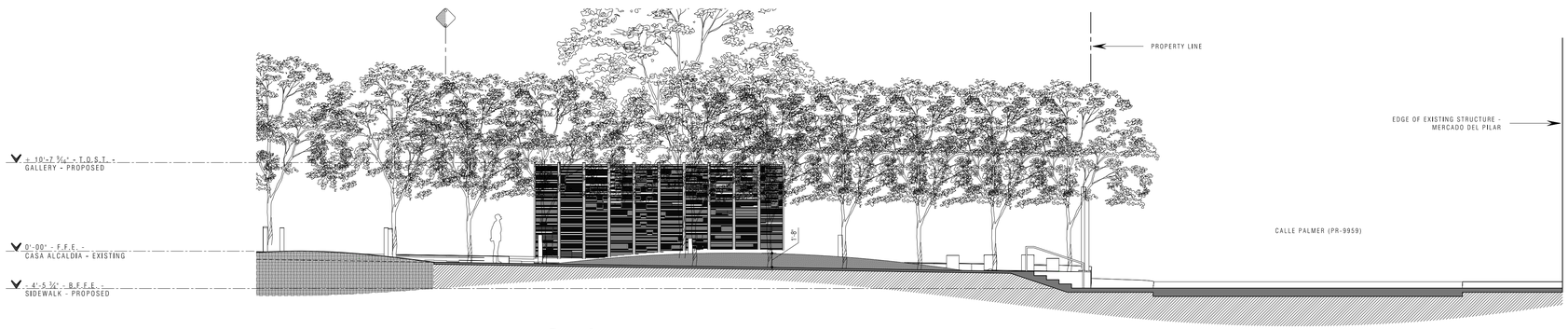
Section A

SCALE : 1/8" = 1'-0" A-3.0



Section B

SCALE : 1/8" = 1'-0" A-3.0



Section B

SCALE : 1/8" = 1'-0" A-3.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. MKK DCCC 11
EXP. 19 X 2025

CERTIFICACIÓN - COPYRIGHTS + FIRM NAME

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Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@formationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Sections

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03

PROJECT PHASE Construction Docs - 100%

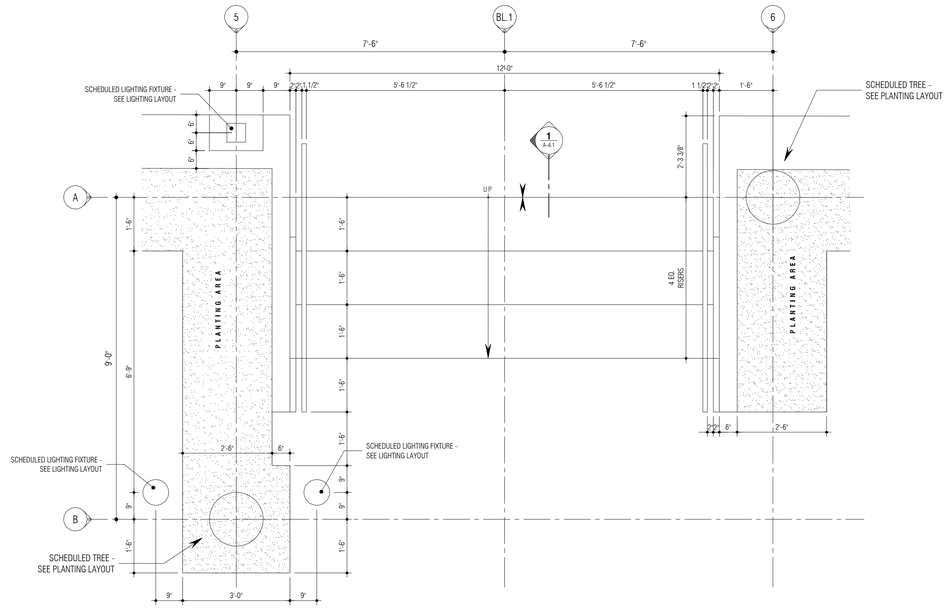
SHEET # 31

DRAWN BY krs

DATE 26.vi.2024

DISCIPLINE

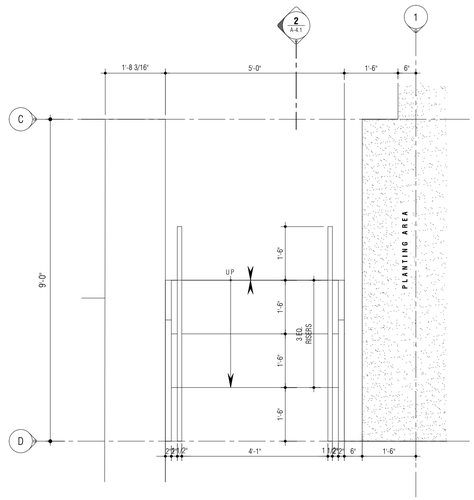
A-3.0



Stair - Plan

SCALE : ½" = 1'-0"

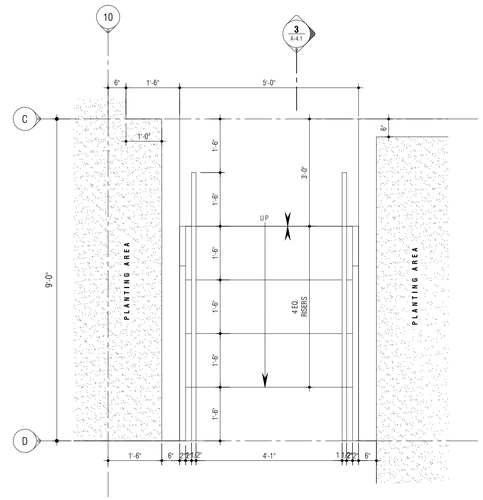
1 A-4.0



Stair - Plan

SCALE : ½" = 1'-0"

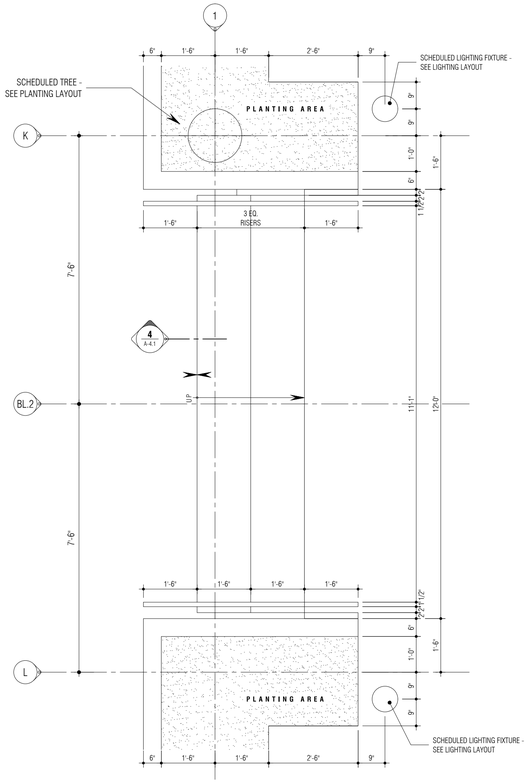
2 A-4.0



Stair - Plan

SCALE : ½" = 1'-0"

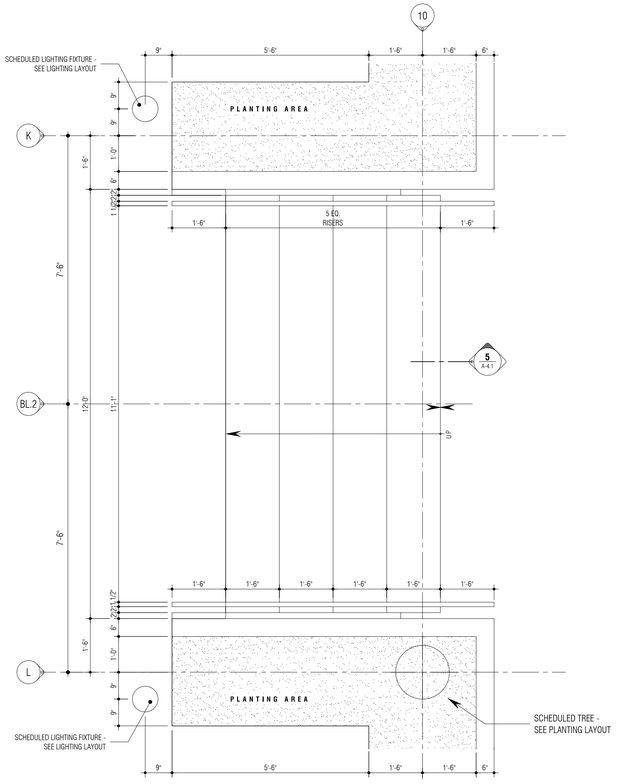
3 A-4.0



Stair - Plan

SCALE : ½" = 1'-0"

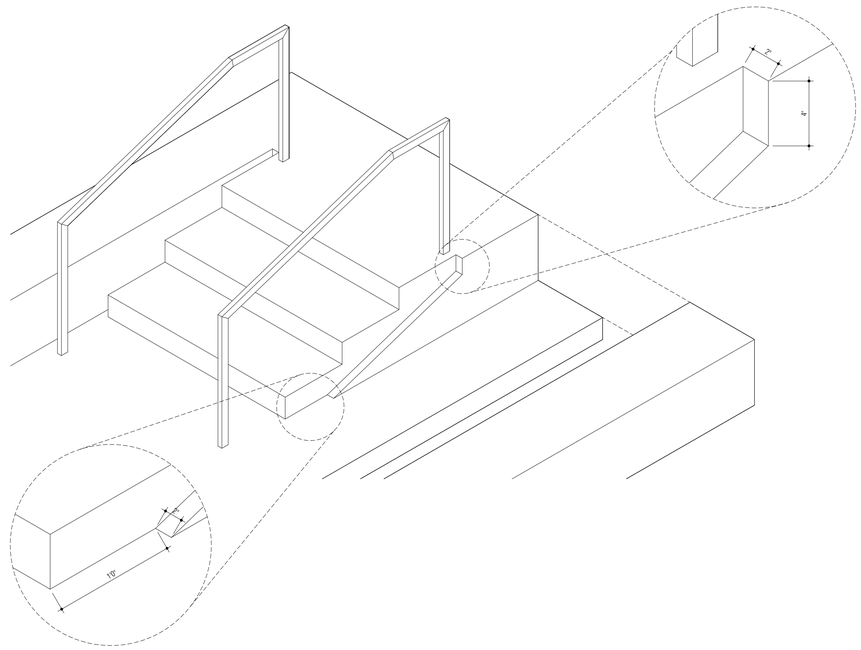
4 A-4.0



Stair - Plan

SCALE : ½" = 1'-0"

5 A-4.0



Stair Drainage - Axo

NOT TO SCALE

6 A-4.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/jx.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
LIC. MXX DCCC III
EXP. 19 X 2025
puerto rico

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y/O ESPECIFICACIONES, Y QUE ESTOS PLANOS Y/O ESPECIFICACIONES QUE ENCABEZO JUNTO A MI NOMBRE CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CUERPO GUBERNAMENTALES CON JURISDICCIÓN SOBRE LA OBRA. TAL CERTIFICACIÓN NO SE EXTIENDE A ASUNTOS ESTRUCTURALES, MECÁNICOS, ELÉCTRICOS, PLANOS Y ESPECIFICACIONES QUE NO HAN SIDO PREPARADOS, CUMPLIDO, CABALMENTE POR MÍ O BAJO MI SUPERVISIÓN DIRECTA. FIRMADO EN SAN JUAN, PUERTO RICO, HOY DÍA 19 DE OCTUBRE DE 2023. SEGÚN LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA, RECONOZCO QUE CUALQUIER PERSONA QUE PARA LA PREPARACIÓN DE PLANOS FALSOS FIRME, SELLE O CAMBIE LOS PLANOS QUE HAYAN SIDO SELLADOS POR OTRO INGENIERO, ARQUITECTO O ARQUITECTO PAISAJISTA, SIN EL CONSENTIMIENTO DE DICHO PROFESIONAL, ESTARÁ EMPLEANDO, O POR OTRO LADO, CON CONOCIMIENTO DE CAUSA, SELLANDO LOS PLANOS DE OTRO INGENIERO, ARQUITECTO O ARQUITECTO PAISAJISTA, ME HAGO RESPONSABLE DISCIPLINARIA POR LA VIOLACIÓN DE LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA, POR LA JUNTA EXAMINADORA DE INGENIEROS, ARQUITECTOS Y ARQUITECTOS PAISAJISTAS DE PUERTO RICO Y EL ESTUDIO LLC. AND SHALL BE LIABLE TO SAID BOARD.

M.I.N.T.S.
STUDIO LLC
POR: JM
JULIÁN MANRÍQUEZ BOTELLO, ARQ. LIC. NÚM. 19803
EXPIRA: 19 DE OCTUBRE DE 2023

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Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Stairs Plans & Details

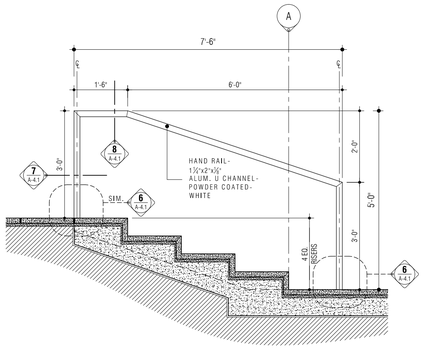
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
32	krs/rdc 26.vi.2024

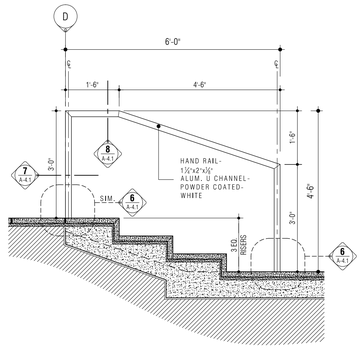
DISCIPLINE

A-4.0



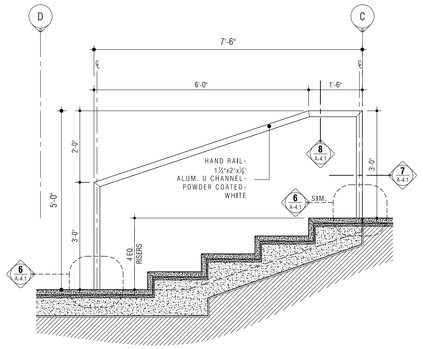
Stair - Section 1

SCALE : ½" = 1'-0" A-4.1



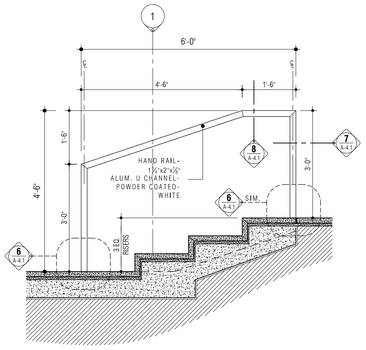
Stair - Section 2

SCALE : ½" = 1'-0" A-4.1



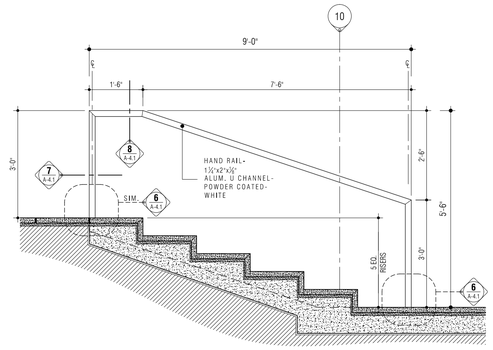
Stair - Section 3

SCALE : ½" = 1'-0" A-4.1



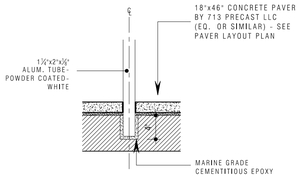
Stair - Section 4

SCALE : ½" = 1'-0" A-4.1



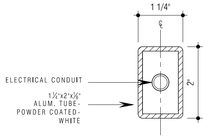
Stair - Section 5

SCALE : ½" = 1'-0" A-4.1



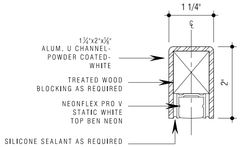
Detail 6

SCALE : 1" = 1'-0" A-4.1



Detail 7

SCALE : 6" = 1'-0" A-4.1



Detail 8

SCALE : 6" = 1'-0" A-4.1

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL



CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y/O ESPECIFICACIONES, Y QUE ESTOS PLANOS Y/O ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE ESTA OBRA. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1988, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA TERMINACIÓN Y CON SEGURIDAD PARA EDIFICIOS PÚBLICOS", Y CUALQUIER OTRA LEY O REGLAMENTO QUE REQUIERA QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLAN CABALMENTE CON LA MISMA. ASIMISMO, RECONOZCO QUE CUALQUIER CAMBIO A ESTOS PLANOS Y ESPECIFICACIONES QUE NO HAYA SIDO DEBIDAMENTE APROBADO POR LA AGENCIA CORRESPONDIENTE, CONFORME A LA LEY ANTES MENCIONADA, PODRÍA RESULTAR EN LA IMPOSICIÓN DE MULTAS ADMINISTRATIVAS Y EN LA REVOCACIÓN DE LOS PERMISOS OTORGADOS. POR LA PRESENTE, ME HAGO RESPONSABLE DE CUALQUIER VIOLACIÓN A DICHAS DISPOSICIONES Y ME COMPROMETO A CORREGIR CUALQUIER DEFICIENCIA QUE SEÑALE LA AGENCIA CORRESPONDIENTE, POR LA PRESENTE, ME HAGO RESPONSABLE DE CUALQUIER VIOLACIÓN A DICHAS DISPOSICIONES Y ME COMPROMETO A CORREGIR CUALQUIER DEFICIENCIA QUE SEÑALE LA AGENCIA CORRESPONDIENTE, CON MI CONOCIMIENTO PROFESIONAL Y EN CUMPLIMIENTO CON LA ACCIÓN JUDICIAL Y ADMINISTRATIVA VIGENTE. FIRMO ESTO EL 26 DE JUNIO DE 2024.

I, JULIAN MANRIQUEZ BOTELLO, LICENSE 19803, CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED, COMPOSED AND PREPARED THESE PLANS AND/OR SPECIFICATIONS, AND THAT THESE PLANS AND/OR SPECIFICATIONS COMPLY WITH THE APPLICABLE REGULATIONS AND CONSTRUCTION CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION OVER THIS WORK. THESE PLANS AND SPECIFICATIONS FULLY COMPLY WITH LAW NUMBER 96 OF JULY 6, 1988, AS AMENDED, KNOWN AS THE "LAW FOR THE CONSTRUCTION AND SAFETY OF PUBLIC BUILDINGS", AND WITH ANY OTHER LAW OR REGULATION THAT REQUIRES THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH THE SAME. FURTHERMORE, I RECOGNIZE THAT ANY CHANGE TO THESE PLANS AND SPECIFICATIONS THAT HAS NOT BEEN DULY APPROVED BY THE CORRESPONDING AGENCY, IN ACCORDANCE WITH THE LAW MENTIONED ABOVE, COULD RESULT IN THE IMPOSITION OF ADMINISTRATIVE FINES AND IN THE REVOCATION OF THE GRANTED PERMITS. BY THIS PRESENT, I HOLD MYSELF RESPONSIBLE FOR ANY VIOLATION TO SAID PROVISIONS AND I COMMIT MYSELF TO CORRECT ANY DEFICIENCY THAT THE CORRESPONDING AGENCY POINTS OUT, WITH MY PROFESSIONAL KNOWLEDGE AND IN COMPLIANCE WITH THE JUDICIAL AND ADMINISTRATIVE ACTION IN FORCE. I SIGN THIS ON JUNE 26, 2024.

SIGNED: ANY TOTAL OR PARTIAL REPRODUCTION OR USE OF SAID DOCUMENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT AND SHALL BE SUBJECT TO RETRIBUTION.
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e-mail: info@formationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

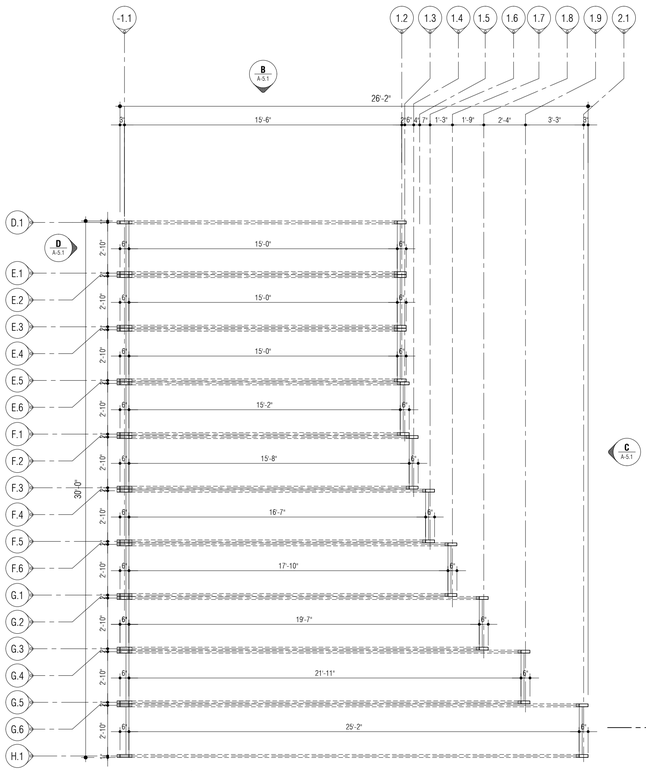
Stairs Section & Details

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET NO.	DRAWN BY / DATE
33	krs/rdc 26.vi.2024

DRAWING NAME

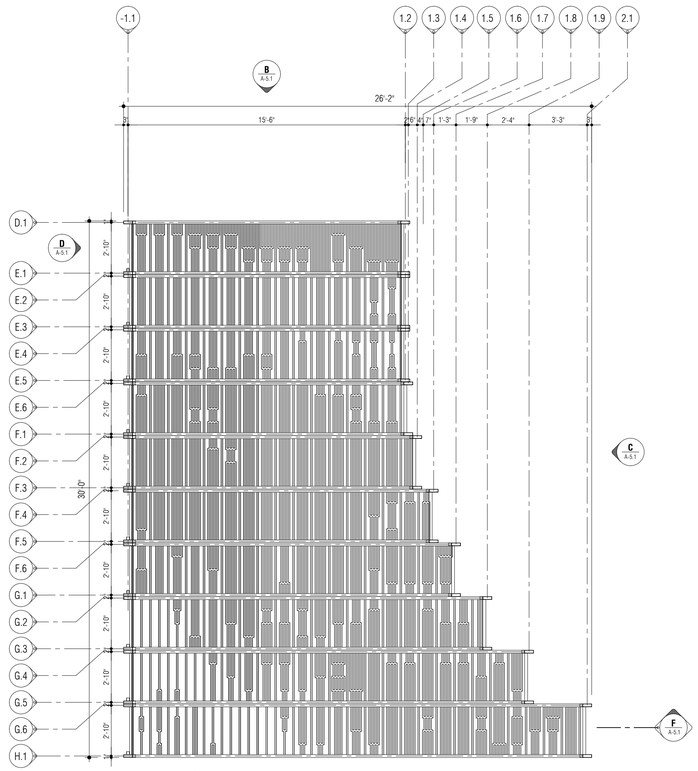
A-4.1



Gallery - Layout Plan

SCALE : ¼" = 1'-0"

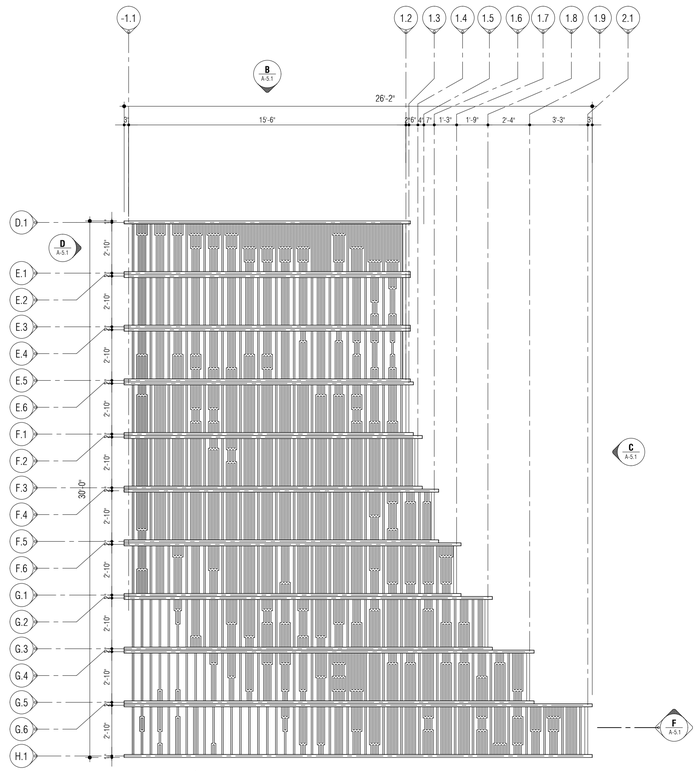
1 A-5.0



Gallery - Reflected Ceiling Plan

SCALE : ½" = 1'-0"

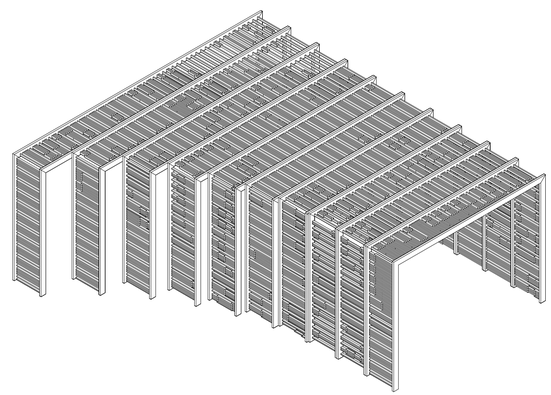
2 A-5.0



Gallery - Roof Plan

SCALE : ¼" = 1'-0"

3 A-5.0



Gallery - Axon

NOT TO SCALE

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

julián manríquez botello
puerto rico
LIC. MXX DCCC III
EXP 19 X 2025

CERTIFICACIÓN - CERTIFICATE - CERTIFICADO

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y/O ESPECIFICACIONES, Y QUE ESTOS PLANOS Y/O ESPECIFICACIONES QUE EXISTEN EN LOS PLANOS Y/O ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CUERPO GUBERNAMENTAL CORRESPONDIENTE.

NACIÓN DE CONES SE HA CUMPLIDO CABALMENTE CON LA LEY QUE REGULA EL EJERCICIO DE LA PROFESIÓN DE ARQUITECTURA EN PUERTO RICO Y CUMPLIDO CABALMENTE CON LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA, Y CON LA LEY NÚMERO 173 DE 12 DE AGOSTO DE 1988, SEGÚN ENMENDADA. SE HACE PRO-PIA ESTA CERTIFICACIÓN PARA LA TRAMITACIÓN DE PERMISOS ANTE LA OFICINA DE GERENCIA PARA EL DESARROLLO SOCIOECONÓMICO (OGPE) Y/O CUALQUIER OTRA AGENCIA GUBERNAMENTAL, MUNICIPIO, CORPORACIÓN PÚBLICA, JUNTA REGLAMENTADORA O CUERPO GUBERNAMENTAL QUE LO REQUIERA.

DA YA SEA POR ESCRITO, VERBAL O ELECTRÓNICO, A MENOS QUE SEA AUTORIZADO POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRO PROFESIONAL CON LA DEBIDA AUTORIZACIÓN.

DE CUALQUIER ACCIÓN JUDICIAL Y/O ADMINISTRATIVA QUE PUEDA SURGIR POR LA UTILIZACIÓN NO AUTORIZADA DE ESTOS PLANOS.

TUAL PROPIEDAD INTELECTUAL DE ESTOS PLANOS Y/O ESPECIFICACIONES, Y QUE LOS MISMOS NO PODRÁN SER REPRODUCIDOS, MODIFICADOS O UTILIZADOS EN OTRO PROYECTO SIN MI AUTORIZACIÓN ESCRITA.

EN SAN JUAN, PUERTO RICO, HOY DÍA 19 DE OCTUBRE DE 2023.

JULIÁN MANRÍQUEZ BOTELLO
LICENCIA NÚM. 19803
EXPIRA EL 19 DE OCTUBRE DE 2025

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mulick, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

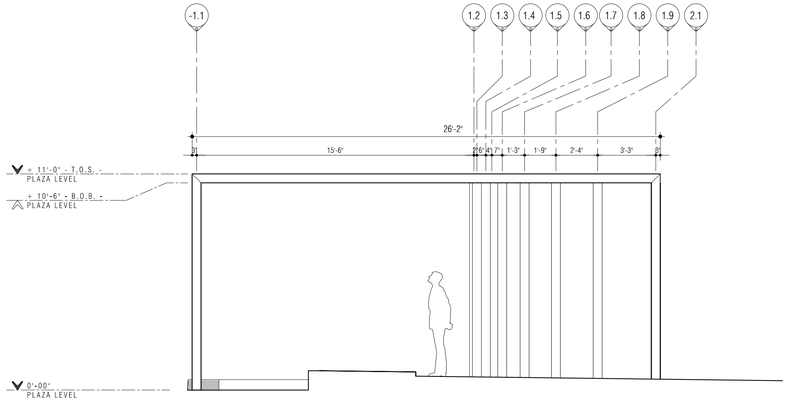
OWN. TITLE

Gallery Layout Plan

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT # 22-03
PROJECT PHASE Construction Docs - 100%
SHEET # 34
DISCIPLINE
DRAWN BY krs/rdc
DATE 26.vi.2024

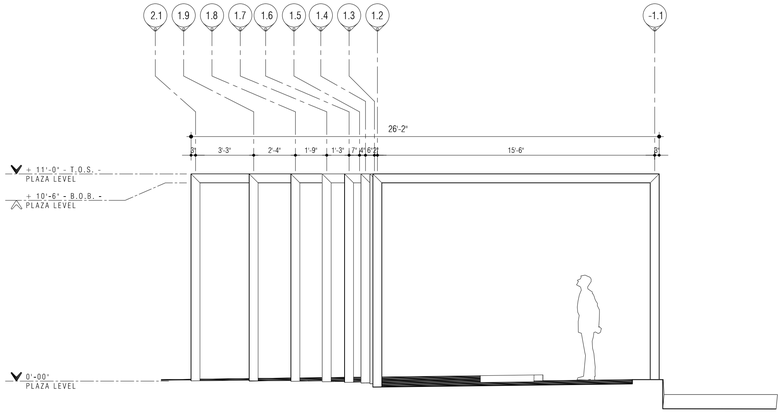
A-5.0



Gallery - Elevation

SCALE : ¼" = 1'-0"

A
A-5.1



Gallery - Elevation

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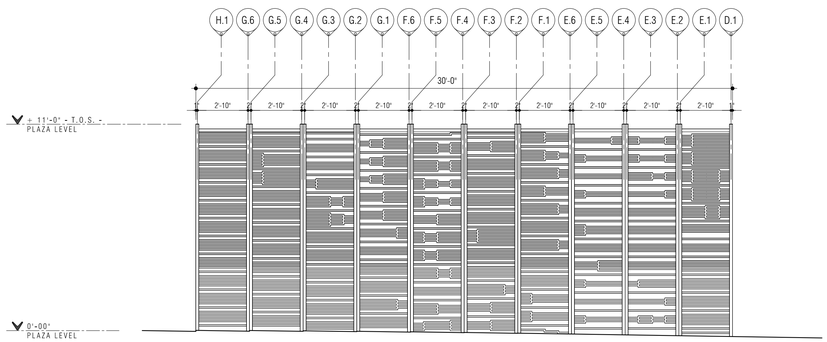
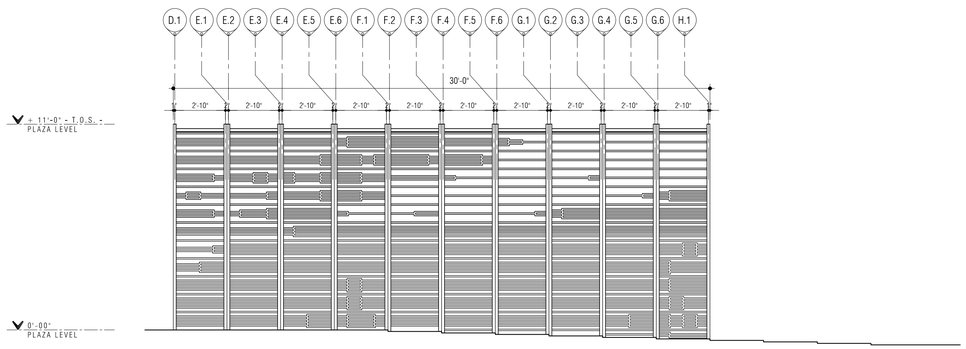
A-5.1



Gallery - Elevation

SCALE : ¼" = 1'-0"

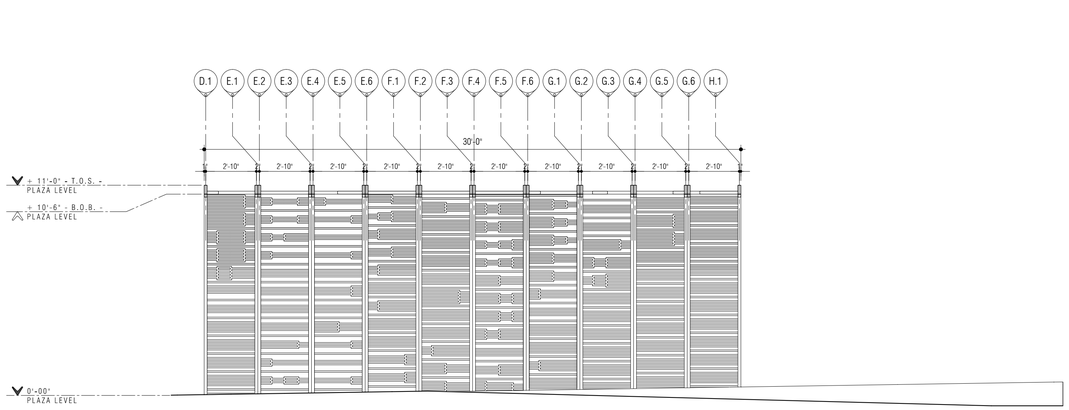
C
A-5.1



Gallery - Elevation

SCALE : ¼" = 1'-0"

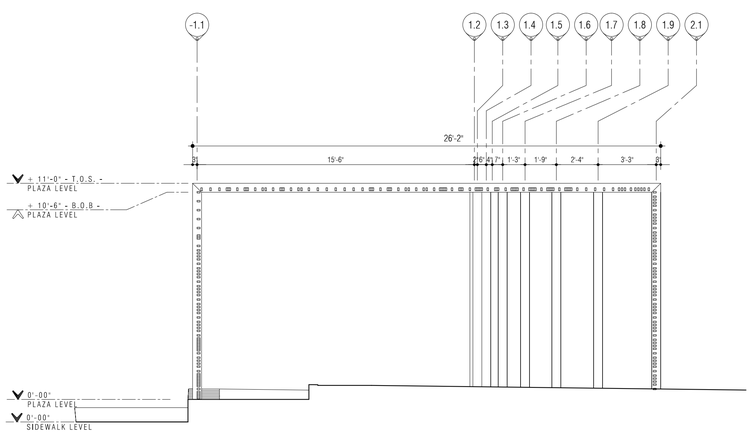
D
A-5.1



Gallery - Section

SCALE : ¼" = 1'-0"

E
A-5.1



Gallery - Section

SCALE : ¼" = 1'-0"

F
A-5.1

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. MKK DCCC III
EXP. 19 X 2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y/O ESPECIFICACIONES, Y QUE POR MI CONOCIMIENTO Y MI LEAL SABER Y ENTENDER, ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE LA OBRA. TAMBIÉN CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LOS DESEOS DEL DUEÑO DE LA OBRA EN CUANTO A LA CALIDAD DE MATERIALES, EMBELLECIMIENTO, CONDICIONES AMBIENTALES, ETC., SEGÚN ENMENDADA POR LA CARTA NORMATIVA NÚM. 3 DE 1994, Y CON LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA POR LA LEY NÚMERO 76 DEL 5 DE JUNIO DE 2000, Y QUE SE HARÁ RESPONSABLE POR CUALQUIER VIOLACIÓN A DICHAS LEYES Y REGLAMENTOS QUE SE HAYA PROMULGADO O ENMENDADO POR LA OFICINA DE GOBERNADOR O LA ASAMBLEA LEGISLATIVA, SUS AGENCIAS, O JUNTAS REGLAMENTADORAS, EXCEPTO AQUELLOS CAMBIOS O POR SOLICITUDES DE CAMBIOS QUE SEAN SOMETIDOS POR ESCRITO POR EL DUEÑO DE LA OBRA, SUS AGENTES, O EMPLEADOS, O POR OTRAS PERSONAS QUE ACTÚEN CON CONOCIMIENTO Y CONSENTIMIENTO DEL DUEÑO DE LA OBRA. ME HAGO RESPONSABLE POR CUALQUIER ACCIÓN, JUDICIAL Y/O ADMINISTRATIVA, QUE PUEDA RESULTAR DE LA PREPARACIÓN Y SELLADO DE ESTOS PLANOS Y ESPECIFICACIONES POR PARTE DE UNA PERSONA QUE NO CUMPLA CON LA DISCIPLINA APLICABLE DE INGENIERÍA O ARQUITECTURA.

FIRMADO EN SAN JUAN, PUERTO RICO, EL DÍA 19 DE OCTUBRE DE 2023.

DISCLAIMER - ANY TOTAL, PARTIAL REPRODUCTION OR USE OF SAID DOCUMENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT AND SHALL BE LIABLE TO ITS INFORMATION

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e-mail: info@informationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderon Musica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Gallery Elevations & Sections

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #
22-03

PROJECT PHASE
Construction Docs - 100%

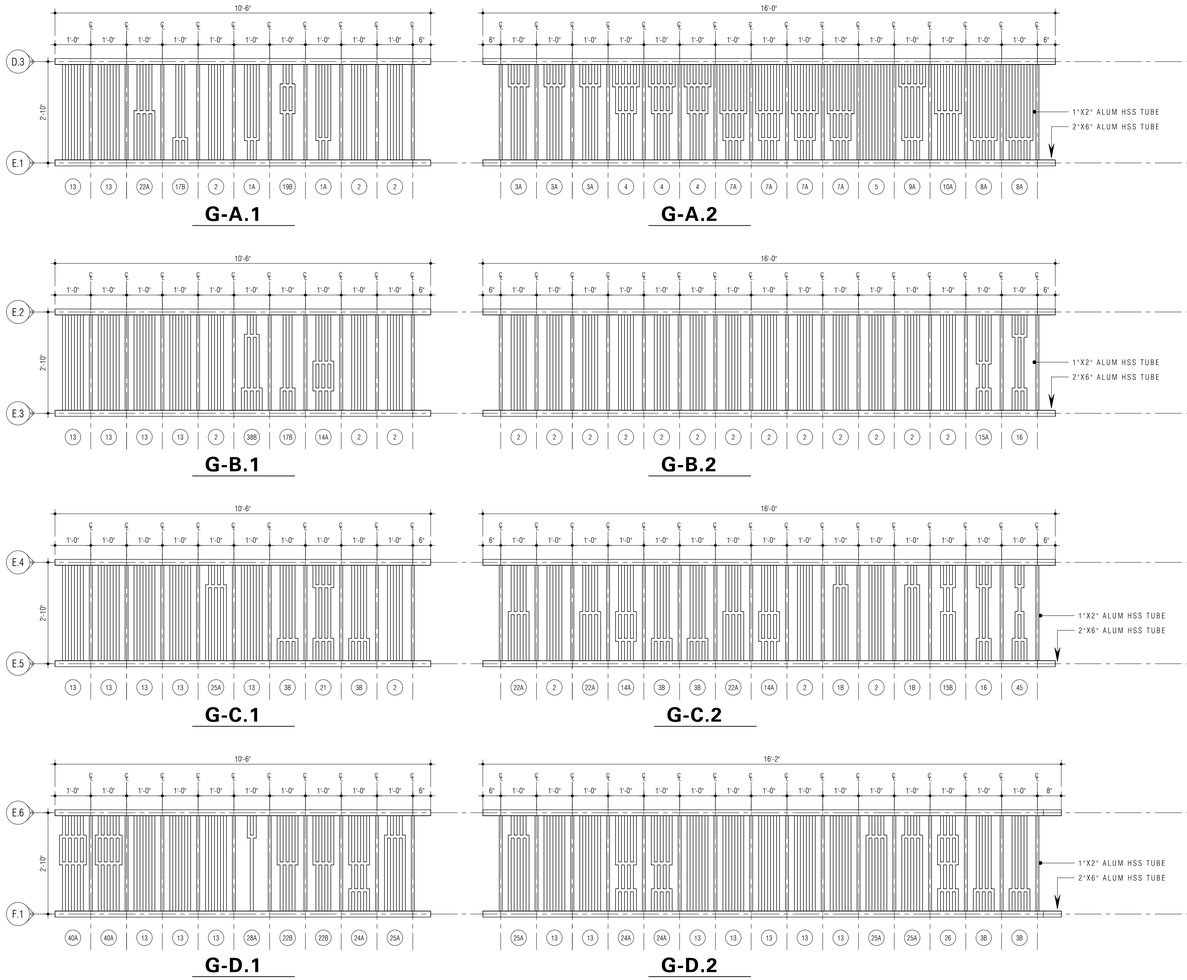
SHEET #
35

DRAWN BY
krs/rdc

DATE
26.vi.2024

DISCIPLINE

A-5.1



Gallery - Unfolded Layout

SCALE : ½ " = 1'-0"

A

A-5.2

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

julián manríquez bottelo puerto rico

LIC. MAY DCCC 19
EXP. 19 X 2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTTELO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y/O ESPECIFICACIONES, Y QUE ESTOS PLANOS Y/O ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE LA OBRA. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NÚMERO 96 DEL 5 DE JULIO DE 1985, ENMENDADA, CONOCIDA COMO LA "LEY ORGÁNICA DE LA OFICINA DEL INSPECTOR DE CONSTRUCCIÓN", Y CON LA LEY NÚMERO 76 DEL 5 DE AGOSTO DE 1975, ENMENDADA, QUE CREA LA JUNTA DE PLANIFICACIÓN, REGLAMENTOS Y PERMISOS, Y QUE REGULA EL DESARROLLO DE TERRENOS Y LA CONSTRUCCIÓN DE EDIFICIOS EN EL ESTADO LIBRE ASOCIADO DE PUERTO RICO. ESTOY AUTORIZADO A PRESENTAR ESTOS PLANOS Y ESPECIFICACIONES PARA SU APROBACIÓN POR LA AUTORIDAD CORRESPONDIENTE. ESTOY DEBIDAMENTE AUTORIZADO POR LA LEY PARA EJERCER LA PROFESIÓN DE INGENIERÍA EN PUERTO RICO. ESTOY CONSCIENTE DE QUE CUALQUIER ALTERACIÓN A ESTOS PLANOS Y ESPECIFICACIONES, SIN MI CONSENTIMIENTO Y APROBACIÓN POR ESCRITO, ME HACE RESPONSABLE DISCIPLINARIA POR LA ACCIÓN JUDICIAL Y ADMINISTRATIVA QUE PUEDA SURGIR. ESTOY DE ACUERDO EN QUE EL ESTUDIO LLC. AND SHALL BE NOTIFIED TO INFORMATION STUDIO.

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Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Gallery - Unfolded Layout Plan

OWNER

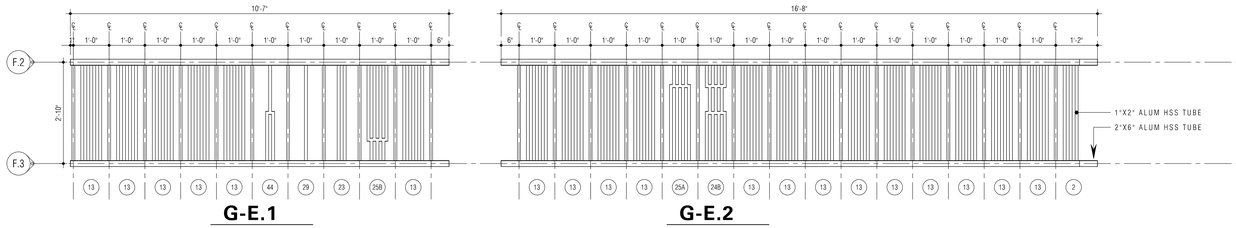
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
36	krs/rdc	26.vi.2024

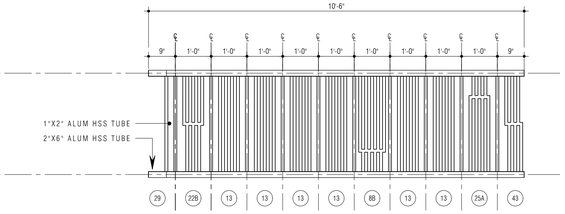
DRAWING

A-5.2



G-E.1

G-E.2



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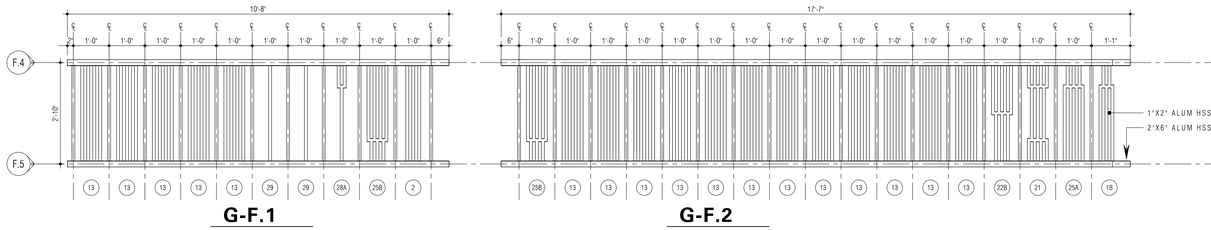

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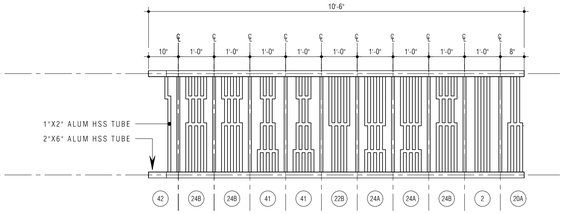

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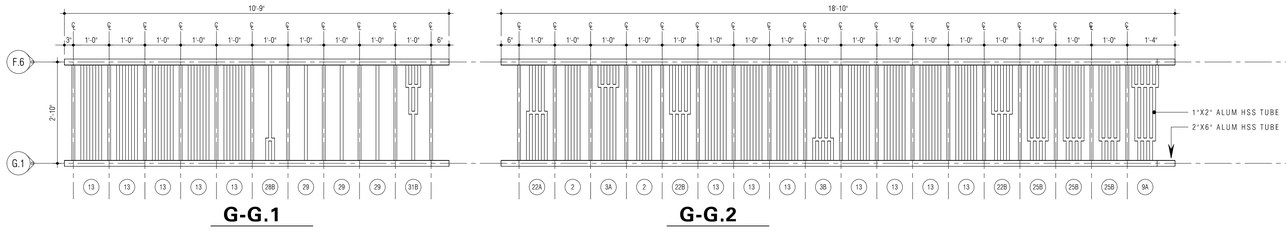

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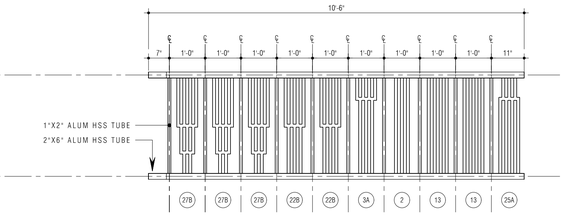
G-G.2



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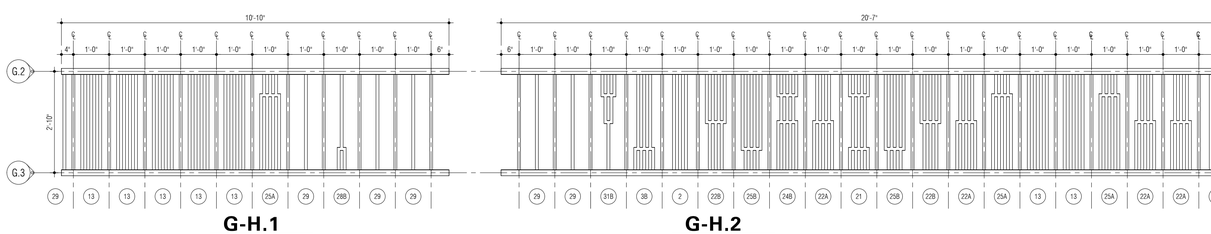

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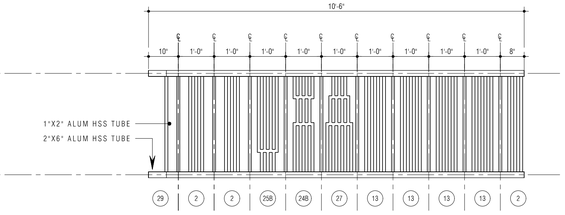

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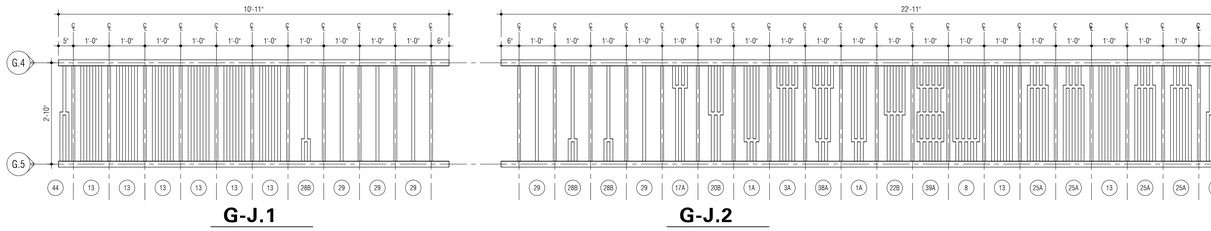

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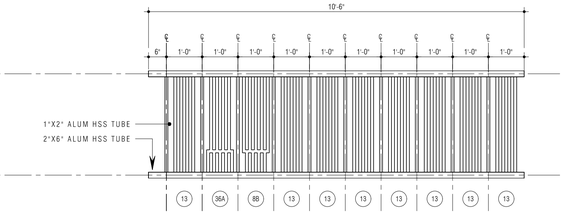

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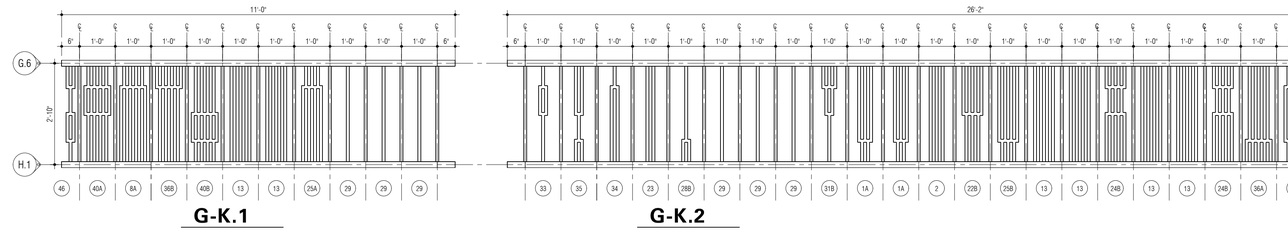
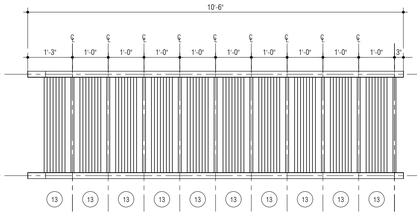


G-K.1

G-K.2



G-K.3

Gallery - Unfolded Layout

SCALE : ½" = 1'-0"

A
A-5.3

Notes:

1.0 Do not scalle dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

julián manriquez botello puerto rico
LIC. MXX DCCC III
EXP. 19 X 2025

CERTIFICACIÓN - CERTIFICATE - NEW YORK

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE ESTE EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS Y/O ESPECIFICACIONES, Y QUE ESTOS PLANOS Y/O ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O COMPAÑIAS PUBLICAS CON JURISDICCION SOBRE LA OBRA. TAL CERTIFICACION SE HACE BAJO LA GRAVEDAD DEL JURAMENTO.

ESTOS PLANOS Y ESPECIFICACIONES HAN SIDO PREPARADOS CUMPLIENDO CABALMENTE CON LA LEY DE DISEÑO Y DIMENSIONES UNIFORMES (UNIFORM CODE) PARA LA ARQUITECTURA Y CON EL DISEÑO EMBARGADA POR LA LEY NUMERO 96 DEL 6 DE JULIO DE 1978, ENMENDADA POR LA LEY NUMERO 76 DEL 5 DE AGOSTO DE 1994, RECONOZCO QUE CUALQUIER CAMBIO O POR VIOLACION, EMPLEADOS, O POR OTRAS PERSONAS QUE NO SEAN MI, MIS AGENTES, O EMPLEADOS, SIN MI CONSENTIMIENTO O CON MI CONOCIMIENTO ME HACEN RESPONSABLE DISCIPLINARIA POR LA ACCION JUDICIAL Y CIVIL PROPIA DE LA JURISDICCION DEL ESTADO LIBRE ASOCIADO DE PUERTO RICO.

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6177 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
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email: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

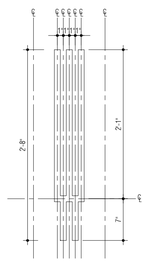
DWG. TITLE

Gallery - Unfolded Layout Plan

CLIENT
Municipality of Canóvanas - Hon. Lorna J. Soto

PROJECT # 22-03
PROJECT PHASE Construction Docs - 100%
SHEET # 37
DRAWN BY krs/rdc
DATE 26.vi.2024
DISCIPLINE

A-5.3



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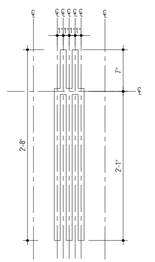

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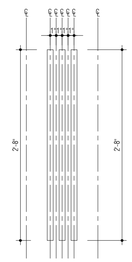

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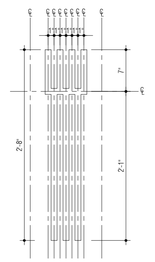

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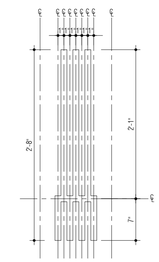

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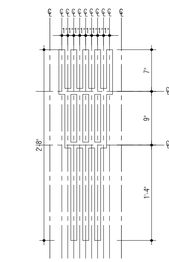

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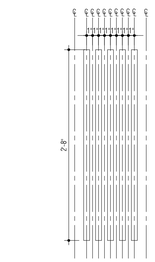

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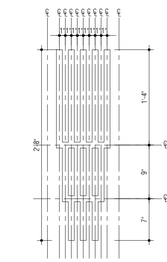

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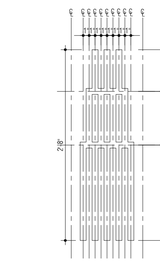

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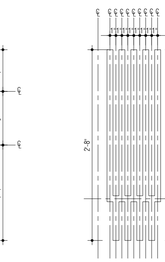

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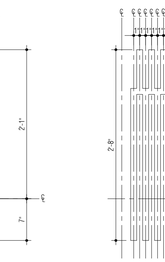

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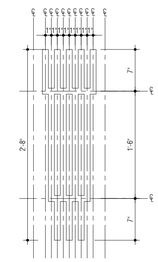

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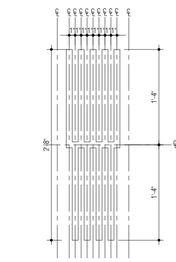

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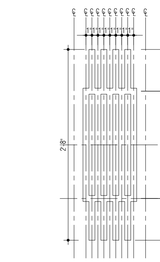

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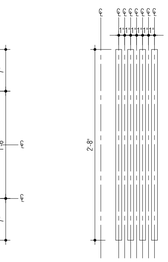

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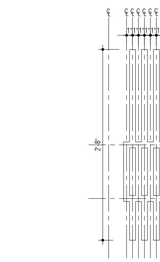

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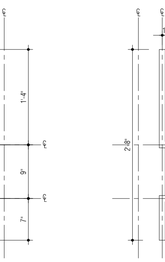

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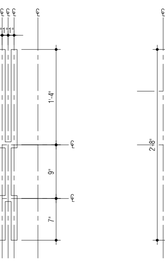

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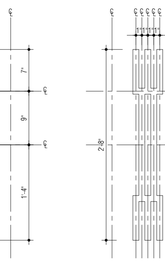

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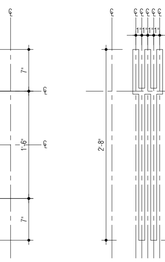

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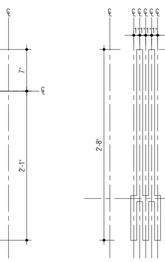

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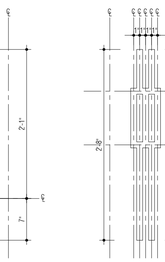

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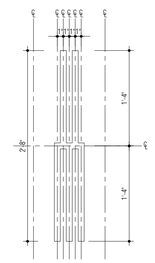

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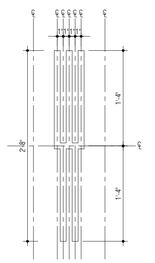

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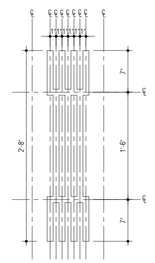

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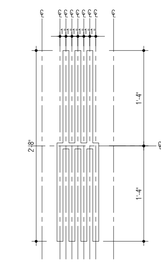

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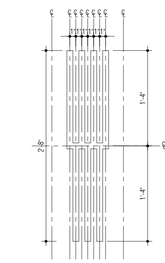

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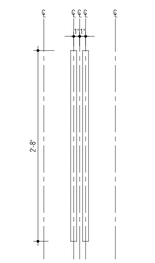

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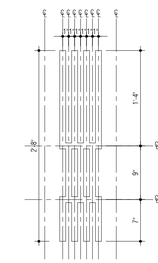

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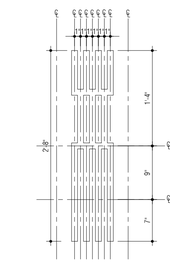

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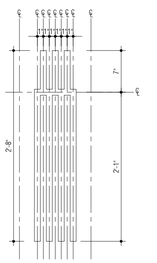

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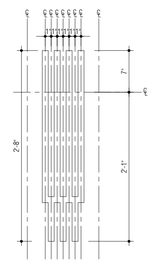

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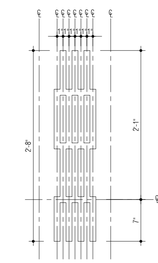

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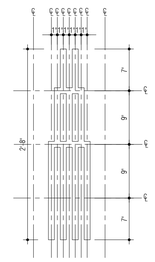

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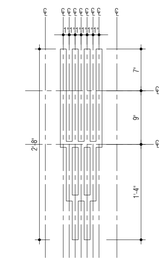
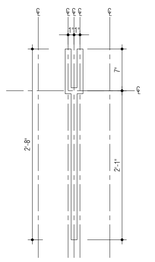


Type 27B

SCALE : 1 " = 1'-0"
QUANTITY: 3



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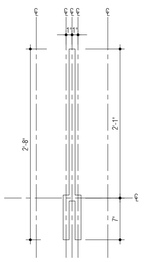

Type 28B

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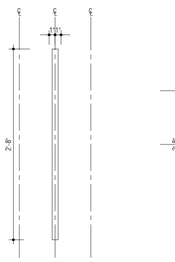

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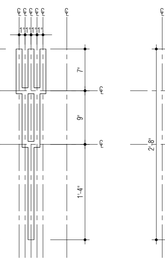

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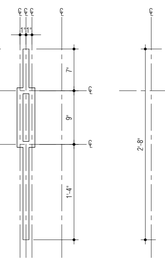

Type 33

SCALE : 1 " = 1'-0"
QUANTITY: 1

Type 34

SCALE : 1 " = 1'-0"
QUANTITY: 1

Type 35

SCALE : 1 " = 1'-0"
QUANTITY: 1

Type 36A

SCALE : 1 " = 1'-0"
QUANTITY: 2

Type 36B

SCALE : 1 " = 1'-0"
QUANTITY: 1

Notes:

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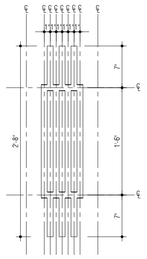
REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 11800, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS Y/O ESPECIFICACIONES Y QUE LOS MISMOS CERTIFICO QUE CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTE EN LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CUERPO GUBERNAMENTALES QUE TENGAN JURISDICCION SOBRE ESTOS PLANOS Y ESPECIFICACIONES. CUMPLIDO CABALMENTE CON LA LEY NUMERO 96 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA, CONOCIDA COMO



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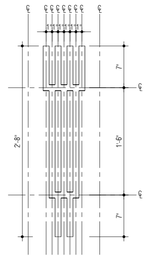

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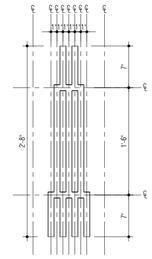

Type 38B

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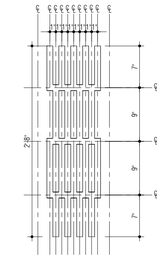

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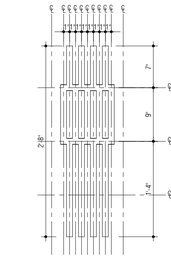

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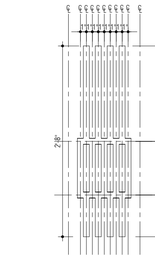

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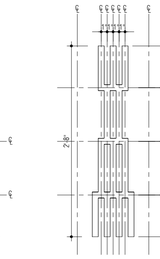

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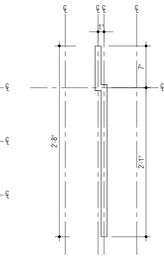

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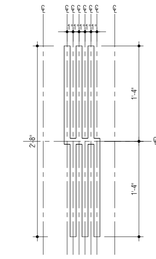

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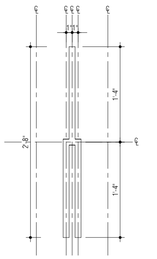

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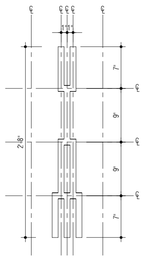

Type 45

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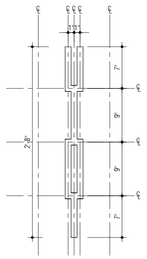
QUANTITY: 1



Type 46

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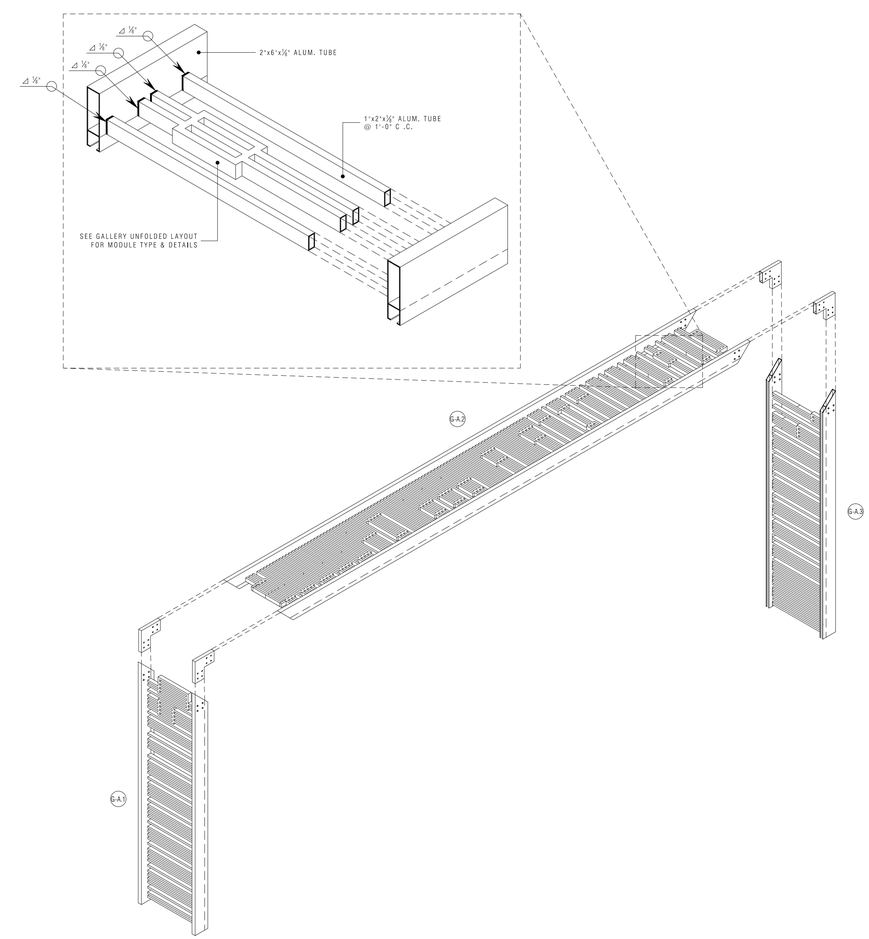

Gallery - Assembly Axon

NOT TO SCALE

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico
LIC. MKK DCCC III
EXP. 19/X/2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 11863, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. I, JULIÁN MANRÍQUEZ BOTELLO, LICENSE 11863, CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED, PLANNED AND PREPARED THESE PLANS.

Y BIEN CYT: CERTIFICO QUE EVIDENCIE QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE LA OBRA. TAL CERTIFICO, HAGO CONSTAR Y FIRMO. I CERTIFY THAT I HAVE EVIDENCED THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE CONSTRUCTION REGULATIONS AND CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION OVER THE WORK. SO I CERTIFY, MAKE CONSTAR AND SIGN.

NACIÓN DE CONKES SE HA 1 9 X 2 0 2 4. COMO LA 'LEY 3766 PUER- ARLO DE 1975 SE HACE RES- SE HARÁ RES- DA YA SEA POR P E R S O N A S DE CUALQUIER TIPO, INCLU- TUAL PROP- IE USED N, IN- ACIÓN- T-F-C.

SEGÚN PARA LA TERMINADA SEGÚN LO DISPUESTO EN LA MI MIS AGENTES O CON MI CONOCIMIENTO ACCIÓN JUDICIAL Y EXTRAJUDICIAL POR EL USO NO AUTORIZADO DE MI REFERENCIA DOCU- MENTO O DISEÑO AQUÍ PRESENTADO. AND PREPARED HEREIN.

DISEÑO. ANY TOTAL OR PARTIAL REPRODUCTION OR USE OF SAID DOCUMENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT PRIOR PERMISSION, CONSENT AND WRITTEN AUTHORIZATION OF THE ARCHITECTS. TO INFORMATION STUDIO.

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Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñoz, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

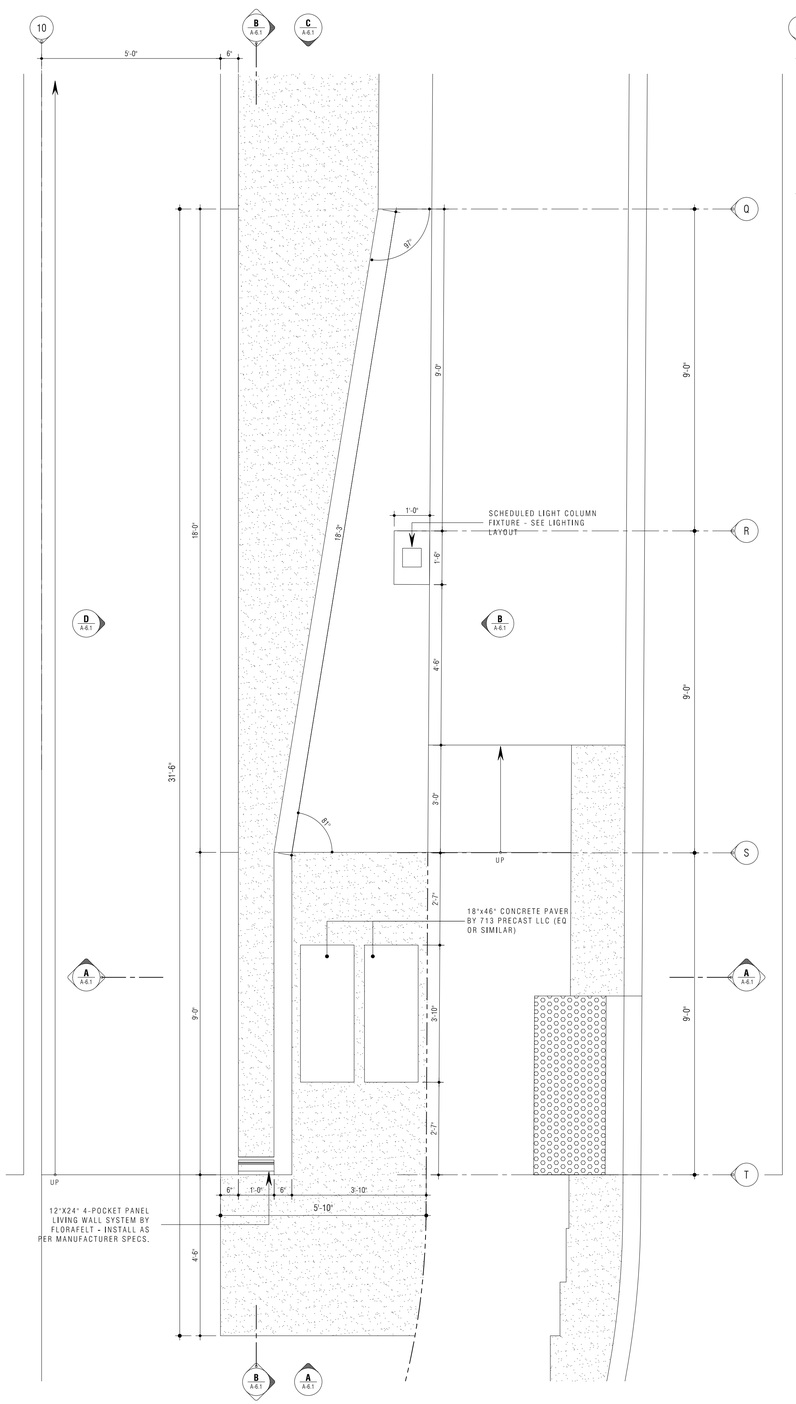
Module Assembly Type & Details Cont.

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
39	krs 26.vi.2024

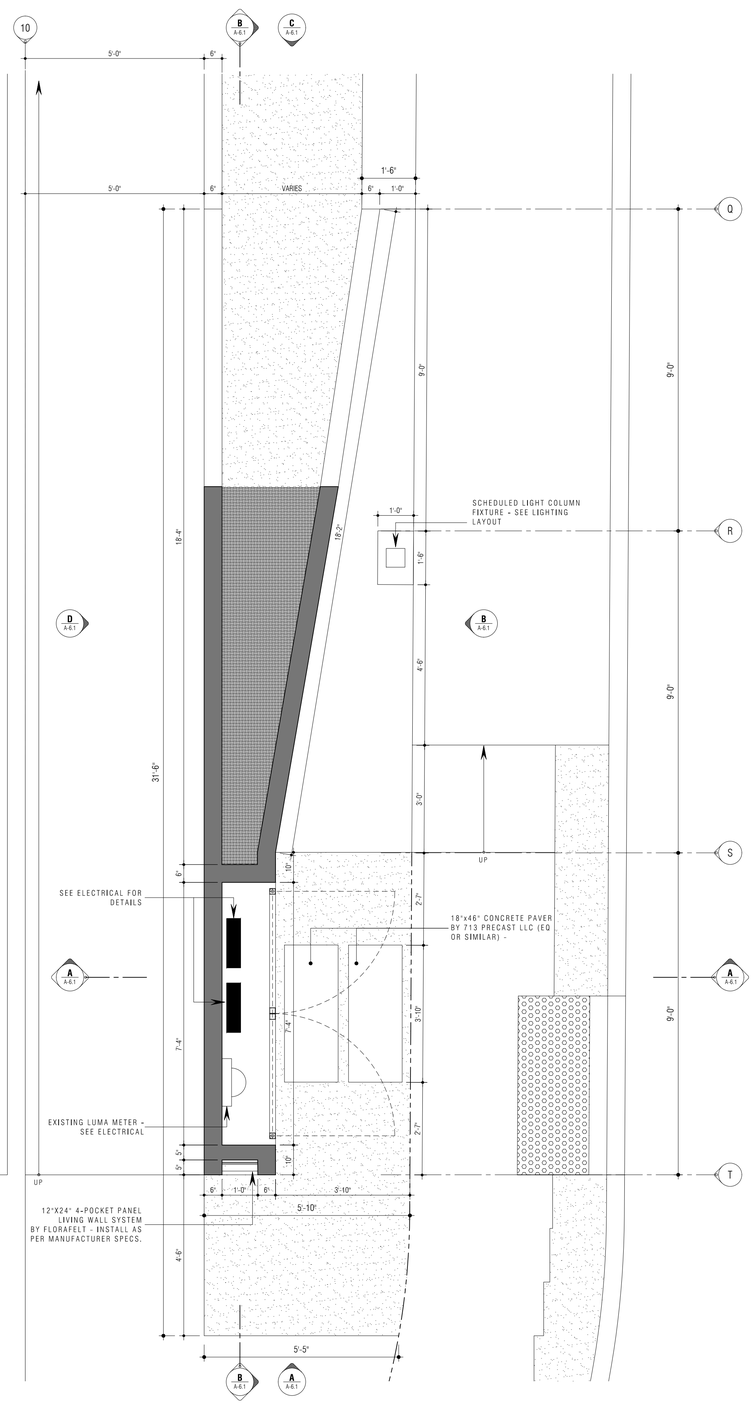
DISCIPLINE

A-5.5



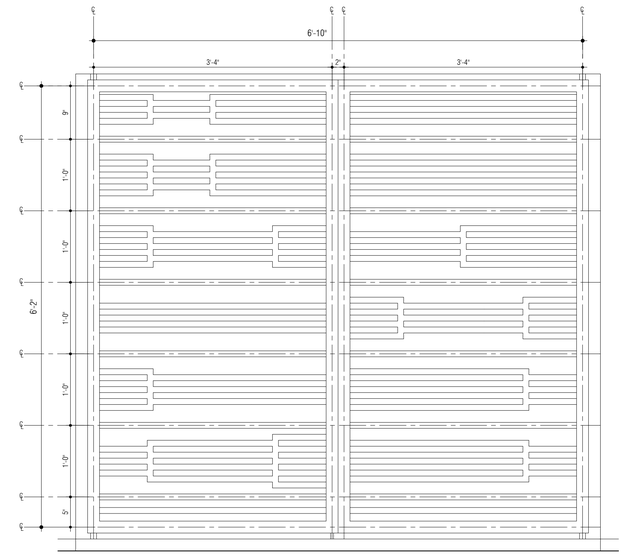
Electrical Closet - Roof Plan 1

SCALE : ½" = 1'-0" A-6.0



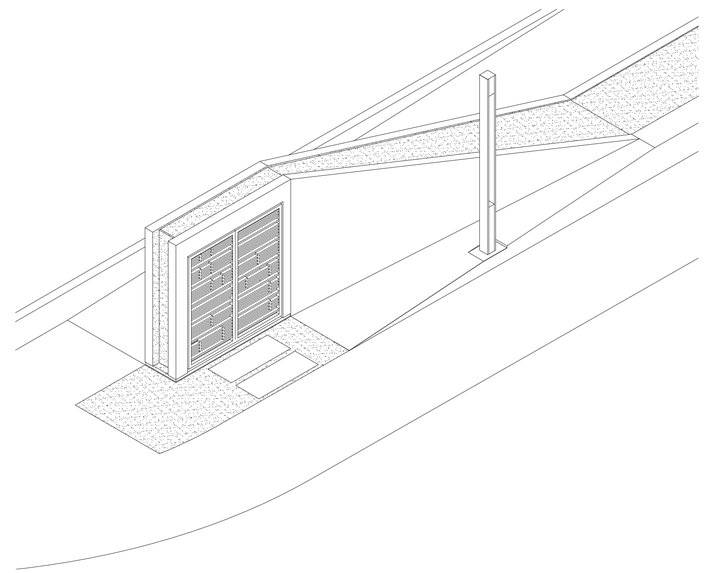
Electrical Closet - Floor Plan 2

SCALE : ½" = 1'-0" A-6.0



Electrical Closet - Door 3

SCALE : 1" = 1'-0" A-6.0



Electrical Closet - Axon 4

NOT TO SCALE A-6.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

julián manríquez bottello puerto rico

LIC. MAK 04CCE III
EXP. 19 X 2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARÓ ESTOS PLANOS Y/O ESPECIFICACIONES, Y QUE LOS MISMOS, POR LA PRESENTE, CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CUERPO GUBERNAMENTAL DE LA NACIÓN DE CONDES DE HA SIDO LA Y A.S.E.S.A. CUMPLIDO CABALMENTE CON LA LEY PARA LA TERMINACIÓN Y CON DISEÑO POR ESCRITO DE MI MARCA PROFESIONAL Y DE MIS AGENTES O EMPLEADOS, CON EL CONOCIMIENTO Y LA ACCIÓN JUDICIAL Y DISPOSICIÓN DE LA PROPIEDAD INTELECTUAL DEL PROYECTO. AS-A REFERENCE DOCUMENTS AND NOTES REGARDING AND OTHER PROJECT HEREIN.

SIGNED: ANY TOTAL PARTIAL REPRODUCTION OR USE OF SAID DOCUMENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT PRIOR PERMISSION, CONSENT AND SHALL BE ASSIGNED TO INFORMATION STUDIO.

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6777 Av. Isla Verde, Edificio Isla Verde Mall - Suite 231
Carolina, PR, 00979 - Office Tel. +1 (787) 256-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

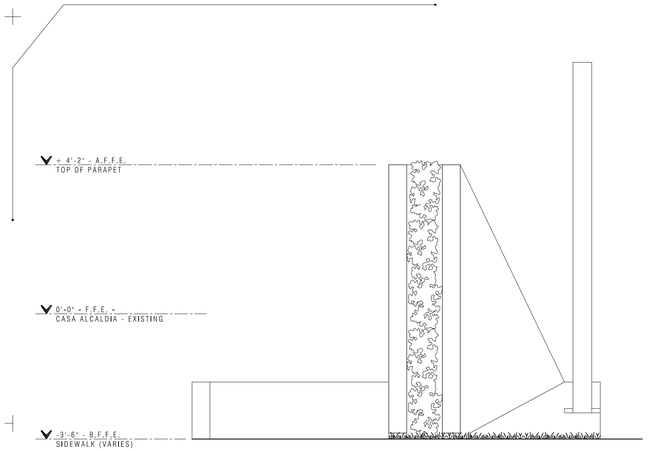
DWG. TITLE

Electrical Closet - Plans & Details

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

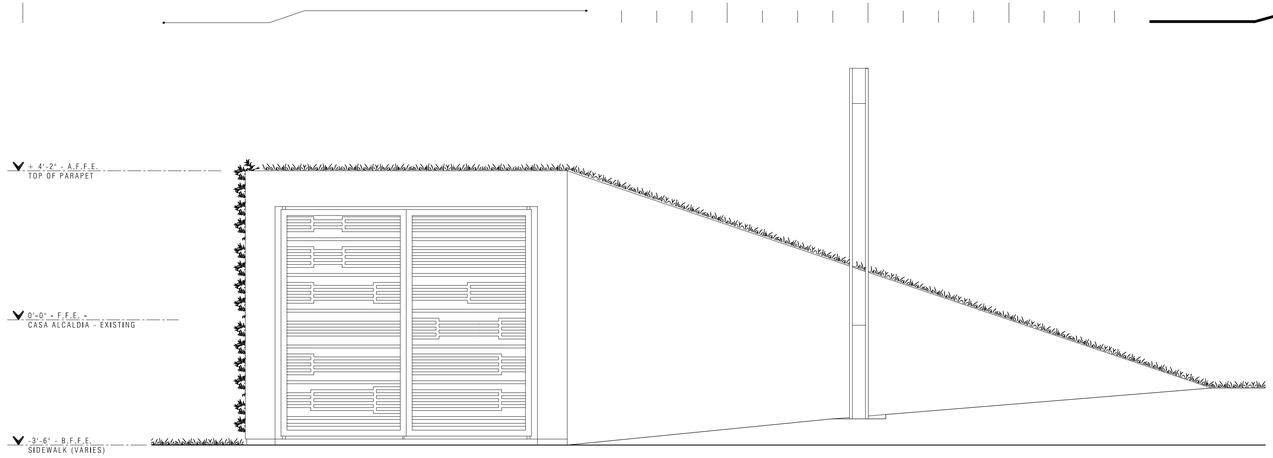
PROJECT # 22-03
PROJECT PHASE Construction Docs - 100%
SHEET # 40
DRAWN BY rdc
DATE 26.vi.2024
DISCIPLINE

A-6.0



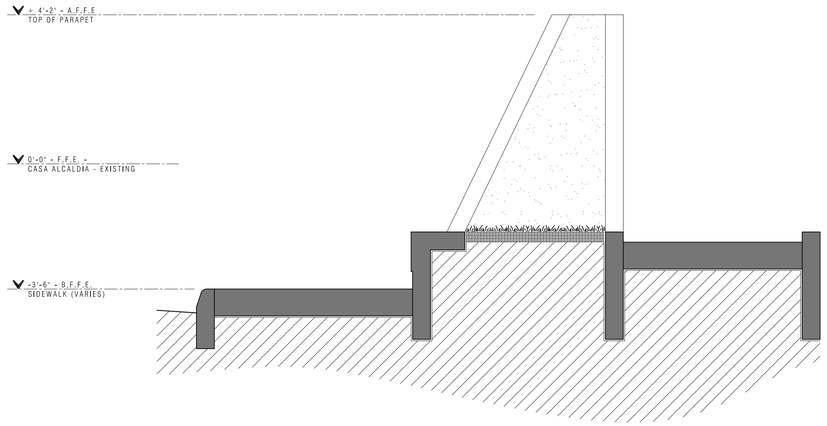
Elevation A

SCALE : ½" = 1'-0" A-6.1



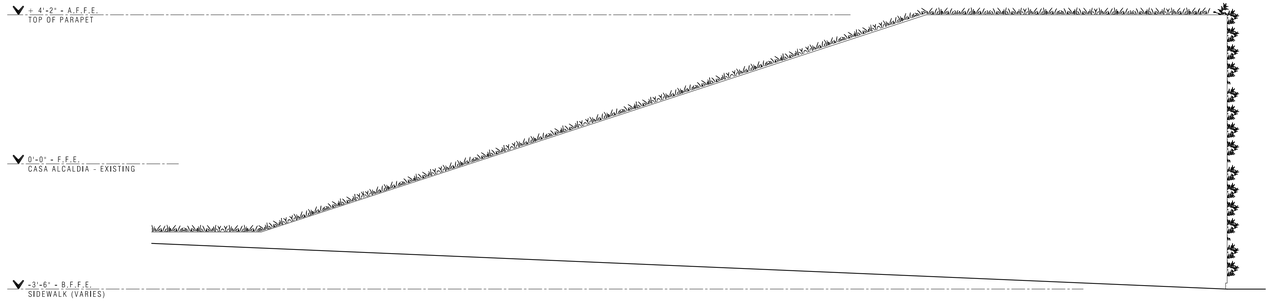
Elevation B

SCALE : ½" = 1'-0" A-6.1



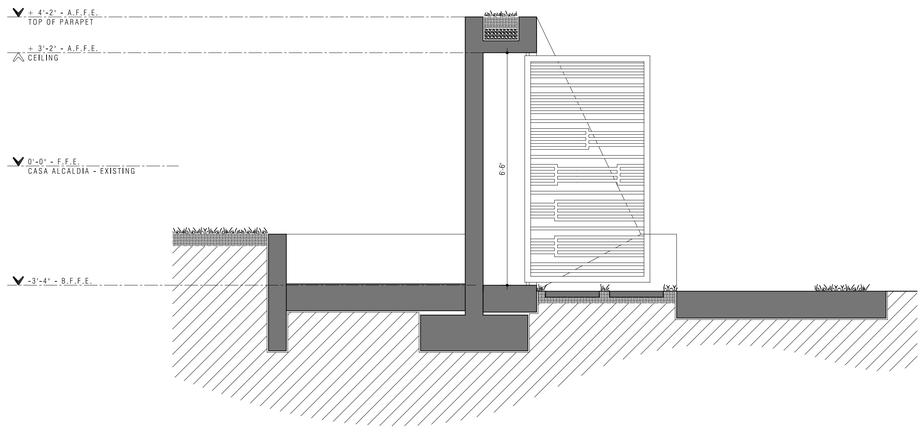
Elevation C

SCALE : ½" = 1'-0" A-6.1



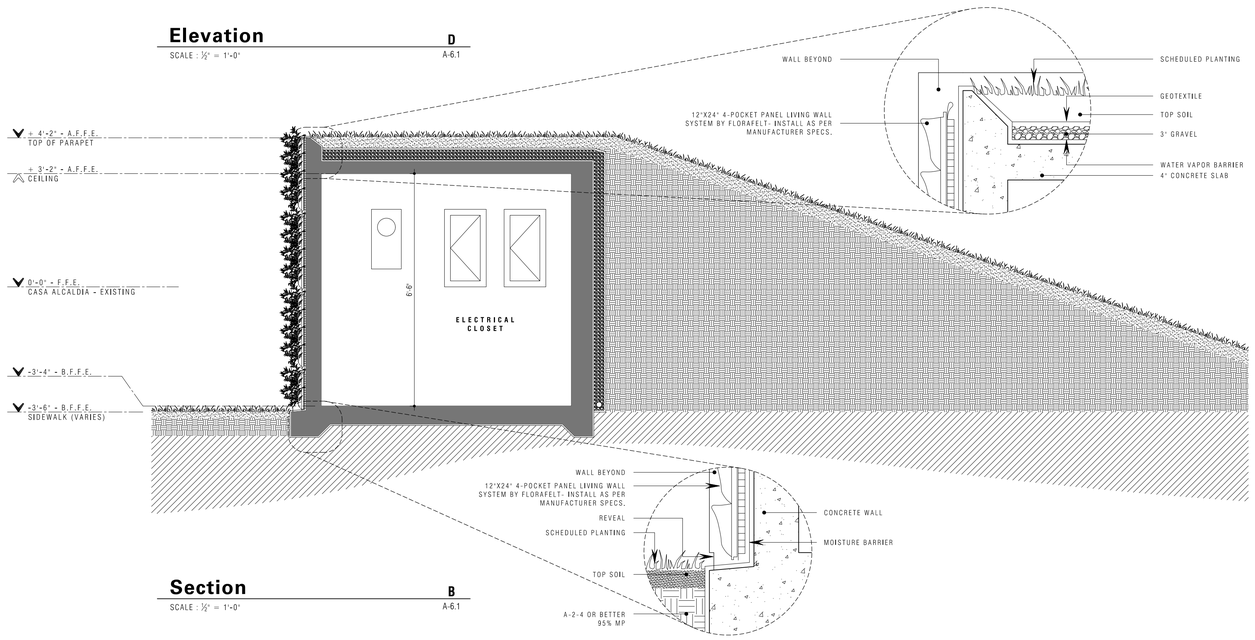
Elevation D

SCALE : ½" = 1'-0" A-6.1



Section A

SCALE : ½" = 1'-0" A-6.1



Section B

SCALE : ½" = 1'-0" A-6.1

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

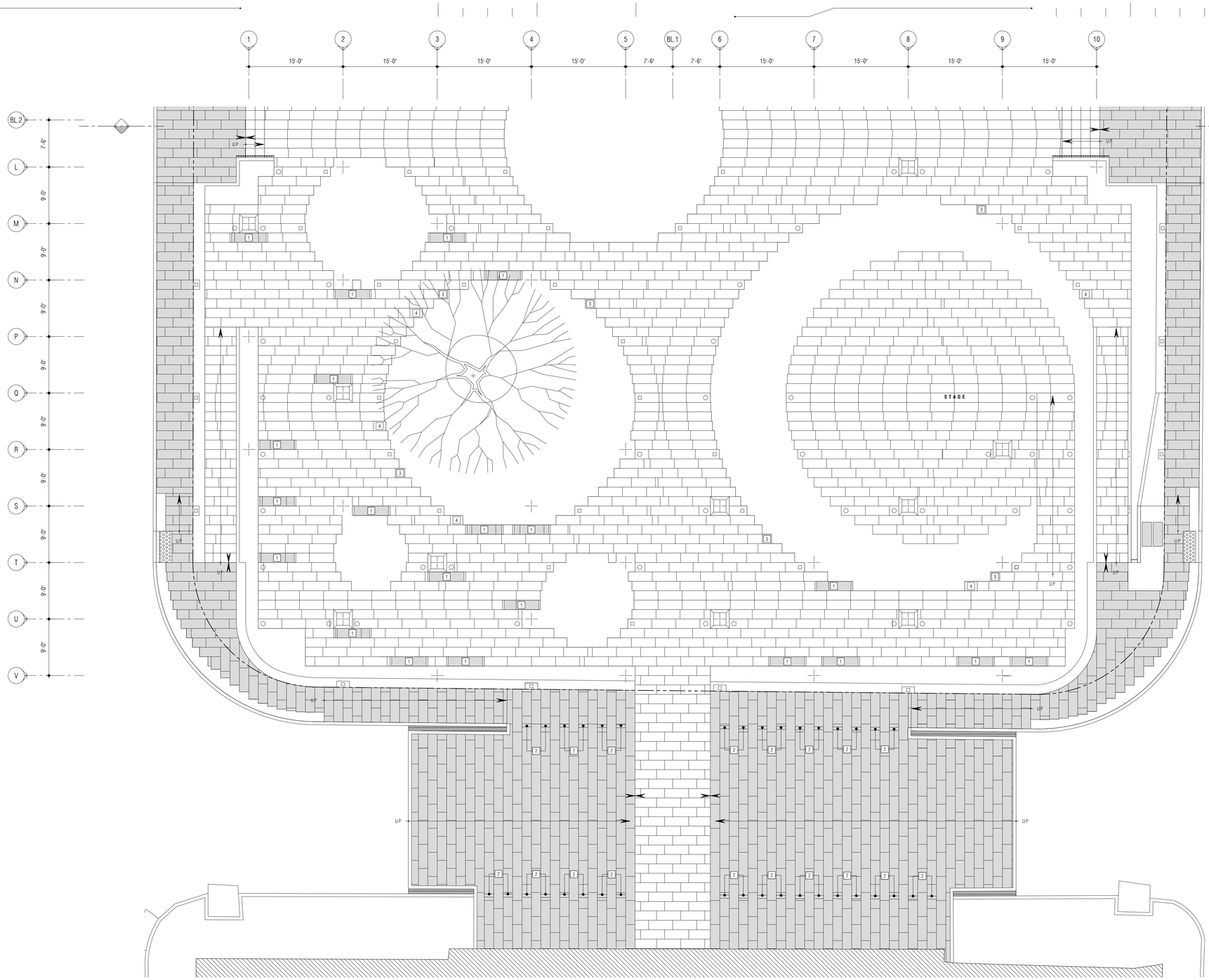
PROFESSIONAL SEAL

julián manríquez botello puerto rico

LIC. MSX 06CC III
EXP. 19 X 2025

CERTIFICACIÓN - COPYRIGHTS - VIEW NAME

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS Y QUE LA CONSTRUCCIÓN DE LA OBRA CONSIGNADA EN ESTOS PLANOS CERTIFICO QUE EVIDENCIE QUE DICHOS PLANOS Y ESPS. CUMPLIDO CABALMENTE CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPO- RACIONES PUBLICAS CON JURISDICCION SOBRE LA OBRA CONSIGNADA EN ESTOS PLANOS Y ESPECIFICA- CIONES. ESTOS PLANOS Y ESPECIFICA- CIONES CUMPLEN CABALMENTE CON LA LEY NUMERO 96 DE 15 DE JULIO DE 1978, SEGÚN ENMENDADA POR LA LEY NUMERO 76 DE 5 DE JUNIO DE 1994, PARA LA ELIMINACION DE BARRERAS ARQUITECTONICAS EN FAVOR DE PERSONAS IMPEDIDAS, SEGÚN ENMENDADA POR LA LEY NUMERO 96 DE 15 DE JULIO DE 1978, Y CON EL REGLAMENTO PARA EL DISEÑO DE ACCESO FISICO PARA PERSONAS IMPEDIDAS, ADOPTADO POR LA JUNTA DE PLANIFICACION EL 15 DE DICIEMBRE DE 1994, Y CON LA LEY NUMERO 168 DE 30 DE JULIO DE 2000, SEGÚN ENMENDADA, Y CON LA LEY NUMERO 417 DE 22 DE SEPTIEMBRE DE 2004, SEGÚN ENMENDADA, Y CON LA LEY NUMERO 119 DE 30 DE JUNIO DE 2006, SEGÚN ENMENDADA, Y CON LA LEY NUMERO 427 DE 21 DE SEPTIEMBRE DE 2006, SEGÚN ENMENDADA, Y CON LA LEY NUMERO 44 DE 21 DE JUNIO DE 2008, SEGÚN ENMENDADA, Y CON LA LEY NUMERO 278 DE 24 DE AGOST



Paver Pattern Layout Plan

SCALE : 1/8" = 1'-0"

A

A-7.0

Detail

SCALE : 3" = 1'-0"

B

A-7.0

FURNITURE SCHEDULE

ID	DESCRIPTION	MODEL	MANUFACTURER	LENGTH	WIDTH	HEIGHT	COLOR	FINISH	QUANTITY
1	PRECAST LINEAR BENCH	BE-50	713 PRECAST LLC	6'-0"	1'-6"	1'-6"	#12 GRAY	EXPOSED AGGREGATE / POLISHED SEATING SURFACE / ANTI-SLIP ALL OTHER SURFACES	42
2	PRECAST BOLLARD	TBD	713 PRECAST LLC	1'-6"	6"	8"	#36 CHARCOAL GRAY	EXPOSED AGGREGATE / ANTI-SLIP	36
3	CAST-IN-PLACE BENCH	-	-	1'-6"	1'-6"	1'-6"	GRAY	EXPOSED AGGREGATE / ANTI-SLIP	12
4	PRECAST TRASH BIN	TBD	713 PRECAST LLC	2'-0"	1'-6"	3'-0"	#12 GRAY	EXPOSED AGGREGATE / ANTI-SLIP	9
	PRECAST PAVER	TBD	713 PRECAST LLC	3'-10"	1'-6"	1 1/2"	#12 GRAY	EXPOSED AGGREGATE / ANTI-SLIP	14,000 SQ.FT. (VIF)
	PRECAST PAVER	TBD	713 PRECAST LLC	3'-10"	1'-6"	1 1/2"	#36 CHARCOAL GRAY	EXPOSED AGGREGATE / ANTI-SLIP	8,000 SQ.FT. (VIF)

Notes:

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REVISIONS

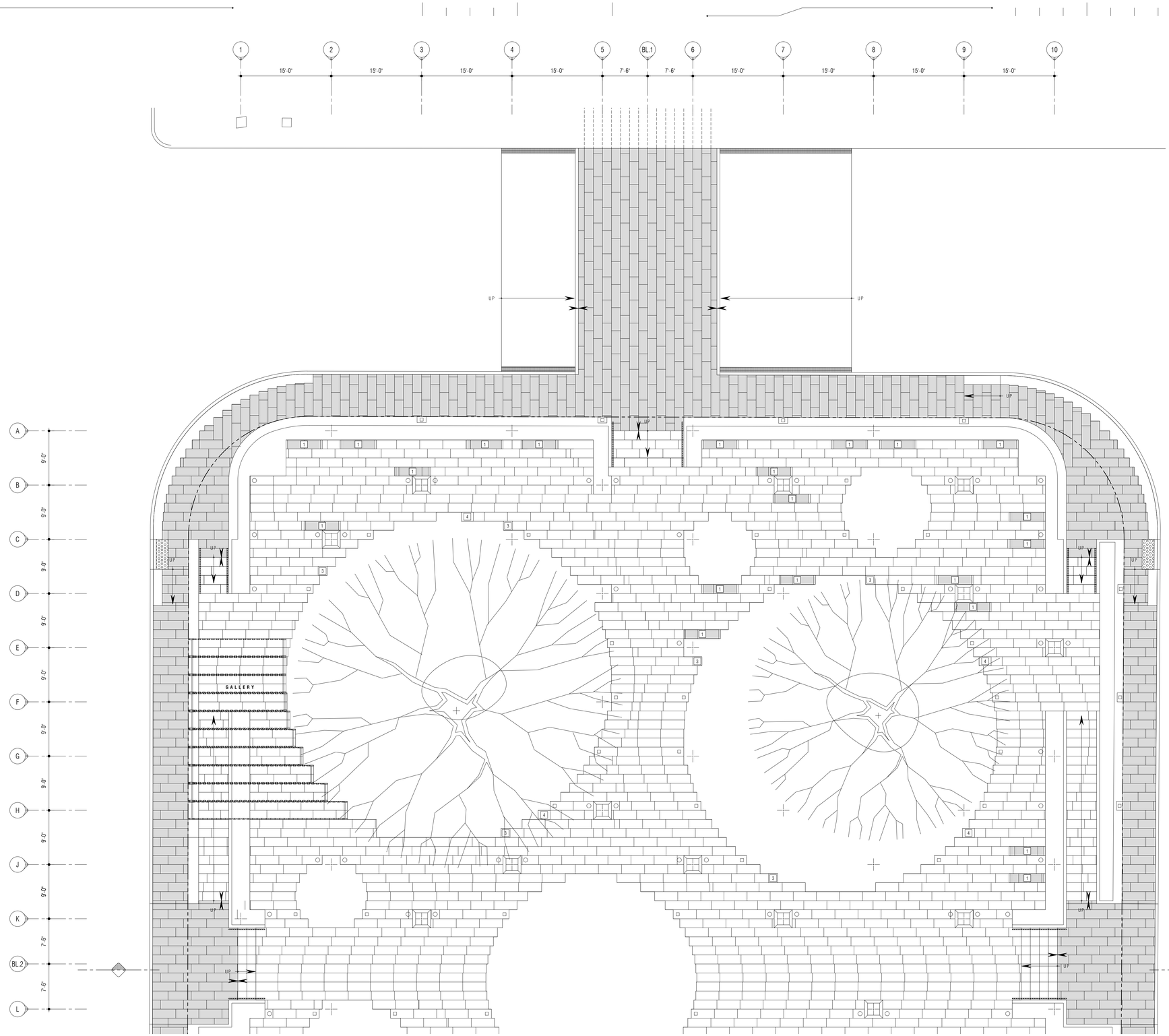
REV. #	DATE	ISSUING REASON
1	05/x.17	Explanation

PROFESSIONAL SEAL



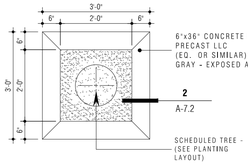
CERTIFICACIÓN - CUTTINGHTS + NEW NAME

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS Y QUE ESTOS PLANOS CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTE DE LAS AGENCIAS, JUNTOS REGLAMENTANDO EL COMPO- NENTE ESTRUCTURAL DE ESTOS PLANOS. CUMPLIDO CABALMENTE CON LA LEY NUMERO 96 DEL 6 DE JULIO DE 1976, SEGUN ENMENDADA, PARA LA CONSTRUCCION Y CON LA LEY NUMERO 76 DEL 5 DE JUNIO DE 1976, SEGUN ENMENDADA, PARA LA CONSTRUCCION Y



Paver Pattern Layout Plan

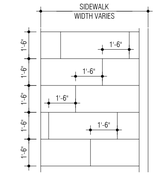
SCALE : ⅛" = 1'-0" — A-7.1



Tree Planter Paver Detail

B

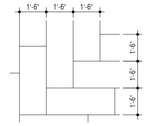
SCALE : ½" = 1'-0" — A-7.1



Sidewalk Staggered Detail

C

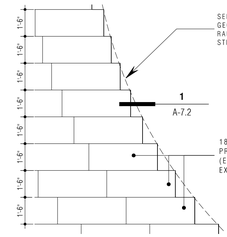
SCALE : ⅛" = 1'-0" — A-7.1



Paver Direction Change Detail

D

SCALE : ½" = 1'-0" — A-7.1



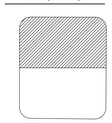
Circular Edge Paver Detail

E

SCALE : ½" = 1'-0" — A-7.1

NOTE: ALWAYS START PAVER INSTALLATION ROW AT CIRCULAR EDGES WITH FULL SIZED PAVER.

Key Map



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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

julián manriquez botello puerto rico

LIC. VXX DCCC III EXP. 19 X 2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARÓ ESTOS PLANOS Y/O ESPECIFICACIONES, Y QUE ESTOS PLANOS Y/O ESPECIFICACIONES QUE ESTOY CERTIFICANDO CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE EN LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE LA OBRA. TAL CERTIFICACIÓN SE HACE BAJO LA GARANTÍA DE QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NÚMERO 96 DE 15 DE JULIO DE 1988, CONOCIDA COMO LA "LEY ORGÁNICA DE LA PROFESIÓN DE INGENIERÍA Y AGRIMENSURA" Y CON LA LEY NÚMERO 84 DE 26 DE JULIO DE 1976, SEGÚN ENMENDADA, PARA LA PROTECCIÓN DE LA PROFESIÓN DE ARQUITECTURA Y SE HACEN RECONOCIDO QUE CUALQUIER ENMIENDA A ESTOS PLANOS, QUE NO HAYA SIDO DISEÑADA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO Y CONSENTIMIENTO, ME HACEN RESPONSABLE ÚNICAMENTE POR LA ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA CUAL PROCEDERÁ LA AUTORIDAD CORRESPONDIENTE. ESTUDIO LLC, AND SHALL NOT BE USED FOR ANY OTHER PROJECT. M.I.N.T.S. AS A REFERENCE DOCUMENTS FOR ANY OTHER PROJECT HEREIN. DO NOT SCALE DRAWINGS. ANY TOTAL PARTIAL REPRODUCTION OR USE OF SAID DOCUMENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT PRIOR CONSENT AND WRITTEN PERMISSION TO INFORMATION STUDIO.

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Carolina, PR, 00979 - Office Tel. +1 (787) 256-0630
e-mail: info@informationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñoz, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Paper Pattern Layout Plan

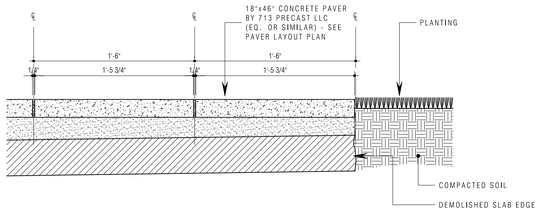
CLIENT

Municipality of Canóvanas - Hon. Lorna J. Soto

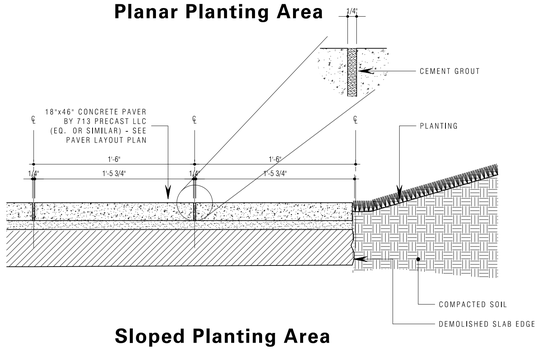
PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
43	krs / 26.vi.2024

DESCIPLINE

A-7.1



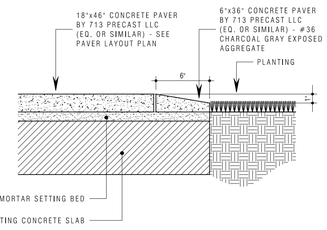
Planar Planting Area



Sloped Planting Area

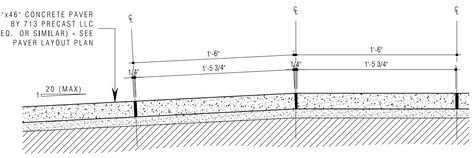
Edge Detail

SCALE : 1-½" = 1'-0" — 1 / A-7.2



Tree Planter Edge Detail (Typ)

SCALE : 1-½" = 1'-0" — 2 / A-7.2



Ramp Detail (Typ)

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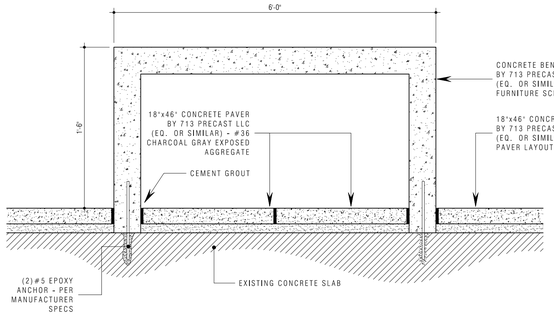
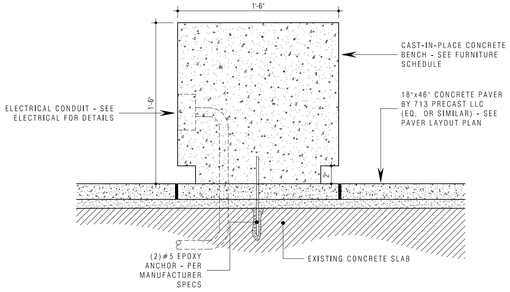


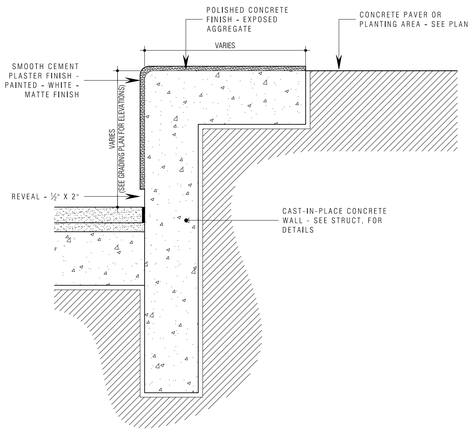
Bench Detail

SCALE : 1-½" = 1'-0" — 5 / A-7.2



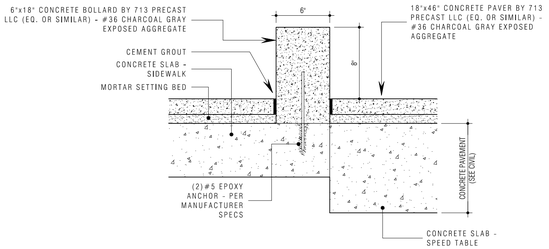
Bench Detail

SCALE : 1-½" = 1'-0" — 6 / A-7.2



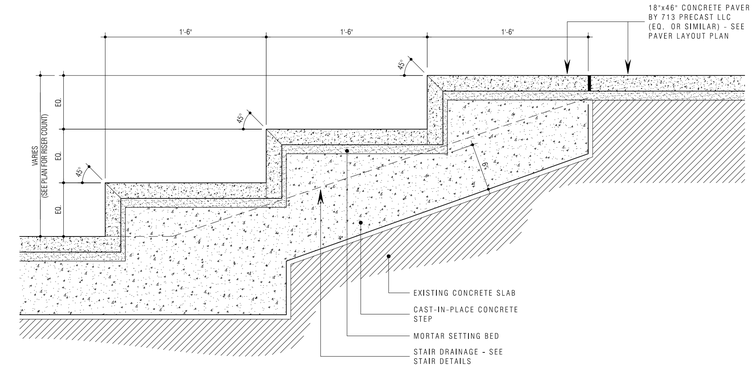
Perimeter Wall Detail (Typ)

SCALE : 1-½" = 1'-0" — 7 / A-7.2



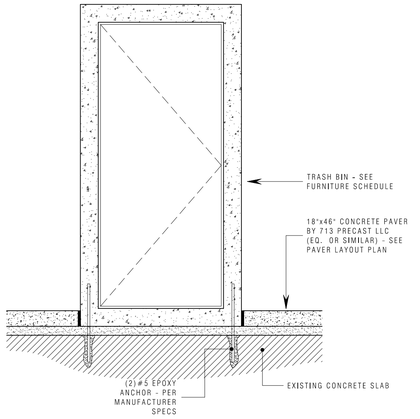
Bollard Detail (Typ)

SCALE : 1-½" = 1'-0" — 8 / A-7.2



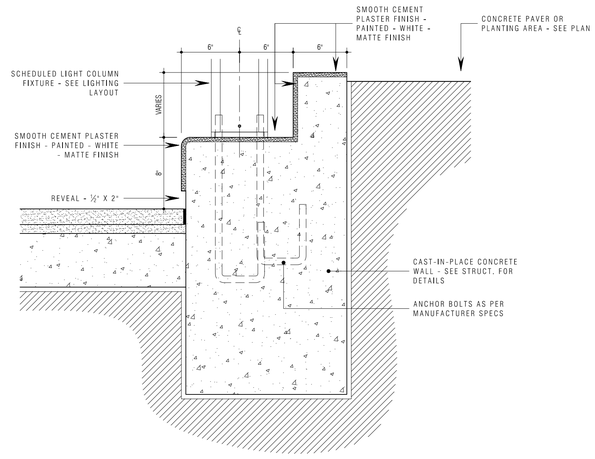
Stair Detail (Typ)

SCALE : 1-½" = 1'-0" — 9 / A-7.2



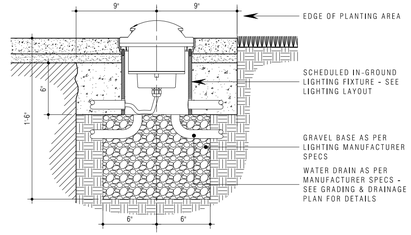
Trash Bin Detail

SCALE : 1-½" = 1'-0" — 10 / A-7.2



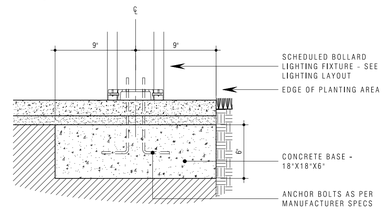
Light Column Fixture Detail

SCALE : 1-½" = 1'-0" — 11 / A-7.2



In-Ground Light Fixture Detail

SCALE : 1-½" = 1'-0" — 12 / A-7.2



Bollard Light Fixture Detail

SCALE : 1-½" = 1'-0" — 13 / A-7.2

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

julián manríquez bottello puerto rico
LIC. MSX 0CCC III
EXP. 19 X 2025

CERTIFICACIÓN - CUTTYHUNK - NEW NAME

YO, JULIÁN MANRÍQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS. CERTIFICO QUE ESTOS PLANOS CUMPLEN CON LA LEY NUMERO 96 DEL 6 DE JULIO DE 1976, SEGÚN ENMENDADA, Y CERTIFICO QUE ESTOS PLANOS CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CUERPOS NACIONES PUBLICAS CON JURISDICCIÓN SOBRE ESTE PROYECTO. CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES HAN SIDO PREPARADOS CUMPLIDO CABALMENTE CON LA LEY NUMERO 173 DEL 12 DE AGOSTO DE 1988, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA TERMINACIÓN Y CON SEGURIDAD DE VIVIENDAS", Y CERTIFICO QUE ESTOS PLANOS CUMPLEN CON LAS DISPOSICIONES DE DICHA LEY. ASIMISMO, CERTIFICO QUE NI MI FIRMA, NI MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO Y CONSENTIMIENTO, HACEN RESPONSABLE A MI FIRMA POR CUALQUIER ACCIÓN JUDICIAL O DISCIPLINARIA POR LA VIOLACIÓN DE LA LEY MENCIONADA. ESTOY DE INFORMACIÓN ADICIONAL REFERENCIA DOCUMENTOS ESTUDIO LLC AND SHALL NOT BE RESPONSIBLE FOR ANY INACCURACIES IN SUCH INFORMATION PROVIDED. NOTES: ALL DRAWINGS, AND OTHER PROJECT HEREIN. DWG. NO. ST-S910.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Paver - Details

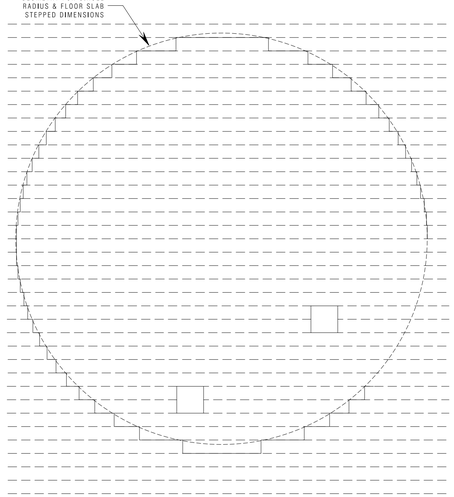
CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
44	krs / 26.vi.2024

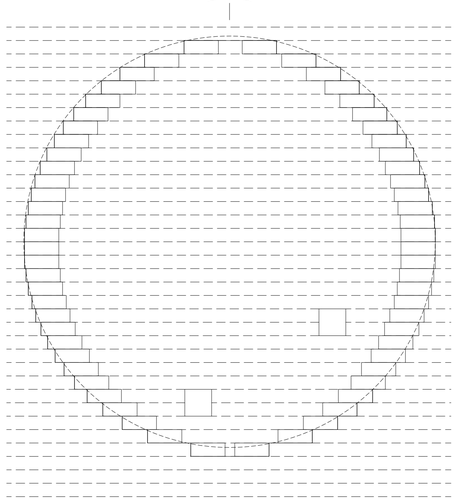
DISCIPLINE

A-7.2

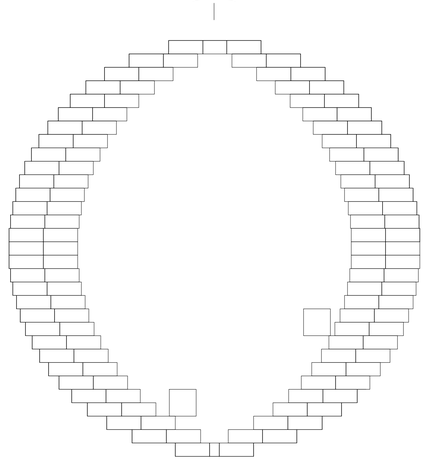
SEE DESCRIPTIVE GEOMETRY FOR CIRCLE RADIUS & FLOOR SLAB STEPPED DIMENSIONS



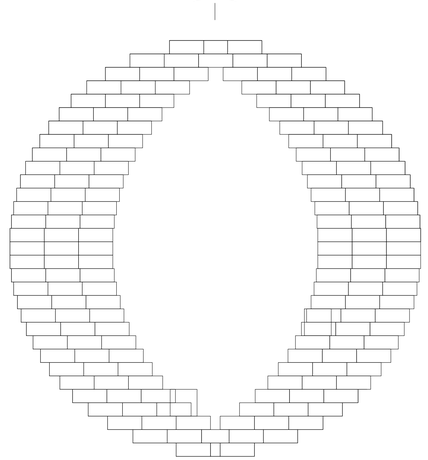
1. LAYOUT PAVER SHORELINES FROM CIRCULAR EDGE TO CIRCULAR EDGE.
2. OFFSET OF SHORELINES TO FOLLOW PAVER WIDTH.



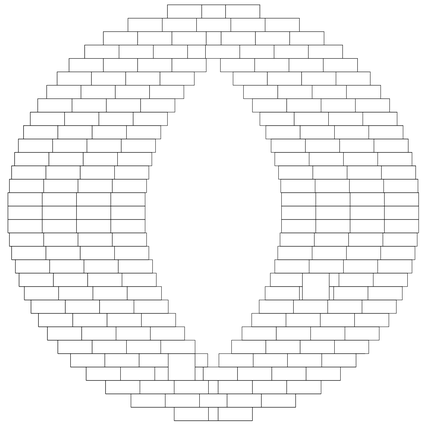
1. LAY FIRST (1ST) PAVER OF EACH ROW, STARTING WITH FULL SIZE PAVER AT EACH END.



1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. CUT PAVER TO SIZE IN REMAINING SPACES SMALLER THAN ONE (1) FULL PAVER SIZE.



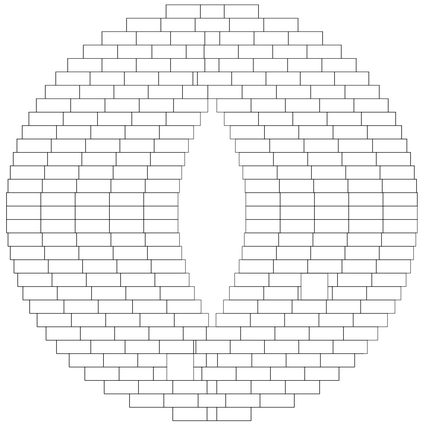
1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. WHERE REMAINING SPACE BETWEEN PREVIOUS PAVER INSTALLATION IS SMALLER THAN TWO (2) FULL SIZED PAVERS, INSTALL FULL SIZE PAVER AT RIGHT SIDE.



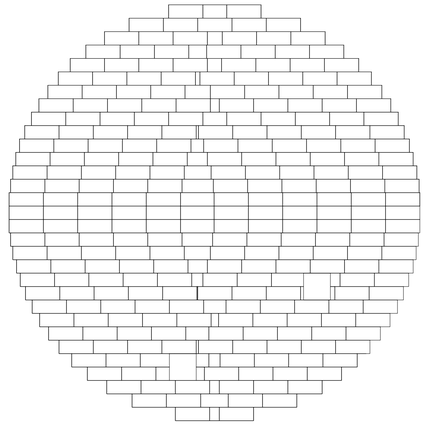
1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. WHERE REMAINING SPACE BETWEEN PREVIOUS PAVER INSTALLATION IS SMALLER THAN TWO (2) FULL SIZED PAVERS, INSTALL FULL SIZE PAVER AT RIGHT SIDE.
3. WHERE PAVER INSTALLATION MEETS PLANTER SPACE, CUT PAVERS TO LEAVE PLANTER OPEN.

Convex Arc + Convex Arc 1

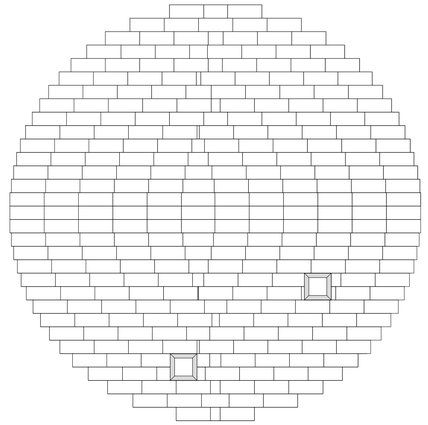
SCALE : 1/2" = 1'-0" A-7.3



1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. WHERE REMAINING SPACE BETWEEN PREVIOUS PAVER INSTALLATION IS SMALLER THAN TWO (2) FULL SIZED PAVERS, INSTALL FULL SIZE PAVER AT RIGHT SIDE.
3. CUT PAVER TO SIZE AT REMAINING SPACE OF EACH ROW.



1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. WHERE REMAINING SPACE BETWEEN PREVIOUS PAVER INSTALLATION IS SMALLER THAN TWO (2) FULL SIZED PAVERS, INSTALL FULL SIZE PAVER AT RIGHT SIDE.
3. CUT PAVER TO SIZE AT REMAINING SPACE OF EACH ROW.



1. INSTALL SPECIFIED PAVERS AT PLANTER PERIMETER. SEE DETAIL 2/L1.

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

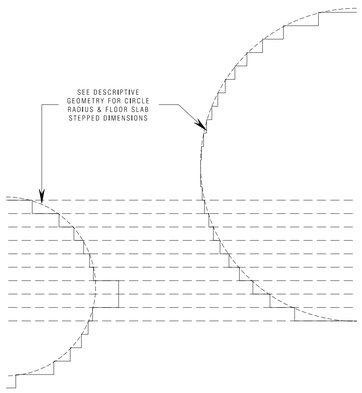
PROFESSIONAL SEAL

julián manríquez botello puerto rico

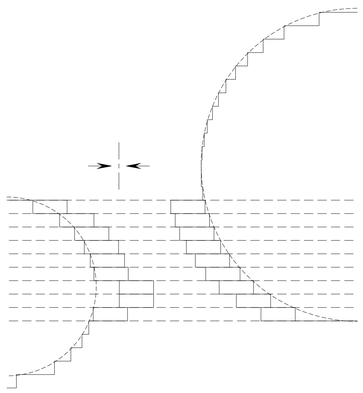
LIC. MSX 00CC III EXP. 19 X 2025

CERTIFICACIÓN - CUTTYHUNK - NEW NAME

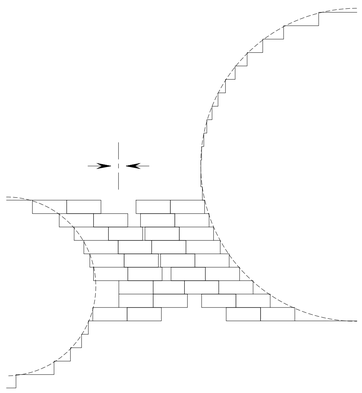
YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS Y QUE ESTOS PLANOS CUMPLEN CON LA LEY NUM. 135 DE 1968, CERTIFICO QUE ENTIENDO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CUERPO GUBERNAMENTAL RACIONES PUBLICAS CON JURISDICCION SOBRE ESTAS OBRAS Y QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NUMERO 9 DE 24 DE NOVIEMBRE DE 1970, SEGÚN ENMENDADA POR LA LEY NUMERO 347 DE 1999, QUE ESTABLECE POLITICA PUBLICA PARA LA TERMINACIÓN Y CON SEGURIDAD Y ACCESO PARA TODOS LOS CIUDADANOS, SEGÚN ENMENDADA MEDIANTE



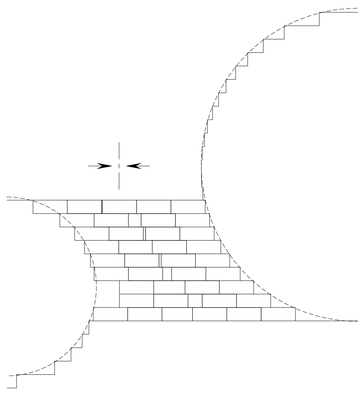
1. LAYOUT PAVER SHORELINES FROM CIRCULAR EDGE TO CIRCULAR EDGE.
2. OFFSET OF SHORELINES TO FOLLOW PAVER WIDTH.



1. LAY FIRST (1ST) PAVER OF EACH ROW, STARTING WITH FULL SIZE PAVER AT EACH END.



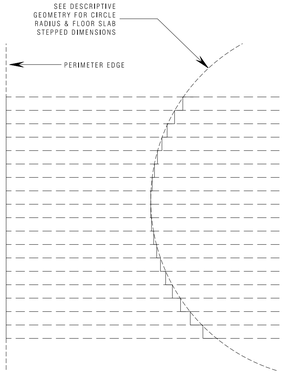
1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. WHERE REMAINING SPACE BETWEEN PREVIOUS PAVER INSTALLATION IS SMALLER THAN TWO (2) FULL SIZED PAVER, INSTALL FULL SIZE PAVER AT RIGHT SIDE.



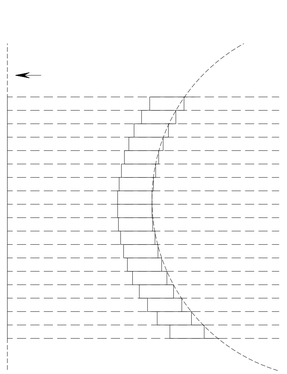
1. CONTINUE FULL SIZE PAVER INSTALLATION FROM EACH END TOWARDS THE CENTER.
2. WHERE REMAINING SPACE BETWEEN PREVIOUS PAVER INSTALLATION IS SMALLER THAN TWO (2) FULL SIZED PAVER, INSTALL FULL SIZE PAVER AT RIGHT SIDE.
3. CUT PAVER TO SIZE AT CENTER OF EACH ROW.

Convex Arc + Convex Arc — 1

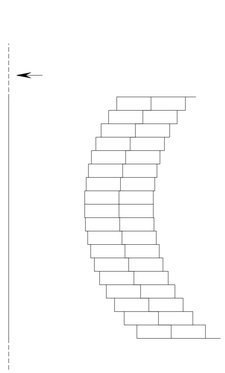
SCALE : ½" = 1'-0" — A-7.4



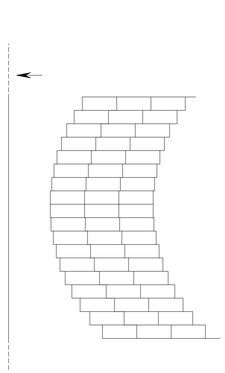
1. LAYOUT PAVER SHORELINES FROM CIRCULAR EDGE TO STRAIGHT EDGE.
2. OFFSET OF SHORELINES TO FOLLOW PAVER WIDTH.



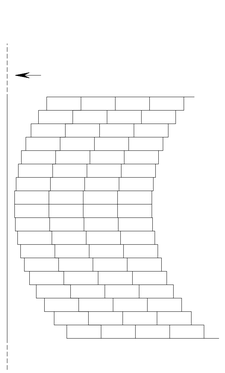
LAY FIRST (1ST) PAVER OF EACH ROW, STARTING WITH FULL SIZE PAVER AT CIRCULAR EDGE.



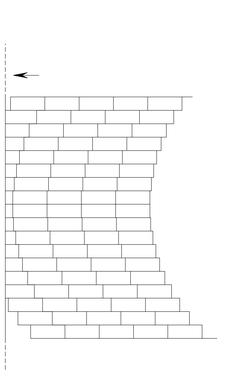
1. CONTINUE FULL SIZE PAVER INSTALLATION FROM CIRCULAR EDGE TOWARDS STRAIGHT EDGE.



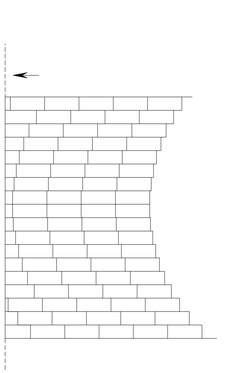
1. CONTINUE FULL SIZE PAVER INSTALLATION FROM CIRCULAR EDGE TOWARDS STRAIGHT EDGE.



1. CONTINUE FULL SIZE PAVER INSTALLATION FROM CIRCULAR EDGE TOWARDS STRAIGHT EDGE.



1. CONTINUE FULL SIZE PAVER INSTALLATION FROM CIRCULAR EDGE TOWARDS STRAIGHT EDGE,
2. CUT PAVERS TO FILL REMAINING GAPS.



CONTINUE FULL SIZE PAVER INSTALLATION FROM CIRCULAR EDGE TOWARDS STRAIGHT EDGE.

Convex Arc + Straight Edge — 2

SCALE : ½" = 1'-0" — A-7.4

Notes:

1.0 Do not scalle dimensions from drawings. Dimensions govern.

2.0 All dimensions are in feet and inches, unless noted otherwise.

3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/ix.17	Explanation

PROFESSIONAL SEAL

julián manríquez botello puerto rico — LIC. MSX 0CCC III EXP. 19 X 2025

CERTIFICACIÓN - COTEMAPTI + NEW NAME

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARÓ ESTOS PLANOS Y/O ESPECIFICACIONES, Y QUE POR MEDIO DEL PRESENTE CERTIFICO QUE ENTIENDO QUE ESTOS PLANOS Y/O ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CUERPOS GUBERNAMENTALES CON JURISDICCIÓN SOBRE LA MATERIA. TAMBIÉN CERTIFICO QUE ESTOS PLANOS Y/O ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1988, CONOCIDA COMO LA "LEY DISPOSICIONES GENERALES DE LA INGENIERÍA Y LA ARQUITECTURA", Y QUE RECONOZCO QUE CUALQUIER VIOLACIÓN A DICHA LEY PODRÍA CONSTITUIR CAUSA PARA LA IMPOSICIÓN DE SANCIONES ADMINISTRATIVAS, CIVILES O POR DELITO MENOS GRAVE, SEGÚN EMENDADA, QUE PUEDEN INCLUIR LA REVOCACIÓN DE MI LICENCIA PROFESIONAL. ASIMISMO, ENTIENDO QUE ESTOS PLANOS Y/O ESPECIFICACIONES PUEDEN SER UTILIZADOS POR LA AGENCIA, SUS EMPLEADOS, O POR OTRAS PERSONAS AUTORIZADAS POR LA AGENCIA, CON EL CONOCIMIENTO Y CONSENTIMIENTO DE MIS AGENTES, O SIN ESTE CONOCIMIENTO Y CONSENTIMIENTO. ME HAGO RESPONSABLE POR CUALQUIER ACCIÓN, JUDICIAL Y EXTRAJUDICIAL, QUE PUEDA SURGIR EN CONTRA DE LA AGENCIA, SUS EMPLEADOS O POR CUALQUIER OTRA PERSONA AUTORIZADA POR LA AGENCIA, CON RELACIÓN A LOS PLANOS Y/O ESPECIFICACIONES QUE ESTOY CERTIFICANDO MEDIANTE LA PRESENTE. ME RATIFICO EN TODO LO ANTERIORMENTE EXPUESTO BAJO LA GRAVEDAD DEL JURAMENTO.

ST0910

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Carolina, PR, 00979 - Office Tel. +1 (787) 246-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Muñoz, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

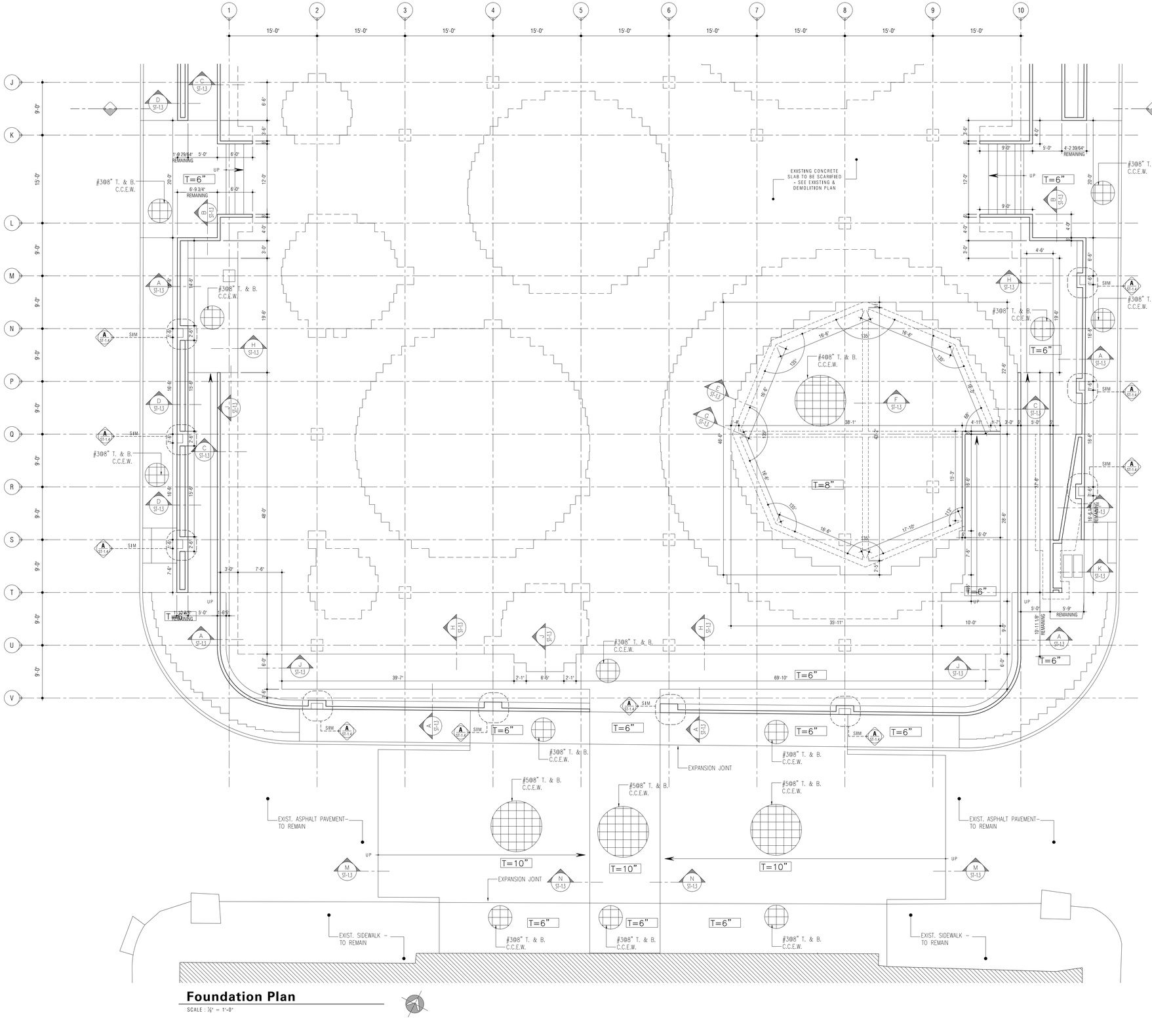
Paver -Installation Sequence

CLIENT
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
46	krs / 26.vi.2024

DISCIPLINE

A-7.4



Foundation Plan

SCALE : 1/8" = 1'-0"

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

JOSÉ O. GONZÁLEZ
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

Yo, José O. González García, licencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que ambos que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras o corporaciones públicas que, según mi mejor saber y conocimiento, además, son en la preparación de estos planos y especificaciones se ha tenido en consideración con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "Ley para la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1978, según enmendada, sujeto a que cualquier declaración falsa o falsificación de los hechos que se haya cometido por mi desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas de mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

DERECHOS DE AUTOR - COPYRIGHT - FIRM NAME

YO, JULIAN MARQUEZ BOTELLO, LICENCIA 19603, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ CONFECCIONÓ Y PREPARÓ ESTOS PLANOS, LAS ESPECIFICACIONES Y LOS CÁLCULOS, Y TAMBIÉN CERTIFICO QUE ESTOS DISEÑOS, PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS QUE, SEGÚN MI MEJOR SABER Y CONOCIMIENTO, ADEMÁS, SON EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA TENIDO EN CONSIDERACIÓN CON LO DISPUESTO EN LA LEY NÚM. 96 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 14-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INDUSTRIA PUERTORRIQUEÑA". CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA COMETIDO POR MI DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS DE MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

SEGÚN PARA LA TERMINACIÓN Y CON LA DISEÑA EMBRIDADA SEGÚN LA LEY NÚMERO 96, MÉS ABOVEDO, O CON MI CONOCIMIENTO ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE OF INFORMATION AS A REFERENCE DOCU-MENT FOR THE CONSTRUCTION OF THIS PROJECT HEREIN.

SIGNED: ANY TOTAL PARTIAL REPRODUCTION OF OUR DOCU-MENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT THE WRITTEN CONSENT AND SHALL BE RETURNED TO INFORMATION STUDIO.

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e-mail: info@informationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Foundation Plan

Key Map

CLIENT

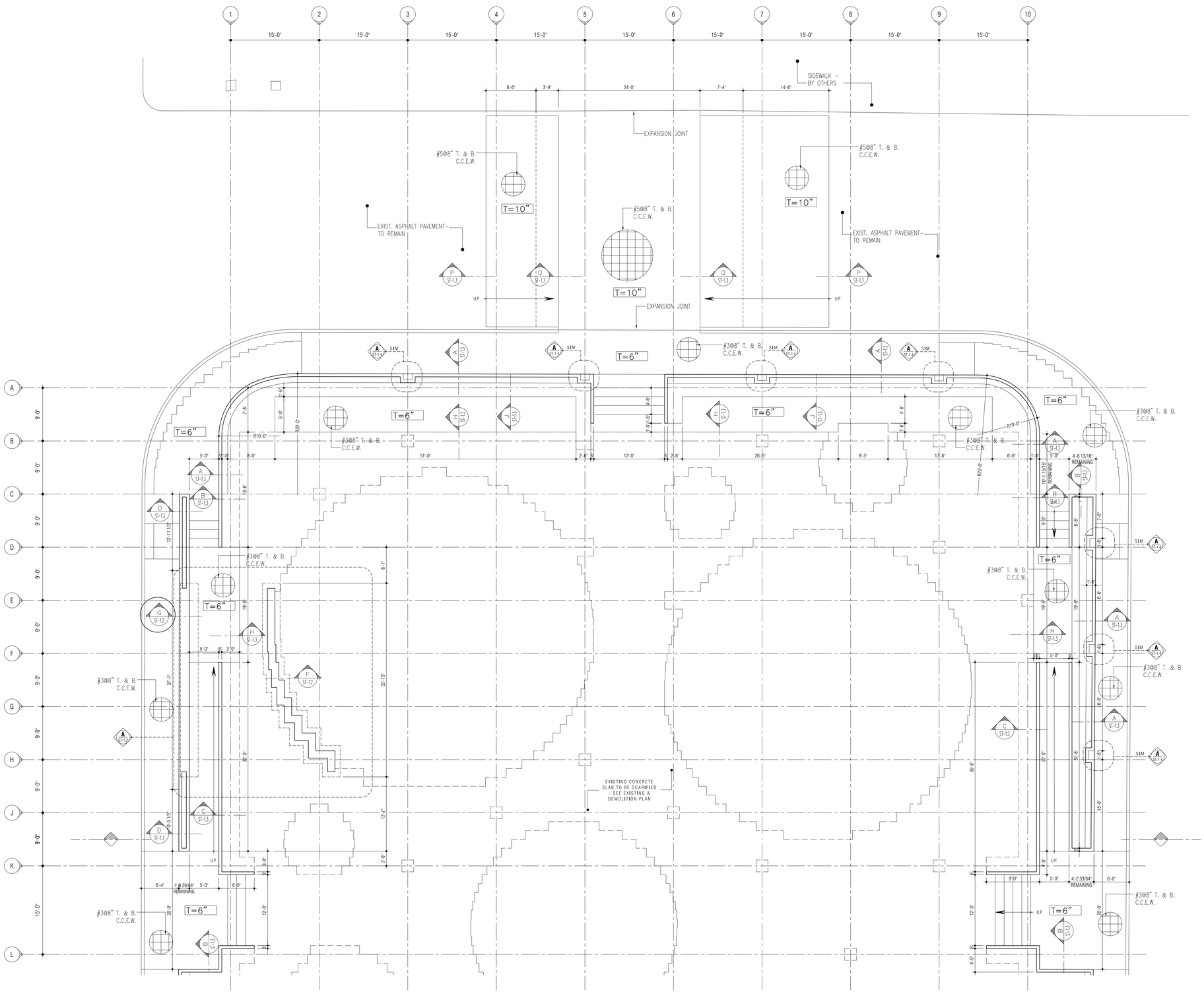
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
47	krs	26.vi.2024

DESIGN UNIT

ST-1.0



Foundation Plan Cont.

SCALE : 1/8" = 1'-0"

Notes:

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.iv.17	Explanation

PROFESSIONAL SEAL

JOSÉ O. GONZÁLEZ
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

Yo, José O. González García, licencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, juntas reglamentadoras o corporaciones públicas con jurisdicción, certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "Ley para la Industria Puertorriqueña" y con la ley núm. 96 de 6 de julio de 1978, según enmendada, reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

YO, JULIAN MARQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN, CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LO DISPUESTO EN LA LEY 14-2004, ENMENDADA, CONOCIDA COMO LA LEY 14-2004, POR LA CUAL SE CREA EL DECRETO DE LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 96 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPe.

SEGÚN PARA LA TORNQUEÑA Y CON FIRMA ENMENDADA PLAN DE FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPe.

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e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Foundation Plan Cont.

CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #: 22-03

PROJECT PHASE: Construction Docs - 100%

SHEET #: 48

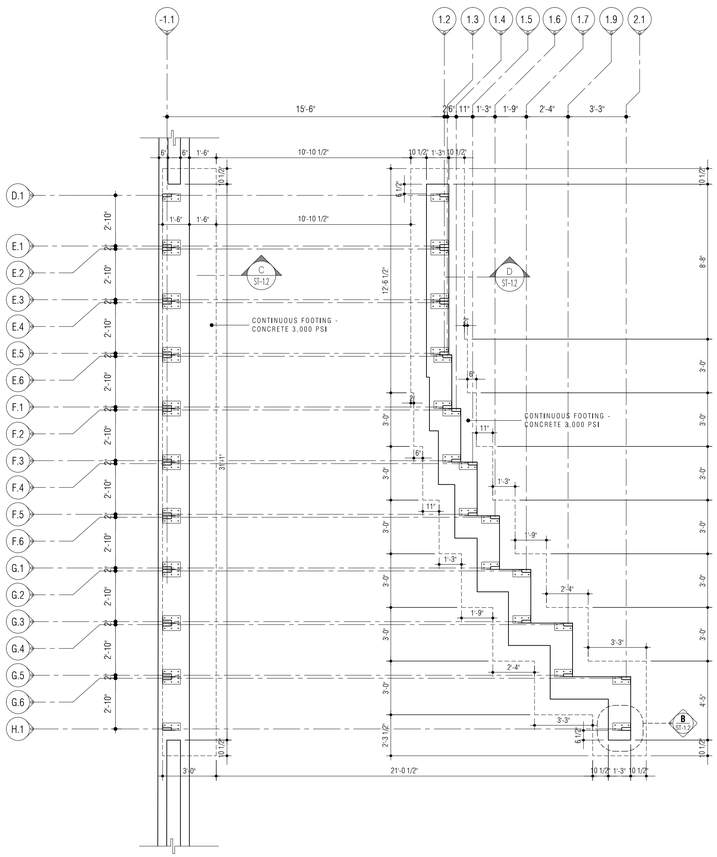
DRAWN BY: krs

DATE: 26.vi.2024

DISCIPLINE

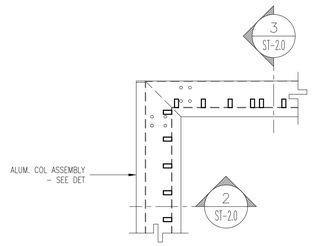
ST-1.1

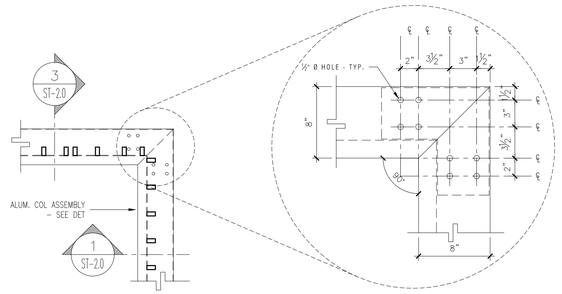
Key Map

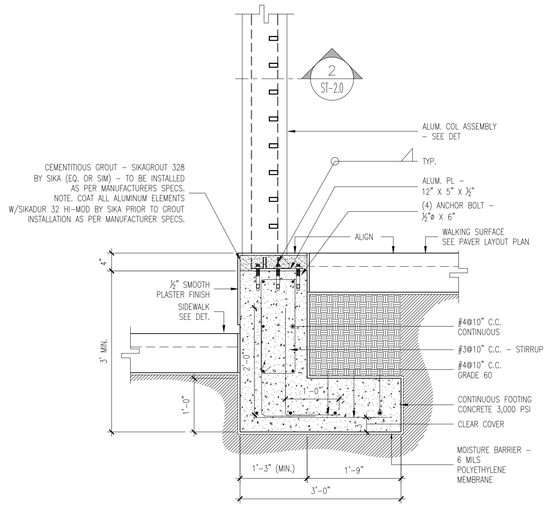


Gallery - Foundation Plan A

SCALE : 1/4" = 1'-0" ST-1.2

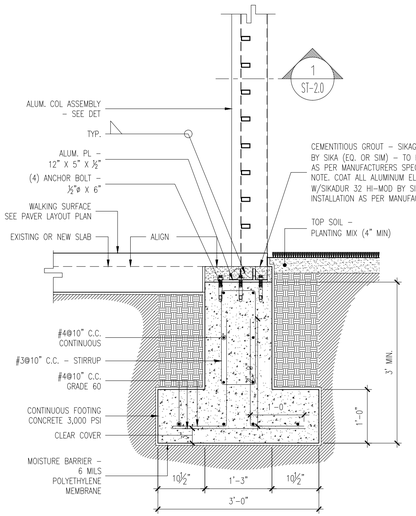






FOOTING SECTION C

SCALE=3/4"=1'-0" ST-1.2



FOOTING SECTION D

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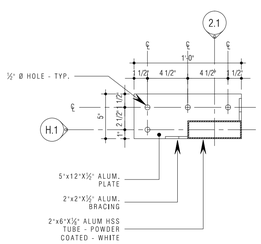
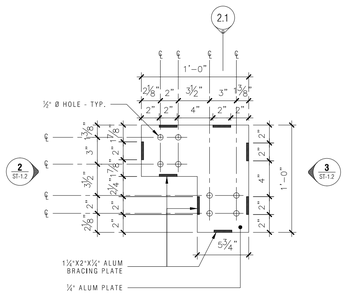


Base Plate Detail B

SCALE : 1-½" = 1'-0" ST-1.2


2.1
1'-0"
½" Ø HOLE - TYP.
2⅜"
2"
3½"
3"
1⅜"
2"
2"
4"
2"
2"
2"
3"
2"
2"
2"
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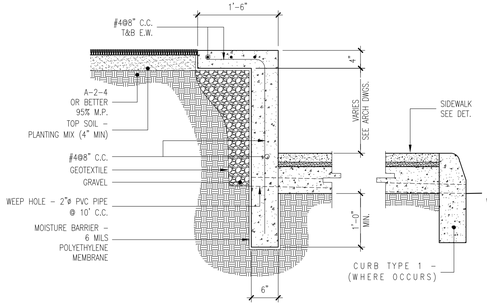
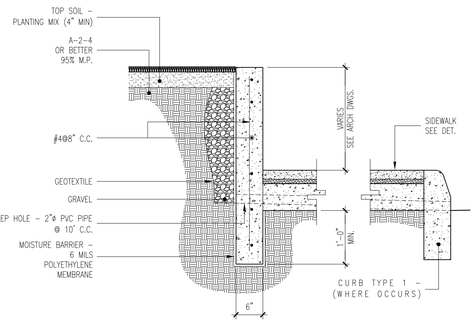


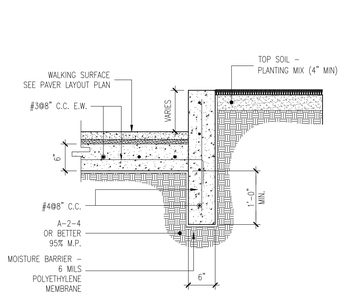
FOOTING SECTION — A — SI-1.3

SCALE=3/4"=1'-0"



FOOTING SECTION — B — SI-1.3

SCALE=3/4"=1'-0"



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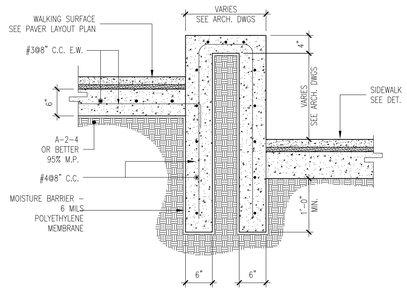

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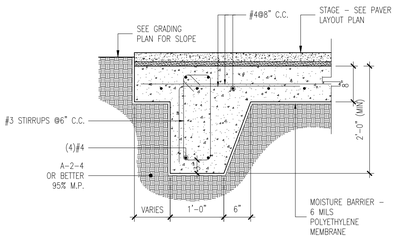

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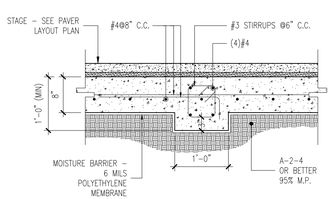

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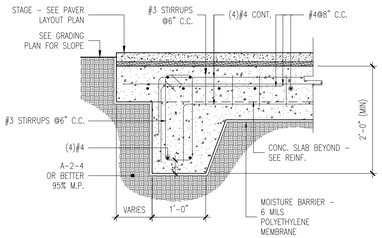

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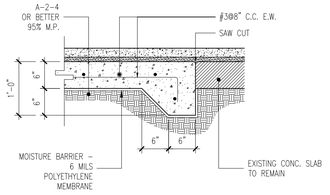

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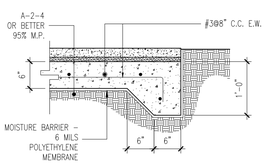

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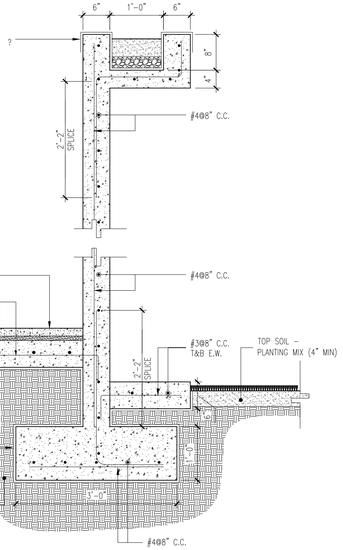

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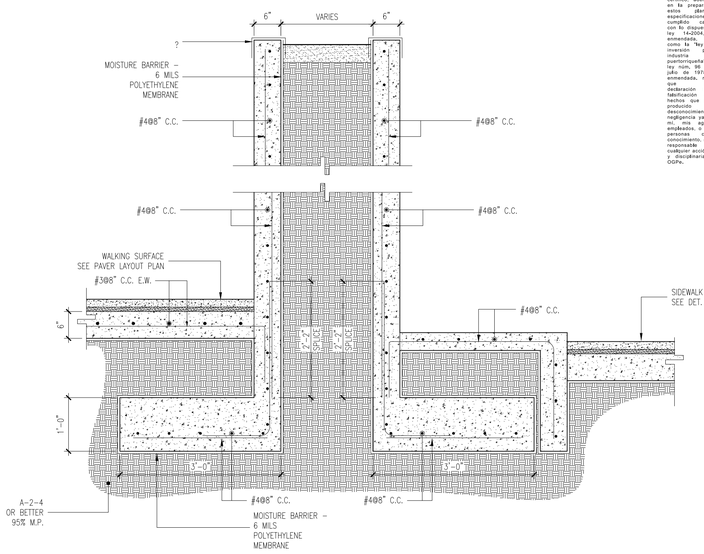

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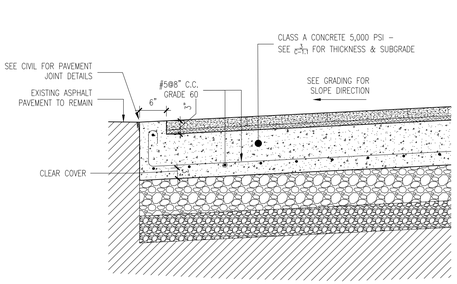

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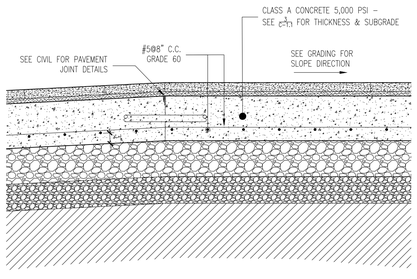

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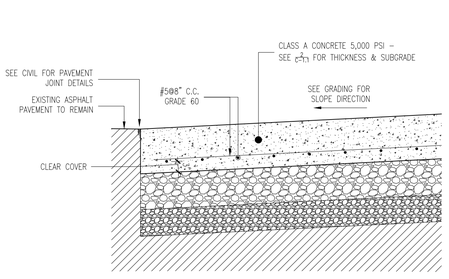

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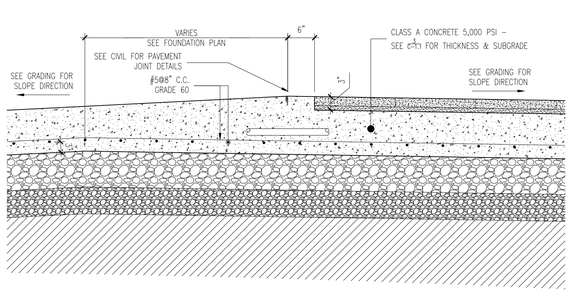

FOOTING SECTION — Q — SI-1.3

SCALE=3/4"=1'-0"

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

JOSE O. GONZALEZ
INGENIERO
LICENCIADO
LIC. #6588
PUERTO RICO

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

Yo, José O. González García, ingeniero civil, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras o corporaciones públicas con jurisdicción. También certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la ley para la reforma por la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1978, según enmendada, entiendo que cualquier declaración falsa o falsificación de los hechos que se hayan realizado por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

YO, JULIAN MARRERO BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARÓ ESTOS PLANOS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. TAMBIÉN CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚMERO 96 DE 6 DE JULIO DE 1978, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA TERMINACIÓN Y CON SEGURA EMBARGADA DE 1978", Y QUE ENTIENDO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS AQUÍ EXPUESTOS POR DESCONOCIMIENTO O POR NEGLIGENCIA, YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DISCIPLINARIA POR LA OFICINA DE GERENCIA DE PERMISOS (OGPE) Y POR ESTUDIO LLC. AND SHALL BE HELD LIABLE TO THE OFFICE OF PERMITS MANAGEMENT (OGPE).

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Carolina, PR, 00979 - Office Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Foundation Details

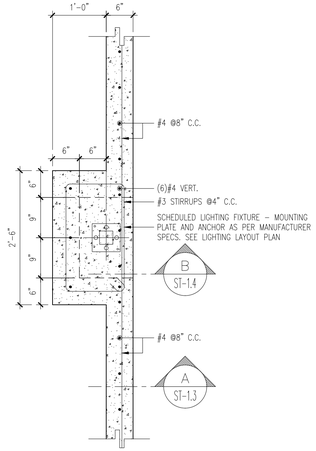
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET NO.	DRAWN BY / DATE
50	krs / 26.vi.2024

DISCIPLINE

ST-1.3



LIGHT COLUMN FIXTURE BASE — A / S1-1.4

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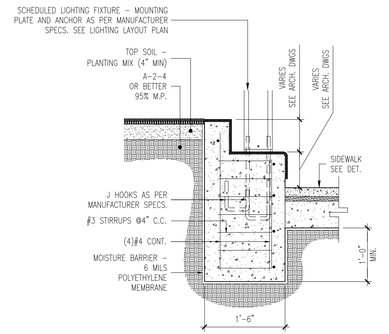

FOOTING SECTION — B / S1-1.4

SCALE=3/4"=1'-0"

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5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05/jx.17	Explanation

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA — INGENIERO LICENCIADO — LIC. #6588 — PUERTO RICO

Yo, José O. González García, licencia 6588, certifico que soy el profesional que diseñó, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras o corporaciones públicas con jurisdicción sobre el mismo, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la ley 14-2004, según enmendada, conocida como la ley para la profesión por la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1976, según enmendada, en el sentido que cualquier declaración falsa o falsificación de los hechos que se hayan hecho por mi desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICACIÓN - COPYRIGHTS - VIEW NAME

YO, JULIAN MARRUGUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN SOBRE EL MISMO. TAL COMO LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1976, ENMENDADA, CONOCIDA COMO LA LEY PARA LA PROFESIÓN DE INGENIERÍA Y CON EL PROPÓSITO DE PROTEGER EL BIENESTAR, LA SALUD, LA PROPIEDAD Y LA SEGURIDAD PÚBLICA, ASÍ COMO LA LEY NÚMERO 84 DEL 5 DE AGOSTO DE 1994, ENMENDADA, CONOCIDA COMO LA LEY PARA LA REGULACIÓN DE LA PRÁCTICA DE LA ARQUITECTURA EN PUERTO RICO. ASIMISMO, CERTIFICO QUE HE CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚMERO 84 DEL 29 DE JUNIO DE 2018, ENMENDADA, CONOCIDA COMO LA LEY ANTIFRAUDE Y ANTIEXTORSIÓN DE LA CONSTRUCCIÓN, EN EL SENTIDO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LO DISPUESTO EN DICHA LEY. ESTOS PLANOS Y ESPECIFICACIONES FUERON PREPARADOS BAJO MI SUPERVISIÓN EMINENTE, DIRECCIÓN Y CONTROL. CONOZCO LAS PENALIDADES IMPUESTAS POR LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1976, ENMENDADA, POR LA RADICACIÓN DE PLANOS FALSOS O POR NEGLIGENCIA. O POR OTRAS EMPLEADOS, O POR OTRAS PERSONAS SIN MI CONOCIMIENTO, ME HACEN RESPONSABLE DISCIPLINARIA POR LA OGPE. POR LA PRESENTE ESTUDIO LLC. AND SHALL MIS AGENTS OR EMPLOYEES, OR BY OTHER PERSONS WITHOUT MY KNOWLEDGE, MAKE ME RESPONSIBLE DISCIPLINARY FOR THE OGPE. BY THE PRESENT STUDIO LLC. AND SHALL

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Carolina, PR, 00979 - Office: Tel. +1 (787) 236-0630
e-mail: info@informationstudio.com

PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Foundation Details

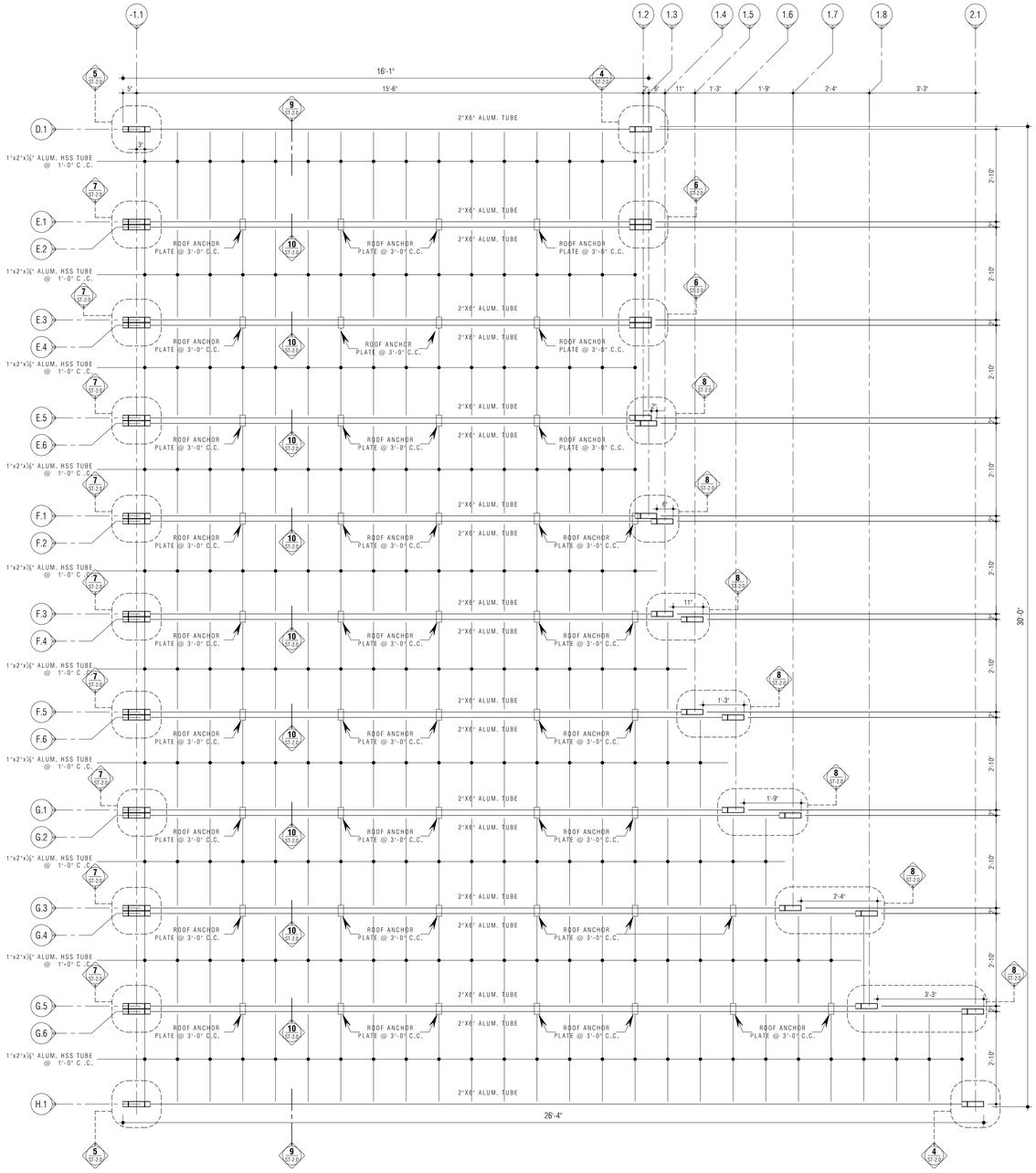
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
51	krs / 26.vi.2024

DISCIPLINE

ST-1.4



Gallery - Structural Plan

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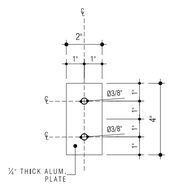

Roof Anchor Plate Detail 11

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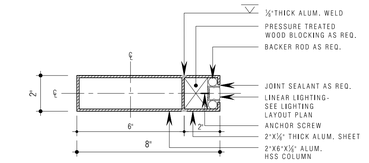

Column Type A 1

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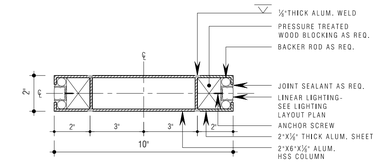

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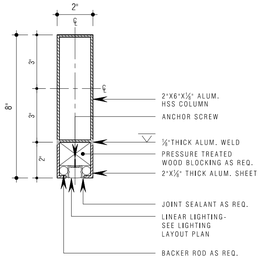

Beam Type A 3

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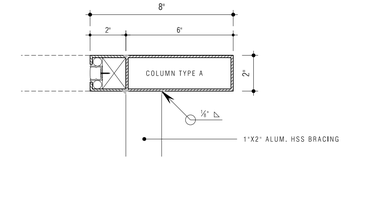

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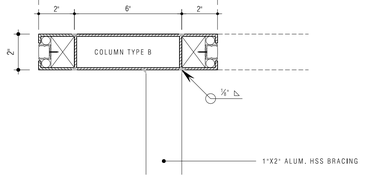

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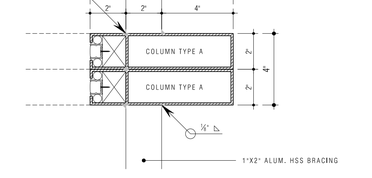

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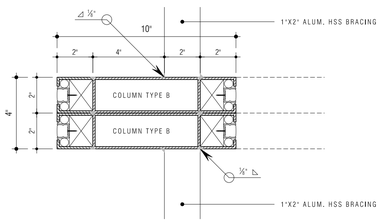

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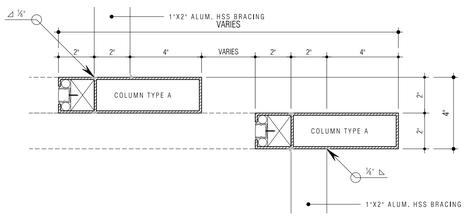

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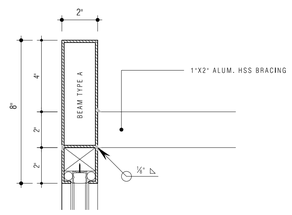

Beam 9

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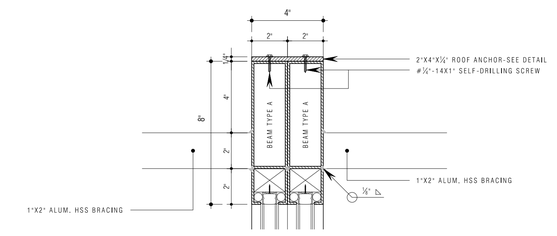

Beam 10

SCALE : 3" = 1'-0" ST-2.0

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05/x/17	Explanation

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

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STRUCTURAL NOTES, GENERAL DETAILS & DEMOLITION SEQUENCE

DESIGN & CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS AND PROVISION OF THE FOLLOWING CODES AND SPECIFICATIONS:

1. AMERICAN CONCRETE INSTITUTE
2. UNIFORM BUILDING CODE, UBC 1997
3. AMERICAN SOCIETY FOR TESTING AND MATERIALS
4. CONCRETE REINFORCING STEEL INSTITUTE
5. AMERICAN WELDING SOCIETY
6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION

DESIGN LOADS:

1. GRAVITARY LIVE LOADS (100 PSF OPEN TERRACE) . . . . . UBC 1997
2. GRAVITARY LIVE LOADS (40 PSF ROOF) . . . . . UBC 1997
3. WIND LOADS. ASCE-7
4. EARTHQUAKE LOADS. . . . . UBC 1997

CAST-IN-PLACE REINFORCED CONCRETE:

1. CONCRETE SHALL HAVE A 28-DAY ULTIMATE COMPRESSIVE STRENGHT AS SET FORTH BELOW:

   A. WALLS, SLAB, BEAMS ..... 4,000 PSI.
   B. ALL OTHERS ..... 4,000 PSI.

2. SLUMP OF CONCRETE SHALL NOT EXCEED 4" UNLESS A HIGH RANGE WATER-REDUCING ADMIXTURE IS USED. THE SLUMP OF CONCRETE PRIOR TO ADDITION OF A HIGH RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 4". THE SLUMP OF CONCRETE CONTAINING A HIGH RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 10".
3. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE BETWEEN 4 AND 8 PERCENT.
4. THE NOMINAL COARSE AGGREGATE SIZE SHALL BE A MINIMUN OF 3/4" IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL
5. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STREGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS FOR EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY A REGISTERED LICENSED ENGINEER. PHYSICAL TESTS RESULTS FOR COARSE AND FINE AGGREGATES SHALL ALSO BE SUBMITED CERTIFIEDX BY A REGISTERED ENGINEER.
6. REINFORCING SHALL CONFORM TO ASTM A615, GR60, UNLESS NOTED OTHERWISE ON SPECS AND/OR DRAWINGS.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
8. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH ACI DETAILING MANUAL 1994 (SP-66)
9. ALL REINFORCING SHALL BE SUPPORTED IN FORMS USING STEEL CHAIRS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH CRSI "MANUAL OF STANDAR PRACTICE" (1989).
10. MINIMUN CONCRETE COVER, UNLESS NOTED OTHERWISE, AS FOLLOWS:
    UNFORMED SURFACE IN CONTACT WITH THE GROUND . . . . . 3 IN.
    FORMED SUFACES EXPOSED TO EARTH OR WEATHER
    #6 BARS AND LARGER..... 2 IN.
    #5 BARS AND SMALLER..... 1-1/ IN.
    FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
    BEAMS, GIRDERS, COLUMNS, AND GRADE BEMAS.. 1-1/2 IN.
    SLABS, WALLS
    #11 BARS AND SMALLER..... 3/4 IN.
    #14 AND #18 BARS..... 1-1/2 IN.
11. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE, WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "C" SPLICES.

TENSION SPLICES (INCHES)							COMPRESSION SPLICES (INCHES)
BAR SIZE	TOP BARS A	TOP BARS B	TOP BARS C	OTHER BARS A	OTHER BARS B	OTHER BARS C	
#3	13	16	21	12	12	15	12
#4	17	22	29	12	16	20	15
#5	21	27	36	15	20	26	19
#6	27	35	46	19	25	32	23
#7	37	48	63	26	34	44	26
#8	48	63	82	35	46	60	30
#9	61	80	104	44	57	75	34
#10	78	101	132	56	73	95	38
#11	96	124	163	68	88	116	42

COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS
LAP WELDED WIRE FABRIC ONE SPACING OF CROSS WIRES PLUS 2".

12. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.
13. CONCRETE WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATIONS.
14. ALL SYMBOLS AND STRESSES AS WELL AS CONCRETE WORK SHALL CONFORM TO THE STANDARD OF THE AMERICAN CONCRETE INSTITUTE (ACI-318-95).
15. ALL SLAB AND CORRESPONDING BEAMS, CURBS, OR APRONS SHALL BE POURED MONOLITHICALLY.
16. ALL SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE IN PLACE BEFORE CONCRETE IS POURED.
17. ALL OPENINGS IN CONCRETE WALLS SHALL BE REINFORCED AROUND WITH 2#5 BARS PLACED AT 2 INCHES FROM THE FACE AND EXTENDING 24 INCHES BEYOND CORNERS, UNLESS OTHERWISE SPECIFIED IN PLANS.
18. TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN ALL ONE WAY SLAB NORMAL TO THE PRINCIPAL REINFORCEMENT IN ACCORDANCE WITH ACI-318-95 BUILDING CODE.
19. FOR CONSTRUCTION JOINTS IN STRUCTURAL MEMBERS A VERTICAL BULKHEAD AND KEY JOINT MUST BE PROVIDED.
20. ALL NEGATIVE REINFORCEMENT (TOP REINF.) AND POSITIVE REINFORCEMENT, (BOTTOM REINF.) IN SLABS AND BEAMS SHALL BE EXTENDED BEYOND THE CENTER LINE OF THE END SUPPORTS IN ACCORDANCE WITH ACI-318-95 BUILDING CODE, UNLESS OTHERWISE SPECIFIED.
21. SLAB ON GROUND, AS INDICATED ON DRAWINGS.
22. FOR CONCRETE FORMWORK, SURFACE FINISHING, BEVELED CORNERS AND DRIPS; SEE ARCHITECTURAL PLANS.
23. PROVIDE DOWELS IN WALL AND COLUMN FOOTINGS EQUAL IN SIZE AND NUMBER TO VERTICAL REINFORCEMENT, EXTENDING A TENSION SPLICE LENGTH INTO WALL OR COLUMN AND 40 BAR DIAMETER INTO FOOTING. (THE LATERAL EMBEDMENT SHALL BE EXTENDED AS NECESSARY TO PROVIDE A MIMINUM HORIZONTAL LEG RESTING ON FOOTING REINFORCEMENT EQUAL TO THE CORRESPONDING "C" LENGTH FOR THE BAR SIZE.)
24. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALL) SO AS TO CAUSE SEGREGATION OF AGGREGATES IN SUCH CASES, HOOPERS OR VERTICAL CHUTES OR TRUNKS SHALL BE USED. THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED THE ABOVE REQUIREMENTS.
25. THE SIZE OF NAILS AND SIMILAR FASTENERS DRIVEN INTO CONCRETE SHALL BE SUCH, AS NOT TO CRACK OR IMPAIR IT. NEVERTHELESS, IF THE CONCRETE IS DAMAGED, IT SHALL BE PROPERLY REPAIRED AFTER REMOVING THE DAMAGED PORTION AND SUITABLE JOINT SURFACE ARE PROVIDED.
26. ALL FORMWORK FOR FLEXURAL MEMBERS SHALL BE BUILT WITH A CAMBER CORRESPONDING TO ITS WON DEFORMATION PLUS THE STRUCTURE DEAD LOAD DEFORMATIONS. IN DETERMINIG THE AMOUNT OF CAMBER, THE CONTRACTOR SHALL HAVE THE ASSISTANCE OF THE DESIGNER WHERE SO REQUESTED.
27. ALL CAST IN PLACE REINFORCED CONCRETE STRUCTURAL MEMBERS SHALL BE PROPERLY CURED IN ACCORDANCE WITH ACI-318-95 CHAPTER V.
28. ALL REINFORCING BARS SHALL BE HIGH TENSILE DEFORMED MEETING ASTM A-615 GRADE 60.
29. ALL LAPPING, BENDING AND PLACING OR REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH ACI-318-95 BUILDING CODE.

STRUCTURAL STEEL

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
   ALL WF, CHANNELS, ANGLES, PLATES, ETC. A36
   STRUCTURAL TUBE . . . . . A500 (Fy=46)
   STEEL PIPE . . . . . A53 (Fy=35)
   ANCHOR BOLTS AND UNFINISHED BOLTS A307
   BOLTS, NUTS AND WASHERS A325
   WELDING ELECTRODES . . . . . E333, CLASS E 7018XX
   UNLESS OTHERWISE CALL FOR IN DRAWINGS.
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE 1990). EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS AND/OR DRAWINGS.
3. THE STEEL STRUCTURE IS A PARTIAL-SELF-SUPPORTING STEEL RIGID FRAME AND IS DEPENDENT UPON DIAPHRAGM ACTION OF THE METAL ROOF DECK AND ATTACHMENT TO THE MASONRY WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETED AND ARE CAPABLE OF PROVIDING THIS LATERAL SUPPORT.
4. THE FABRICATOR IS RESPONSIBLE FOR THE SHOP DRAWINGS OF ALL CONNECTONS. CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE FABRICATOR'S ENGINEER WITH THE ENGINEER'S SEAL. ENGINEER'S MAY BE QUALIFIED "FOR DETAILING OF CONNECTIONS ONLY"
5. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
6. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. UNLESS NOTED OTHERWISE, ANCHOR BEAMS TO MASONRY WITH TWO (2) 3/4" DIAMETER ANCHOR BOLTS WITH 4" HOOK AND 1'-4" EMBEDMENT.
7. STRUCTURAL STEEL WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING & INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATION. AISC, ASTM & AWS SPECIFICATIONS WILL GOVERN ALL STRUCTURAL STEEL WORKS.
8. DESIGN & CONSTRUCTION SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION STANDARD PRACTICE.
9. STRUCTURAL STEEL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER AND IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY, AWS, REQUIREMENTS.
10. ALL INSPECTION AND TESTING OF WELDING SHALL BE DONE IN ACCORDANCE TO SECTION 501 THROUGH 607 OF THE AWS DLO-94 CODE FOR WELDING IN BUILDING CONSTRUCTION.
11. ALL CONNECTIONS SHALL BE BEARING TYPE UNLESS OTHERWISE SPECIFIED ON PLANS.
12. SHOP DRAWINGS FOR ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE SUBMITTED TO THE DESIGNER FOR APPROVAL WELL IN ADVANCE OF CONSTRUCTION.
13. INCORRECTLY FRABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIAL OR CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR RIVIEW AND APPROVAL OR REGECTION, PRIOR TO REMEDIAL OR CORRECTIVE ACTION TO BE IMPLEMENTED.

MISCELLANEOUS:

1. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSABLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
3. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHUOT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
5. OPENING 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
6. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
7. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT ONCE UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCE SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
10. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD REVIEW OF THE SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
11. CONCRETE ITEMS AND REINFORCEMENT SHALL BE ERECTED IN STRICT ACCORDANCE WITH OWNER APPROVED SHOP AND ERECTION DRAWINGS FOLLOWING THE DETAILS SHOWN ON PLANS.
12. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PRODUCE CORRECTLY ALIGNED CONCRETE AND STEEL ELEMENTS CONSIDERING AMONG OTHER THINGS, THE ELASTIC DEFORMATION OF THE STRUCTURAL MEMBERS.
13. WHERE "OWNER" IS MENTIONED IN PLANS IT IS TO BE UNDERSTOOD EITHER OWNER OR HIS AUTHORIZED REPRESENTATIVE.
14. CONTRACTOR SHALL SUBMIT FOR OWNERS' APPROVAL LOCATION AND DETAILS OF CONTRUCTION JOINTS IN SLABS AND BEAMS, AND IN ANY OTHER STRUCTURAL MEMBER.
15. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON STRUCTURAL PLANS AGAINST THE DIMENSIONS ON ARCHITECTURAL PLANS BEFORE LAYING OUT THE WORK.
16. ALL STRUCTURES HAVE BEEN DESIGNED ACCORDING TO FINAL BEHAVIOR AND CONDITIONS. HOWEVER, DURING ERECTION OF SAME, CERTAIN CONDITIONS CAN ARISE FOR WHICH THE BEHAVIOR OR THE STRUCTURE HAS NOT BEEN CONTEMPLATED. THEREFORE, THE CONTRACTOR SHOULD PROVIDE AT ALL TIME ADEQUATE SHORING AND RESTORING UNTIL THE DESIGN CONDITION HAVE BEEN MET. IF THERE IS ANY DOUBT DURING ANY PHASE OF THE CONSTRUCTION, PLEASE CONSULT AND/OR NOTIFY THE STRUCTURAL DESIGNERS.
17. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS PRIOR TO STARTING CONSTRUCTION. IF ANY DISCREPANCY ARISES IN THE STRUCTURAL AND ARCHITECTURAL PLANS, THE ARCHITECTS AND ENGINEERS SHALL BE NOTIFIED IMMEDIATELY.
18. CONTRACTOR MUST PROVIDE, SET AND VERIFY DIMENSIONS AND LOCATION OF ALL ANCHORS, INSERTS BOLTS, SLEEVES, CODUITS, ETC., SHOWN OR NOTED IN ARCHITECTURAL AND/OR MECHANICAL AND PLUMBING PLANS.
19. PROVISION FOR DETAILS NOT SPECIFICALLY DRAN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACI-318-95 BUILDING CODE AND/OR AISC SPECIFICATIONS AS CLARIFIED WITH THE DESIGNER.
20. HORIZONTAL MOVEMENT OF ANY HEAVY EQUIPMENT OVER STRUCTURAL FLOORS OR ROOF AND ITS TEMPORARY AND/OR DEFINITE LOCATIONS MUST BE PREVIOUSLY APPROVED BY THE DESIGNER SO AS NOT TO OVERLOAD THE STRUCTURE OR IN ANY OTHER WAY IMPAIR THE STRUCTURE. SAME PRECAUTION SHALL BE TAKEN FOR THE PILING OF CONSTRUCTIONS MATERIAL SUPON THE STRUCTURE.
21. ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS AND INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED.
22. IN CASE OF DOUBT IN THE INTERPRETATION OF ANY ASPECT OF THESE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS, DESIGNER SHALL BE CONSULTED.
23. AT HORIZONTAL JOINTS IN WALL AND COLUMNS, THE LOWER SURFACE SHALL BE THOROUGHLY CLEARED AND ALL WEAR OR LOOSE CONCRETE REMOVED FROM THERE BEFORE POURING THE UPPER CONCRETE. (SEE SPECS. FOR ADDITIONAL REQUIREMENTS). NO JOINT SHALL BE COVERED WITH PLASTER OR OTHERWISE WITHOUT A VISUAL EXAMINATION AND APPROVAL BY THE INSPECTOR.
24. NO DEFECTIVE CONCRETE SHALL BE CORRECTED OR COVERED WITH MORTAR, PLASTER ETC. WITHOUT THE INSPECTORS' APPROVAL.

QUALITY ASSURANCE:

1. THE OWNER WILL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY OR LABORATORY TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS. THE TESTING AGENCY SHALL BE LICENSED IN THE COUNTRY WHERE THE STRUCTURE IS LOCATED AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN THE COUNTRY WHERE THE STRUCTURE IS LOCATED.
2. FAILURE OF QUALITY ASSURANCE TESTING AND INSPECTIONS TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS NOTED, NOR SHALL IT OBLIGATE THE OWNER'S REPRESENTATIVE FOR FINAL ACCEPTANCE.
3. SEE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR QUALITY ASSURANCE TESTING AND INSPECTION:
   CONCRETE ACI-318-95
   REINFORCED MASONRY . . . .ASTM, CRSI, ACI
   STRUCTURAL STEEL . . . . . ASTM, AWS, AISC
   STEEL JOIST GIRDERS . . . . ASTM, AWS, SJI, AISC
   STEEL JOISTS . . . . . ASTM, AWS, SJI, AISC
   METAL ROOF DECK . . . . . ASTM, SDI, AISC
4. SEE GEOTECHNICAL REPORT FOR QUALITY ASSURANCE TESTING AND INSPECTIONS FOR FOUNDATION WORK.
5. THE TESTING AGENCY OR LABORATORY AND ITS REPRESENTATIVES ARE NOT AUTHORIZED TO REVOKE, ALTER, RELAX, ENLARGE OR RELEASE ANY PORTION OF THE WORK, PERFORM ANY DUTIES OF THE CONTRACTOR, OR BE A PARTY TO SHEDULING OF WORK.
6. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY OR LABORATORY AND THE OWNER'S REPRESENTATIVE A MINIMUM OF 24 HOURS IN ADVANCE OF ALL WORK REQUIRING QUALITY ASSURANCE TESTING AND INSPECTIONS AND ALL REASONABLE FACILITIES SHALL BE MADE AVAILABLE FOR TECHNICIANS.
7. RECORDS OF INSPECTIONS SHALL BE KEPT AVAILABLE TO THE BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND TWO YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT TESTING AGENCY.
8. ALL SLABS ON GROUND SHALL REST UPON EXISTING OR GRADED COMPETENT SUBSOIL MATERIAL OR UPON GRANULAR SELECTED WELL COMPACTED FILL MATERIAL, IN ACCORDANCE WITH LATEST AASHTO SPECIFICATIONS FOR FILL SOIL MATERIAL CLASSIFICATION AND COMPACTION REQUIREMENTS.

Tension Development Length (ld), (inches)

(Minimum Straight Embedment length)
for bars spaced less than 6" in, c.c.

Bar Size	f'c=3,000 psi		f'c=3,750 psi		f'c=4,000 psi		f'c=5,000 psi		f'c=6,000 psi	
	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars
#3	13	12	13	12	13	12	13	12	13	12
#4	17	12	17	12	17	12	17	12	17	12
#5	21	15	21	15	21	15	21	15	21	15
#6	27	19	25	18	25	18	25	18	25	18
#7	37	26	33	24	32	23	29	21	29	21
#8	48	35	43	31	42	30	38	27	34	25
#9	61	44	55	39	53	38	48	34	43	31
#10	78	56	70	50	67	48	60	43	55	39
#11	96	68	86	61	83	59	74	53	68	48
#14	130	93	117	83	113	81	101	72	92	66
#18	169	120	151	108	146	104	131	93	119	85

Basic Tension Splices For Grade 60 Bars

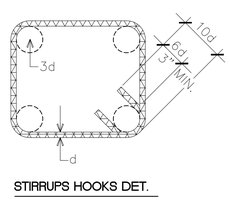
Bar Size	CLASS A,B, & C LAP SPLICE LENGTHS (INCHES)								
	f'c=3,000			f'c=4,000			f'c=5,000		
	A	B	C	A	B	C	A	B	C
#3	12	16	20	12	16	20	12	16	20
#4	12	16	20	12	16	20	12	16	20
#5	15	20	26	15	20	26	15	20	26
#6	19	25	33	18	24	31	18	24	31
#7	26	34	45	23	30	39	21	27	36
#8	35	45	59	30	30	51	27	35	46
#9	44	57	74	38	49	65	34	44	58
#10	56	72	95	48	63	82	43	56	73
#11	68	89	116	59	77	101	53	69	90

NOTE:
FOR OTHER CONDITIONS, CONSULT STRUCTURAL ENGINEERS
A. WHEN 33% OF BARS AT SECTION ARE CUT.
B. WHEN 50% OF BARS AT SECTION ARE CUT.
C. WHEN 100% OF BARS AT SECTION ARE CUT.

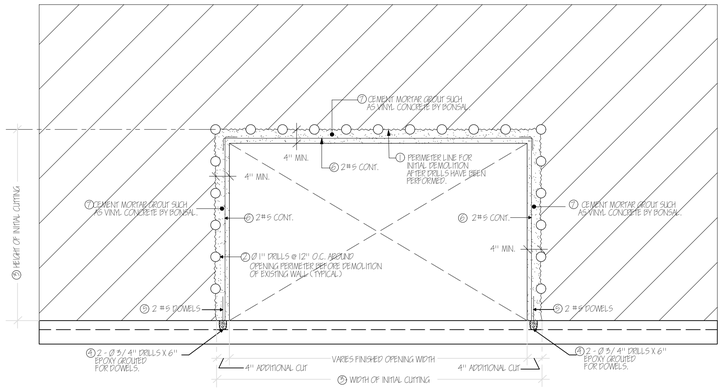
Tension Development Length (ld), (inches)

(Minimum Straight Embedment length)
for bars spaced 6" in, or more c.c.

Bar Size	f'c=3,000 psi		f'c=4,000 psi		f'c=5,000 psi	
	Top Bars	Other Bars	Top Bars	Other Bars	Top Bars	Other Bars
#3	12	12	12	12	12	12
#4	14	12	14	12	14	12
#5	17	12	17	12	17	12
#6	22	15	20	14	20	14
#7	30	21	26	18	23	17
#8	38	28	34	24	30	22
#9	49	35	42	30	38	27
#10	62	45	54	38	48	34
#11	77	54	66	47	59	42
#14	104	74	90	65	81	58
#18	135	96	117	83	105	74



STIRRUPS HOOKS DET.



WALL OPENING TYPICAL DETAIL

DEMOLITION & REPAIRING SEQUENCE

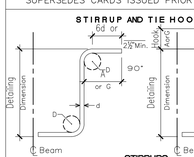
1. DELINEATE PERIMETER LINE OF INITIAL DEMOLITION AS IN FIGURE.
2. PERFORM DRILLS AS SHOWN, ø 1" @ 12" O.C. ON FIGURE.
3. CUT INITIAL OPENING AS SHOWN ON FIGURE.
4. BORE DRILLS FOR DOWELS @ WALL BOTTOM OR FOOTING.
5. INSTALL 2#5 DOWELS X 2'-0" AND GROUT WITH EPOXY COMPOUND
6. GROUT WITH VINYL CONCRETE AROUND OPENING PERIMETER AND DRILL HOLES FOR FINISHED DIMENSIONS.

ASTM STANDAR REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS, PER FOOT	NOMINAL DIMENSIONS-ROUND SECTIONS		
		DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

SUPERSEDES CARDS ISSUED PRIOR TO JAN. 1978

STIRRUP AND TIE HOOKS

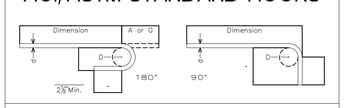


STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP AND TIE HOOK DIMENSIONS
Grades 40-50-60 ksi

Bar Size	D (in)	90 HOOK Hook A or G	135 HOOK Hook A or G	135 HOOK Approx. H
#3	1½"	4	4	2⅝"
#4	2"	4½	4½	3"
#5	2½"	6	5½	3⅝"

ACI/ASTM STANDARD HOOKS



SIZES OF 180-DEG. HOOKS
All Grades
D=6d for #3 through #8
D=8d for #9 #10 and #11
D=10d for #14 and #18

SIZES OF 90-DEG. HOOKS
All Grades
D=6d for #3 through #8
D=8d for #9 #10 and #11
D=10d for #14 and #18

RECOMMENDED END HOOK DIMENSIONS

Bar Size	180 HOOKS		90 HOOKS
	All Grades		All Grades
	A or G	J	A or G
#3	5	3	6
#4	6	4	8
#5	7	5	10
#6	8	6	1-0
#7*	10	7	1-2
#8*	11	8	1-4
#9*	1-3	11¼	1-7
#10*	1-5	1-0¾	1-10
#11*	1-7	1-2¾	2-0
#14	2-2	1-8¾	2-7
#18	2-11	2-3	3-5

* These sizes-Grade 40-check availability. Sizes #14, #18, check availability; no Grade 40 under ASTM.

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REVISIONS		
1	05/x.17	Explanation
REV. #	DATE	ISSUING REASON

PROFESSIONAL SEAL

JOSE O. GONZALEZ GARCIA
INGENIERO LICENCIADO
LIC. #6588
PUERTO RICO

CERTIFICACIÓN - CUTPOINTS - VIEW NAME

Yo, José O. Gonzalez Garcia, licencia 6588, certifico que soy el profesional que diseño, confeccionó y preparó estos planos y las especificaciones complementarias, también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y códigos de construcción vigentes de las agencias, Juntas reglamentadoras y corporaciones públicas que aplican, además, certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido con lo dispuesto en la ley 14-2004, según enmendada, conocida como la "ley para la industria puertorriqueña" y con la ley núm. 96 de 6 de julio de 1978, según enmendada, conocida como declaración falsa o fabricación de los hechos que se hayo conocimiento o desconocimiento o por negligencia ya sea por mi, mis agentes o empleados, o por otras personas sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

YO, JULIAN MARRUGUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIEN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE APLICAN, ADEMAS, CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLIDO CABALMENTE CON LA LEY NUMERO 96 DE 6 DE J

STRUCTURAL NOTES

STEEL:

1. ALL STRUCTURAL STEEL SHALL MEET A–36 A.S.T.M. STANDARD AND HAVE A YIELD–STRENGTH OF 36 KSI.
2. FABRICATION AND ERECTION SHALL MEET AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
3. ALL WELDING SHALL MEET THE AMERICAN WELDING SOCIETY STANDARDS.
4. SHOP CONNECTIONS SHALL BE WELDED USING E70XX ELECTRODES MEETING A–233 A.S.T.M. SPECIFICATIONS.
5. ALL STEEL SHALL HAVE A SHOP COAT OF RED OXIDE PAINT.
6. MANUFACTURER'S FINAL SHOP DRAWING AND SPECIFICATIONS ARE REQUIRED BY DESIGNER FOR APPROVAL.
7. THE FOLLOWING MINIMUM STANDARDS APPLY, UNLESS OTHERWISE NOTED:
   A) WELD SIZE SHALL BE 3/16"
   B) BOLT DIAMETER SHALL BE 3/4"
   C) PLATE THICKNESS SHALL BE 3/8"
   D) CONNECTION ANGLE THICKNESS SHALL BE 5/16"
   E) CONNECTIONS SHALL HAVE 2 BOLTS
8. ONE HIGH STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A SEMI–FINISHED HEXAGONAL

A LOAD INDICATOR WASHER.

LOAD CAPACITY SHOWN IN THE TABLES OF UNIFORM LOAD CONSTANTS, WHICHEVER IS GREATER.

10. ALL PROJECTING CORNERS, EXPOSED EDGES, BURRS AND SHARP EDGES SHALL GROUND SMOOTH.
HEAD BOLT, A HEAVY SEMI–FINISHED HEXAGONAL NUT, A HARDENED STEEL WASHER, AND

CONCRETE:

9. BOLTED FRAME CONNECTIONS SHALL BE BEARING TYPE, ACCORDING TO THE AISC MANUAL
1. CONCRETE SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI. UNLESS OTHERWISE STATED.
2. ALL REINFORCING STEEL BARS SHALL BE NEW BILLET DEFORMED HIGH STRENGTH GRADE STEEL CONFORMING TO ASTM A–615 LATEST EDITION (FY=60,000 PSI).
3. ALL DETAILING, FABRICATION AND PLACING OF REINFORCED BARS INCLUDING ACCESSORIES AND SUPPORTS SHALL FOLLOW THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES ACI 315.
4. VAPOR BARRIER FOR STRUCTURAL CONCRETE FLOOR SLAB SHALL BE PROVIDED BY SIX (6) MILL THICK OF POLYETHYLENE RUBBER SHEET.
5. ALL LAPPING, BENDING AND PLACING OF REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH ACI 318–95 BUILDING CODE.
6. MINIMUM STEEL PROTECTION SHALL BE AS FOLLOWS: A)FOOTING, 3" BOTTOM AND SIDE, B)SLAB ON GROUND 2", C)WALLS 3/4" INTERIOR FACE, 1 1/2" EXT. FACE; BEAMS AND COLUMNS 1 1/2" C.C. SLABS 3/4" C.C.
7. ALL SLABS AND CORRESPONDING BEAMS, CURBS OR APRONS SHALL BE POURED MONOLITHIC.
8. ALL BLOCK WALLS SHALL BE ANCHORED TO THE FLOOR GROUND SLAB BY MEANS OF #3 BARS HOOKED A MINIMUM OF 6 INCHES INTO THE SLAB AND SPACED A MINIMUM OF 16 IN. OR #4 BARS HOOKED A MINIMUM OF 8 INCHES INTO THE SLAB AND SPACED A MINIMUM OF 32 INCHES, UNLESS OTHERWISE CALLED FOR ON THE DRAWINGS.
9. CONCRETE ITEMS AND REINFORCEMENT SHALL BE ERECTED IN STRICT ACCORDANCE OWNER APPROVED SHOP AND ERECTION DRAWINGS FOLLOWING THE DETAILS SHOWN ON PLANS.
10. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PRODUCE CORRECTLY ALIGNED CONCRETE CONSIDERING AMONG OTHER THINGS, THE ELASTIC DEFORMATION OF THE STRUCTURAL MEMBERS.
11. ALL SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE IN PLACE BEFORE CONCRETE IS POURED.
12. ALL OPENINGS IN CONCRETE WALLS OR SLABS SHALL BE REINFORCED AROUND WITH 2#5 BARS PLACED AT 2 IN. FRONT HE FACE & EXTENDING 24 IN. BEYOND CORNERS, UNLESS OTHERWISE CALLED FOR IN DRAWINGS.
13. WHERE "OWNER" IS MENTIONED IN PLANS IT IS TO BE UNDERSTOOD EITHER OWNER OR HIS AUTHORIZED REPRESENTATIVE.
14. TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN ALL ONE WAY SLAB NORMAL TO THE PRINCIPAL REINFORCEMENT IN ACCORDANCE WITH ACI 318R–89 BUILDING CODE.
15. FOR CONSTRUCTION JOINTS IN STRUCTURAL MEMBERS A VERTICAL BULKHEAD AN KEY JOINT MUST BE PROVIDED.
16. ALL NEGATIVE REINFORCEMENT (TOP REINF.) & POSITIVE REINFORCEMENT, (BOTTOM REINF.) IN SLABS AND BEAMS SHALL BE EXTENDED BEYOND THE CENTER LINE OF THE END SUPPORTS IN ACCORDANCE WITH ACI 318–95 BUILDING CODE, UNLESS OTHERWISE CALLED FOR IN DRAWINGS.
17. CONTRACTOR SHALL SUBMIT FOR OWNER'S APPROVAL LOCATION AND DETAILS OF CONSTRUCTION JOINTS IN SLABS AND BEAM, AND IN ANY OTHER STRUCTURAL MEMBERS.
18. FOR REBAR SUPPORT USE CHAIRS BY DAYTON SUPERIOR OR SIMILAR.
19. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON STRUCTURAL PLANS AGAINST THE DIMENSIONS ON ARCHITECTURAL PLANS BEFORE LAYING OUT THE WORK.

DESIGN REFERENCES:

1. THE FOLLOWING REFERENCE DOCUMENTS, THEIR COMMENTARIES AND THE STANDARS REFERENCED THEREIN, SHALL APPLY TO THE DESIGN, FABRICATION, AND CONSTRUCTION PRACTICES TO BE ADHERED TO WITH REGARD TO THE WORK SHOWN ON THESE DRAWINGS:

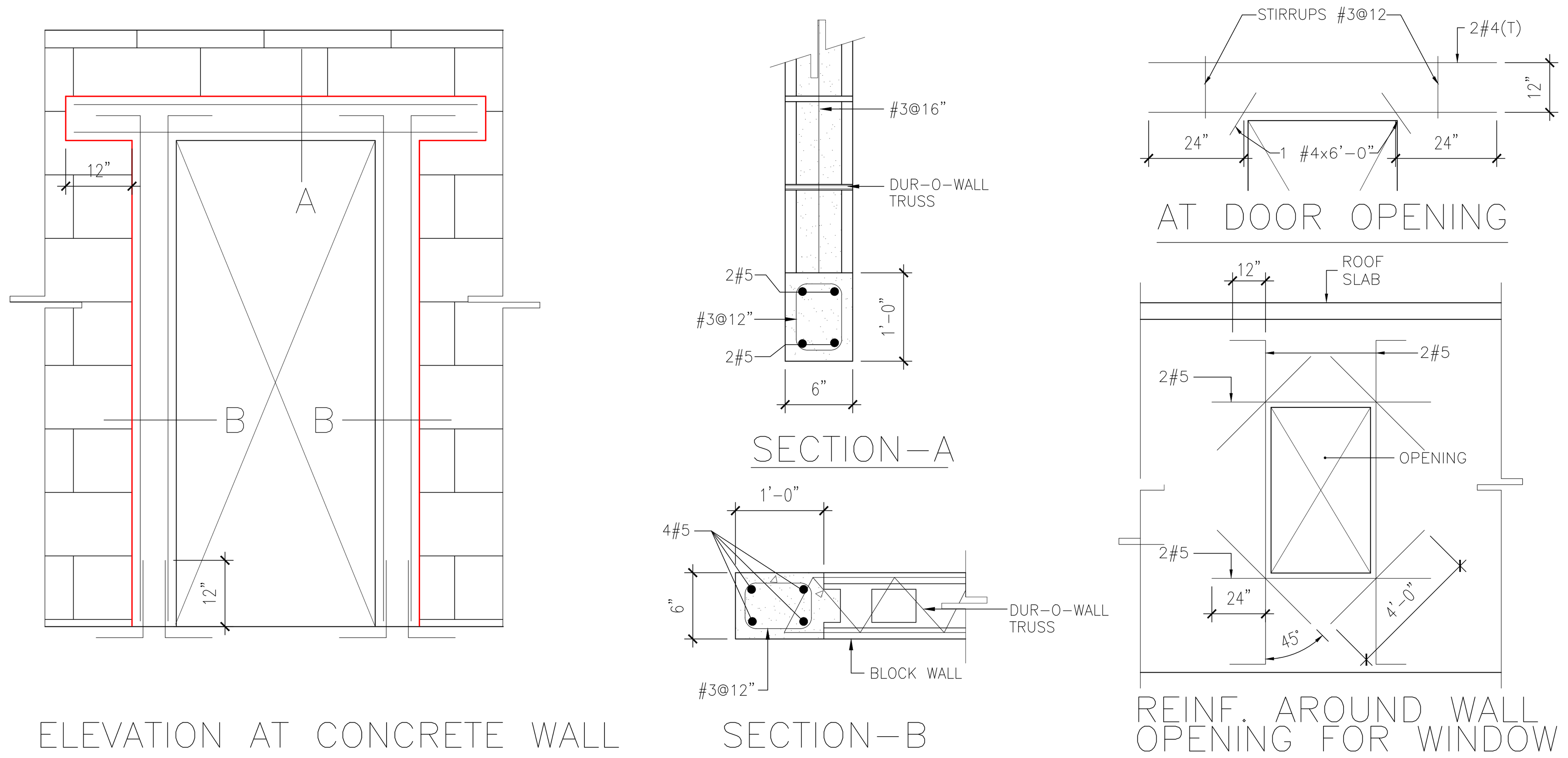
   A) UNIFORM BUILDING CODE, 1997 EDITION
   B) AISC MANUAL OF STEEL CONSTRUCTION, 13TH. EDITION
   C) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318–05)

DESIGN LOADS:

1. LIVE LOADS:
   20 PSF ROOF
2. WIND LOADS WERE OBTAINED FROM THE UBC–97 BUILDING CODE.
3. SEISMIC LOADS WERE OBTAINED FROM THE UBC–97 BUILDING CODE.

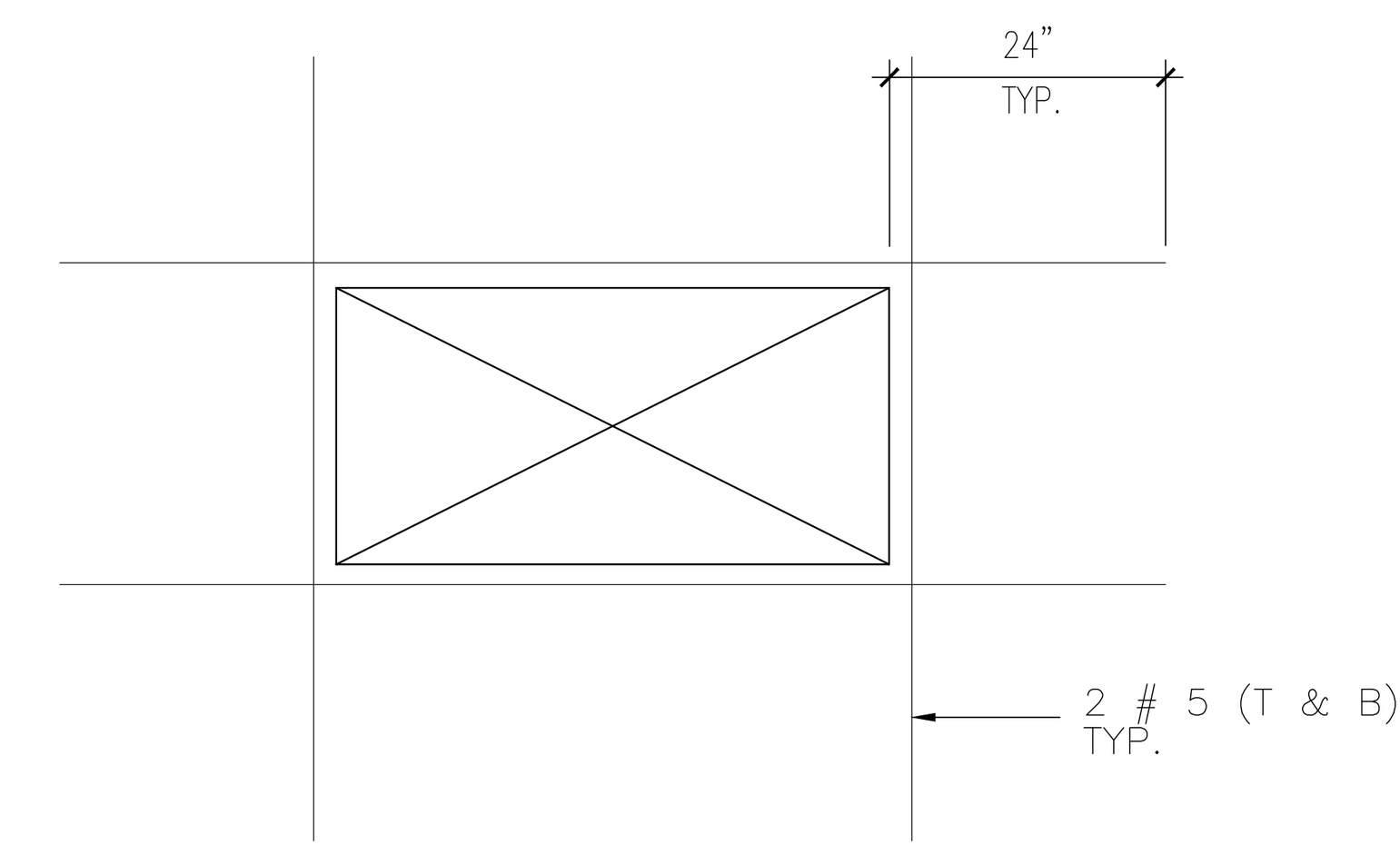
SOIL:

1. SOIL BEARING CAPACITY: 2,000 PSF ASSUMED.
   THE OWNER WILL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY OR LABORATORY TO PROVIDE A GEOTECHNICAL REPORT.
2. ALL STRUCTURE HAVE BEEN DESIGNED ACCORDING TO FINAL BEHAVIOR AND CONDITIONS HOWEVER, DURING ERECTION OF SAME, CERTAIN CONDITIONS CAN ARISE FOR WHICH THE BEHAVIOR OF THE STRUCTURE HAS NOT BEEN CONTEMPLATED. THEREFORE THE CONTRACTOR SHOULD PROVIDE AT ALL TIME ADEQUATE SHORING AND RESHORING UNTIL THE DESIGN CONDITIONS HAVE BEEN MET. IF THERE IS ANY DOUBT DURING ANY PHASE OF THE CONSTRUCTION, PLEASE CONSULT AND/OR NOTIFY THE STRUCTURAL DESIGNER.
3. FOR CONCRETE FORM WORK, SURFACE FINISHING, BEVELED CORNERS AND DRIPS, SEE ARCHITECTURAL PLANS.
4. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS PRIOR TO STARTING CONSTRUCTION. IF ANY DISCREPANCY ARISES IN THE STRUCTURAL AND ARCHITECTURAL PLANS THE ARCHITECTS AND ENGINEERS SHALL BE NOTIFIED IMMEDIATELY.
5. CONTRACTOR MUST PROVIDE, SET AND VERIFY DIMENSIONS AND LOCATION OF ALL ANCHORS, INSERTS BOLTS, SLEEVES, CONDUITS, ETC., SHOWN OR NOTED IN ARCHITECTURAL AND/OR MECHANICAL AND PLUMBING PLANS.
6. PROVISIONS FOR DETAILS NOT SPECIFICALLY DRAWN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACI 318–95 BUILDING CODE AND/OR A.I.S.C. SPECIFICATIONS AND CLARIFIED WITH THE DESIGNER.
7. HORIZONTAL MOVEMENT OF ANY HEAVY EQUIPMENT OVER STRUCTURAL FLOOR OR ROOF AND ITS TEMPORARY AND/OR DEFINITE LOCATIONS MUST PREVIOUSLY APPROVED BY THE DESIGNER SO AS NOT TO OVERLOAD THE STRUCTURE OR IN ANY OTHER WAY IMPAIR THE STRUCTURE, SAME PRECAUTION SHALL BE TAKEN FOR THE PILING OF CONSTRUCTION MATERIALS.
8. ALL TEST FOR PROPERTIES OF CONCRETE AGGREGATES, CEMENT, CONCRETE STRENGTH BY CYLINDERS, SLUMP TEST AND VIBRATION OF CONCRETE AND OTHER TESTS REQUIRED FOR CONCRETE IN THE SPECIFICATIONS, SHALL BE PERFORMED UNDER THE SUPERVISION OF A CERTIFIED TESTING LABORATORY TO BE APPROVED BY THE OWNER AND ARCHITECTS/ENGINEERS.
9. POURING OF CONCRETE SHALL NOT BE STARTED UNTIL STEEL HAS BEEN PLACED AND APPROVED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
10. ALL INTERIOR AND EXTERIOR BLOCK WALLS SHALL BE REINFORCED WITH "DUR–O–WAL" TRUSS OR APPROVED MATERIAL HAVING EQUAL EFFECTIVE AREA OF STEEL, MORTAR BOND AND APPLICABLE BUILDING CODE APPROVAL. MATERIAL SHALL BE MANUFACTURED FROM UNCOATED NO. 8 GAGE WIRE CONFORMING TO THE REQUIREMENTS OF ASTM–A–32 OR SIMILAR. "DUR–O–WAL" TRUSS SHALL BE INSTALLED EVERY OTHER BLOCK COURSE.
11. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROVIDE ADEQUATE VERTICAL AND LATERAL SUPPORT TO ALL MEMBERS DURING ALL CONSTRUCTION STAGES.
12. PROVIDE DOWELS IN WALL AND COLUMN FOOTINGS EQUAL IN SIZE AND NUMBER TO VERTICAL REINFORCEMENT, EXTENDING A TENSION SPLICE LENGTH INTO WALL OR COLUMN AND 40 BAR DIAMETER INTO FOOTING. (THE LATERAL SHALL BE EXTENDED AS NECESSARY TO PROVIDE A MINIMUM HORIZONTAL LEG RESTING ON FOOTING REINFORCEMENT. EQUAL TO THE CORRESPONDING HOOK LENGTH FOR THE BAR SIZE.
13. MAIN OPENINGS ARE SHOWN IN THE STRUCTURAL PLANS, HOWEVER, FOR EXACT SIZE AND LOCATION OF ALL OPENINGS SEE REST OF PLANS. NO OPENING, SLOT OR GROOVE SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT PREVIOUS APPROVAL AND/OR PROVISIONS BY THE STRUCTURAL ENGINEER.
14. ALL LINES STARTING AT ANY LOWER EDGE OF A FOOTING AND EXTENDED WITH A SLOPE 2 HORIZONTAL TO 1 VERTICAL SHALL REMAIN WITHIN UNDISTURBED SOIL AND SHALL NOT INTERSECT THE BOTTOM OF ANY OTHER THAT MAY ARISE FROM THE FOOTING ELEVATIONS GIVEN IN THE PLANS AND NOT MEETING THE ABOVE REQUIREMENT.
15. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALL) SO AS TO CAUSE SEGREGATION OF AGGREGATES IN SUCH CASES, HOPPERS OR VERTICAL CHUTES OR TRUNKS SHALL BE USED. THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED THE ABOVE REQUIREMENTS.
16. ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.
17. IN CASE OF DOUBT IN THE INTERPRETATION OF ANY ASPECT OF THESE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS, THE DESIGNER SHALL BE CONSULTED.
18. AT HORIZONTAL JOINTS IN WALLS & COLUMNS, THE LOWER SURFACE SHALL BE THOROUGHLY CLEANED AND ALL WEAR OR LOOSE CONCRETE REMOVED THERE FROM BEFORE POURING THE UPPER CONCRETE. (SEE SPECS. FOR ADDITIONAL REQUIREMENTS). NO JOINT SHALL BE COVERED WITH PLASTER OR OTHERWISE WITHOUT A VISUAL EXAMINATION AND APPROVAL BY THE INSPECTION.
19. NO DEFECTIVE CONCRETE SHALL BE CORRECTED OR COVERED WITH MORTAR PLASTER, ETC. WITHOUT THE INSPECTOR'S APPROVAL.
20. THE SIZE OF NAILS AND SIMILAR FASTENERS DRIVEN INTO CONCRETE SHALL, BE SUCH, AS NOT TO CRACK OR IMPAIR IT, NEVERTHELESS IF THE CONCRETE IS DAMAGE, IT SHALL BE PROPERLY REPAIRED AFTER REMOVING THE DAMAGE PORTION AND SUITABLE JOINT SURFACE ARE PROVIDED.
21. ALL FORM WORK FOR FLEXURAL MEMBERS SHALL BE BUILT WITH A CAMBER CORRESPONDING TO ITS OWN DEFORMATION PLUS THE STRUCTURE DEAD LOAD DEFORMATIONS. IN DETERMINING THE AMOUNT OF CAMBER, THE CONTRACTOR SHALL HAVE THE ASSISTANCE OF THE DESIGNER WHERE SO REQUESTED.
22. ALL CAST IN PLACE REINFORCED CONCRETE STRUCTURAL MEMBERS SHALL BE PROPERLY CURED IN ACCORDANCE WITH ACI–318R–89.



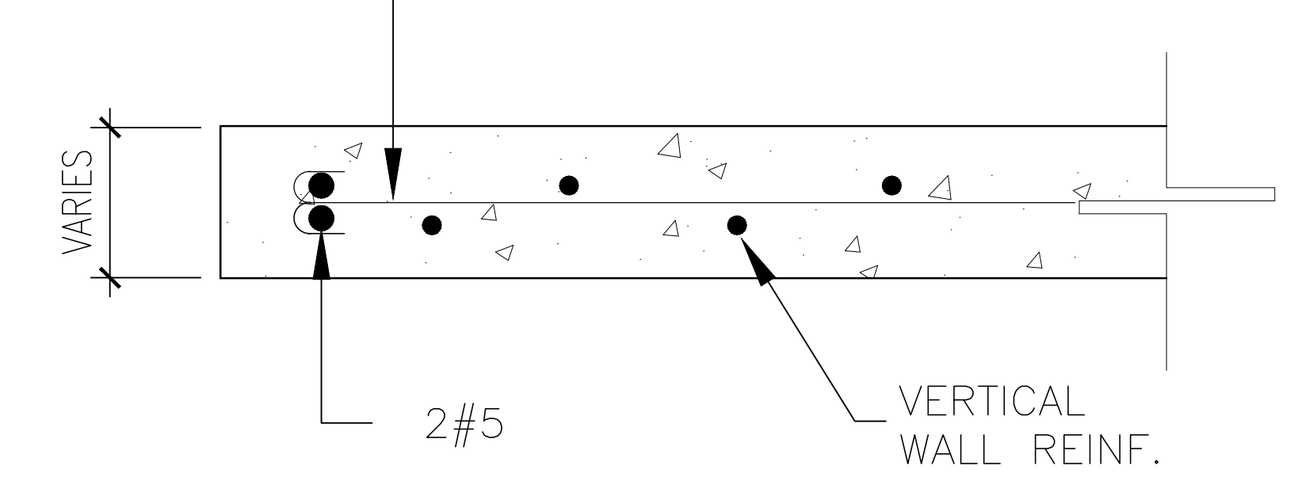
TYPICAL DOOR & WINDOW OPENING & CONCRETE & BLOCK WALLS

NOT TO SCALE



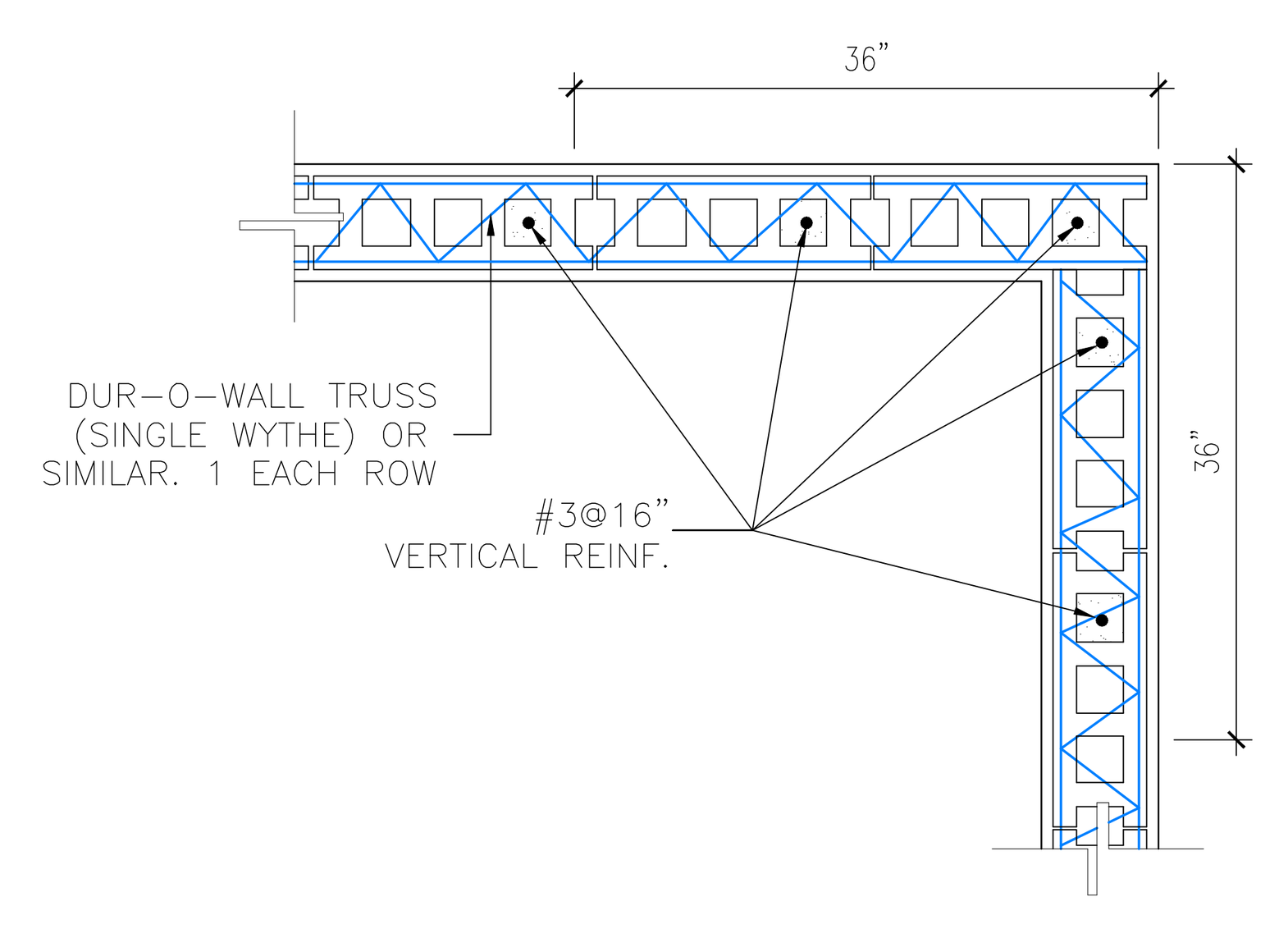
TYPICAL SLAB OPENING

NOT TO SCALE



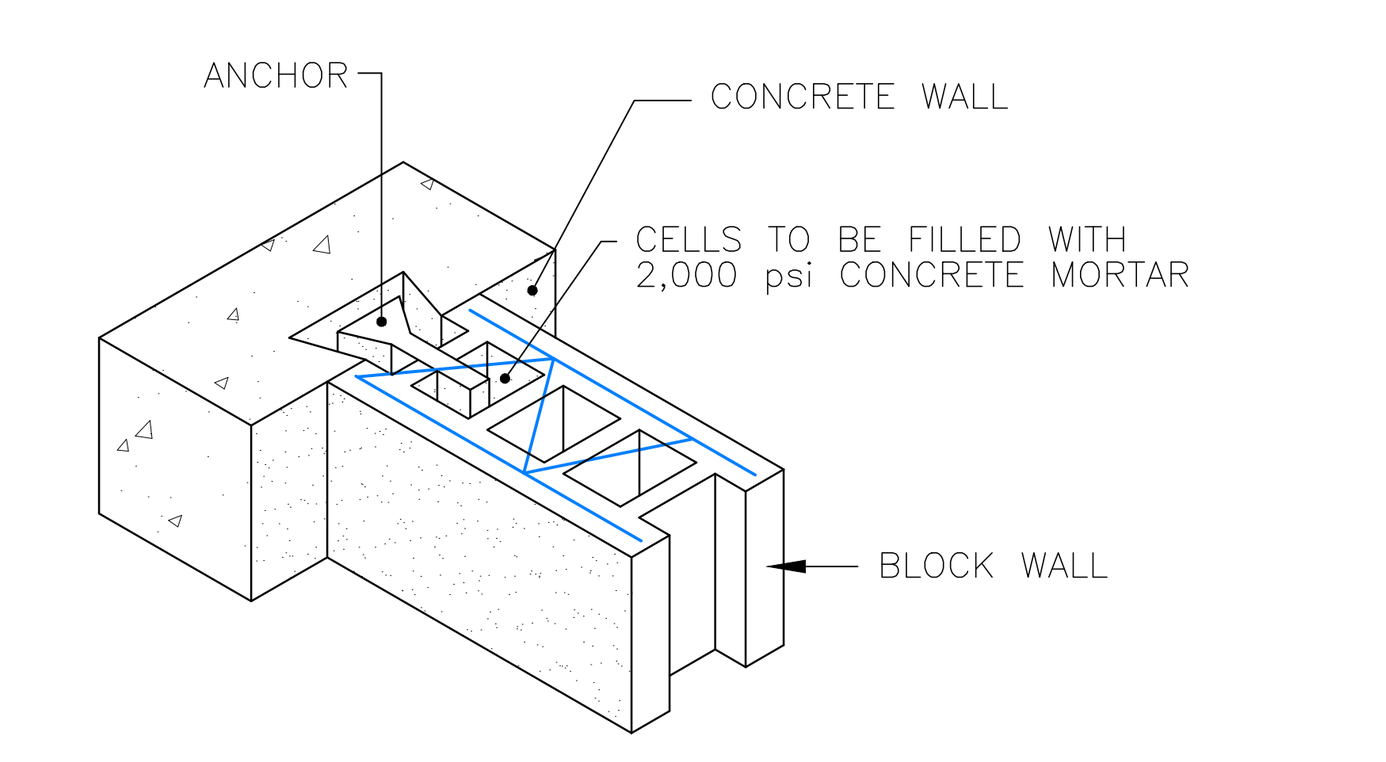
STRUCTURAL WALLS END CONDITION

NOT TO SCALE



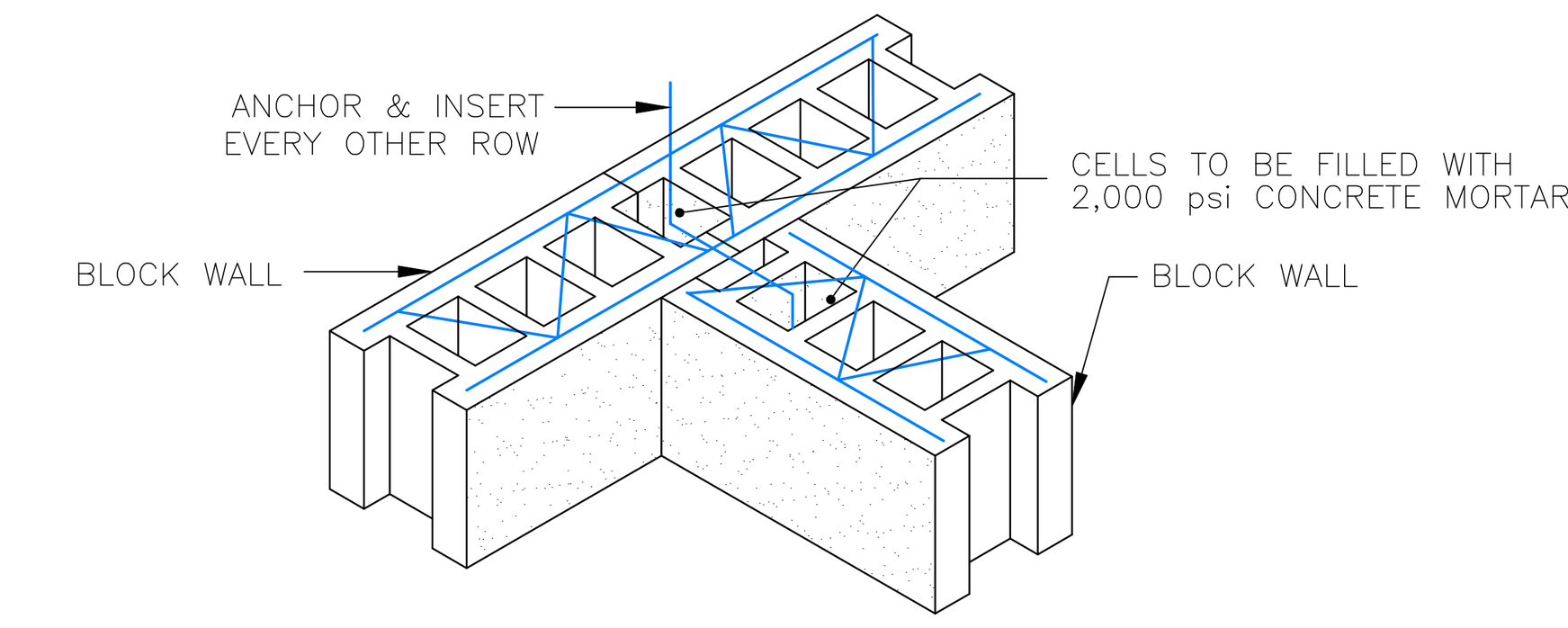
ADDITIONAL REINFORCEMENT FOR BLOCK WALL CORNER DETAIL

NOT TO SCALE



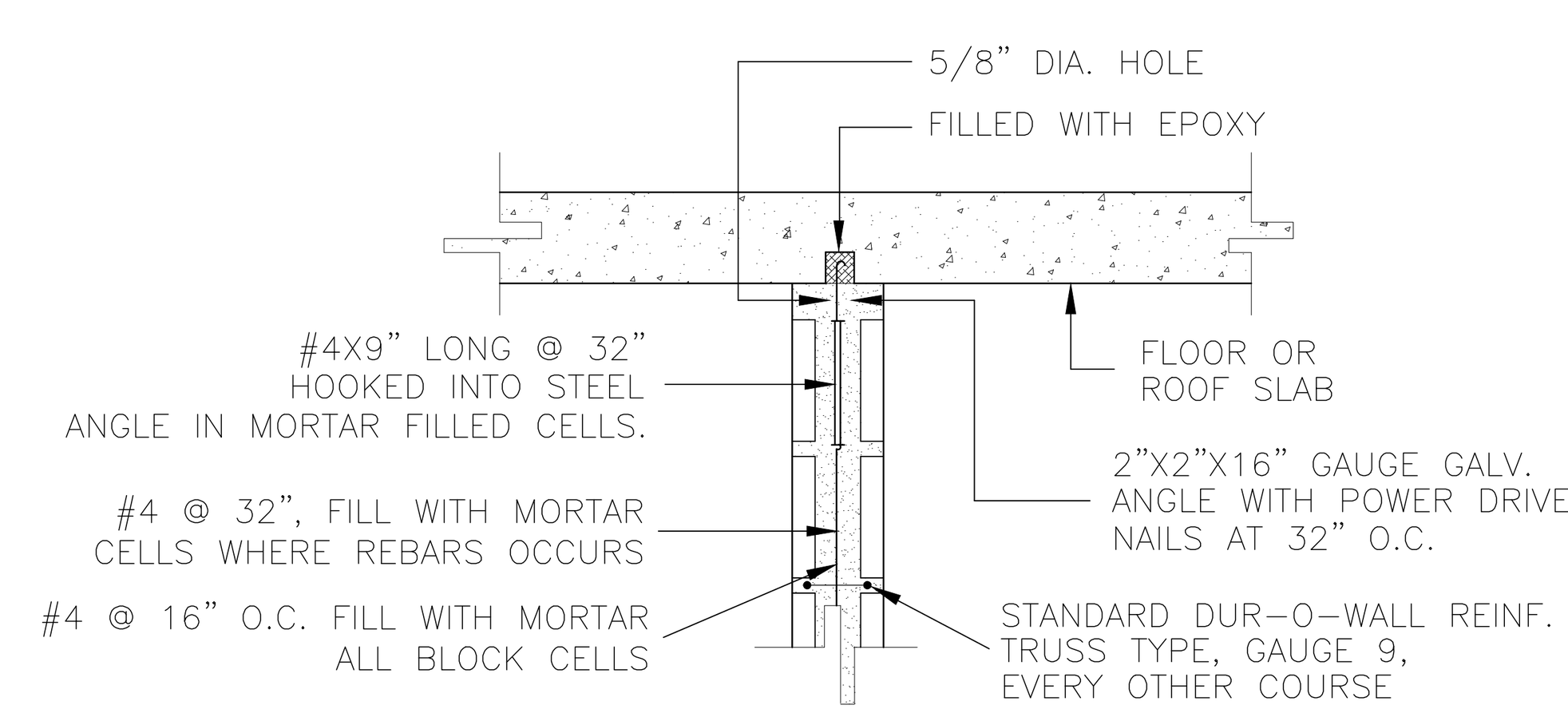
TYPICAL ANCHORAGE DETAIL OF BLOCK WALL TO CONCRETE WALL

NOT TO SCALE

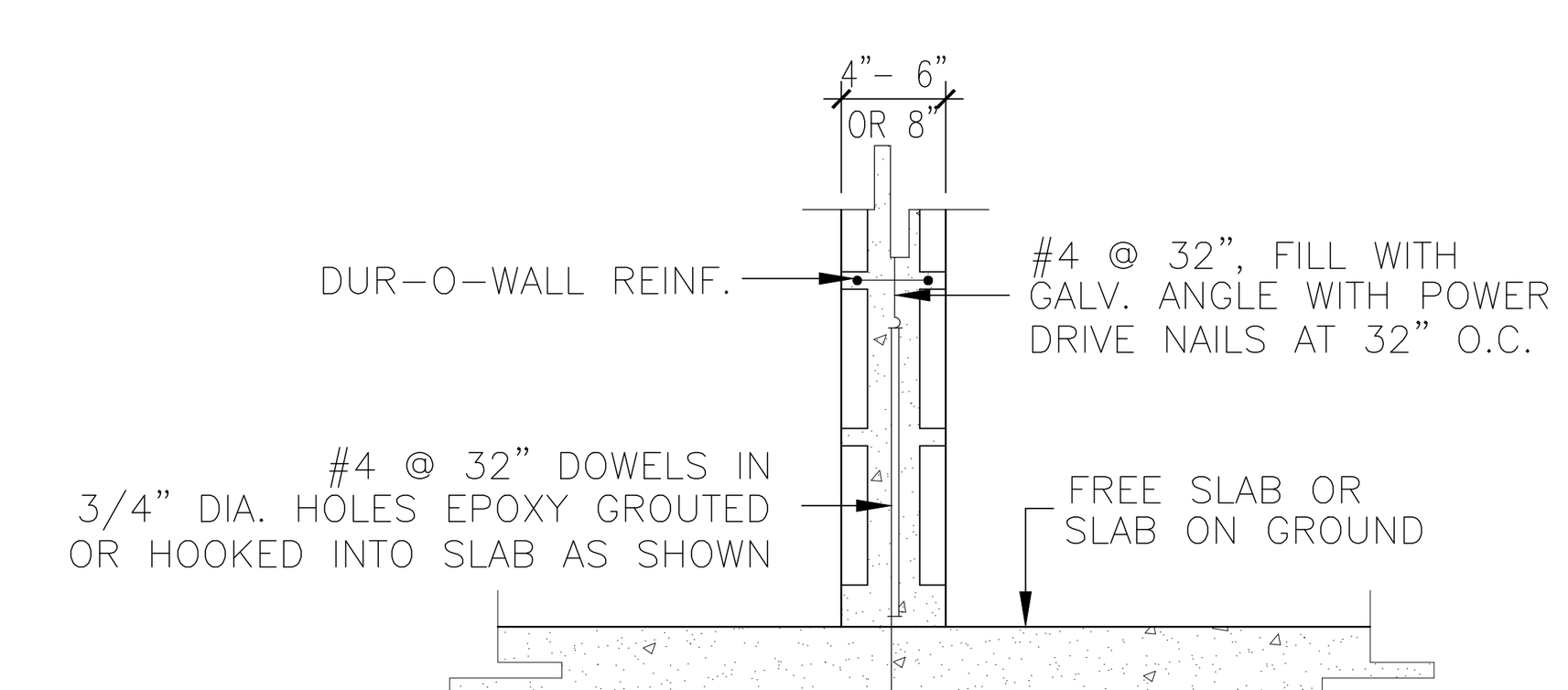


TYPICAL ANCHORAGE DETAIL OF BLOCK WALL TO BLOCK WALL

NOT TO SCALE



BELOW FLOOR SLAB



AT FLOOR SLAB

WALL ANCHORAGE DETAILS

NOT TO SCALE

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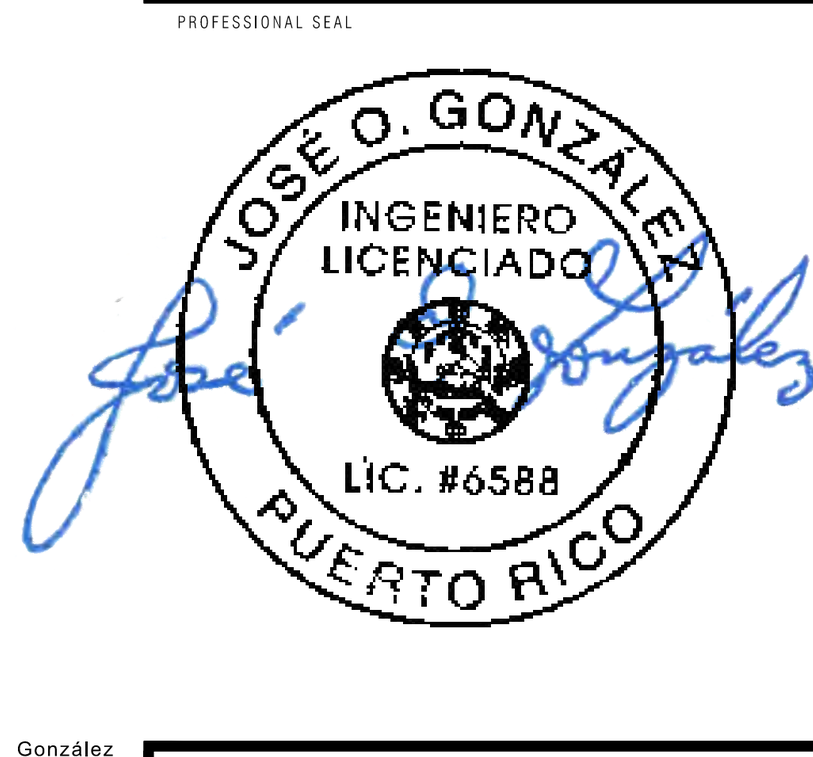
PROFESSIONAL SEAL



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CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

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e-mail: info@nformationstudio.com

PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

J.O.G. ENGINEERING CORP.

DWG. TITLE

Structural Notes & Details

CLIENT

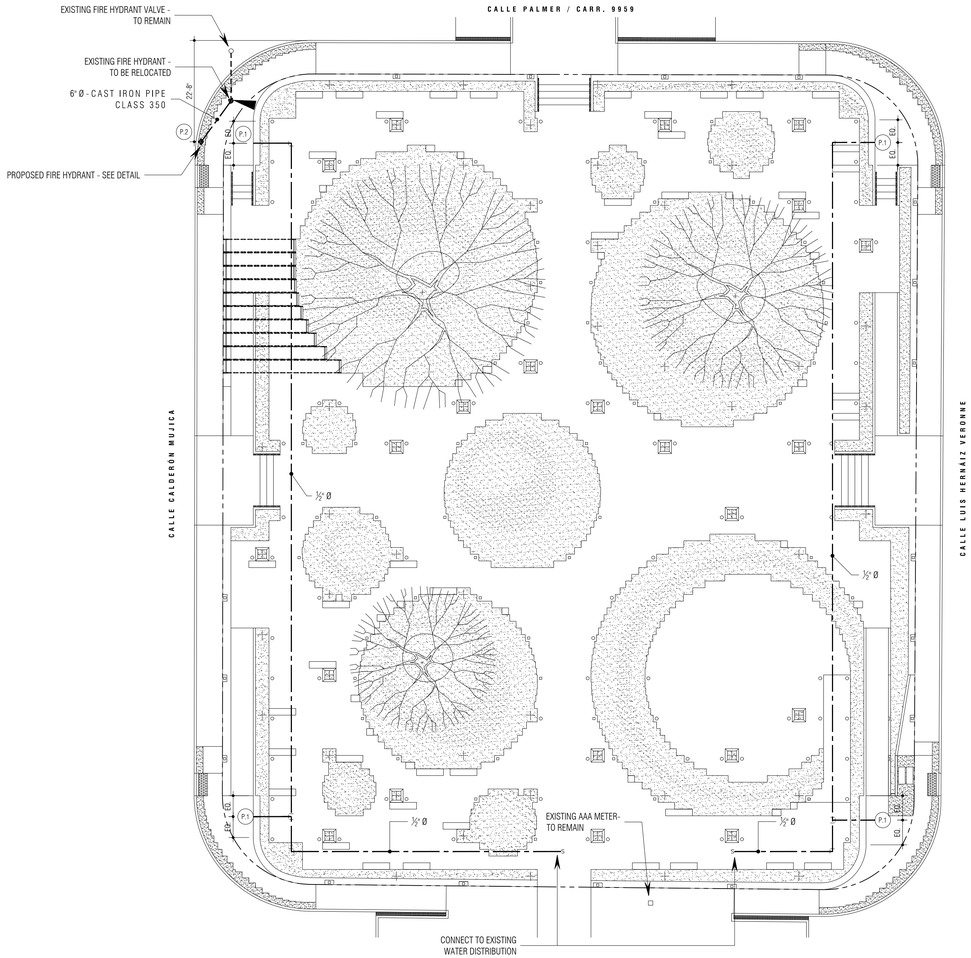
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
54	krs	26.vi.2024

DISCIPLINE

ST-3.1



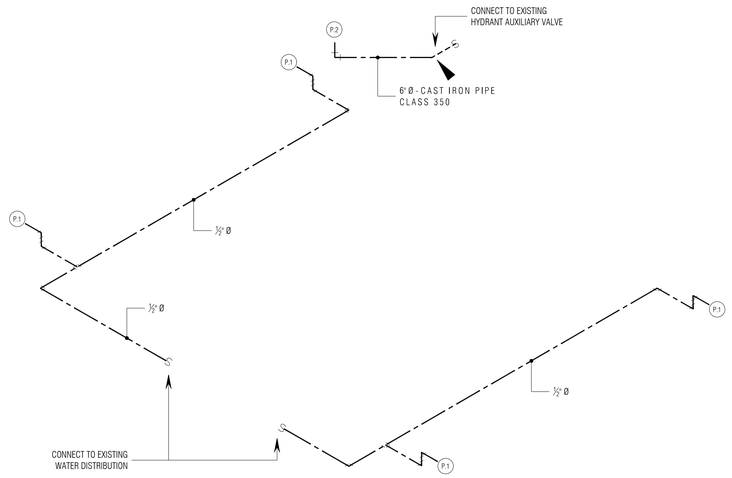
Plumbing Distribution Plan

SCALE : 1/16" = 1'-0"

Legend

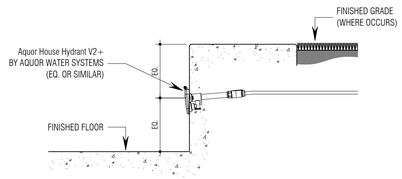
- EXISTING WATER DISTRIBUTION LINE
- WATER DISTRIBUTION LINE
- PROPOSED THRUST BLOCK

FIXTURE SCHEDULE					
ID	DESCRIPTION	COLD WATER	HOT WATER	DRAINAGE	REQ,
P-1	WALL HYDRANT	½"	N/A	N/A	4
P-2	FIRE HYDRANT	6"			1



Supply Isometric

NOT TO SCALE



Wall Hydrant Detail

SCALE: 1" = 1'-0"

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REVISIONS

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1	05/x/17	Explanation

PROFESSIONAL SEAL

julián manriquez botello puerto rico

LIC. MXX DCCC III EXP. 19 X 2025

CERTIFICACIÓN - CERTIFICATE - FIRM NAME

YO, JULIAN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO, CONFECCIONO Y PREPARÉ ESTOS PLANOS Y/O ESPECIFICACIONES, Y QUE ESTOS PLANOS Y/O ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS, REGLAMENTACIONES O CUERPO GUBERNAMENTALES PUBLICOS CON JURISDICCIÓN SOBRE ESTOS PLANOS Y ESPECIFICACIONES. ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CABALMENTE CON LA LEY NUMERO 96 DEL 6 DE JULIO DE 2004, CONOCIDA COMO LA "LEY UNIFORME DE CONSTRUCCIÓN PARA LA TORNAGUEY Y CON EL SISMA PUERTO RICO", ENMENDADA. RISK GROUP III, OCCUPANCY CATEGORY II, SEISMIC DESIGN CATEGORY C, SOIL CLASS D POR DEFECTO (SECTION 1613.3.2 OF IBC). MI NOMBRE APARECERÁ EN LOS DOCUMENTOS COMO EL PROFESIONAL QUE PREPARÓ LOS MISMOS. MI FIRMA Y SELLO APARECERÁN EN LOS DOCUMENTOS. SOY EL PROFESIONAL QUE ASUME LA RESPONSABILIDAD CON CONOCIMIENTO DE CAUSA POR LOS DISEÑOS, PLANOS Y ESPECIFICACIONES. MI RESPONSABILIDAD PROFESIONAL ESTÁ LIMITADA A LA CANTIDAD ESTIPULADA EN LA PÓLIZA DE SEGURO VIGENTE. MI PÓLIZA CUBRE ACCIONES U OMISIONES OCURRIDAS DURANTE EL PERÍODO EN QUE LA PÓLIZA ESTUVO EN VIGOR, INDEPENDIENTEMENTE DE CUANDO SE PRESENTE LA RECLAMACIÓN. MI PÓLIZA CUBRE UN MÍNIMO DE $1,000,000 POR OCURRENCIA Y UN MÁXIMO AGREGADO DE $2,000,000. MI PÓLIZA NO TIENE UN DEDUCIBLE MAYOR DE $25,000 POR RECLAMACIÓN. MI PÓLIZA ESTÁ EMITIDA POR LA COMPAÑÍA DE SEGUROS STARR INDEMNITY & LIABILITY COMPANY. MI PÓLIZA NO ESTÁ SUJETA A CANCELACIÓN, NO RENOVACIÓN O MODIFICACIÓN SIN NOTIFICACIÓN PREVIA POR ESCRITO CON TREINTA (30) DÍAS DE ANTELACIÓN. MI PÓLIZA ESTÁ EN VIGOR DESDE EL 1 DE JULIO DE 2024 HASTA EL 1 DE JULIO DE 2025.

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Plumbing Distribution Plan

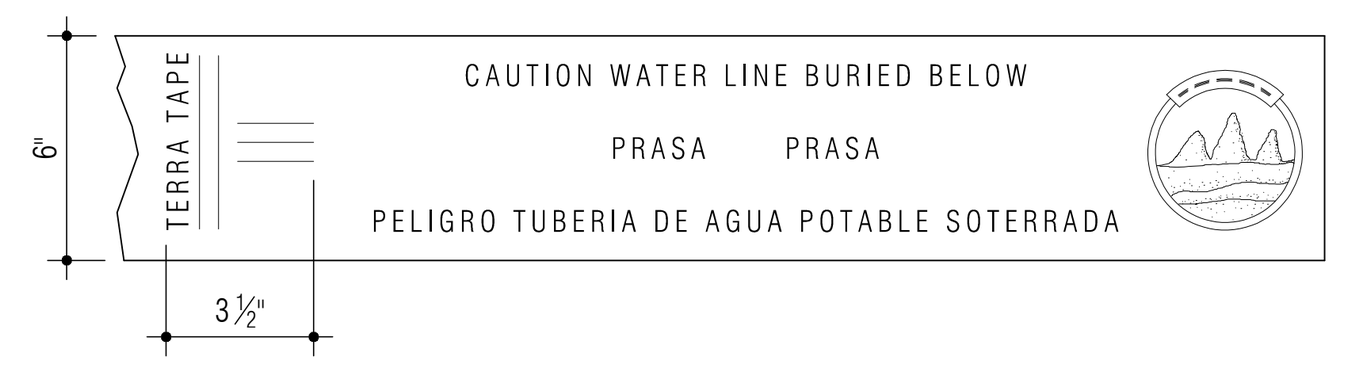
CLIENT

Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%
SHEET #	DRAWN BY / DATE
55	krs / 26.vi.2024

DISCIPLINE

P-1.0



COLOR:
GREEN

MATERIAL:
ALUMINUM FOIL LAMINATED BETWEEN TWO LAYERS OF INERT PLASTIC FILM

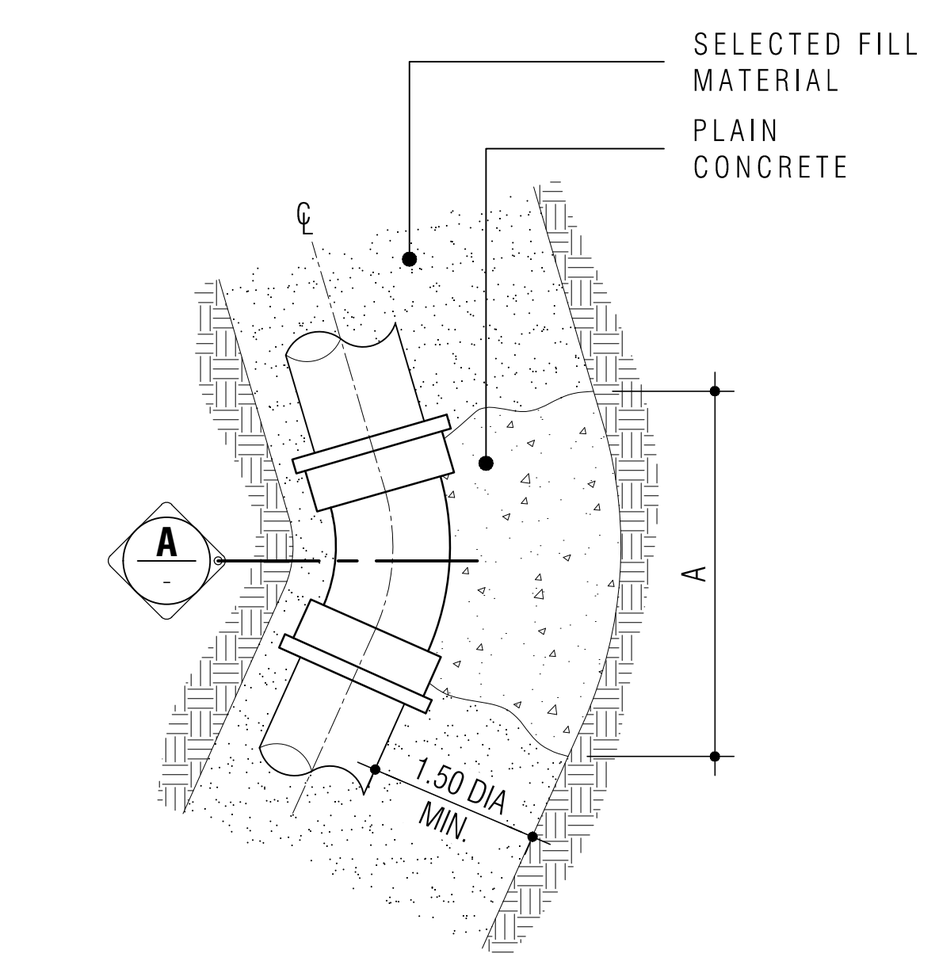
IMPRINT COLOR:
BLACK

COSTUMER:
PRASA SAN JUAN, PR

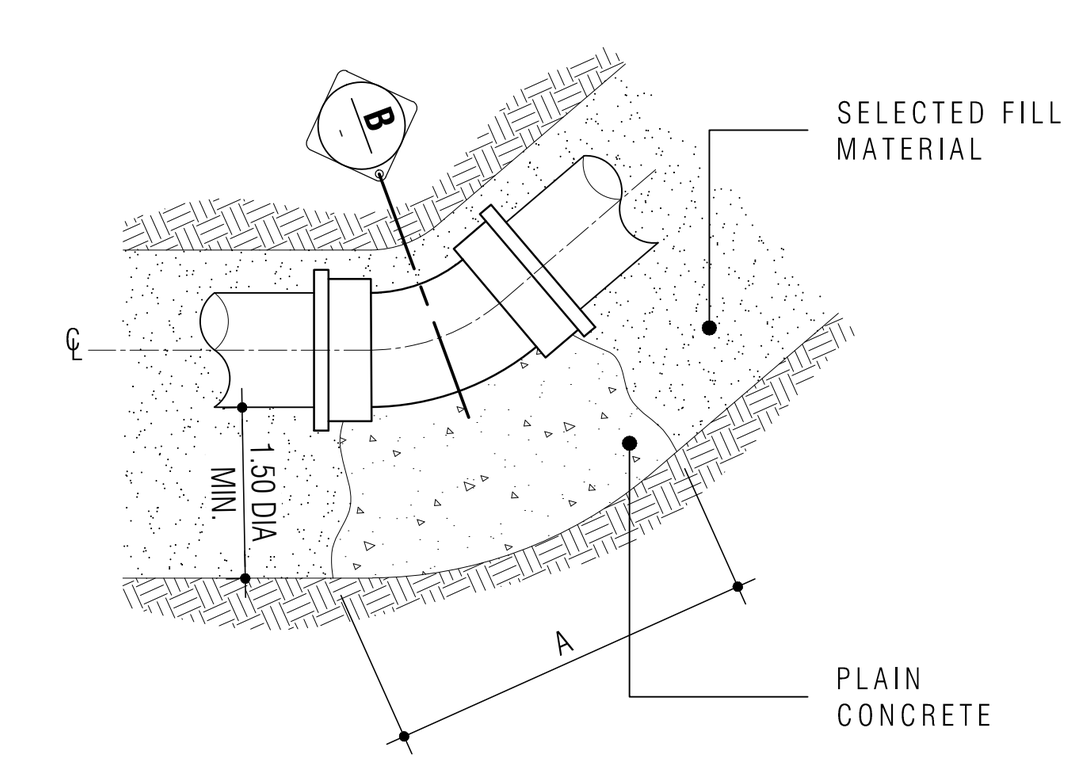
PRODUCT CODE:
6" 0521556,
3" 0531556

6" Detectable Marking Tape Detail for Water Main

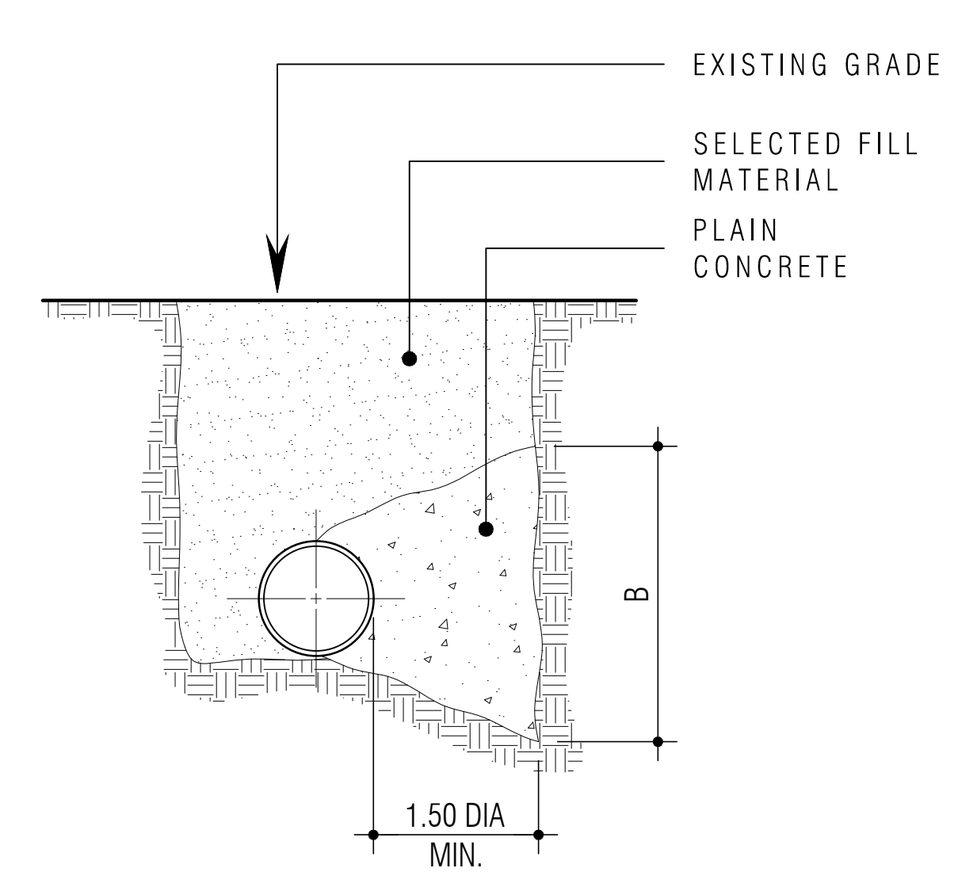
NOT TO SCALE



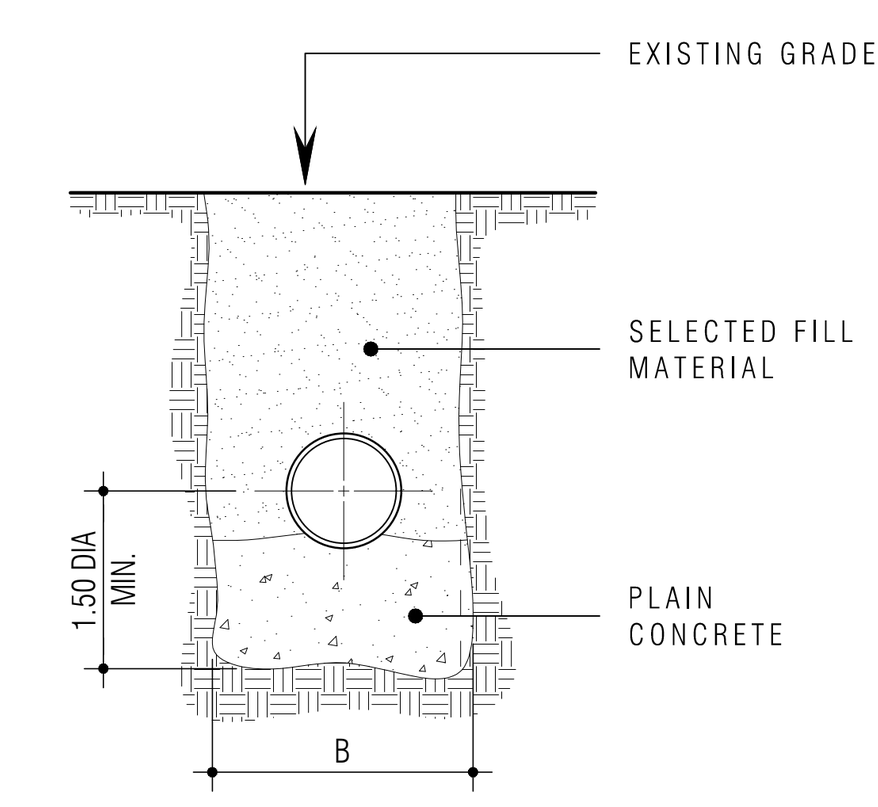
Plan



Profile



Section A



Section B

90° BEND		
DIA.	A	B
0'-4"	2'-0"	2'-0"
0'-6"	3'-0"	3'-0"
0'-8"	4'-0"	4'-0"
0'-10"	4'-0"	4'-0"
1'-4"	7'-0"	7'-0"

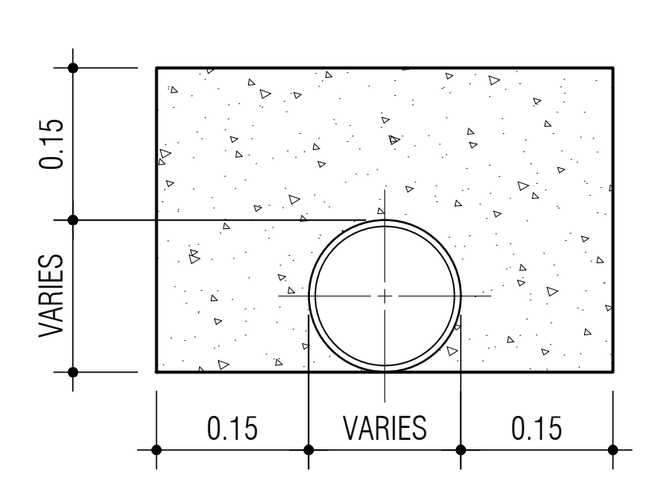
22.5° BEND		
DIA.	A	B
0'-4"	1'-0"	1'-0"
0'-6"	2'-0"	2'-0"
0'-8"	2'-0"	2'-0"
0'-10"	2'-0"	2'-0"
1'-4"	4'-0"	4'-0"

45° BEND		
DIA.	A	B
0'-4"	2'-0"	2'-0"
0'-6"	2'-0"	2'-0"
0'-8"	3'-0"	3'-0"
0'-10"	3'-0"	3'-0"
1'-4"	5'-0"	5'-0"

11.25° BEND		
DIA.	A	B
0'-4"	1'-0"	1'-0"
0'-6"	1'-0"	1'-0"
0'-8"	2'-0"	2'-0"
0'-10"	2'-0"	2'-0"
1'-4"	3'-0"	3'-0"

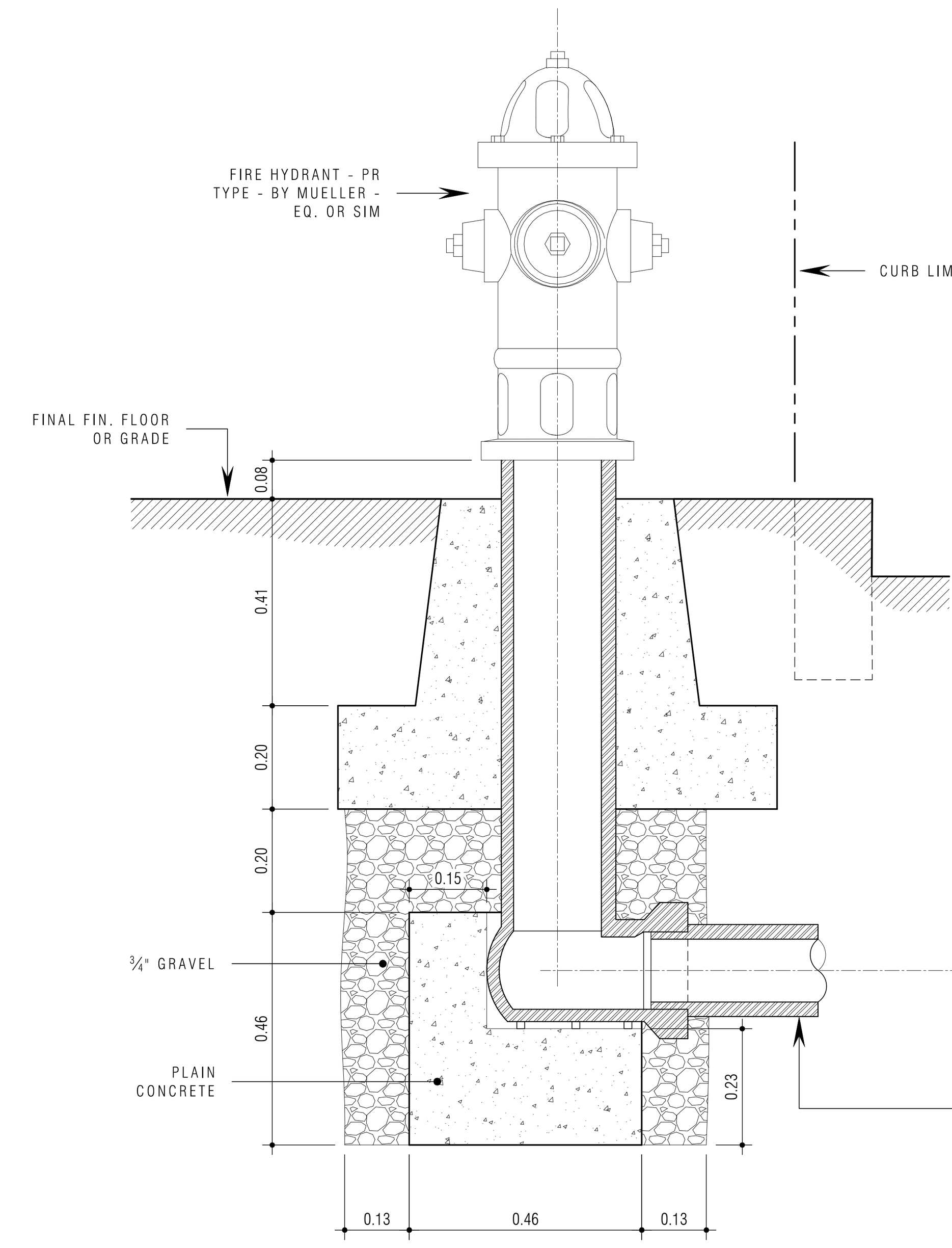
Thrust Block For Horizontal & Vertical Bends

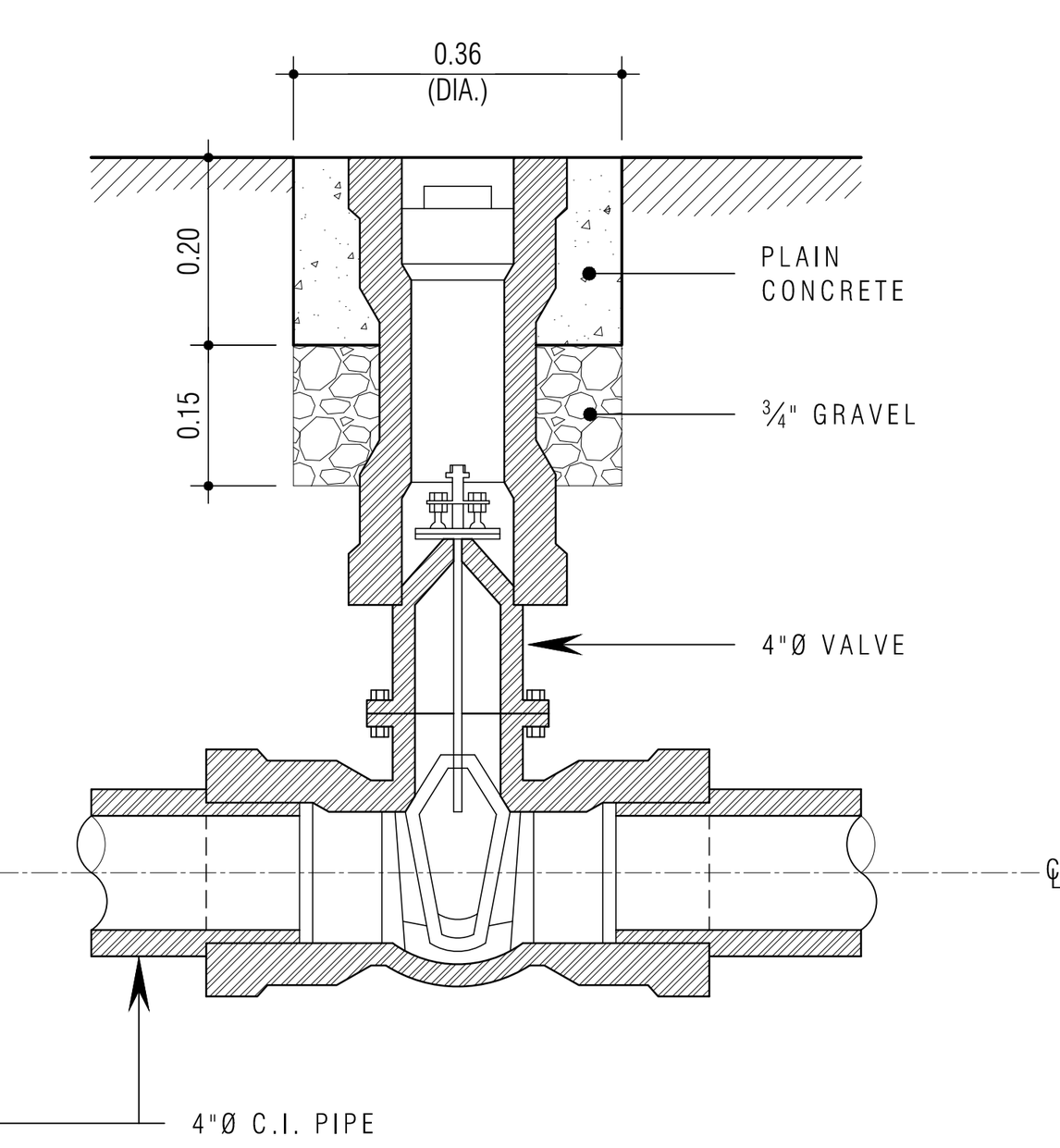
NOT TO SCALE



Concrete Protection for House Connection Detail

NOT TO SCALE



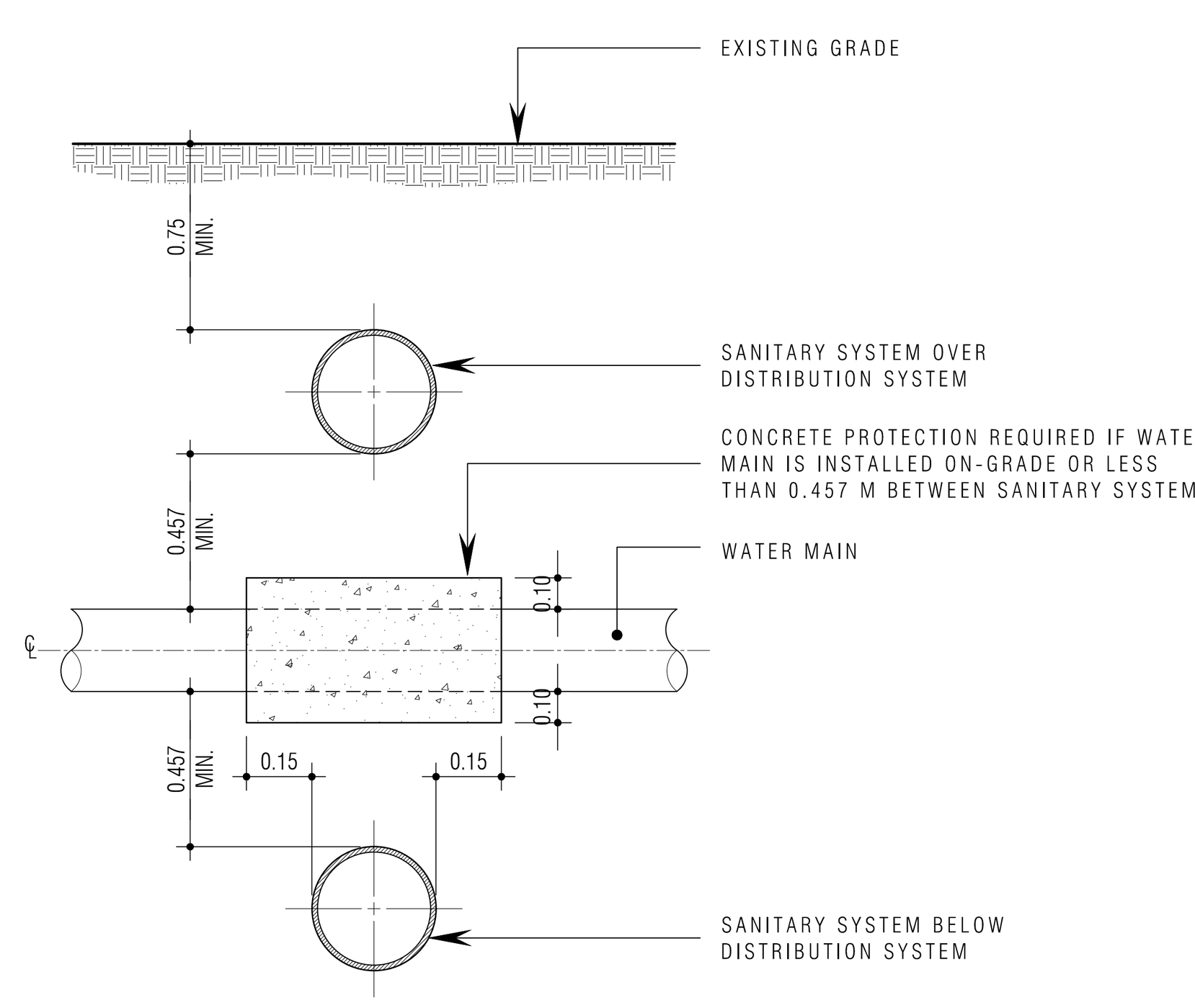


Notes

1. FIRE HYDRANTS TO BE SPACED AT 150 METERS MAX. FOR CURVED STREETS OR ROADS, THE MAXIMUM DISTANCE SHALL BE CALCULATED ON A LINE PARALLEL TO THE CENTER LINE OF THE STREET OR ROAD.
2. WHERE AVAILABLE, FIRE HYDRANTS TO BE INSTALLED IN PLANTING STRIP BETWEEN CURB AND SIDEWALK. IF NO PLANTING STRIP IS AVAILABLE, THEN THE FIRE HYDRANT TO BE INSTALLED AT A MINIMUM OF ONE METER FROM THE PROPERTY LINE.
3. FIRE HYDRANT TO BE INSTALLED FOUR (4) METERS (13 FT) MINIMUM FROM ANY STREET OR ROAD INTERSECTION, NOT INTERFERING WITH EXISTING DRIVEWAYS, RESIDENCE YARDS, OR OTHER ENTRIES.
4. PIPE CONNECTION TO BE DETERMINED AS FOLLOWS: 4"Ø PIPE CONNECTION WHERE THE SUPPLY WATER MAIN IS 4"Ø AND/OR 6"Ø PIPE CONNECTION WHERE THE SUPPLY WATER MAIN IS 6"Ø OR LARGER.

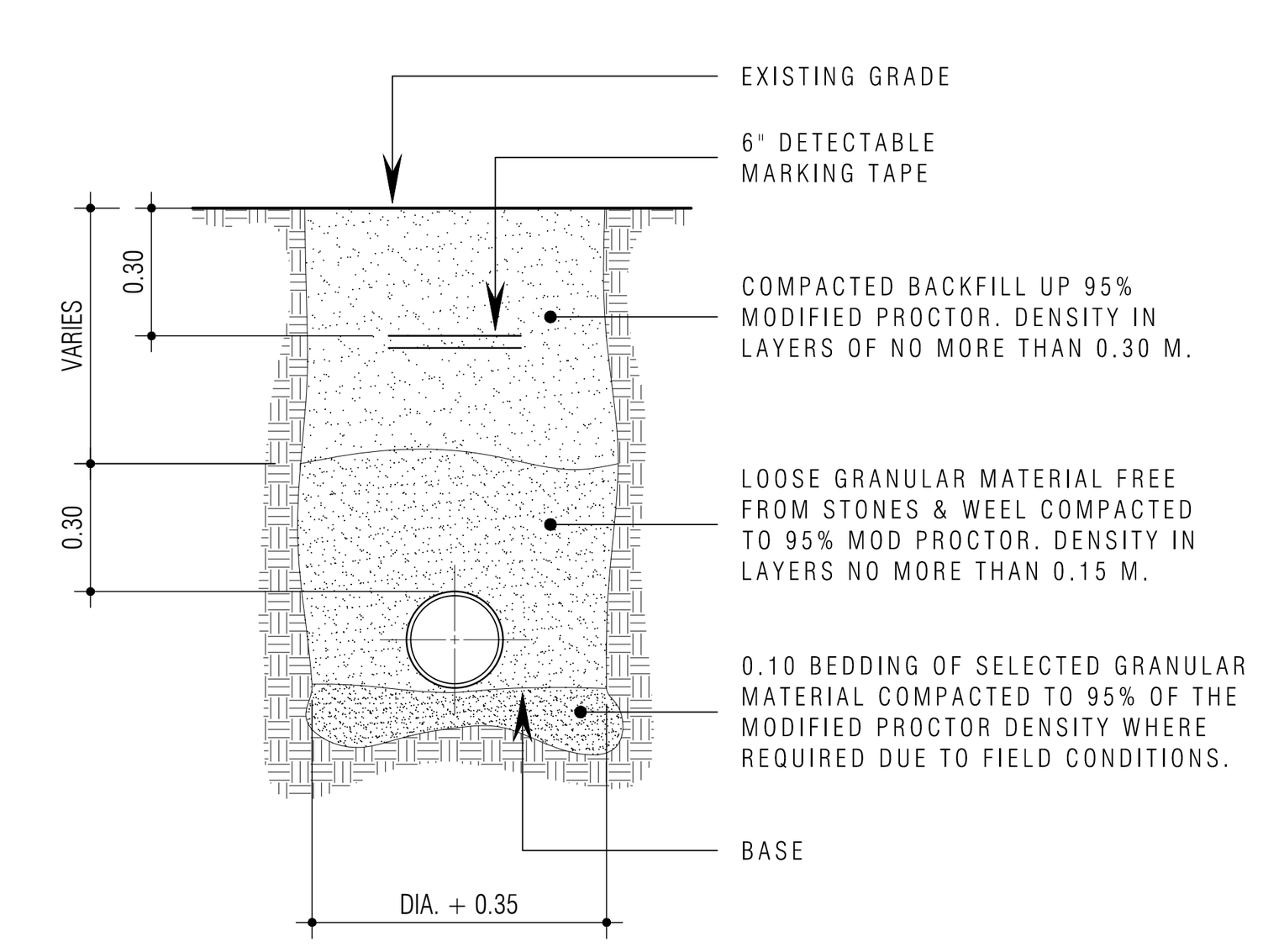
Fire Hydrant Detail

NOT TO SCALE



Water Main & Sanitary Crossing

NOT TO SCALE



Water Main Trench Detail

NOT TO SCALE

General Notes

1. ALL PLUMBING TO BE COORDINATED BETWEEN GENERAL CONTRACTOR, PLUMBING SUB-CONTRACTOR, AND ARCHITECT.
2. REFER TO ARCHITECTURAL DRAWINGS FOR REFERENCE AND UTILITIES LOCATION.
3. ANY ISSUES, DISCREPANCIES, OR CONFLICTS BETWEEN THE ARCHITECTURAL INTENTIONS AND ANY OTHER DISCIPLINE MUST BE BROUGHT FORTH SO THAT ALL PARTIES CAN PROPOSE SOLUTIONS.
4. PLUMBING DIAGRAMS ARE TO BE INTERPRETED AS BEST THE SITUATION ALLOWS AS TO NOT CONFLICT WITH THE ARCHITECT'S INTENTIONS.
5. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE AND THE NATIONAL PLUMBING CODE (A.S.A-A 40.8-1955) SPECIFICATION ISSUED OF THIS PROJECT.
6. ALL PLUMBING MATERIAL SHALL BE AS INDICATED IN SPECIFICATION ISSUED FOR THIS PROJECT,EXCEPT OTHERWISE NOTED OR CALLED FOR BY OWNER.
7. ALL VALVES SHALL BE PROVIDED IN THE WALL ON FLOOR OR AS R.Q.D.
8. LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
9. ALL HORIZONTAL PORTIONS OF SOIL AND WASTE STACKS AND BRANCHES, SHALL BE OF SLOPE 1/4" PER FEET,EXCEPT AS FOR OTHERWISE SHOWN.
10. ALL PIPES SHALL BE ADEQUATE AND SUPPORTED ON HANGERS OR CARRIERS AS R.Q.D. HANGERS SHALL BE PLACE AT 8 FEET INTERVALS FOR PIPE SIZES UP TO 4" DIAMETER.
11. THE SIZE GIVEN IN FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE USED EXCEPT IN SOME CASES WHERE THEY SHALL BE INCREASED AS R.Q.D.BY PLUMBING CODE.
12. THE PLUMBING CONTRACTOR SHALL SEEK APPROVAL AND ADVICE FROM THE ARCHITECT AND STRUCTURAL ENGINEER FOR THE LOCATION OF PIPES INSIDE STRUCTURAL CONCRETE, COMPLYING WITH A.C.I. BUILDING CODE,ART 703 LATEST EDITION.

Plumbing Notes for PRASA

1. ALL WATER METER BOXES TO BE INSTALLED OUTSIDE OF PROPERTY LIMITS, DRIVING LANES, PARKING, OR VEHICULAR ACCESS RAMPS.
2. ALL WATER METERS SHALL REGISTER WATER VOLUME IN CUBIC METERS.
3. ALL WATER METER BOXES TO BE BUILT FROM EITHER FLEXIBLE COPPER TYPE "K" OR BRONZE.
5. ALL BRANCH CONNECTIONS OF MAIN WATER LINE SHALL BE MECHANICAL CONNECTIONS (FLARE OR BOLTED). FOR FLEXIBLE COPPER, TYPE "K" ARE REQUIRED. FOR BRONZE, BOLTED CONNECTIONS ARE REQUIRED. WELDED CONNECTIONS ARE NOT ALLOWED.
6. ALL COLD WATER PIPES INSIDE & OUTSIDE OF BUILDING SHALL BE COPPER TYPE "K".
7. THE HORIZONTAL DISTANCE BETWEEN SANITARY AND WATER SUPPLY HOUSE CONNECTION LINES SHALL BE OF AT LEAST 5 FEET. THESE SHALL NOT BE INSTALLED WITHIN THE SAME EXCAVATION TRENCH.
8. CONTRACTOR SHALL VERIFY ON FIELD EXISTING LOCATION OF MAIN COLD WATER LINES ON STREET AND INSTALL NEW CONNECTIONS AS PER DETAIL.
9. WATER MAIN & CITY SEWER CONNECTIONS SHALL BE AS APPROVED BY P.R.A.S.A.
10. VALVES SHALL BE PROVIDED IN ALL CONNECTIONS OF WATER PIPES AND EQUIPMENTS OF EQUAL SIZE.
11. HORIZONTAL WASTE LINES AND SOIL PIPES LESS THAN 4" DIA. TO BE OF ¼"/FT SLOPE & GREATER THAN OR EQUAL TO 4" DIA. TO BE OF ⅛"/FT SLOPE.
12. ALL P.V.C. DRAIN PIPES AND FITTINGS FOR DRAIN, WASTE, & VENT SERVICE SHALL CONFORM TO THE U.S. DEPARTMENT OF COMMERCE STANDARD TS. 5608, BE MADE FROM POLYVINYL (CHLORIDE) P.V.C. TYPE I OR II COMPOUND OR EQ. AS PER ASTM DESIGNATION D1784 COT. & BEAR THE SEAL OF APPROVAL BY THE NATIONAL SANITATION FOUNDATION.
13. ALL P.V.C. PIPE TO BE SCH. 40 (EXCEPT OTHERWISE SPECIFIED).
14. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS WITH JURISDICTION.
15. THESE DRAWINGS CALL FOR FINISHED WORK, TESTED, BALANCED, AND PREPARED FOR OPERATION. BALANCE RECORDS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO SYSTEM APPROVAL.
16. MINOR DETAILS NOT SHOWN NOR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION, SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S WORK.
17. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCY BETWEEN ACTUAL MEASUREMENTS AND THOSE INDICATED, AND NOT PROCEED WITH THE WORK PRIOR TO RECEIPT OF INSTRUCTIONS FROM THE OWNER.
18. THE CONTRACTOR SHALL WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO AVOID CONFLICT WITH THE WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK, WHILE MAINTAINING THE DESIGN INTENT OF THE ARCHITECT.
19. WHERE REQUIRED, THE CONTRACTOR SHALL PREPARE AND SUBMIT THE NECESSARY SHOP DRAWINGS FOR THE APPROVAL OF THE ARCHITECT.
20. ALL FIXTURES, MATERIALS, & EQUIPMENTS SHALL BE INSTALLED AS PER MANUFACTURER SPECIFICATIONS.
21. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENTS TO BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS.
22. THE CONTRACTOR SHALL PATCH ALL SURFACES AFFECTED BY THE REQUIRED WORK SHOWN IN THESE DRAWINGS.
23. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE OWNER.
24. SLEEVES SHALL BE PROVIDED FOR ALL MECHANICAL PIPING THRU CONCRETE FLOOR SLABS AND CONCRETE, MASONRY, TILE AND DRYWALL CONSTRUCTION.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING SANITARY INVERT ELEVATIONS PRIOR TO ANY CONCRETE POUR, AND NOTIFYING THE ARCHITECT IF ANY SANITARY SLOPE CAN NOT BE ACHIEVED.
26. FINAL SANITARY AND POTABLE WATER CONNECTIONS ARE SUBJECT TO P.R.A.S.A. APPROVAL.

Notes:

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3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.

4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

julián manriquez botello puerto rico
arquitecto licenciado
LIC: MXX DCCC III
EXP: 18.X.2025

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

YO, JULIÁN MANRIQUEZ BOTELLO, LICENCIA 19803, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑÓ, CONFECCIONÓ Y PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCIÓN VIGENTE DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14-2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NÚMERO 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA. RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPe. THIS DRAWING AND ITS CONTENTS ARE THE INTELLECTUAL PROPERTY OF IN.FORMATION STUDIO LLC, AND SHALL BE USED AS A REFERENCE DOCUMENTS AND WORKING INSTRUMENT ONLY BY AUTHORIZED PERSONNEL AND FOR THE SPECIFIC PROJECT HEREIN DESIGNED. ANY, TOTAL, PARTIAL REPRODUCTION OR USE OF SAID DOCUMENT OR THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED WITHOUT THE WRITTEN CONSENT AND SHALL BE RETURNED TO IN.FORMATION STUDIO.

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PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Plumbing Notes & Details

CLIENT

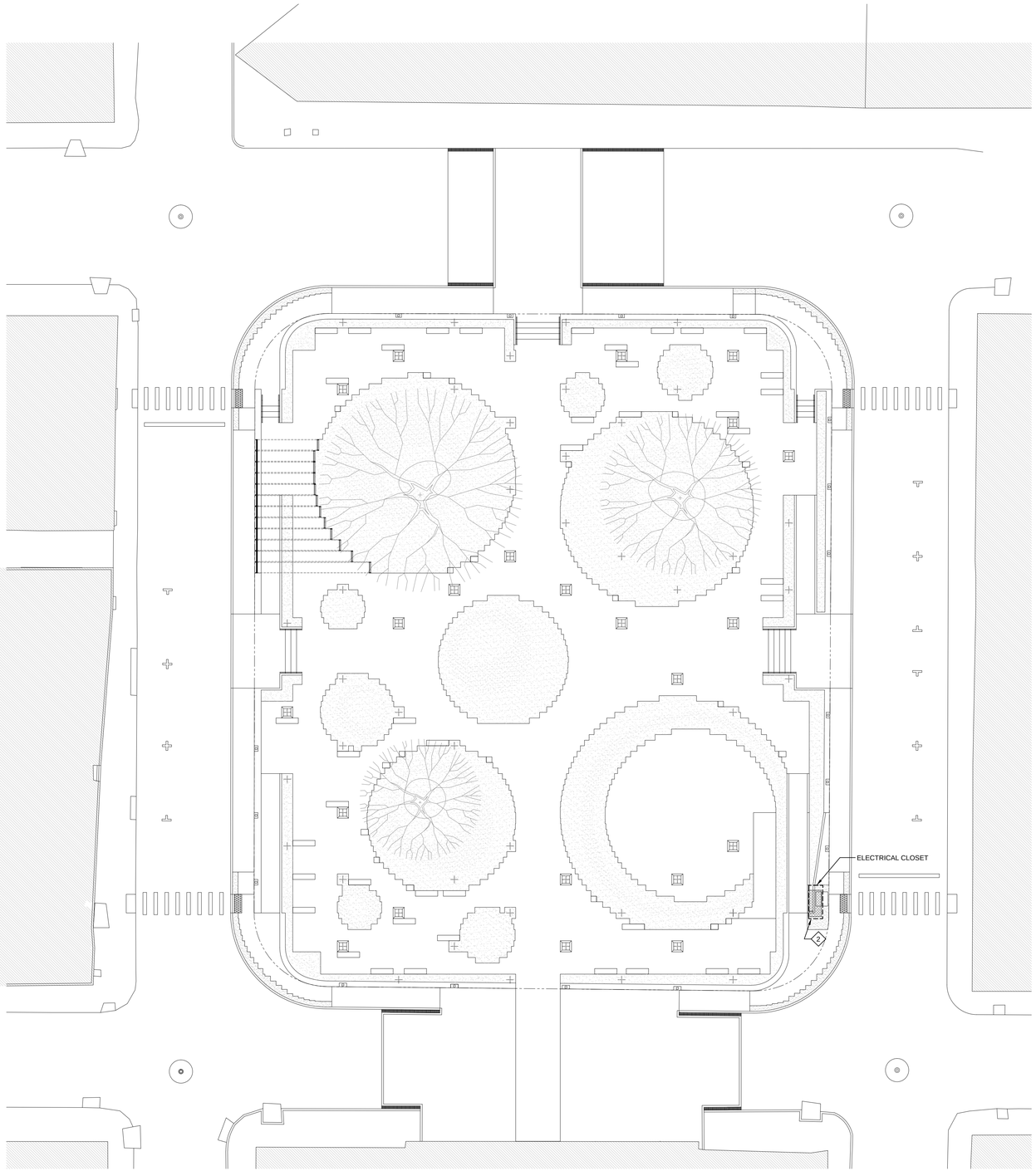
Municipality of Canóvanas - Hon. Lornna J. Soto

PROJECT #	PROJECT PHASE
22-03	Construction Docs - 100%

SHEET #	DRAWN BY	DATE
56	krs	26.vi.2024

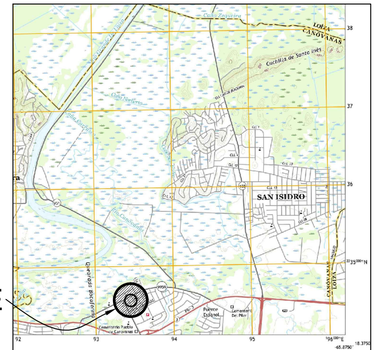
DISCIPLINE

P-2.0



Electrical Plan

SCALE : 1/8" = 1'-0"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CANOVANAS
Quebrada Juan Mendez
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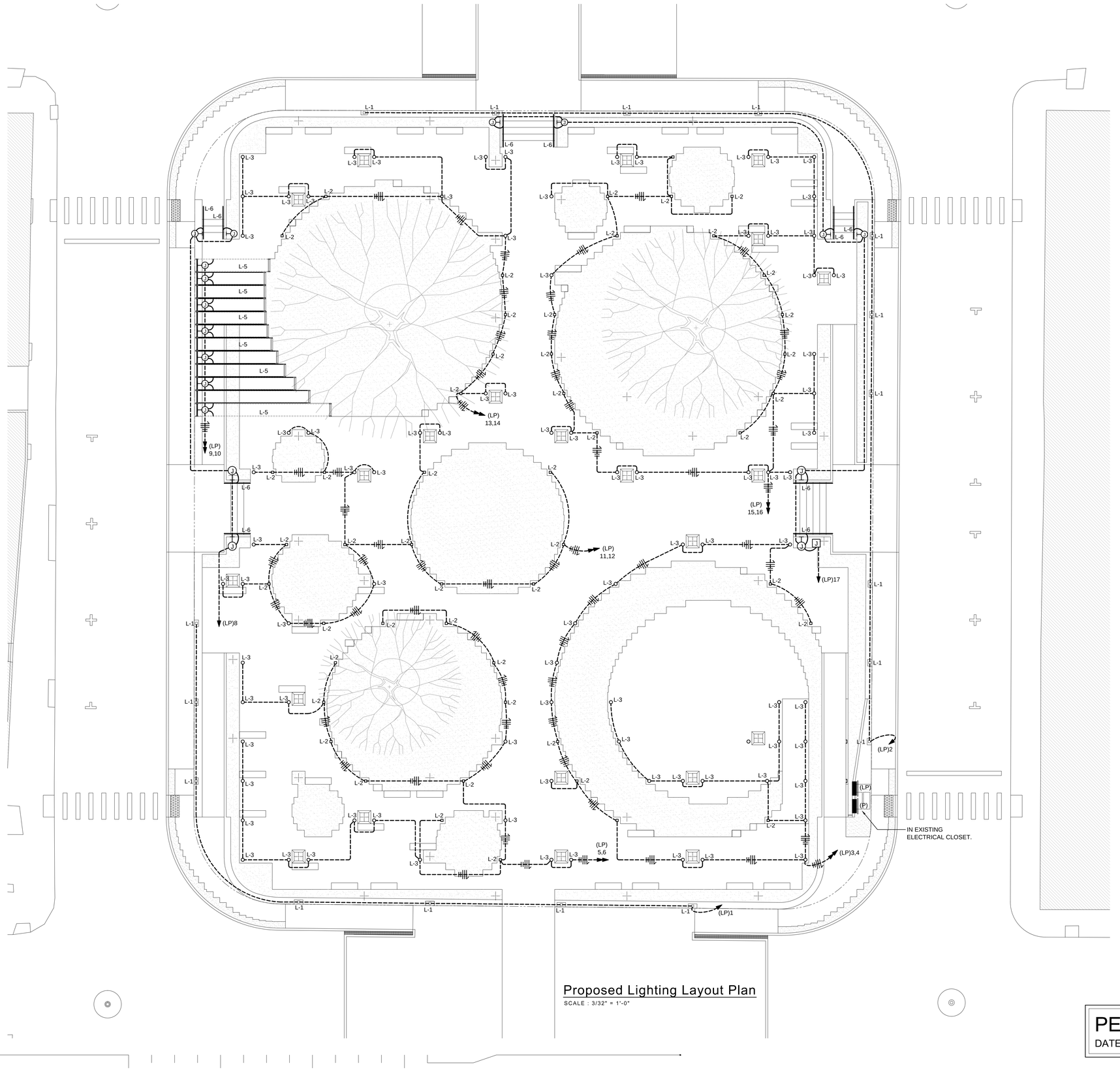
Carretera Estatal
Carretera Estatal



Proposed Lighting Layout Plan

SCALE : 3/32" = 1'-0"

NOTE:

1-MINIMUM WIRE GAUGE #8-1°C.

2-FOR LIGHTING FIXTURES SPECIFICATIONS REFER TO ARCHITECTURAL DRAWINGS.

3-FOR LIGHTING FIXTURES MOUNTING DETAILS REFER TO ARCHITECTURAL DRAWINGS.

Notes:

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4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.

5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderon Mujica. Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Proposed Lighting Layout Plan

OWNER

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #: 22-01 | PROJECT PHASE: Construction Docs - 90%

SHEET #: 6 | ISSUED BY: jmb | DATE: 05.ii.2024

DISCIPLINE: E-2.0

PERMIT SET
DATE : JUNE 10, 2024

JRR Juan R. Rosario & Associates P.S.C. Mechanical, Electrical & Plumbing Engineers

designed: A.LAZARO lic.: 11483

draftman: C.SANTIAGO lic.: 0388

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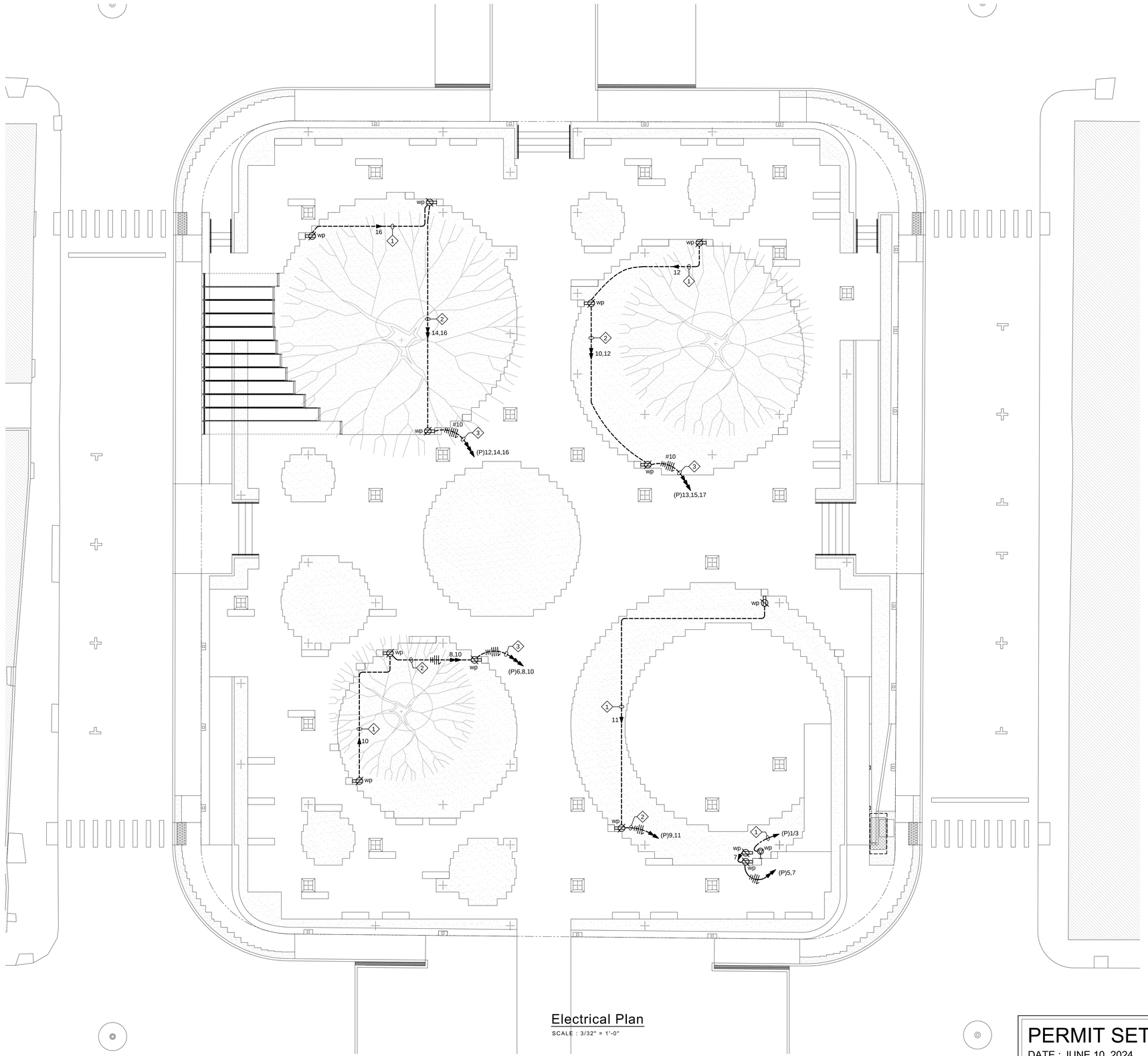

Electrical Plan

SCALE : 3/32" = 1'-0"

KEYED NOTES:

1. 2#10-1#10 GND, 1"C.
2. 4#10-1#10 GND, 1¼"C.
3. 6#10-1#10 GND, 1"C.

PERMIT SET

DATE : JUNE 10, 2024

Notes:

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REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

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ARQUITECTO
LICENCIADO BOX 61
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TELEFONO 723-1545
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PROJECT TITLE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

ENG. TITLE

Proposed Power Layout Plan

OWNER

Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%
SHEET # 6	DRAWN BY jmb
DISCIPLINE	DATE 05.ii.2024

E-3.0

JRR Juan F. Rigau & Associates P.S.C. Architects & Planners

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NOTES:

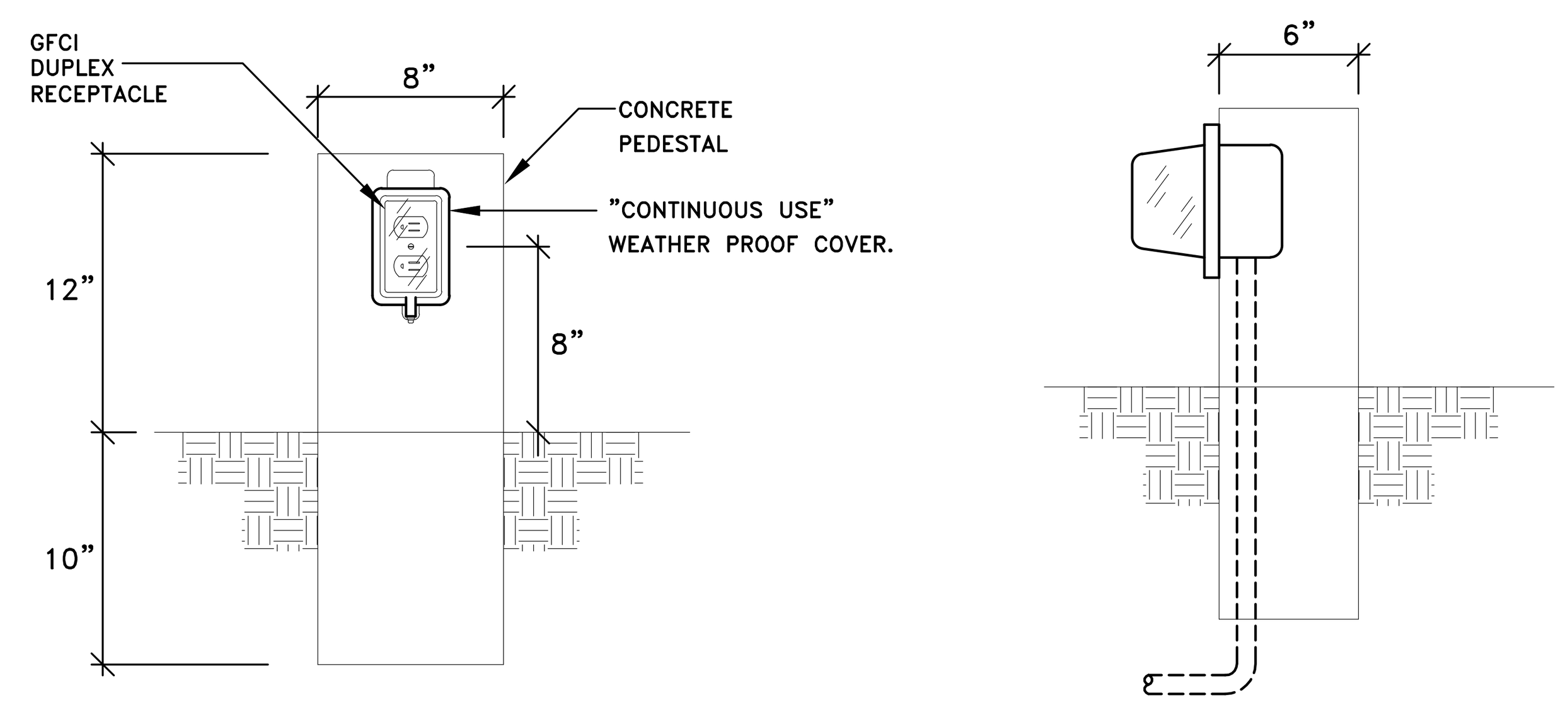
1-PVC SCH. 40 CONDUIT SHALL BE USED EXCEPT WHERE NOT ALLOWED BY N.E.C. OR UNLESS OTHERWISE INDICATED, 3/4" IPS MINIMUM SIZE.
2-PVC SCH. 40 FITTINGS SHALL BE CONCRETE TIGHT.
3-ALL CONDUCTORS SHALL BE COPPER, STRANDED, THHN INSULATED #12 AWG MINIMUM SIZE, UNLESS OTHERWISE NOTED.
4-ELECTRICAL INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH N.E.C. AND P.R.E.P.A. REGULATIONS, APPLICABLE EDITION.
5-INSTALLATION DETAILS ARE ILLUSTRATIVE AND SHOULD NOT BE USED WITHOUT VERIFYING JOB SITE CONDITIONS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ANY DEVIATION THEREFROM.
6-DIMENSIONS, QUANTITY AND LOCATION OF JUNCTION OR PULL BOXES SHALL BE REVISED BY ELECTRICAL CONTRACTOR ACCORDING TO ACTUAL FIELD CONDITIONS TO SECURE AT LEAST PERMISSIBLE MINIMUM CABLE BENDING RADIUS AND THE MAXIMUM PERMISIBLE PULLING TENSION. THERE SHALL NOT BE MORE THE EQUIVALENT OF FOUR (4) QUARTER BENDS (360° TOTAL) BETWEEN CABLE PULL POINTS.
7-RACEWAY SHALL BE PROVIDED WITH APPROVED EXPANSION FITTINGS WHERE CROSSINGS BUILDING EXPANSION JOINT.
8-ELECTRICAL CONTRACTOR SHALL PROVIDE POWER & CONNECT ALL EQUIPMENT FURNISHED UNDER OTHER SECTION OF THE SPECIFICATIONS. FINAL CONNECTION SHALL BE DONE UNDER THE SUPERVISION OF THE RESPECTIVE CONTRACTORS.
9-INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
10-CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND/OR EQUIPMENT REQUIRED FOR A COMPLETE WORKING SYSTEM.
11-ALL CONDUIT IN DIRECT CONTACT WITH EARTH SHALL BE PVC SCH.40 PROVIDE WITH A GROUNDING CONDUCTORS AS PER N.E.C.
12-ALL PANELBOARDS SHALL BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS. FINAL LOCATION OF PANELBOARDS MAY VARY IN ACOORDANCE TO FIELD CONDITIONS. CONTRACTOR SHALL PREPARE SHOP DRAWING PRIOR TO FINAL EQUIPMENT INSTALLATION.
13-ROUTE OF CONDUITS SHOWN IN LAY-OUT IS SCHEMATIC AND INTENDED ONLY TO INDICATE INTERCONNECTIONS BETWEEN OUTLETS. EXACT ROUTING SHALL BE DETERMINED WITH STRUCTURAL CONDITIONS.
14-CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR ALL UNDERGROUND PIPES, CONDUITS AND PULL BOXES.
15-MINIMUM CLEARANCES SHOWN FOR ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH ELECTRICAL EQUIPMENT MANUFACTURER AS PART OF SHOP DRAWING SUBMITTAL; IT SHALL COMPLY WITH NEC-110 AND BE VERIFIED BEFORE SHOP DRAWING SUBMITTAL & ORDERING OF EQUIPMENT.
16-ANY UNDERGROUND CONDUIT FOR SECONDARY FEEDER SHALL BE BURIED AT A MIN. DEPTH OF 36" BELOW FINISHED GRADE, UNLESS COVERED BY 4" CONCRETE ENVELOPE IN WHICH CASE MIN. DEPTH SHALL BE 18" BELOW FINISHED GRADE LEVEL.
17-CONTRACTOR SHALL VERIFY ALL DISTANCES AT FIELD.
18-PROVIDE GROUND CONDUCTOR IN ALL CONDUITS RUNS AS PER NEC. 250.
19-ALL EQUIPMENTS AND RACEWAYS SHALL BE SEISMICALLY RATED AND SEISMICALLY SUPPORTED AS REQUIRED IN IBC 2018.
20-ALL EXTERIOR, EXPOSED JUNCTION BOXES SHALL BE WEATHERPROOF TYPE UNLESS OTHERWISE NOTED.
21-ALL BOXES SHALL BE 4" X 4" X 2½" MINIMUM GALVANIZED STEEL, PROVIDE 1 GANG R.C. WHEN ONLY ONE WIRING DEVICE IS SHOWN.
22-THIS DRAWINGS ARE A SCHEMATIC REPRESENTATION OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL NOT RUN CONDUITS THRU ANY FIRE RATED CHASE, WALL, SLAB, OR BARRIER. IF A CONDUIT OR J.BOX IS INSTALLED OR ANY PENETRATION IN OR THRU FIRE RATED BARRIER, WALLS, CHASE, FLOORS, CEILING SLABS OR ANY CONDUITS PASSING FROM ONE LEVEL TO ANOTHER THRU THE FLOOR OR CEILING SLABS SHALL BE SEALED ACCORDINGLY TO IN ORDER TO MAINTAIN THE FIRE RESISTANT RATING OF THE OF THE WALL, SLAB, ENCLOSURE OR ASSEMBLY. RACEWAY PENETRATIONS THROUGH FIRE RATED PARTITIONS, CEILINGS, SLABS, AND SIMILAR COMPONENTS SHALL BE SEALED WITH FM & UL LISTED FIRE RETARDANT STOPS, FITTINGS, SEALING COMPOUNDS AND SLEEVES. FIRE STOP BARRIERS SHALL BE RATED BASED ON THE AFFECTED ASSEMBLY FIRE RATING. FIELD COORDINATE WITH ARCHITECTURAL, STRUCTURAL PLANS AND UTILITY FOR EXACT RATING AND LOCATION OF FIRE RATED PARTITIONS.
23-ALL INDICATED HEIGHTS ARE FROM CENTER OF BOX TO FINISHED FLOOR.
24-PRIOR TO ORDERING OF EQUIPMENT CONTRACTOR MUST VERIFY EQUIPMENT IS COMPATIBLE WITH ELECTRICAL SERVICE PROVIDED IN DWGS. (VOLTS, BREAKER, 60Hz).
25-ALL CONDUCTORS SHALL BE COPPER, STRANDED, THHN INSULATED #12 AWG MINIMUM SIZE, UNLESS OTHERWISE NOTED.
26-ANY PERFORATION ON FLOOR OR ROOF SLABS MUST BE COORDINATED WITH OWNER TO CONFIRM DRILL LOCATIONS X-RAY STUDY REQUIREMENTS.
27-WORKING HOURS FOR ANY KIND OF WORK THAT INVOLVES NOISE, ODOR, OR ANY KING OF DISRUPTION THAT MAY AFFECT OTHER TENANTS IN THE BUILDING SHALL BE CONDUCTED ON NON WORKING HOURS.
22-CONTRACTOR SHALL PROVIDE & INSTALL A #14 FISHWIRE IN EVERY EMPTY CONDUIT.
24-ALL EXPOSED CONDUIT RUN SHALL BE RIGID STEEL GALVANIZED.
29-ALL INDICATED HEIGHTS ARE FROM CENTER OF BOX TO FINISHED FLOOR.
30-PRIOR TO ORDERING OF EQUIPMENT CONTRACTOR MUST VERIFY EQUIPMENT IS COMPATIBLE WITH ELECTRICAL SERVICE PROVIDED IN DWGS. (VOLTS, BREAKER, 60Hz).
33-WIRING DEVICES AND PLATES SPECIFICATION GRADE, SPECIFICATION GRADE, TO MATCH COLOR SELECTED BY ARCHITECT.
34-ELECTRICAL CONTRACTOR MUST MAKE FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT UNDER THE DIRECT SUPERVISION OF THE MECHANICAL CONTRACTOR FROM A DiSCONNECT SWITCH OR MAGNETIC STARTER FURNISHED AND INSTALL BY ELECTRICAL CONTRACTOR LOCATED 5'-0" FROM EACH MOTOR.
35-ALL CONDUITS PASSING FROM ONE LEVEL TO ANOTHER THRU THE FLOOR, CEILING SLABS, WALLS OR ANY PENETRATION SHALL BE SEALED ACCORDING TO THE FIRE RESISTANT RATING OF THE ASSEMBLY.
36-CONTRACTOR MUST COORDINATE ALL MOTOR'S OVERLOAD PROTECTION WITH MOTOR HORSEPOWER.
37-ALL EXTERIOR WEATHERPROOF RECEPTACLES MUST BE PROVIDED WITH WHILE IN USE WEATHERPROOF PLATE.
38-CONTRACTOR SHALL BALANCE ALL LOADS.
39-PRIOR TO ANY PERFORATION OR THE INSTALLATION OF CONDUITS TO STRUCTURAL MEMBERS OF THE BUILDING OR TO CEILING OR FLOOR SLABS CONTRACTOR MUST CONSULT WITH BUILDING STRUCTURAL ENGINEER AND ADMINISTRATION TO OBTAIN A WRITTEN APPROVAL OF METHODS, LOCATION AND ROUTES.
40-ALL INDICATED HEIGHTS ARE FROM CENTER OF BOX TO FINISHED FLOOR.

LEGEND:

CIRCUIT BREAKER PANELBOARD, 6'-0" A.F.F. TO TOP
NEW CONDUIT RUN IN HUNG CEILING
NEW CONDUIT RUN EXPOSED
NEW CONDUIT RUN EMBEDDED IN FLOOR SLAB OR WALLS (WIRING AS PER MANUFACTURER RECOMENDATIONS)
CONDUIT RUN TO PANELBOARD CIRCUIT BREAKERS AS INDICATED
HASH MARKS INDICATED NUMBER OF CONDUCTORS (LEFT TO RIGHT: PHASE/SWITCH LEG/NEUTRAL/GROUND) NO HASH MARKS INDICATES 2#12-1#12 GND. 3/4"C. UNLESS OTHERWISE INDICATED.
UP — CONDUIT STUB-UP
DN. — CONDUIT STUB-DOWN

ABREVIATIONS

"G.F.I."	DENOTES GROUND FAULT CIRCUIT INTERRUPTER
"AFF"	DENOTES ABOVE FINISHED FLOOR
"FBO"	DENOTES FURNISHED BY OTHERS
"AEE"	DENOTES P.R. ELECTRIC POWER AUTHORITY
W.P.	WEATHER PROOF
N	DENOTES NEW
E	DENOTES EXISTING TO REMAIN
R	EXISTING RELOCATED DEVICE
ER	DENOTES EXISTING TO BE REMOVED
NL	NIGHT LIGHT



OUTDOOR PEDESTAL FOR RECEPTACLE (TYP.)
N.T.S.

LUTRON (LP)

LUTRON XPS24-120ML-20-CGP1158, MAIN LUGS WITH 20A GFCI BREAKERS FOR EACH RELAY MODULE WITH POWER SUPPLY, PROCESSOR & PROGRAMMABLE INTERFACE

PANEL	BREAKER	CKT NO.	CONTROL ZONE	LOCATION	FIXTURE DESCRIPTION	FIXTURE TYPE	LEVEL	LOAD TYPE	DIM	NON DIM	LOAD WATTS	TOTAL WATTS	DIM TYPE	MODULE LOAD
LP	20-1P-GFCI	1		SIDE WALK	LIGHT COLUMN	7(L1)		LED		X	33			231
	20-1P-GFCI	2		SIDE WALK	LIGHT COLUMN	10(L1)		LED		X	33			330
	20-1P-GFCI	3		PLAZA AREA	INGRADE	6(L2)		LED		X	15			90
	20-1P-GFCI	4		PLAZA AREA	BOLLARDS	23(L3)		LED		X	8			184
	20-1P-GFCI	5		PLAZA AREA	INGRADE	13(L2)		LED		X	15			195
	20-1P-GFCI	6		PLAZA AREA	BOLLARDS	16(L3)		LED		X	8			128
	20-1P-GFCI	7		SPARE										
	20-1P-GFCI	8		STAIR	LINEAR	4 (8LF)(L4)		LED		X	3.2W/LF.			105
	20-1P-GFCI	9		PERGOLA	LINEAR	(253LF)(L5)		LED		X	3.2W/LF.			325
	20-1P-GFCI	10		PERGOLA	LINEAR	(253LF)(L5)		LED		X	3.2W/LF.			325
	20-1P-GFCI	11		PLAZA AREA	INGRADE	11(L2)		LED		X	15			165
	20-1P-GFCI	12		PLAZA AREA	BOLLARDS	12(L3)		LED		X	8			96
	20-1P-GFCI	13		PLAZA AREA	BOLLARDS	12(L3)		LED		X	8			96
	20-1P-GFCI	14		PLAZA AREA	INGRADE	7(L2)		LED		X	15			105
	20-1P-GFCI	15		PLAZA AREA	BOLLARDS	23(L3)		LED		X	8			184
	20-1P-GFCI	16		PLAZA AREA	INGRADE	15(L2)		LED		X	15			225
	20-1P-GFCI	17		STAIR	LINEAR	6 (8LF)(L6)		LED		X	3.2W/LF.			155
	20-1P-GFCI	18												
	20-1P-GFCI	19												
	20-1P-GFCI	20												
	20-1P-GFCI	21												
	20-1P-GFCI	22												
	20-1P-GFCI	23												
	20-1P-GFCI	24												

PANELBOARD SCHEDULE

PANEL DESCRIPTION: P	LOCATION: ELECTRICAL CLOSET
VOLTS: 240/120V-3PH-4W	AMPS: 200A
MOUNTING: SURFACE	I.C.: 10,000
PANEL TYPE: CUTLER HAMMER	REMARKS: -

LOAD DESCRIPTION	FRAME	TRIP	CKT. NO.	CKT. NO.	TRIP	FRAME	LOAD DESCRIPTION
POWER OUTLET		30	1	2	70	GFI	LIGHTING PANEL
			3	4			
POWER OUTLET	GFI	30	5	6	20	GFI	POWER OUTLETS
POWER OUTLET	GFI	30	7	8	20	GFI	POWER OUTLETS
POWER OUTLET	GFI	20	9	10	20	GFI	POWER OUTLETS
POWER OUTLET	GFI	20	11	12	20	GFI	POWER OUTLETS
POWER OUTLET	GFI	20	13	14	20	GFI	POWER OUTLETS
POWER OUTLET	GFI	20	15	16	20	GFI	POWER OUTLETS
POWER OUTLET	GFI	20	17	18	20	GFI	POWER OUTLETS
SPARE	GFI	20	19	20	20	GFI	POWER OUTLETS
SPARE	GFI	20	21	22	20	GFI	SPARE
SPARE	GFI	20	23	24	20	GFI	SPARE
SPARE	GFI	20	25	26	20	GFI	SPARE
SPARE	GFI	20	27	28	20	GFI	SPARE
SPARE	GFI	20	29	30	20	GFI	SPARE

PERMIT SET
DATE : JUNE 10, 2024

JUAN R. REQUENA & ASSOCIATES
ELECTRICAL ENGINEERS
P. O. BOX 1587 HATO REY, PUERTO RICO 00919
designed: A.LAZARO lic.: 11483
draftman: C.SANTIAGO lic.: 0388

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Notes:

1.0 Do not scale dimensions from drawings. Dimensions govern.
2.0 All dimensions are in feet and inches, unless noted otherwise.
3.0 The contractor shall check all dimensions, levels and angles on site prior to commencing any work.
4.0 in.formation studio shall be notified, in writing, of any discrepancies in any or all drawings from any or all disciplines prior to commencing any work.
5.0 This plan was prepared based on information obtained & provided by the owner.

REVISIONS

REV. #	DATE	ISSUING REASON
1	05.ix.17	Explanation

PROFESSIONAL SEAL

CERTIFICACIÓN - COPYRIGHTS - FIRM NAME

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landscape . architecture . product
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PROJECT TILE & ADDRESS

Plaza Juan F. Arroyo - Improvements

Calle Calderón Mujica, Esq. Calle Muñoz Rivera, Canóvanas, PR 00729

CONSULTANT

DWG. TITLE

Legend, Notes & Schedules

CLIENT
Municipio de Canóvanas - Hon. Lornna Soto Villanueva

PROJECT #	PROJECT PHASE
22-01	Construction Docs - 90%

SHEET #	DRAWN BY	DATE
6	jmb	05.ii.2024

DISCIPLINE
E-4.0