Environmental Assessment
Determinations and Compliance Findings for HUD-assisted Projects
24 CFR Part 58

Project Information

Project Name: Nuevo Estacionamiento Publico en la Calle Libertad (PR-CRP-000048)

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

Grant Recipient (if different than Responsible Entity): Municipality of Jayuya

State/Local Identifier: Puerto Rico / Municipality of Jayuya

Preparer: María M. Ortíz, Director, Federal Programs Department, Municipality of Jayuya

Certifying Officer Name and Title:

Aldo A. Rivera Vázquez - Director, Permits and Environmental Compliance Division
Angel G. López Guzmán - Deputy Director, Permits and Environmental Compliance Division
Maria T. Torres-Bregón - Permits and Environmental Compliance Manager
Sally Z. Acevedo-Cosme - Permits and Environmental Compliance Specialist
Limary Vélez Marrero - Permits and Environmental Compliance Specialist
Ivelisse Lorenzo Torres - Permits and Environmental Compliance Specialist
Mónica Machuca Rios - Permits and Environmental Compliance Specialist
Janette I. Cambrelen - Permits and Environmental Compliance Specialist
Santa Ramírez Lebrón - Permits and Environmental Compliance Specialist
Abdul Feliciano Plaza - Permits and Environmental Compliance Specialist
Pedro A. De León Rodríguez - Permits and Environmental Compliance Specialist
Javier Mercado Barrera - Permits and Environmental Compliance Specialist
Priscilla Toro Rivera - Permits and Environmental Compliance Specialist

Consultant (if applicable): Environmental & Ecological Services LLC (EES)
163 calle José Rodríguez Iriz., Ste. 1A
Arecibo, PR 00612-4600
787-212-8598, jose.baez@ees-pr.com

Direct Comments to: PRDOH at comentariosambiental@vivienda.pr.gov

Project Location: The project site is located between Libertad Street and State Road PR-141 (Lat. 18.219837°, Long. -66.589825°; Cadaster Numbers 216-096-018-01, 216-096-018-02 and 216-096-018-03). A project location map can be found in **Attachment 1**.

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]**:**
The project proposes to expand an existing public parking facility in its urban center by constructing a new elevated, reinforced-concrete parking deck above the current parking lot footprint (See **Attachment 2** - 90% Plans for the Parking at Libertad Street). This expansion will add approximately 10 parking spaces, increasing capacity from 22 to 32 total spaces. The primary goal of the proposed project is to improve downtown parking availability while enhancing safety and functionality: the design emphasizes improved pedestrian and vehicular safety, better traffic flow, and incorporates architectural elements compatible with the historic character of the area. The result will be a safer, more efficient, and aesthetically pleasing parking environment for residents and visitors.

The project site is an existing municipal parking lot located in downtown Jayuya, Puerto Rico, between Calle Libertad and State Road PR-141 (Guillermo Esteves Street). The site encompasses approximately 812.75 square meters (0.2 acres) and is already developed as a paved parking area. The surrounding area is the urban core of Jayuya, with nearby commercial, municipal, and residential buildings. The project site lies within the historic district of Jayuya's town center. Currently, the lot provides ground-level parking for 22 vehicles; this project will utilize the same footprint to create a two-level parking structure (ground level plus a new elevated deck) to accommodate 32 vehicles in total. Access to the new upper parking deck will be from PR-141/Guillermo Esteves Street, while the lower level (existing ground level) will remain accessible via Calle Libertad. A designated bicycle parking area will also be included on site to encourage multi-modal access.

The proposed construction activities will involve both the demolition of certain existing features and new construction within the parking lot's current footprint. All work will occur on-site without expanding into adjacent properties. The key components of the project include:

- **Site Preparation and Demolition**: Excavation of the existing paved surface and soil as needed to prepare a foundation base for the new structure. This will require demolition and removal of the existing asphalt pavement and any existing parking lot structures or fixtures on the site.
- **Structural Construction:** Installation of reinforced concrete columns and an elevated concrete slab deck to form the second-level parking platform above the original ground-level lot. The new structure will be engineered to meet applicable building codes and support the added parking capacity.
- **Surfacing and Pavement Improvements:** Repairing or repaving the asphalt surface on the remaining ground-level areas as necessary, and installing wheel stops/bumper guards for parking stalls on both levels to enhance safety. Durable thermoplastic pavement markings will be applied to designate parking spaces, drive aisles, pedestrian crosswalks, and other surface delineations.
- **Ancillary Features:** Installing new signage for traffic direction, parking rules, and Americans with Disabilities Act (ADA) accessibility structures as required. Landscaping enhancements will be incorporated around the facility to improve aesthetics and possibly provide shade or

buffering (consistent with local urban design standards). A mosaic mural will be installed as part of the structure or on an adjacent wall, contributing an art element that reflects the community's cultural heritage.
- **Lighting:** Installing solar-powered lighting fixtures (light posts or mounted lights) to adequately illuminate the parking areas at night. The solar lighting will improve security and visibility without requiring new electrical grid connections.

No changes to the public road network are part of this project, aside from the modified entrances/exits to the parking levels as described. The construction will be done in compliance with local building and safety codes, and a phasing or maintenance plan will be in place to minimize disruption during the build process

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:
The Municipality of Jayuya proposes to expand and improve its public parking facility in the downtown area. This project is part of Puerto Rico's recovery efforts following the 2017 Hurricanes María and is intended to address a documented shortage of safe, accessible public parking in Jayuya's urban center. The existing municipal parking lot offers only 22 spaces, with few Americans with ADA compliant features, and contributes to chronic parking shortfalls, traffic congestion, and safety concerns in the surrounding historic district.

The purpose of the proposed action is to increase the capacity and enhance the safety and accessibility of public parking in downtown Jayuya. This will be achieved by constructing an elevated concrete parking structure that expands the available parking from 22 to 32 spaces. The new facility will incorporate ADA-compliant design elements, improved pedestrian and vehicular safety features, and flood-resilience measures. It will also be designed to be compatible with the historic character of the area, ensuring that the project's infrastructure improvements are sensitive to the cultural and architectural context of Jayuya's urban core.

The need for the project is driven by several interrelated factors, including:

- **Inadequate current parking capacity:** The existing public parking is insufficient for the number of residents, visitors, and patrons of local businesses. With only 22 spaces available, drivers frequently face parking shortages, which hampers access to downtown services and businesses. This lack of capacity leads to vehicles circling for parking or parking on streets, exacerbating traffic congestion.
- **Urban core revitalization and economic recovery:** The Municipality has a strategic goal to revitalize its urban center and stimulate local economic development. Expanding and upgrading the public parking is essential to support this goal, as adequate parking will encourage more visitors and customers to the downtown area, helping local businesses recover and grow. Improved infrastructure in the urban center is a catalyst for broader economic recovery and development, especially important in the post-hurricane context.
- **Post-disaster infrastructure improvement:** Hurricanes María caused widespread damage and highlighted weaknesses in local infrastructure. The project supports ongoing recovery efforts by investing in a critical public facility. By improving the parking facility, the Municipality is

restoring and enhancing an essential service for the community, contributing to a more resilient urban infrastructure.

- **Safety, accessibility, and ADA compliance:** The current lack of sufficient parking and ADA-compliant features creates safety hazards for both pedestrians and drivers. Vehicles parked along narrow streets in the historic district create congestion and potential conflicts, while the absence of proper ramps or designated accessible spaces limits access for people with disabilities. The proposed project will improve pedestrian and vehicular safety by reducing street congestion and providing a well-designed parking area. It will also ensure ADA compliance and overall accessibility, allowing all members of the community, including the elderly and those with disabilities, to safely access downtown facilities and businesses.

In summary, the purpose of the proposed parking expansion is to provide a long-term, resilient solution to Jayuya's parking shortage while improving public safety and accessibility. The proposed elevated parking structure (32 spaces) directly responds to the identified needs by increasing capacity and incorporating features that address congestion, safety, and accessibility shortcomings. Moreover, this project aligns with the broader planning goals of the City Revitalization Program (CRP) under Puerto Rico's CDBG-DR Action Plan, which emphasizes investing in resilient, accessible, and culturally sensitive infrastructure. By meeting the purpose and need outlined above, the project will support Jayuya's urban core revitalization, contribute to the local economic recovery, and improve the quality of life for residents and visitors in a manner consistent with Puerto Rico's post-disaster recovery objectives.

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

The proposed project is located in the urban zone of the Municipality of Jayuya (Jayuya zona urbana), specifically in census tract 9561. The surrounding area is a mixed-use urban center characterized by both residential and commercial properties. Parcels immediately northeast and west of the site are predominantly zoned for commercial use (e.g. Local Commercial [C-1] and Central Commercial [C-3] zones), while parcels to the northwest and most parcels to the south are zoned for residential use (General Residential, R-4). The Municipality of Jayuya's land use map can be found in **Attachment 3**. This mix of land uses reflects a traditional town center with businesses and homes in close proximity. However, the concentration of commercial and residential activity in the urban core contributes to significant traffic congestion on local streets during peak hours (morning and late afternoon). The municipal roads surrounding the site experience heavy vehicular traffic at rush hour, leading to unsafe conditions for pedestrians and drivers, intermittent traffic gridlock, and increased vehicle emissions. These conditions restrict traffic flow and negatively affect air quality due to idling vehicles in the congested urban streets. Improving transportation infrastructure (such as parking and traffic management) in this area is therefore a key concern to enhance safety and environmental quality for the urban zone's residents and visitors.

The urban zone of Jayuya has experienced a long-term decline in population and housing occupancy, reflecting broader demographic trends in the municipality. Over the past few decades (approximately 30 years), Jayuya's population has been steadily decreasing, with an accelerated decline in the last 10 years. For example, the overall population of Jayuya Municipality dropped from 16,642 in 2010 to 14,779 in 2020, an 11.2% decrease in one decade (see Municipality of Jayuya Socioeconomic Indicators

in **Attachment 4**. The urban zone (Jayuya zona urbana), which forms the town's central settlement, now has a population of only about 3,064 residents as of the 2020 Census, indicating a significantly smaller urban population compared to the municipality's total. This decline in residents has been accompanied by a contraction in housing demand and occupied units within the town. The total number of housing units in Jayuya Municipality slightly decreased from around 6,541 in 2010 to 6,340 in 2020 (about a 3.1% reduction). More importantly, the number of occupied housing units has fallen more sharply as many homes have been abandoned or left vacant. By 2020, roughly 22% of all housing units in Jayuya were vacant, leaving only about 78% of units occupied. This represents a substantial drop in occupancy compared to previous decades, and it highlights the shrinking housing stock and population base in the urban area. Many residential structures in the town are underutilized or in disrepair, a situation exacerbated by outmigration and the impacts of economic challenges (and possibly storm damages from hurricanes in recent years).

In addition to population loss, the socioeconomic condition of the remaining residents in Jayuya's urban zone is characterized by high levels of poverty. The community is predominantly Hispanic (over 98% of residents) and includes many low-income households. According to recent data, more than half of the population lives below the poverty line. In fact, an estimated 51.1% of Jayuya's population (about 1,580 out of 3,090 people) have incomes under the federal poverty threshold. This poverty rate is considerably higher than the U.S. national average (around 12% in recent years). The prevalence of poverty in the urban zone means that local residents are an economically vulnerable population, and many may lack resources for housing improvements or transportation alternatives. These demographic and economic trends, population decline, reduced occupied housing, and persistent poverty, provide important context for the proposed project. They indicate that Jayuya's urban center has been struggling with economic decline and reduced activity, and improvements (such as enhanced infrastructure and safer, more efficient transportation/parking facilities) are needed to revitalize the area and improve quality of life for the remaining residents. The project's focus on improving pedestrian and traffic safety and supporting the urban core's functionality aligns with addressing these adverse trends, and it is not expected to displace residents or adversely affect minority or low-income populations. Rather, it aims to benefit the community by creating a safer and more accessible town center environment, which could in turn help stimulate local economic activity in an area that has been in socioeconomic decline.

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: $1,041,030.34

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: $1,041,030.34 HUD Funds (no additional municipal funds will be required to complete the project).

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 ☒	The project is not located within an FAA-designated civilian airport Runway Protection Zone (RPZ), or Accident Potential Zone (APZ). The project is not within 15,000 feet of a military airport nor 2,500 feet of a civilian airport. The nearest civil airport is the Mercedita Airport (PSE), located in Ponce and is approximately 79,538 feet south from the project, measured from the project boundary to the runway. The nearest military airport is Luis Muñoz Marín (SJU) Joint Military Airfield Muñiz Air National Guard, approximately 223,646 feet east from the project site, measured from the project boundary to the runway. Therefore, the project is in compliance with 24 C.F.R. Part 51, Subpart D. See Airport Hazards documentation in **Attachment 5**.
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-56, [Punta Cabullones], located to the south of the project site at an approximate distance of 16.39 miles (86,525 feet). Therefore, the Project is in compliance with the Coastal Barrier Resources Act (CBRA). See Coastal Barrier Resources documentation in **Attachment 6**.
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 ☒	The project site is located in Zone X, outside the Special Flood Hazard Area (SFHA)/ 100-year floodplain as designated in FIRM Panel number 72000C1105H, effective date: 4/19/2005. Therefore, the project does not require flood insurance in accordance with the Flood Disaster Protection Act of 1973 and the National Flood Insurance Reform Act of 1994. Documentation

		demonstrating the location outside the SFHA has been included. Therefore, the project is in compliance with 42 U.S.C. §§ 4001-4128 and 42 U.S.C. § 5154a. See Flood Insurance documentation in **Attachment 7**.
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 ☒	The project is located in the Municipality of Jayuya, which is designated as being in attainment for all criteria pollutants, according to the U.S. Environmental Protection Agency's (USEPA) Online Green Book on Nonattainment Areas for Criteria Pollutants as per data obtained on 7/31/2025. Emissions would occur intermittently throughout the construction period and would not occur as a constant plume of emissions from the project site. Given the construction schedule, varying buffer distances to the nearest sensitive receptor as construction moves across the project site, and the highly dispersive nature of diesel particulate matter (PM) emissions, construction of the project would not expose sensitive receptors to substantial toxic air contaminant (TAC) concentrations. Implementation of the Puerto Rico Department of Natural and Environmental Resources (DNER) Regulation for the Control of Atmospheric Pollution (Regulation Number 5300 of August 28, 1995, as amended) for basic construction practices for construction-related emissions would reduce diesel PM emissions during construction by minimizing vehicle idling and maintaining construction equipment properly tuned in accordance with manufacturer's specifications. The proposed project would not increase traffic volumes in the area. The proposed project would reduce traffic congestion at rush hour, resulting in improved air quality in the immediate vicinity. Therefore, the proposed project complies with the National Attaining Air Quality Standards (NAAQS). Due to its scope, no impact on air quality will be expected during its construction and operation. The proposed action complies with the Clean Air Act and 40 C.F.R. Parts 6, 51 and 93. No formal compliance steps or mitigation are required. See Clean Air documentation in **Attachment 8**.
Coastal Zone Management	Yes ☐ No ☒	The project is not located within the coastal zone of Puerto Rico, as defined by the State's Coastal Zone

Coastal Zone Management Act, sections 307(c) & (d)		Management Program (CZMP). The proposed project is located inland, approximately 15.70 miles (82,867 feet) miles away from a Coastal Zone as determined by the Puerto Rico Coastal Zone Management Program (PRCZM). There would be no adverse impacts related to coastal zone management. Therefore, the project is in compliance with Section 307(c) and (d) of the Coastal Zone Management Act. See Coastal Zone Management documentation in **Attachment 9**.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☒ No ☐	The subject property is an existing public parking facility located on entirely paved and developed surface. The lot is located in the urban center with nearby commercial, municipal, and residential buildings The site was evaluated for its proximity to known hazardous sites, including those listed on the EPA Superfund National Priorities List, state equivalent lists, and sites within 3,000 feet of a toxic or solid waste landfill. Within a 3,000-feet radius measured from the Project perimeter, no locations were identified in NEPAssist with contamination and toxic substances. Although there is a water discharger site that appears near the radius, the NEPAssist Measure tool confirmed that this site is greater than 3,000 feet away from the project location. There are no Superfund or Brownfield sites within one mile of the project location. A field inspection was conducted on 8/26/2025 by Environmental & Ecological Services LLC personnel. No evidence of soil contamination, water contamination, or hazardous materials were found on site. Lead-based paint (LBP) testing was conducted on 10/10/2024, 10/14/2024, and 10/15/2024 by Elme Rivera of AESI Inc. Positive LBP was identified on floor lines, wheel stops, and curbs within the project area. However, these components will be removed as part of the project, which involves demolition and removal of existing asphalt pavement along with parking lot structures and fixtures. Therefore, abatement will be achieved through the removal of LBP-positive components during construction. Asbestos containing materials (ACM) testing was conducted on 10/15/2024 by Elme Rivera of AESI Inc. No positive ACM was identified in the project area.

		The project is limited to the construction of a public parking deck. The proposed project does not involve structures that are occupied or are intended to be occupied at least four (4) hours a day, as defined by HUD Notice CPD-23-103. Therefore, HUD radon requirements are not applicable and the project is exempt from radon testing. If any hazardous materials are encountered during construction, the contractor will notify the project owner before the continuation of work. Therefore, the project is in compliance with 24 C.F.R. § 50.3(i) and § 58.5(i)(2). See Contamination and Toxic Substances documentation in **Attachment 10**.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☐ No ☒	PRDOH, as the Responsible Entity, is conducting due diligence to assess Federally Listed Threatened and Endangered Species, in accordance with the Endangered Species Act Section 7. This involves consulting the U.S. Fish and Wildlife Service (USFWS). A review of the USFWS IPaC tool identified the potential presence of Chilabothrus inornatus (Puerto Rican Boa), Buteo platypterus (Puerto Rican Broad-winged Hawk), and Amazona vittata (Puerto Rican Parrot). The USFWS has not made a critical habitat designation for the three species identified by IPaC. Furthermore, the proposed project is within the existing developed footprint of the parking lot. The project meets the criteria of the USFWS Blanket Clearance Letter, and a Blanket Clearance Letter was submitted to the agency for determination, which identified the proposed project's range within the habitat of federally listed species and critical habitats on 6/14/2024. The agency responded on 7/11/2024 with the determination that the proposed project qualifies for the blanket clearance letter and is not likely to adversely affect federally-listed species. If a Puerto Rican Boa is found in the Project action site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the CM shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa.

		Therefore, the project is in compliance with the Endangered Species Act of 1973, particularly section 7; 50 C.F.R. Part 402. See Endangered Species documentation in **Attachment 11**.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	The proposed project does not include development construction, rehabilitation that will increase residential densities, or conversion. Furthermore, the project site is not located in proximity to, nor will it expose people or structures to, above-ground storage tanks or facilities containing explosive or flammable fuels or chemicals that fall within the regulatory thresholds established under 24 CFR Part 51, Subpart C. Therefore, the Project is in compliance with the 24 C.F.R. 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 Farmland Protection Map, there is no prime or unique farmland on the project site. The proposed project is located within the urbanized area of Jayuya and has been previously developed as an existing public parking facility. Therefore, the proposed project does not involve new construction, acquisition of undeveloped land, or conversion of land use. Additionally, the proposed project is located in the urban center of the municipality of Jayuya. The Farmland Protection Policy Act does not apply to projects already in or committed to urban development. Therefore, the project is in compliance with the Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 C.F.R. Part 658. See Farmlands Protection documentation in **Attachment 12**.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☒ No ☐	The project is located within the floodplain. According to the Advisory Base Flood Elevation (ABFE) map issued 10/18/2024, the project is located in Zone A. According to the Flood Insurance Rate Map (FIRM), Panel number 72000C1105H, effective 4/19/2005, the project is in Zone X, or the Area of Minimal Flood Hazard. The Preliminary FIRM Map is not available for the project area. Due to the project's location within the ABFE floodplain, the 8-step process was conducted and documented. As part of this process, practicable

		alternatives to locating the project within the floodplain were evaluated and found not feasible given the project's purpose and location within Jayuya's urban core. The project's applicant will implement the mitigation measures and best management practices identified during the 8-Step analysis to avoid, minimize, and mitigate potential adverse impacts to floodplain values and functions to the maximum extent practicable. No public comments were received on the Early Floodplain Notice published on 3/24/2024 or the Final Floodplain Notice published on 6/11/2024. The 8-step process was completed and no practicable alternatives were identified. Therefore, the Project is in compliance with Executive Order 11988. See Floodplain Management documentation in **Attachment 13**.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☒ No ☐	The project was assessed for its potential effects on identified historic properties. This assessment considered direct, indirect, and cumulative impacts on the integrity and significance of the properties. Archaeologists Jaqueline López Meléndez (SOI-Qualified Archaeologist) and Francisco J. Moreno Orama (SOI-Qualified Architect/Architectural Historian) conducted historical archaeological and architectural evaluations for the property. The evaluation concluded that project actions will not affect the historic properties that compose the Area of Potential Effect (APE). Based on this finding, SHPO consultation was initiated on 6/6/2025 for review and concurrence with a determination of No Adverse Effect. On 6/26/2025, SHPO concurred with the determination that the project will have no adverse effect on historic properties conditioned to archaeological monitoring during all ground disturbing activities. On 7/28/2025, an Archaeological Monitoring Plan was submitted to SHPO. In a letter dated 8/12/2025, the State Historic Preservation Officer Carlos A. Rubio Cancela approved the plan and asked that SHPO be notified of the archaeological monitoring start date 48 hours prior to the initiation of work.

		Therefore, the project is in compliance with the National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 C.F.R. Part 800. See Historic Preservation documentation in **Attachment 14**.
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 project does not involve the development of noise-sensitive uses such as housing, schools, or healthcare facilities. The project scope is limited to improvements of a municipal parking facility, which is not considered a noise-sensitive land use under HUD environmental standards and is already subject to urban noise levels. Temporary noise impacts related to construction activities are expected but will be limited to standard daytime hours. Therefore, the project is in compliance with the Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 C.F.R. Part 51, Subpart B.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	There are no sole source aquifers in Puerto Rico. Therefore, the proposed project site is not located within a sole source aquifer, nor will it directly or indirectly impact one. The nearest sole source aquifer is the Biscayne Aquifer SSA, located in the state of Florida in the continental United States. This SSA is located approximately 1,007.74 miles from the project site. Therefore, the project is in compliance with the Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 C.F.R. Part 149. See Sole Source Aquifer documentation in **Attachment 15**.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	According to the National Wetland Inventory, the proposed project is not located within or adjacent to any wetlands. The nearest wetland is approximately 184.3 feet from the project site. Additionally, the project area is already developed and no work is proposed outside of the existing parking lot. Based on these findings, no mitigation measures or implementation of the 8-Step Process are required. All findings are consistent with the regulatory requirements of 24 CFR § 55.9. The proposed project complies with the requirements of Executive Order 11990, particularly sections 2 and 5.

		See Wetlands Protection documentation in **Attachment 16**.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	The wild and scenic rivers in Puerto Rico are in the El Yunque National Forest. These rivers include La Mina River, Icacos River, and Mameyes River, with the Icacos River being the closest, approximately 55.57 miles (293,409 feet) east of the project site. The Municipality of Jayuya does not contain any rivers that are listed or proposed for inclusion in the National Wild and Scenic Rivers System. The proposed project site is not located within the watershed of, nor will it directly or indirectly affect, any designated wild and scenic river. Therefore, the project is in compliance with Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c). See Wild and Scenic Rivers documentation in **Attachment 17**.
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 environmental compliance review process.

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.

(1) Minor beneficial impact
(2) No impact anticipated
(3) Minor Adverse Impact – May require mitigation

(4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The project area currently has a land use designation of Urban Soil (SU) and is zoned as commercial (C-3, "Comercial General"). A zoning and land use map can be found in **Attachment 3**. The proposed project meets the requirements of the Municipalilty of Jayuya's Land Use Plan. No land use or zoning modifications are proposed to the area as a result of the proposed project. The project location's current use as a public parking facility will not change.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	**Soil** The project site is located on soil mapped by the USDA-NRCS as Reilly gravelly silt loam (Re), 0 to 2 percent slopes. The Reilly gravelly silt loam contains gravelly silt loam, very gravelly sandy loam and extremely gravelly sand that is excessively drained with a shallow depth to water (about 30 to 60 inches). This soil type does not pose constructability issues for the project. The USDA-NRCS Custom Soil Resource Report for the proposed project can be found in **Attachment 18**. A Subsoil Exploration and Geotechnical Engineering Report for Municipal Parking Building was prepared by Geotechnical Engineering Services, PSC (GES) on September 19, 2023 (see **Attachment 19**). Borings revealed a loose fill mixed with deleterious material extending to a depth of 8 feet. From 8 to 10 feet, a horizon consisting of silty gravel with little sand, was encountered. All the Standard Penetration Test N-values obtained practical refusal (more than 100 blows per foot), which represent a very dense state of relative density. The proposed project will be constructed in accordance with the recommendations provided by GES in the Subsoil Exploration and Geotechnical Engineering Report. **Slope** The project site and adjacent areas are in a relatively flat area approximately 1,431 feet above mean sea level. The ground slopes gently towards the southwest. Due to the relatively flat topography at the site and adjacent areas, no impacts related to slope failure, or landslides would occur. **Erosion** Construction activities are not expected to have any potential to affect on-site erosion. Because of site soil texture, relatively flat topography, and the site's small size, the erosion potential at the project site is very

		low. Standard erosion and sedimentation controls will be implemented during construction **Stormwater** Stormwater runoff could become contaminated with chemicals typically used during construction through the daily use, transportation, and storage of these materials. Therefore, implementation of industry-standard construction best management practices (BMPs) are required to reduce and eliminate potential contamination of stormwater and non-stormwater discharges from the construction site. Stormwater contamination will be properly controlled, minimized, and substantially avoided, mitigating any adverse impacts. The proposed project would be limited to the existing developed footprint and would not create any additional impervious surface. Nonetheless, all applicable sediment control, stormwater, and best management practices will be adhered to during construction of the proposed.
Hazards and Nuisances including Site Safety and Noise	2	**Site Safety Hazards and Nuisances** The project site currently does not contain any site safety hazards or environmental nuisances. However, temporary nuisances may occur during construction, including construction traffic, noise, and dust, which could affect adjacent properties and nearby residents. To mitigate these temporary effects, the project will implement all applicable health, safety, and environmental standard practices, including compliance with requirements from the Puerto Rico Permits Management Office (OGPe), the U.S. Department of Labor's Occupational Safety and Health Administration (OSHA), and the Puerto Rico Department of Natural and Environmental Resources (DNER). These measures will ensure protection of workers, residents, and the surrounding community. **Air Quality and Emissions** As noted in the Air Quality section of the Statutory Checklist, emissions from construction equipment and vehicles will occur intermittently during the construction period but will not result in continuous or concentrated plumes. Given the limited construction schedule, the buffer distance to nearby sensitive receptors, and the highly dispersive nature of diesel particulate matter (PM) emissions, the project is not expected to expose sensitive receptors to substantial toxic air contaminant (TAC) concentrations. Compliance with the DNER Regulation for the Control of Atmospheric Pollution (Regulation No. 5300 of August 28, 1995, as amended) will further minimize construction-related emissions through measures such as reducing unnecessary idling and ensuring equipment is properly maintained. **Noise**

		Construction activities will generate temporary, localized noise that may be perceptible to surrounding land uses. These effects will be short-term in duration and limited to the active construction period. The project will implement noise control measures such as restricting construction to daytime hours and ensuring that equipment is fitted with appropriate mufflers, which will reduce the potential for nuisance impacts. Upon completion, the project will not create new permanent sources of noise, and no long-term noise impacts are anticipated.

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	1	The Municipality of Jayuya experiences disproportionately high poverty rates compared to Puerto Rico overall, reflecting long-term socioeconomic challenges in the municipality, including limited employment opportunities and persistent economic vulnerability. The proposed project is anticipated to provide incremental economic benefits by supporting local employment and income during the construction period. It is estimated that the project will generate approximately 24 temporary jobs over the course of construction, including 11 direct jobs, 12 indirect jobs, and 1 induced job, representing both construction and secondary economic activity. These employment opportunities would provide short-term but meaningful benefits for the local labor force and associated businesses. Accordingly, the project would not result in any adverse impacts to employment or income patterns. On the contrary, it is expected to have a minor beneficial effect, as it would create direct, indirect, and induced employment opportunities that contribute positively to Jayuya's local economy.
Demographic Character Changes, Displacement	2	The proposed project will not displace any current residents nor alter the area's demographic makeup. The planned improvements will take place on an existing public facility (a parking area) already in use, and no homes or businesses will be removed or relocated as part of the project. Because the action is confined to upgrading an existing site, it will not induce any population changes in Jayuya's urban zone. In summary, no demographic character changes or displacement are anticipated; the community's population size and composition will remain the same, and the project will simply provide an infrastructure benefit without affecting where people live or who resides in the area.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		

Educational and Cultural Facilities	2	The project site is located within an area with adequate educational and cultural services. The proposed project is limited to improvements to an existing public parking facility and is not expected to impact educational and cultural facilities in the vicinity.
Commercial Facilities	1	The proposed project's site is surrounded by a mixed of residential and commercial uses, and the increase parking capacity and reduced traffic from the proposed project is likely to economically stimulate commercial facilities in the Jayuya urban center.
Health Care and Social Services	2	Jayuya's Diagnostics and Treatment Center / Municipal Hospital is within a third of a mile of the project site. The proposed project is limited to improvements to an existing public parking facility and is not expected to impact health care and social services facilities in the vicinity.
Solid Waste Disposal / Recycling	2	The proposed project would be required to conform with the Puerto Rico Permits Management Offices (OGPe, for its Spanish acronym) and the DNER regulations and standards related to construction projects' solid waste disposal and recycling. All appropriate permits will be obtained by the contractor prior to commencing constructions activities
Waste Water / Sanitary Sewers	2	The proposed project is limited to improvements to an existing public parking facility and would not increase demand for wastewater services in the area.
Water Supply	2	The proposed project is limited to improvements to an existing public parking facility and would not increase demand for potable water services in the area.
Public Safety - Police, Fire and Emergency Medical	2	The project site is located in an urban area that is well-served by police, fire, and emergency medical services. However, potential road closures during construction may affect emergency response times. To minimize these impacts, the construction contractor will implement a comprehensive Maintenance of Traffic (MOT) plan in accordance with the United States Department of Transportation (DOT) Federal Highway Administration (FHWA) 2009 Manual on Uniform Traffic Control Devices (MUTCD). The plan will account for potential impacts on emergency vehicles, designate alternate routes, and utilize appropriate traffic control devices to guide traffic efficiently. Additionally, the municipality will coordinate closely with municipal and state police, as well as local emergency services, to ensure that emergency responders can navigate the area promptly and effectively throughout the construction period. Although the proposed project is not expected to adversely affect these essential services, proactive measures will be taken to safeguard emergency response capabilities.
Parks, Open Space and Recreation	2	The project site is located in an area with sufficient parks, open space, and recreational spaces. The proposed project is limited to

		improvements to an existing public parking facility and not expected to impact parks, open space, or recreational areas.
Transportation and Accessibility	1	The area surrounding the project site is served by the municipal public transportation system, as well as by local private systems. The proposed project will improve the traffic and accessibility conditions in the area by providing additional parking spaces and alleviating congestion.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	The project site is located in a developed, urban zone of Jayuya and does not contain any unique natural features. Therefore, the proposed project would not cause adverse impacts to unique natural features.
Vegetation, Wildlife	2	The project site is located in a developed, urban zone of Jayuya and the project will take place entirely within the existing developed footprint of the current parking facility. Furthermore, the USFWS concurred with the determination that the proposed project qualifies for the blanket clearance letter and is not likely to adversely affect federally-listed species. If a Puerto Rican Boa is found in the Project action site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the CM shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa.
Other Factors	1	Implementation of the proposed project will provide the community with additional public parking capacity, support economic revitalization, and contribute to the creation of a more livable and accessible urban environment. The project will also enhance safety for all users, including pedestrians, cyclists, and drivers, while helping to improve local air quality by reducing traffic congestion and circulation in search of parking.

Environmental Assessment Factor	Impact Code	Impact Evaluation
CLIMATE AND ENERGY		
Climate Change Impacts	N/A	On January 20, 2025, President Donald Trump issued the Executive Order 14148 titled "Initial Rescissions of Harmful Executive Orders and Actions", which revoked Executive Order 14008 and eliminated federal mandates requiring agencies to assess climate change impacts. Consequently, there is no longer a federal requirement to address climate change concerns in the environmental compliance review process.

Energy Efficiency	2	The proposed project involves the construction of an elevated reinforced-concrete parking structure in Jayuya's urban center, replacing and expanding an existing surface parking lot. Once completed, the project's energy demand will be minimal, limited to lighting and basic safety features. The facility design incorporates solar-powered lighting systems, reducing reliance on Puerto Rico's electrical grid and lowering the carbon footprint associated with energy use. By using renewable energy sources, the project demonstrates consistency with HUD energy efficiency policies and Puerto Rico's goals for sustainable recovery and resilient infrastructure. The project is anticipated to have no impacts related to energy efficiency.

Additional Studies Performed: Subsoil Exploration and Geotechnical Engineering Report for Municipal Parking Building, prepared by Geotechnical Engineering Services, PSC (GES) on September 19, 2023 (see **Attachment 19**). Lead based paint (LBP) testing was conducted on 10/10/2024, 10/14/2024, and 10/15/2024 by Elme Rivera of AESI Inc. Asbestos containing materials (ACM) testing was conducted on 10/15/2024 by Elme Rivera of AESI Inc. (see **Attachment 10**). Please note that LBP and ACM testing were conducted for the Jayuya urban center and therefore, the associated hazards testing reports include results from some components not included in this project.

Field Inspection (Date and completed by)**:** On August 26, 2025, Environmental & Ecological Services LLC (EES) Environmental Consultant José L. Báez Romero conducted a walking inspection of the proposed project area. At the time of the inspection, weather conditions were warm (mid 90s °F) and sunny. The existing public parking areas (22 spaces total) were fully accessible. See field inspection photos dated August 26, 2025, below.








The following table summarizes EES observations during the field inspection:

Observations	Description/Location
Hazardous Substances and Petroleum Products as Defined by CERCLA 42 USC §9601(14):	None observed.
Drums (≥ 5 gallons):	None observed.
Strong, Pungent, or Noxious Odors:	None identified.
Pools of Liquid:	None observed.
Unidentified Substance Containers:	None observed.
PCBs-Containing Equipment:	None observed.
Other Observed Evidence of Hazardous Substances or Petroleum Products:	None observed.
Heating/Cooling Method:	N/A
Surface Stains or Corrosion	None observed.
Floor Drains and Sumps:	None observed.
Other Interior Observations:	None.
On-site Pits, Ponds, or Lagoons:	None observed.
Stained Soil or Pavement:	None observed.
Stressed Vegetation:	None observed.
Waste Streams and Waste Collection Areas:	None observed.
Solid Waste Disposal:	No areas suggesting solid waste disposal activities were identified during the field inspection.
Potential Areas of Fill Placement:	No mounds, piles, or surface depressions suggestive of fill material placement were identified during the field inspection.
Wastewater:	No exterior wastewater discharges were identified during the field inspection.
Stormwater:	Stormwater runoff generated on impermeable surfaces is directed to the curbs of State Road PR-141 (Guillermo Esteves Street) and Libertad Street.

Observations	Description/Location
Wells:	No wells were identified during the field inspection.
Septic Systems:	No visible indications of a septic system were identified during the field inspection.
Other Exterior Observations:	None.
Existing USTs:	No visible evidence (e.g., fill pipes, vent pipes, dispensers, or surface patches) indicative of underground storage tanks (USTs) was observed during the site inspection.
Other Underground Structures:	None observed.
Existing ASTs:	No visible evidence (e.g., fill pipes, vent pipes, dispensers, or containment dikes), indicative of aboveground storage tanks (ASTs), was observed during the field inspection.

The field inspection did not identify any on-site or nearby hazardous substances or conditions that could pose a risk to human health, the intended use of the property, or the successful implementation of the proposed project.

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]**:**

1. Federal Aviation Administration
    a. https://www.faa.gov/airports/planning_capacity/npias/current/2023_NPIAS_Appendix_A
2. FEMA Flood Map Service Center
    a. https://msc.fema.gov/portal/home
3. Google Maps
    a. https://earth.google.com
    b. https://maps.google.com
4. HUD
    a. https://www.hudexchange.info/environmental-review/
5. National Parks Services
    a. https://www.nps.gov/subjects/nnlandmarks/index.htm
6. National Wetlands Inventory
    a. https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/.
7. National Wildlife Refuge System
    a. https://www.fws.gov/program/national-wildlife-refuge-system.
8. Office for Coastal Zone Management
    a. https://coast.noaa.gov/czm/mystate/#puertorico
9. Puerto Rico Coastal Zone Management Program - http://www.drna.pr.gov/historico/oficinas/arn/recursosvivientes/costasreservasrefugios/pmzc/pmzc/pmzc2009/PMZCPR%20ingles%202009%20final.pdf.
10. Puerto Rico Office of the Comptroller
    a. Municipality of Jayuya Socioeconomic Indicators, http://ocpr.gov.pr/map/Municipios/Jayuya.pdf.
11. Puerto Rico Planning Board
    a. Jayuya Land Use Map, https://gis.jp.pr.gov/Externo_Econ/Otros%20-%20PUT/2015_Dic/Mapa%20PUT%20Vigente.pdf.

b. Jayuya Zoning Map, https://gis.jp.pr.gov/calificacionvigente/Jayuya/Jayuya005.pdf.

12. United States Environmental Protection Agency
    a. https://www.epa.gov/dwssa
    b. https://www3.epa.gov/airquality/greenbook/tnca.html\
    c. https://www.epa.gov/nepa/nepassist.
13. USA National Wild and Scenic Rivers
    a. www.rivers.gov.
14. US Census Bureau
    a. 2023 US Census Bureau Data for Jayuya Municipio, Puerto Rico, https://data.census.gov/profile/Jayuya_Municipio,_Puerto_Rico?g=050XX00US72073.
15. US Department of Transportation
    a. Federal Highway Administration, Manual on Uniform Traffic Control Devices (MUTCD), https://mutcd.fhwa.dot.gov/pdfs/2009r1r2/pdf_index.htm.
16. USFWS Coastal Barrier Resources System
    a. https://www.fws.gov/program/coastal-barrier-resources-act

List of Permits Obtained:

- Puerto Rico Permits Management Office (OGPe, for its Spanish acronym) Environmental Compliance Certification for Categorical Exclusion (2023-513926-DEC-125815).
- OGPe's Health and Safety Recommendation (2023-513926-SRS-075873).
- Puerto Rico Telecommunications Bureau (NET) Recommendation (2023-513926-SRI-075877).
- Puerto Rico Highway and Transportation Authority (ACT) Recommendation (2023-513926-SRI-075874).

Public Outreach [24 CFR 50.23 & 58.43]**:**
Public involvement is a central element of the environmental review process under 24 CFR Parts 50 and 58. The Responsible Entity undertook the required public outreach measures to ensure that affected communities, agencies, and interested parties had the opportunity to review and comment on the proposed action (see Floodplain Management documentation in **Attachment 14**).

Because the project site lies within the 100-year floodplain as delineated by the Puerto Rico Advisory Base Flood Elevation (ABFE) maps, the Responsible Entity completed the 8-Step Decision-Making Process required under Executive Order 11988 and 24 CFR Part 55. This process included publication of an Early Notice for Public Review of a Proposed Action in a Floodplain and a Final Notice and Public Explanation of a Proposed Action in a Floodplain. Notices were published in widely circulated local newspapers in both English and Spanish and were transmitted electronically to federal and Commonwealth resource agencies, including U.S. EPA, U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, NOAA, FEMA, Puerto Rico SHPO, Puerto Rico Planning Board, DNER, and the Puerto Rico Department of Housing. No substantive public comments were received in response to either notice.

Following completion of the Environmental Assessment, a combined Notice of FONSI and Request for Release of Funds (NOI/RROF) will be prepared and disseminated in accordance with 24 CFR 50.23 and 24 CFR 58.43. The notice will be published in a newspaper of general circulation and sent to the official

distribution list of reviewing agencies, community organizations, and interested parties. The dissemination list will include, at a minimum, the following:

- U.S. Department of Housing and Urban Development (HUD)
- U.S. Environmental Protection Agency (EPA)
- U.S. Army Corps of Engineers (USACE)
- U.S. Fish and Wildlife Service (USFWS)
- National Oceanic and Atmospheric Administration (NOAA)
- Federal Emergency Management Agency (FEMA)
- Puerto Rico Department of Natural and Environmental Resources (DNER)
- Puerto Rico State Historic Preservation Office (SHPO)
- Puerto Rico Planning Board and Permits Management Office (OGPe)
- Municipal Government of Jayuya
- Local community-based organizations, civic groups, and stakeholders

The notice will provide the public with a 15-day comment period (or 18 days if mailed) before the Responsible Entity may request release of funds from HUD.

While not specifically required for this project, additional public meetings or hearings may be conducted as part of Jayuya's broader City Revitalization Program consultation efforts or in coordination with municipal planning processes. These meetings provide opportunities to present project updates, explain environmental review findings, and receive feedback from residents and business owners.

Through publication of floodplain notices, dissemination of the forthcoming FONSI/NOI-RROF, and agency consultation, the Responsible Entity has satisfied the public involvement requirements of 24 CFR 50.23 and 58.43. Public outreach efforts ensured that the community and resource agencies were informed and provided an opportunity to participate in the environmental review process. No substantive adverse comments were received to date, and no additional hearings are anticipated; however, the Municipality may supplement these efforts with local meetings to support transparency and community engagement.

Cumulative Impact Analysis [24 CFR 58.32]**:**
The project site is located within the urban zone of Jayuya (census tract 9561), an area characterized by long-term population decline, housing vacancy, and persistent poverty. Past hurricanes, particularly Hurricanes Irma and María (2017), exacerbated existing vulnerabilities by damaging infrastructure and accelerating socioeconomic decline. The area currently includes a mix of residential, commercial, and community uses, but suffers from inadequate parking, traffic congestion, and limited accessibility that hinder economic activity and livability in the town center.

The proposed project is part of a broader set of municipal and Commonwealth recovery efforts funded under the Community Development Block Grant–Disaster Recovery (CDBG-DR) City Revitalization Program. Complementary projects in Jayuya include sidewalk reconstruction, lighting improvements, façade rehabilitation, and public space enhancements. Collectively, these projects aim to revitalize the urban core, restore essential infrastructure, and strengthen the community's resilience to future hazards. The proposed parking expansion project contributes to these goals by addressing a

documented shortage of safe and accessible public parking, while also improving traffic flow, pedestrian safety, and air quality.

Future municipal initiatives are expected to continue focusing on urban revitalization, resilience, and economic recovery, including improvements to public facilities, utilities, and community services. Given demographic trends of population decline and housing vacancy, future projects are unlikely to result in significant growth pressures, displacement, or large-scale land use changes. Instead, they are anticipated to incrementally improve existing conditions within Jayuya's town center and surrounding areas.

When considered together, the proposed project and other ongoing or planned revitalization actions will not result in significant adverse cumulative environmental impacts. Construction-related impacts such as noise, dust, traffic, and emissions will be temporary, localized, and managed through best management practices (BMPs). Operational impacts are expected to be beneficial, including improved parking availability, reduced congestion, enhanced safety, and minor air quality improvements. Importantly, the project does not involve the conversion of sensitive environmental features such as wetlands, floodways, or prime farmlands, nor does it introduce new noise-sensitive or high-density residential uses.

The cumulative effect of the proposed project, in combination with other CDBG-DR and municipal recovery projects, will be incrementally beneficial by supporting economic revitalization, community resilience, and environmental quality in Jayuya's urban core. No significant cumulative adverse impacts are anticipated. Accordingly, the project is consistent with the cumulative impact requirements of 24 CFR 58.32.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]:
In accordance with 24 CFR 58.40(e) and 40 CFR 1508.9, this Environmental Assessment evaluates the proposed action in comparison with reasonable alternatives, including the No Action Alternative. The purpose is to ensure that environmental considerations are integrated into the decision-making process and that practicable alternatives to the proposed project are fully examined.

The proposed action consists of the expansion and improvement of an existing municipal parking facility in the urban zone of Jayuya through the construction of a two-level elevated reinforced-concrete parking structure. The project will increase parking capacity from 22 to 32 spaces and include designated bicycle parking, improved traffic circulation, solar-powered lighting, landscaping, and a mosaic mural. The project is designed to address longstanding deficiencies in downtown parking availability, alleviate congestion, enhance pedestrian and vehicular safety, and support the Municipality's broader revitalization and economic recovery goals under the CDBG-DR City Revitalization Program.

Alternative locations for new parking facilities outside the existing urban zone were considered but were dismissed. Relocating the project to a different site would require new land acquisition, potential demolition, and additional environmental review for impacts on land use, zoning, and natural resources. Moreover, locating the project outside Jayuya's traditional urban core would not meet the project's purpose of alleviating congestion and improving accessibility within the town center, where demand for public parking is greatest.

Alternative designs, including surface-level reconfiguration or expansion of adjacent lots, were also considered. These options would provide only a marginal increase in capacity and would not resolve congestion or accessibility challenges. The elevated parking structure was selected as the most practicable design because it maximizes capacity within the existing lot footprint, avoids additional land conversion, and incorporates flood-resilient design features by allowing water to flow through the open ground level.

No Action Alternative [24 CFR 58.40(e)]:
Under the No Action Alternative, the proposed project would not be implemented. The existing surface parking lot would continue to operate with only 22 spaces and no significant improvements to safety, circulation, or accessibility. This alternative would avoid temporary construction-related impacts such as noise, dust, and localized traffic disruption. However, the No Action Alternative would fail to meet the identified purpose and need for the project. The shortage of public parking in the urban center would persist, contributing to ongoing traffic congestion, air quality concerns from idling vehicles, and limitations on economic activity in the downtown area. This option would not support the Municipality's recovery and revitalization efforts, nor would it provide the community benefits anticipated from the proposed action.

Summary of Findings and Conclusions:

- **Land Use and Demographics:** The project is located in a previously developed urban site and will not displace residents or alter the demographic character of the community. Jayuya's population decline and housing vacancy trends are ongoing but unrelated to the project.
- **Floodplains and Wetlands:** The site lies within the Advisory Base Flood Elevation (Zone A) floodplain but outside of the floodplain as identified by the FIRM. The Responsible Entity completed the required 8-Step Decision-Making Process under Executive Order 11988 and 24 CFR Part 55. No wetlands are present on-site; therefore, Executive Order 11990 does not apply.
- **Historic Preservation:** The site is within the Jayuya Traditional Urban Center, a National Register–eligible historic district. In consultation under Section 106 of the NHPA, the Puerto Rico SHPO issued a finding of No Adverse Effect contingent on archaeological monitoring during ground disturbance, with concurrence in August 2025.
- **Hazards and Nuisances:** The site is not proximate to above-ground flammable or explosive facilities (24 CFR Part 51 Subpart C). Temporary construction nuisances (dust, noise, emissions) will be mitigated through BMPs, OSHA standards, and DNER regulations.
- **Air Quality and Noise:** Construction emissions and noise will be temporary, localized, and minor. Long-term, the project is expected to reduce vehicular idling and improve downtown air quality. No sensitive receptors will be adversely affected.
- **Energy Efficiency:** The project incorporates solar-powered lighting and will reduce congestion-related fuel consumption, supporting energy efficiency.
- **Farmland and Natural Resources:** The site is not prime or unique farmland under NRCS designations (7 CFR Part 658). No wild or scenic rivers, protected habitats, or sole source aquifers are present in in the vicinity of the project site.
- **Cumulative Impacts:** When combined with other ongoing CDBG-DR revitalization projects in Jayuya, the project is expected to have incrementally beneficial cumulative impacts without significant adverse environmental effects.

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
Clean Air	The project applicant shall implement all the following applicable air pollution control measures during construction of the project: • All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered as needed to control dust. • All haul trucks transporting soil, sand, or other loose material shall be covered. • All visible mud or dirt track-out onto adjacent public roads shall be removed at least once per day. • All vehicle speeds on unpaved roads shall be limited to 15 miles per hour. • All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. • Construction equipment will be properly maintained according to manufacturer's specifications. • Employee parking areas and temporary equipment storage will be established. These would be located on paved surfaces or unpaved compacted surfaces. • The contractor shall obtain a General Consolidated Permit prior to conducting construction activities. During construction, Rule 204(c) of the Puerto Rico Air Pollution Control Regulations for the temporary operation of an emission source (power generator) will be complied with.
Contamination and Toxic Substances	Lead-based paint (LBP) testing performed at the site resulted in identification of LBP in floor lines, wheel stops, and curbs located at the project site. LBP abatement will be achieved through the removal of these components during construction.
Floodplain Management	The project site is located within an area mapped by the Puerto Rico Advisory Base Flood Elevations (ABFE) as a 100-year floodplain (Zone A), though outside of the floodplain according to FEMA's effective FIRM. To address potential climate-related flood risks, the project completed HUD's required 8-Step Decision-Making Process under Executive Order 11988 and 24 CFR Part 55. Mitigation measures include siting the new

	structure above the existing grade, incorporating design elements that allow water to pass through the open lower level, and ensuring that the project does not result in net floodplain loss. These design strategies increase the resilience of the facility against future flood and storm events.
Historic Preservation	On June 26, 2025, SHPO concurred with a determination of No Adverse Effect, subject to the condition that an archaeological monitoring plan be implemented during all ground-disturbing activities. The required monitoring plan was subsequently submitted and approved, with SHPO concurrence on August 12, 2025, confirming that the plan is adequate to mitigate potential impacts to cultural resources (se Historic Preservation documentation in **Attachment 15**). A qualified professional archaeologist will be present to monitor excavation and other ground-disturbing activities. SHPO will be notified of the archaeological monitoring start date 48 hours prior to the initiation of work. Should any historic or pre-contact archaeological materials or features be encountered, the archaeologist will follow the approved protocol, ensuring proper documentation, evaluation, and coordination with SHPO prior to resuming work.
Noise Abatement and Control	The project applicant shall implement all the following applicable noise control measures during construction of the project: • Equip all internal combustion engine-driven equipment with intake and exhaust mufflers that are in good condition and appropriate for the equipment. • Prohibit unnecessary idling of internal combustion engines. • Locate stationary noise-generating equipment such as air compressors or portable power generators as far as possible from sensitive receptors (e.g., Benjamin Harrison Vocational School). If necessary, construct temporary noise barriers to screen stationary noise-generating equipment when located near adjoining sensitive land uses. • Utilize “quiet” air compressors and other stationary noise sources where technology exists. • Control noise from construction workers’ radios to a point where they are not audible at an existing nearby school and businesses. • Prior to the start of construction, notify all adjacent property owners and other noise-sensitive land uses of

	the construction schedule, in writing, and provide a written schedule of "noisy" construction activities to the adjacent land uses and nearby properties. • Limit construction to the hours of 6:00AM to 6:00PM Monday through Friday for any onsite or off-site work.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	Stormwater pollution prevention measures shall be implemented throughout the year in accordance with the Puerto Rico Planning Board Joint Regulations for the Evaluation and Issuance of Permits Related to Development and Land Use. These measures include best management practices from the following categories: • Earth-moving activities and erosion control, • Vehicle and equipment maintenance, • Paints, solvents and adhesives handling and storage, • Material storage and spill cleanup, • Roadwork and pavement construction, • Concrete, cement and mortars handling and storage, and • Waste handling and disposal. The proposed project will be constructed in accordance with the recommendations provided by GES in the Subsoil Exploration and Geotechnical Engineering Report. Based on analysis of the soil borings taken from the project site, GES provided two alternatives that might be considered to cast the footings of the columns of the proposed building. The first one is to cast the footings at a depth of 8 feet below existing grade. The second is to over excavate to a depth of 8 feet to remove loose in-situ soils and old fills mixed with deleterious material at each footing's location and replace it with selected fill, properly compacted until reaching a higher depth of footing cast. For the second alternative a lower allowable bearing capacity shall be used. Excavation shall be planned so that run-off is controlled via a sump pit at its end. Braced excavations are necessary due to the lack of lateral space available for the implementation of safe provisional slopes. The design of the bracing system shall be performed by experts in this field. The design and construction of the retaining structure shall be properly performed in order to reduce settlements to a tolerable value. Several reference points shall be established at the existing structure adjacent to the braced cuts, to indicate

	the trend of any movement which might affect the stability of such structures. The excavations shall be started only after the contractor has thoroughly planned the final alternative to be chosen so that delay periods are diminished, thus reducing the time the excavations remain open. Before the excavations or undercut start, the contractor shall submit to the designer (in writing) a logical order of construction procedures and sequences to be employed, verified by his Geotechnical consultant. Once the bottom of each excavation has been reached, the soil inspector shall perform an inspection of the bearing surface and recommends any additional remotion if there is presence of soft and/or loose deposits. The bracing system shall be deepened considering the possibility of additional depth of excavation. After footings are cast, backfilling of the excavation shall be performed in a controlled way. The fill should be compacted that the dry unit weight of the compacted material is equal to or greater than ninety-five (95) percent of the maximum unit dry weight of material compacted in the laboratory under Modified Proctor Compaction Test. The contractor should employ suitable equipment to obtain the required percentage of compaction. The number of passes of the equipment over each section of the work surface shall be determined in the field. The Soils Engineer shall determine the density of the fill material after the compaction of each eight (8) inch layer, and the contractor shall not place any additional fill until the preceding compacted layer has been found to fulfill the aforementioned requirements. Each successive pass should overlap the preceding adjacent pass by ten (10) percent. Samples of all potential sources of fill must be submitted to the soil laboratory to establish their adequacy. Borrow materials for fill should consist of essentially granular material (GW, GM, SW, SP, or SM, Unified Soil Classification System; or A-2-6 to A-1-a AASHTO Classification System), as approved by the Geotechnical Engineer. These should be free from vegetable matter and should not contain rocks having a dimension greater than six (6) inches. The in-situ soils shall not be used as backfill.
Transportation and Accessibility	During construction activities, a Maintenance of Traffic (MOT) plan shall be developed and maintained pursuant the United States Department of Transportation (DOT) Federal Highway Administration (FHWA) 2009 Manual on Uniform Traffic Control Devices (MUTCD). Once the project is completed, permanent

	pavement markings and traffic signaling shall be installed pursuant to FWHA requirements.

Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]
The project will not result in a significant impact on the quality of the human environment.

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]
The project may significantly affect the quality of the human environment.

Preparer Signature: _____ Date: Sept 23, 2025

Name/Title/Organization: José L. Báez Romero / Environmental Consultant / EED

Certifying Officer Signature: Janette I. Cambrelen Digitally signed by Janette I. Cambrelen Date: 2025.09.24 11:04:04 -04'00' Date: 9/24/2025

Name/Title: Janette I. Cambrelén , Permits and Environmental Compliance Specialist

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).

List of Attachments

1	Project Location
2	90% Construction Plans
3	Municipality of Jayuya Land Use Map
4	Municipality of Jayuya Socioeconomic Indicators
5	Airport Hazards
6	Coastal Barrier Resources
7	Flood Insurance
8	Clean Air
9	Coastal Zone Management
10	Contamination and Toxic Substances
11	Endangered Species
12	Farmland Protection
13	Floodplain Management
14	Historic Preservation
15	Sole Source Aquifers
16	Wetlands Protection
17	Wild and Scenic Rivers
18	USDA-NRCS Custom Soil Resource Report
19	Subsoil Exploration and Geotechnical Engineering Report

Attachment 1:
Project Location

PR-CRP-000048 Project Location Map

Address: Libertad Street and PR-141, Jayuya, PR 00664
Coordinates: 18.219837°, -66.589825°



August 22, 2025

Search Result (point)

Source: EPA NEPAssist

1:4,514

0 0.04 0.07 0.14 mi

0 0.05 0.1 0.2 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

Attachment 2:
90% Construction Plans



SCALE: 1:20000

SATELLITE MAP

SCALE: 1:20,000

LAMBERT COORDINATES: X=183,333.357 Y=242,231.231 NAD 83



FLOOD MAP

SCALE: 1:5,000

MAP NUMBER: 72000C1105H ZONE X

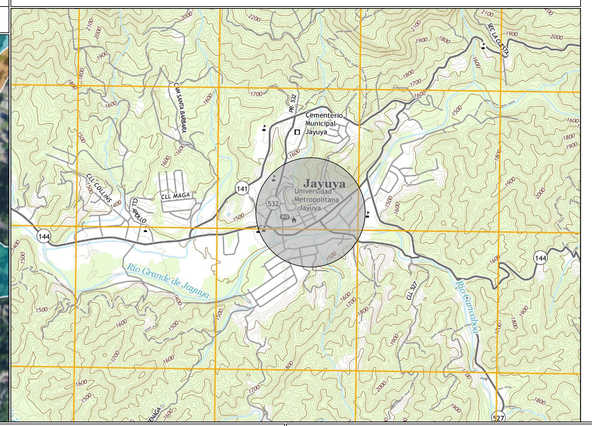
REVISION DATE: APRIL 19, 2005



USGS TOPOGRAPHIC MAP

SCALE: 1:20,000

LAMBERT COORDINATES: X=183,333.357 Y=242,231.231 NAD 83


Cementerio Municipal Jayuya
Jayuya
Universidad Metropolitana Jayuya
CLL MAGA
CLL CALMA
CLL CALMA
CLL LAUREL
CLL LAUREL
CLL LAUREL

GENERAL NOTES:

1. Prior to any construction, the Contractor shall familiarize himself with the Contract Documents and Specifications, the Plans, including all notes, the PRDOT Standard Details and Specifications and any other applicable standards or specifications relevant to the proper completion of the work specified. Failure on the part of the Contractor to familiarize himself with all Standards and Specifications pertaining to this work shall in no way relieve the Contractor of responsibility for performing the work in accordance with all such applicable Standards and Specifications.

2. The Contractor shall have in his possession, prior to construction, all necessary permits, licenses, etc. The Contractor shall have at least one set of approved Engineering Plans and Specifications on-site at all times. The Contractor shall notify the Municipality of Jayuya 48 hours prior to the commencement of any work.

3. All materials and construction shall conform to the PRDOT Standard Construction Details for Paving, Drainage, Water and Sanitary Sewer Facilities and be installed in accordance with the City Specifications and the Puerto Rico Department of Transportation. These specifications shall be made part of these plans.

4. In the event an item of work is not covered in the sheets provided in this set, Construction Standards, Specifications and Details; or the Puerto Rico Department of Transportation (PRDOT); the City Engineer or the Engineer of records shall have the final decision on all materials, methods and procedures.

5. Construction inspection may be performed by representatives of the Owner, Engineer, City, Geotechnical Engineer and Reviewing Authorities and Agencies. Unrestricted access shall be provided to them at all times. The Contractor is responsible for understanding and scheduling required inspections.

6. All contractors must confine their activities to the work area. No encroachments outside of the defined work area will be allowed, unless specifically noted on the plans. Any damage resulting therefrom shall be the Contractor's responsibility to repair.

7. It will be the responsibility of each contractor to protect all existing public and private utilities throughout the construction of this project. The Contractor shall contact the appropriate utility companies for line locations prior to commencement of construction and shall assume full liability to those companies for any damages caused to their facilities.

8. The Contractor shall be responsible for providing the required construction staking necessary to complete the construction in accordance with the plans and specifications.

9. The Contractor shall be responsible for providing and maintaining all necessary barricading and all other warning and safety devices to protect the public safety and health until all work has been completed and accepted.

10. If unforseen problems or conflicts are encountered in the course of construction, for which an immediate solution is not apparent, the Engineer and Owner shall be notified immediately.

11. The Contractor shall be responsible for field locating existing utilities and improvements prior to construction. The Contractor is responsible to obtain all endorsement and shall contact DTOP or any local utility company to locate all existing underground utilities before the commencement of any work.

12. The Contractor shall employ an Owner approved engineering testing laboratory for all required density, construction and materials testing and water bacteria testing. The testing laboratory shall make tests necessary to insure that construction is in accordance with the approved plans and specifications. Any retesting necessary to insure that a prior failing test meets the plan requirements, shall be at the Contractor's expense. The testing laboratory shall submit testing reports to the Engineer, the Owner and the Municipality.

13. The existing utilities shown on these plans have been located from reference information obtained from the respective owner of the utility. The Engineer and Owner do not accept responsibility for the utility locations as shown. It shall be the responsibility of the Contractor to verify the location of all existing utilities prior to construction, to take necessary precautions to protect all facilities encountered and to notify the Engineer promptly of any conflicts with existing facilities.

14. The Contractor shall be responsible for removing any existing structures, fences, debris or trees that are located within the boundaries of this project, unless otherwise noted on the plans.

15. The Contractor shall remove and dispose of all unsuitable excavated materials and construction debris at no additional cost to the Owner.

16. The Contractor shall be solely responsible for maintaining trench safety requirements in accordance with the trench safety plan prepared by others and in accordance with City Standards, PR State Law and the Occupational Safety and Health Administration Standards.

17. All concrete shall meet the minimum compressive strengths as noted and specified on the plans or other specifications. As a minimum, no concrete shall have a compressive strength less than 3,000 psi at 28 days.

18. Refer to the architectural plans for building and foundation dimensions.

19. The Contractor shall be responsible for providing a two (2) year, 100% maintenance bond to the Owner for all improvements associated with the approved plans.

20. The Contractor must replace and/or reconstruct as the existing condition, all damages structure like curbs, sidewalks, guard rails, signing, green areas and trees.

21. Attention is called to all bidders that there are utilities installed in the construction area of this project, which are the property of the fallowing entities P.R. Telephone Co. Puerto Rico Electric & Power Authority and the Puerto Rico Aqueduct Sewer Authority. Although these utilities were shown on the plans using the information obtained from the respective owners, The Contractor shall exercise utmost care not to cause any damage to these utilities and shall coordinate with the owners of such utilities for the exact location of the same or any other that might be in the area prior to the commencement of any work in the vicinity of these utilities.

22. The lateral offset of the signs to be installed shall be according to the standards, recommendations and options indicated in chapter 2a of the MUTCD 2009 Edition.

GRADING NOTES:

1. All grading shall be performed in accordance with these plans and the geotechnical report prepared by others.

2. New finished contours shown are top of paving in areas to receive pavement and top of soil in areas to be seeded.

3. Areas outside of parking lot perimeter shown to be seeded shall receive a minimum of four (4) inches of top soil (or to depth identified on the Landscaping Plans). This topsoil to be placed and leveled by the grading contractor. This material may be stockpiled during stripping operations.

4. Rough grading elevations shall be as follows:
   A. Four (4) inches below finished contours in seeded areas.
   B. Six (6) inches below finished contours in paved areas, unless noted otherwise.

5. Dimensions on buildings are for grading purposes only and are not intended for use in laying out the building foundation.

6. Contractor shall pay all costs associated with raising or lowering existing utility appurtenances as required to match finished grades in conformance with all governmental agencies and these plans.

7. The Contractor shall use whatever measures are required to prevent silt and construction debris from leaving the site. Contractor shall comply with all Federal, State and Local erosion, conservation and siltation regulations. Contractor shall remove all temporary erosion control devices upon completion of permanent drainage facilities and the establishment of vegetation sufficient to prevent erosion. Any damage to adjacent properties; downstream channels, ponds or lakes; or wildlife shall be corrected by the Contractor at his expense.

8. The Contractor shall take all available precautions to control dust at no additional cost to owner.

9. All excavation is unclassified and shall include all materials encountered.

10. All areas not covered by the building, paving or proposed landscaping shall be grassed on this lot including adjacent street parkways.

11. Prior to the commencement of construction activities, the Contractor shall stake out and mark the items established by the site plan.

12. Temporary erosion control devices shall be installed prior to the commencement of grading activities. Contractor shall inspect and maintain all temporary erosion control devices as required.

13. All disturbed areas shall be seeded with hydromulch unless otherwise noted. The Contractor shall maintain as much existing vegetation as possible. Grass buffer strips shall remain around the perimeter of the property to aid in the filtering of sedimentation. Sufficient temporary or permanent groundcover shall be established on all slopes, berms and swales to prevent erosion.

14. All site grading and earthwork shall comply to the geotechnical report recommendations.

15. These specifications do not include grading and preparation of the building foundation area. The Contractor shall confirm the foundation compaction, moisture control, select fill and/or treatment with the Owner, the project geotechnical engineer and structural engineer.

16. Areas within five (5) feet horizontally of the parking pavement and/or embankment slopes adjacent to the parking area shall be constructed as per the project geotechnical engineer's recommendations. The specifications identified below are minimum requirements and shall be superseded by the project geotechnical engineer's recommendations if in conflict. The specifications are as follows:

    A. The area shall be stripped of vegetation a minimum of six (6) inches or as directed by the project geotechnical engineer and proofrolled. Proofrolling consists of rolling the entire area of prepared subgrade with a heavy (25 ton or greater total weight) pneumatic tired roller. The roller shall make several passes over the area. Any soft, wet or weak areas which do not compact by proofrolling shall be removed and recompacted as outlined herein. The proofrolling operation must be performed under the observation of a qualified geotechnical engineer or his representative and density control tested.

    B. On-site soils with a plasticity index (PI) anticipated to be greater than 15 and less than 20, which includes any dark colored surface clay soils, can be used as grade raise fill outside the proposed building area. These clay soils shall be compacted to a dry density of at least 95 percent of standard proctor density. The compacted moisture content of the clays during placement shall be between optimum and four (4) percentage points above optimum.

    C. Compaction shall be accomplished by placing the fill in six (6) to eight (8) inch thick lifts and compacting each lift to at least the minimum specified dry density. It is imperative that the fill particle sizes be less than six (6) inches in diameter. If larger clods are encountered during grading, these clods must be broken down or removed prior to final placement of the fill.

    D. In order for the fill materials to perform as intended, the fill material must be placed in a manner which produces a good uniform fill that is compacted within the density and moisture ranges outlined above. Field density tests shall be performed to confirm this performance as construction progresses. For the proposed parking and driveway areas, testing at a frequency of no less than one (1) test per each lift per each 5,000 square feet shall be provided.

17. All underground work shall be completed prior to subgrade preparation and placement of paving.

PAVING NOTES:

1. All dimensions are to the face of curb unless shown otherwise.
2. All proposed curb radii are 2.0 feet unless shown otherwise.
3. The Contractor shall remove and replace any concrete pavement within five (5) days of saw cutting the existing pavement.
4. The use of fly ash is not allowed in the concrete mix design.
5. All subgrade shall be tested for sulfates prior to the placement of concrete pavement. If sulfates are found, any treatments shall be in accordance with the recommendations of the geotechnical engineer.
6. All concrete shall meet the minimum compressive strengths as noted and specified on the plans or other specifications. Unless noted otherwise, the concrete pavement shall have a minimum compressive strength of 3,600 psi at 28 days.
7. It is the Contractor's responsibility to ensure compliance with all handicapped accessibility requirements, including signage, textures, colorings, markings and slopes of ADA accessible routes and parking spaces.
8. All signs, pavement markings and other traffic control devices shall conform to the Manual on Uniform Traffic Control Devices latest version.
9. All existing signs within the limits of the proposed pavement shall be relocated a minimum of five (5) feet from the proposed back of curb.
10. The contractor shall submit a pavement jointing plan to the Engineer for approval prior to the placement of concrete paving.
11. Saw joints shall be made as soon as the new concrete can support the weight of the machine and operator without tracking.

STORM DRAINAGE NOTES:

1. Drainage improvements to the existing system is not included in this project unless directed by the Engineer.
2. All storm drainage pipe shall be HDPE pipe, unless shown otherwise.
3. Use pre-fabricated Wyes at all pipe intersections and concrete collars at pipe size changes if a junction device (manhole, junction box, inlet, etc.) is not used.
4. Open ends of storm drainage pipes shall be adequately protected at the end of each day by the contractor.
5. Water jetting is not allowed.
6. All embedment and backfill shall be wetted to approximate optimum moisture and compacted in 8 inch lifts to 95% Standard Proctor Density or as directed by the Geotechnical Engineer. Density tests shall be obtained for each lift and for each 150 lineal feet of trench or increment thereof or as directed by the Geotechnical Engineer.
7. All excavation is unclassified and shall include all materials encountered.

EROSION CONTROL NOTES:

1. Erosion control design and specifications are included in these drawings in accordance with the minimum requirements of the DTOP or JCA. Responsibility for compliance with State and Federal Best Management Practices (BMPs), the implementation of erosion control BMP measures and/or the filing of permits or notices shall solely rest with the Contractor(s) and Owner(s). The Junta de Calidad Ambiental (JCA) requires permits for both small and large construction sites under the authority of the Environmental Protection Agency (EPA) General Permit, if required. General Permit requirements will require the developer/owner and responsible Contractor(s) to complete the following:

   Small Construction Sites – will disturb (alone or as part of a larger development) between 1 acre and 5 acres of land.
   A. Must develop and implement a Storm Water Pollution Prevention Plan (SWPPP)
   B. Must post copy of the Construction Site Notice at the project site.
   C. Must submit a copy of the JCA Construction Site Notice to the overseer Governmental Agency, if required.

   Delgado Torres Eng. LLC., assumes no responsibility or liability for failure to do so by the Owner, Developer or Contractor.

2. The Contractor shall obtain a General Permit in compliance with Governmental Agency and implement a SWPPP according to permit requirements and applicable laws.
3. The Contractor shall preserve existing vegetation when possible and must stabilize any disturbed area where construction activity has temporarily or permanently ceased. The stabilization must take place within 14 days of the end of activities unless construction will resume within 21 days.
4. All of the erosion control devices shown on the erosion control plan for the project shall be installed prior to the start of land disturbing activities.
5. If the erosion control plan as approved cannot control erosion and off-site sedimentation from the project, then the erosion control plan will be required to be revised and/or additional erosion control devices will be required on-site.
6. The Contractor shall use whatever measures are required to prevent silt and construction debris from leaving the site. Contractor shall comply with all Federal, State and Local erosion, conservation and siltation regulations. Contractor shall remove all temporary erosion control devices upon completion of permanent drainage facilities and the establishment of vegetation sufficient to prevent erosion. Any damage to adjacent properties; downstream channels, ponds or lakes; or wildlife shall be corrected by the Contractor at his expense.
7. The Contractor shall take all available precautions to control dust at no additional cost to owner.

DRAWING GENERAL NOTES:

1. Metric system has been used throughout the project unless otherwise specified.
2. All elevations are referred to mean sea level and given in meters.
3. All horizontal coordinates used are meters, NAD83 (rev. 1993) system.
4. North indication points to true north.
5. New construction shall meet horizontal and vertical alignments of existing facilities.
6. For standard models drawings, refer to the standard drawings book adopted by the Puerto Rico Highway and Transportation Authority.
7. The lateral offset of the signs to be installed shall be according to the standards, recommendations and options indicated in chapter 2a of the MUTCD 2009 edition.
8. Historical buildings are identified (from the Oficina Estatal de Conservacion Historica de PR) in the plans, although is the sole responsibility of the contractor to obtain any permits to perform any work adjacent to these buildings. the contractor shall not impact in any way these historical buildings to complete the construction shown here.

.

ABBREVIATIONS

ABUT.	ABUTMENT	EXP.	EXPANSION	P.T.	POINT OF TANGENCY
AGG.	AGGREGATE	EXT.	EXTERNAL	P.C.C.	PORTLAND CEMENT CONCRETE
AH.	AHEAD	EGL	ENERGY GRADE LINE	PWR.	POWER
AL.	ALUMINUM	EOP	EDGE OF PAVEMENT	P.P	POWER POLE
ASB.	ASBESTOS	F. TO F.	FACE TO FACE	P.L.	PROPERTY LINE
ASPH.	ASPHALT	F.A.	FEDERAL AID	PROP.	PROPOSED
B.C.	BACK OF CURB	F.A.P.	FEDERAL AID PRIMARY	P.G.	PROPOSED GRADE
B.L.	BASE LINE	F.A.S.	FEDERAL AID SECONDARY	P.V.I.	POINT OF VERTICAL INTERSECTION
B.W.F.	BARBED WIRE FENCE	F.	FILL	R.	RADIUS OF CURVATURE
B.V.	BALL VALVE	F.L.	FLOW LINE	RR.	RAILROAD
B. & S.	BELL & SPIGOT	FWD.	FORWARD	R.C.P.	REINFORCED CONCRETE PIPE
BM.	BENCH MARK	G.I.	GALVANIZED IRON	RET.	RETAINING
BIT. CONC.	BITUMINOUS CONCRETE	G.	GAS	RT.	RIGHT
BLDG.	BUILDING	G.V.	GAS VALVE	R.O.W.	RIGHT OF WAY
BW	BOTTOM OF WALL	GRAV.	GRAVEL	RD.	ROAD
C.I.	CAST IRON	GRD.	GROUND	RDWAY.	ROADWAY
C.I.P.	CAST IRON PIPE	HW.	HEADWALL	SAN. S.	SANITARY SEWER
C.B.	CATCH BASIN	HWL.	HIGH WATER LEVEL	S.M.H.	SANITARY SEWER MANHOLE
C.L.	CENTER LINE	HGL	HYDRAULIC GRADE LINE	SHDR.	SHOULDER
C. TO C.	CENTER TO CENTER	HYD.	HYDRANT	SW.	SIDEWALK
CTD.	COATED	INV.	INVERT	S.C.	SPIRAL TO CURVE
COL.	COLUMN	I.E.	INVERT ELEVATION	S.T.	SPIRAL TO TANGENT
COM.	COMMUNICATION	J.B.	JUNCTION BOX	SQ.M.	SQUARE METER
CONC.	CONCRETE	L.T.	LEFT	STA.	STATION
C.O.A.	CONTROL OF ACCESS	L.	LENGTH OF CURVE	S.S.	STORM SEWER
COORD.	COORDINATES	L.P.	LIGHT POLE	STR.	STRUCTURE
C.M.	CORRUGATED METAL	M.B.	MAIN BOX	SG.	SUBGRADE
C.M.P.	CORRUGATED METAL PIPE	M.L.	MAIN LINE	S.L.	SURVEY LINE
CU.M.	CUBIC METER	MH.	MANHOLE	TW	TOP OF WALL
CUL.V.	CULVERT	MAX.	MAXIMUM	T.S.	TANGENT TO SPIRAL
C.S.	CURVED TO SPIRAL	M.H.W.	MEAN HIGH WATER	TEL.	TELEPHONE
C.	CUT	M.S.L.	MEAN SEA LEVEL	TY	TYPE (MATERIAL TYPE)
DEG.	DEGREE	MED.	MEDIAN	T.E.	TOP ELEVATION
DIA.	DIAMETER	MIN.	MINIMUM	T.G.	TOP OF GRATE
DIM.	DIMENSION	MON.	MONUMENT	TOC	TOP OF CURB
DWG.	DRAWING	D.C.	ON CENTER	UG.	UNDERGROUND
DWY.	DRIVEWAY	O.D.	OUTSIDE DIAMETER	V.C.	VERTICAL CURVE
ELEV.	ELEVATION	OFF.	OFFSET	VERT.	VERTICAL
E. TO E.	END TO END	O. TO O.	OUTSIDE TO OUTSIDE	W.M.	WATER MAIN
ENGR.	ENGINEER	PVMT.	PAVEMENT	W. MTR.	WATER METER
EST.	ESTIMATE	PCC.	POINT OF COMPOUND CURVATURE	W.V.	WATER VALVE
EXC.	EXCAVATIION	P.C.	POINT OF CURVATURE	W.W.	WING WALL
EXIST.	EXISTING	P.I.	POINT OF INTERSECTION	W.M.F.	WIRE MESH FENCE
E.G.	EXISTING GROUND	P.R.C.	POINT OF REVERSE CURVE	W.I.	WROUGHT IRON
				W/F	WATER FAUCET BOX

PRELIMINARY PLANS

THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
PLANS PREPARED UNDER THE DIRECT SUPERVISION OF J.A.DELGADO VELEZ, PE. CIAPR REGISTRATION # 28436
DATE: May 30, 2024

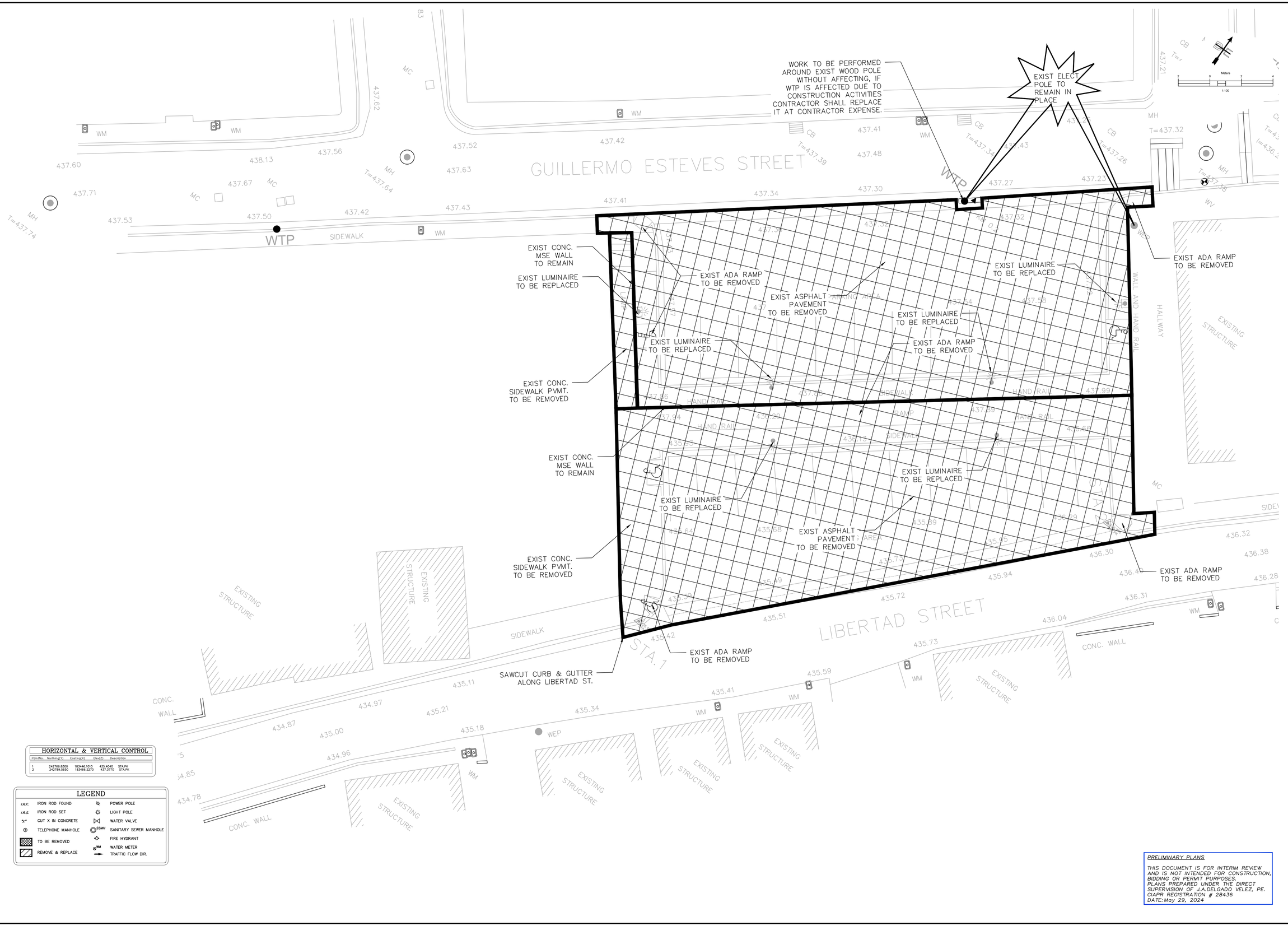
DELTORRE ENGINEERING
PLANNING SMART FOR A BETTER FUTURE
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

PARKING LIBERTAD STREET
JAYUYA, P.R.

GENERAL NOTES

REVISIONS	SYMBOL	DATE	BY
NOT FOR CONSTRUCTION	A	2024-05-28	JAD			

EN CASO A DECIDO SEA PARTE DE LOS PLANOS SELLADOS POR EL PROFESIONAL DE LA INGENIERIA Y/O PREPARE ESTOS PLANOS Y LAS ESPECIFICACIONES, CONFORMANDO LOS MISMOS SELLADOS POR EL MISMO, NINGUNA PERSONA QUE NO SEA EL PROFESIONAL DE LA INGENIERIA QUE LOS SELLO, PREPARO O SUPERVISO, PODRA HACER CAMBIOS A LOS MISMOS. EN EL CASO DE QUE LOS MISMOS SEAN UTILIZADOS POR CORPORACIONES FORMADAS CON PERSONAL PROFESIONAL DE LA INGENIERIA, DICHAS CORPORACIONES TENDRAN QUE DESIGNAR UN PROFESIONAL DE LA INGENIERIA QUE SEA EL RESPONSABLE DE CUALQUIER CAMBIO QUE SE HAGA A LOS MISMOS, POR OTRA PERSONA QUE NO SEA EL MISMO, SIN LA AUTORIZACION POR ESCRITO DEL PROFESIONAL DE LA INGENIERIA QUE LOS SELLO, PREPARO O SUPERVISO.



HORIZONTAL & VERTICAL CONTROL					
Point No.	Northing(Y)	Easting(X)	Elev(Z)	Description	
1	242766.8300	183446.1010	435.4040	STA.PK	
2	242789.5650	183466.2270	437.3770	STA.PK	

LEGEND			
I.R.F.	IRON ROD FOUND		POWER POLE
I.R.S.	IRON ROD SET		LIGHT POLE
	CUT X IN CONCRETE		WATER VALVE
	TELEPHONE MANHOLE	SSMH	SANITARY SEWER MANHOLE
	TO BE REMOVED		FIRE HYDRANT
	REMOVE & REPLACE	WM	WATER METER
			TRAFFIC FLOW DIR.

PRELIMINARY PLANS

THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
PLANS PREPARED UNDER THE DIRECT SUPERVISION OF J.A.DELGADO VELEZ, PE. CIAPR REGISTRATION # 28436
DATE: May 29, 2024

DELTORRE ENGINEERING LLC
IMPROVING QUALITY OF LIFE TO OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

PROJECT NAME
PARKING LIBERTAD STREET
JAYUYA, P.R.

SHEET NAME
C200 DEMOLITION PLAN

REVISIONS	SYMBOL	DATE	BY

YO, JOSÉ A. DELGADO VÉLEZ, NUMERO DE LICENCIA 28436 CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONO Y/O DISEÑO Y/O PREPARÉ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, LOS CUALES CUMPLEN CON LAS DISPOSICIONES CONTENIDAS EN LA LEY NÚM. 173 DE 12 DE AGOSTO DE 1988, SEGÚN ENMENDADA, Y LAS DISPOSICIONES REGLAMENTO CONJUNTO Y LAS DISPOSICIONES ARTICULADAS DE LOS REGLAMENTOS VIGENTES DE LA OFICINA DE GERENCIA DE PERMISOS (OGPE) Y LA JUNTA DE PLANIFICACIÓN. ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS FUERON PREPARADOS BAJO MI SUPERVISIÓN PERSONAL O EN COLABORACIÓN CON PERSONAS PÚBLICAS CON JURISDICCIÓN. RECONOZCO QUE CUALQUIER DESLAMACIÓN FALSA O ENGAÑOSA DE LOS HECHOS ANTES MENCIONADOS PODRÍA RESULTAR EN LA REVOCACIÓN DE MI LICENCIA. ESTA DECLARACIÓN ES HECHA POR MÍ, BAJO JURAMENTO Y BAJO LAS PENAS DE PERJURIO. ENTIENDO QUE LOS PLANOS Y ESPECIFICACIONES QUE NO HAYAN SIDO PREPARADOS POR MÍ, O BAJO MI SUPERVISIÓN DIRECTA, NO SERÁN ACEPTADOS A MENOS QUE VENGAN ACOMPAÑADOS DE UNA CARTA DE RESPONSABILIDAD PROFESIONAL FIRMADA POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HAGO RESPONSABLE DE LOS MISMOS ANTE LA OGPE Y LA JUNTA DE PLANIFICACIÓN.

DRAWN: JAD
DESIGNED: JAD
REVIEWED: ITI
DATE:
May 29, 2024
PROJECT NO.:
DTE23-003
SHEET NO.:
C200

c:\users\josedelgado\onedrive - delgado torres engineering, llc\documents - projects\dte-2023-003 parking libertad street crp-048 jayuya\dte23-003 c3d\production drawings\c200 demolition plan.dwg

PR 141/GUILLERMO ESTEVES ST.

LEVEL ABOVE
FFE=439.02
16

LEVEL BELOW
FFE=436.00
16

LIBERTAD ST.

7.6MT

3.8MT

EXISTING STRUCTURE

PARE

CONC. WALL

WM

WEP

WV

MC

Meters
2 0 2 4
1:100

SITE DATA SUMMARY TABLE
CRP-000048 PARKING AT LIBERTAD ST.
JAYUYA, PUERTO RICO
LOT 1, BLOCK A
URBAN CENTER JAYUYA, PR
MUNICIPALITY OF JAYUYA
ZONED: COMMERCIAL (C-1)

SITE DATA		
GROSS SITE AREA	808.35 SQ. MT (0.183 ACRES)	
DETENTION AREA	0 SQ. MT (0.00 ACRES)	
ZONING DATA		
ZONING DISTRICT:	COMMERCIAL	
CURRENT USE:	PARKING	
PROPOSED USE:	PARKING	
LOT COVERAGE DATA:		
BUILDING COVERAGE (PROPOSED)	0.00%	0.00 MT
IMPERVIOUS AREA	91.96%	743.36 MT
PERVIOUS AREA	8.04%	64.99 MT
PARKING SUMMARY:	REQUIRED	PROVIDED
HANDICAP (1/25 SPACES)	2	2
PROPOSED PARKING AREA		
8 NEW SPACES PROVIDED		
TOTAL REQUIRED (EXIST)		– 22 REQUIRED
PARKING PROVIDED		– 32 PROVIDED
DEVIATION (22/32)		– 68.75%
TOTAL PARKING		–32 SPACES

HORIZONTAL & VERTICAL CONTROL

PointNo.	Northing(Y)	Easting(X)	Elev(Z)	Description
1	242766.8300	183446.1010	435.4040	STA.PK
2	242789.5650	183466.2270	436.2960	STA.PK

LEGEND

CUT X IN CONCRETE		POWER POLE	
EXIST ELECTRIC LINE		LIGHT POLE	
EXIST TELEPHONE LINE		WATER VALVE	
EXIST STORM DRAIN	MH	UTILITY MANHOLE	
EXIST WATER LINE		EX. CATCH BASIN	
EXIST SANITARY LINE		FIRE HYDRANT	
EX FLOOD PLAIN ELEV	WM	WATER METER	
CONST. IMPACTED AREA		TRAFFIC FLOW DIR.	

PRELIMINARY PLANS

THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
PLANS PREPARED UNDER THE DIRECT SUPERVISION OF J.A.DELGADO VELEZ, PE.
CIAPR REGISTRATION # 28436
DATE: May 29, 2024

DELTORRE ENGINEERING LLC
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

PROJECT NAME
PARKING LIBERTAD STREET
JAYUYA, P.R.

SHEET NAME
SITE PLAN

REVISIONS	SYMBOL	DATE	BY

YO, JOSE A. DELGADO VELEZ, MIEMBRO DE LA LOGIA, JAIME, CERTIFICO QUE SOY EL PROFESIONAL QUE PREPARO Y/O DISEÑO Y/O PREPARE ESTOS PLANOS Y LAS ESPECIFICACIONES CONTENIDAS EN LOS MISMOS Y QUE LOS MISMOS CUMPLEN CON LAS ESPECIFICACIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS ESPECIFICACIONES APLICABLES DE LOS REGLAMENTOS Y NORMAS DE CONSTRUCCION APLICABLES DE LA AUTORIDAD CORRESPONDIENTE. TODO USO, USO DE INTERVENCION, RECONSTRUCCION, DE CUALQUIER FORMA DE ESTOS PLANOS O ESPECIFICACIONES SIN MI CONSENTIMIENTO ESCRITO, O POR OTRAS PERSONAS QUE NO SEA POR MI, ME LIBERA O EXIMIRA DE CUALQUIER RESPONSABILIDAD Y ME RESERVO EL DERECHO DE ACCION LEGAL QUE PUEDA PROCEDER CON MI CONOCIMIENTO, NO HAGAN REVISIONES NI ADICIONES A ESTOS PLANOS SIN MI CONSENTIMIENTO POR ESCRITO.

DRAWN: JAD
DESIGNED: J. Delgado, PE
REVIEWED: I. Torres, PE
DATE:
May 29, 2024
PROJECT NO.:
DTE23-003
SHEET NO.:
C300

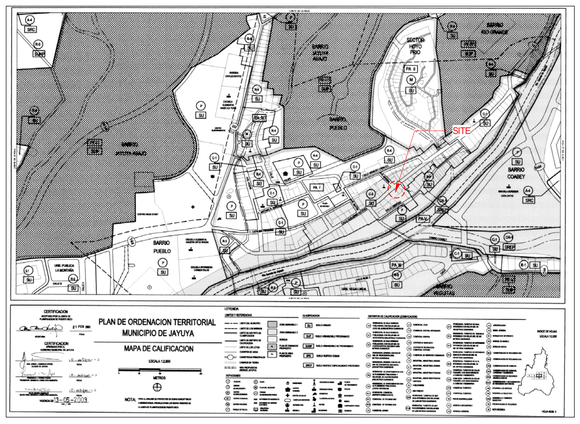
c:\users\josedelgado\onedrive - delgado torres engineering, llc\documents - proyectos\dte-2023-003 parking libertad street crp-048 jayuya\dte23-003 c3d\production drawings\c300 overall site plan.dwg

CONSTRUCTION DRAWINGS FOR:

PARKING LIBERTAD STREET

STATE ROAD P.R. No 144 LIBERTAD STREET JAYUYA,
PUERTO RICO





LOCATION MAP

NOT TO SCALE

LEGAL DESCRIPTION:

PARCEL ID:

NOTE:

THE INTENT OF THIS PERSPECTIVE IS TO SHOW THE GENERAL ARCHITECTURAL CONCEPT. SOME BUILDING OR SITE FEATURES MAY DIFFER FROM WHAT IS SHOWN ON THE PLANS. REFER TO ARCHITECTURAL AND CIVIL PLANS FOR A DESCRIPTION OF ACTUAL DESIGN.

DESIGNERS OF RECORD

WE HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED, TO THE BEST OF OUR KNOWLEDGE, IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

ARCHITECTURAL

FRANCISCO J. MORENO-ORAMA, AIA
LICENSED ARCHITECT #19875

MORENO ORAMA ARCHITECTURE, INC.

3012 AMBER OAK DR
VALRICO, FL 33594
(813) 381-3382
FMORENORAMA@GMAIL.COM

DATE: 5/28/2024 5:21:40 PM

LIST OF SHEETS

Sheet Number	Sheet Name	Sheet Issue Date	Current Revision	Current Revision Date
G	GENERAL			
G000	COVER SHEET	06/02/22		
AS	ARCHITECTURAL SITE			
ASD110	EXISTING ARCHITECTURAL SITE PLAN	02/18/22		
A	ARCHITECTURAL			
A110	FIRST LEVEL FLOOR PLAN	06/02/22		
A111	REFLECTED CEILING FIRST LEVEL	06/02/22		
A120	SECOND LEVEL FLOOR PLAN	06/27/22		
A210	EAST AND NORTH BUILDING ELEVATION VIEWS	12/18/23		
A220	WEST AND SOUTH BUILDING ELEVATION VIEWS	12/18/23		
A310	BUILDING SECTION	06/07/23		
A320	WALL SECTIONS	06/07/23		
A410	STAIRS BLOW-UP PLANS AND SECTIONS	06/07/23		
A510	CORRUGATED WALL PANESL DETAILS	02/22/24		
A520	METAL CANOPY DETAILS	02/22/24		
A530	METAL CANOPY SHOP DRAWING DETAILS	02/22/24		
A540	SIGN DETAIL AND METAL CAP FLASHING DETAILS	02/22/24		
A550	TYPICAL DETAILS	02/22/24		
A560	PAVEMENT STAMP PATTERN DETAILS	02/22/24		

BUILDING AREA SCHEDULE

NAME	TYPE	AREA	LEVEL
Area	GROSS BUILDING	5938 ft²	LEVEL 1 F.F.E.L.
Area	GROSS BUILDING	5895 ft²	LEVEL 2
TOTAL: 2		11833 ft²	

PROJECT SUMMARY

PROJECT NAME	PARKING LIBERTAD STREET
PROJECT ADDRESS	STATE ROAD P.R. No 144 LIBERTAD STREET JAYUYA, PUERTO RICO
OWNER	JAYUYA
OWNER ADDRESS	STATE ROAD P.R. No 144 LIBERTAD STREET JAYUYA, PUERTO RICO
OWNER PHONE NO	
OWNER EMAIL	
AUTHORIZED AGENT	R

CODE COMPLIANCE

PATH OF COMPLIANCE	NEW CONSTRUCTION	
CODE ENFORCEMENT JURISDICTION	OFICINA DE GERENCIA DE PERMISOS (OGPe)	
MODEL CODES	ARCHITECTURAL	2018 BUILDING CODE OF PUERTO RICO
	STRUCTURAL	2018 BUILDING CODE OF PUERTO RICO
	MECHANICAL	2018 RESIDENTIAL CODE OF PUERTO RICO
	ELECTRICAL	2018 RESIDENTIAL CODE OF PUERTO RICO
	PLUMBING	2018 RESIDENTIAL CODE OF PUERTO RICO
	ENERGY	2018 ENERGY CODE OF PUERTO RICO

SITE DATA

ZONING DISTRICT	(C-3) AND (R-4)	SU (SUELO URBANO)
FLOOD ZONE	X	
SITE PARAMETERS	REQUIRED	PROPOSED
PARKING/ LOADING		32
MAXIMUM HEIGHT		26'-5"
LOT COVERAGE %		8,218.98 SQ. FT. = 763.57 SQ. MTS.
PERVIOUS AREA %		0
GROSS BUILDING AREA		33%
SETBACKS/ YARDS: FRONT REAR SIDE		N/A 0 0 0

BUILDING DATA

USE AND OCCUPANCY CLASSIFICATION	GROUP S-2 STORAGE	
CLASSIFICATION OF WORK	GARAGE	
CONSTRUCTION TYPE	IIB NS (NOT SPRINKLERED)	
CONSTRUCTION MATERIALS:	ALLOWED	PROPOSED
PRIMARY STRUCTURAL FRAME	NONCOMBUSTIBLE	NONCOMBUSTIBLE
EXTERIOR WALLS	NONCOMBUSTIBLE	NONCOMBUSTIBLE
INTERIOR WALLS	NONCOMBUSTIBLE	NONCOMBUSTIBLE
OTHERS	COMBUSTIBLE MATERIALS PER FBC SECTION 603	2,3,5,6,7,14,15,16,18,2,2324,25, 603.1.1, 603.1.2, 603.1.3
BUILDING HEIGHT IN STORIES	2 STORIES	2 STORY
BUILDING HEIGHT IN FEET	26'-5"	26'-5"
GROSS BUILDING AREA	UNLIMITED	11,833 SQ FT (1,099.32 SQ. MTS.)

GENERAL FIRE PROTECTION

SPRINKLERS	NOT SPRINKLERED	
STANDPIPES	NO	
OCCUPANCY LOAD	SEE G001	
EXITS	2	
EMERGENCY LIGHTING	YES	
EXIT SIGNS	YES	
FIRE ALARM	NO	
SMOKE DETECTION SYSTEMS	YES	
CARBON MONOXIDE DETECTION	NO	
FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:	REQUIRED	PROPOSED
PRIMARY STRUCTURAL FRAME	0 HR	0 HR
BEARING WALLS EXTERIOR INTERIOR		 0 HR 0 HR
NONBEARING WALLS AND PARTITION CORRIDORS SEPARATION OF OCCUPANCY	0 HR PER FBC 1020.1.4 (LESS THAN 30 OCCUPANTS)	0 HR 0 HR 0 HR
FLOOR CONSTRUCTION	0 HR	0 HR
ROOF CONSTRUCTION	0 HR	0 HR

MOA
moreno orama architecture
3012 amber oak dr valrico, FL 33594
813.381.3382
architectural business license AA26003981
fmorenorama@gmail.com

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

5/28/2024 5:21:40 PM

DATE

FRANCISCO J. MORENO-ORAMA
LICENSED ARCHITECT
#19875

I, FRANCISCO J. MORENO-ORAMA, LICENSED ARCHITECT NO. 19875, I CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED THESE DRAWINGS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT TO MY UNDERSTANDING, SUCH DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND CODES OF THE AGENCIES, REGULATORY BOARDS, OR PUBLIC CORPORATIONS. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR FALSIFICATION OF FACTS THAT HAS BEEN PRODUCED BY NEGLIGENCE, WHETHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHER PEOPLE WITH MY KNOWLEDGE, MAKE ME RESPONSIBLE FOR ANY AUTHORITY AND DISTRIBUTION OF JUDICIARY OR LEGAL ACTION COMPETENT, INCLUDING BUT NOT LIMITED TO THE COMPLETION OF PARTICIPATION IN THE OIGPE PROFESSIONAL CERTIFICATION PROCEDURES.

CONSTRUCTION DRAWINGS FOR:

PARKING LIBERTAD STREET

STATE ROAD P.R. No 144 LIBERTAD STREET JAYUYA, PUERTO RICO

OWNER: JAYUYA

ADDRESS: STATE ROAD P.R. No 144 LIBERTAD STREET JAYUYA, PUERTO RICO

TELEPHONE:

EMAIL:

OWNER'S REPRESENTATIVE:

R

ISSUE/ REVISIONS:

NUM.	DATE	DESCRIPTION

PROJECT NO:

FILE:

DRAWN BY: CPB CHK'D BY: FMO

© 2024 MORENO ORAMA ARCHITECTURE,INC

SHEET TITLE:

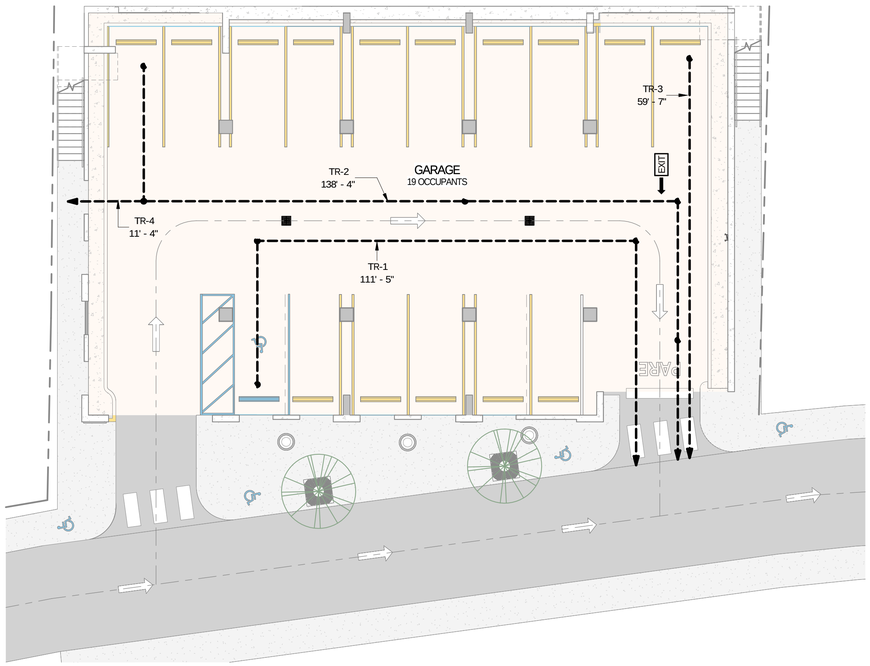
COVER SHEET

SHEET COUNT: of

SHEET IDENTIFICATION:

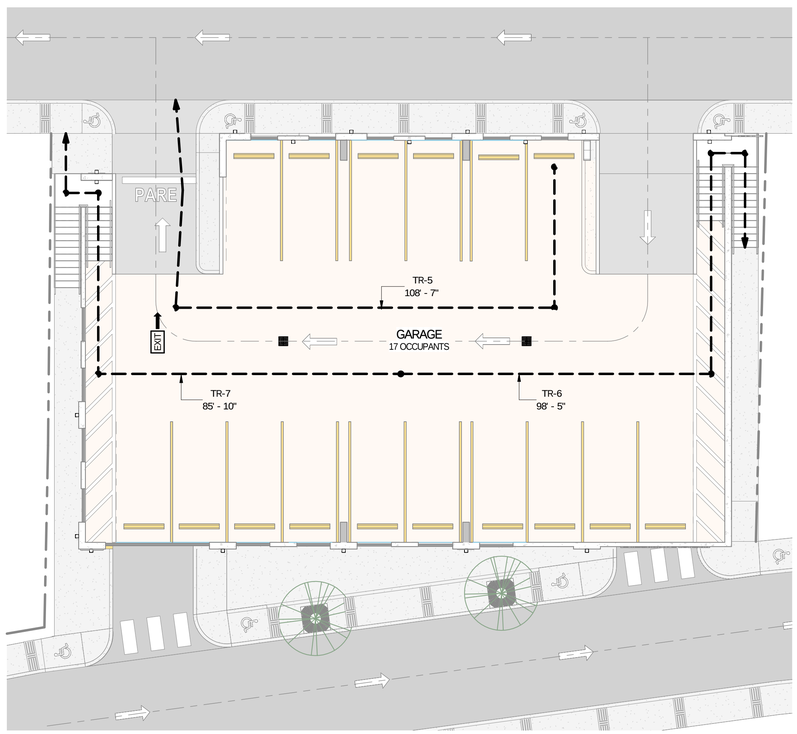
G000

E:\01 MOA\Projects\2022\FMO\2022316 JPAR\01 RVT\2024-02-14 JPAR2024-02-14 JPAR.rvt



C1 LIFE SAFETY PLAN FIRST LEVEL FLOOR

SCALE: 3/32" = 1'-0"



A1 SECOND LEVEL FLOOR PLAN

SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. CODES REFERENCED IN THE DRAWINGS REFER TO THE EDITION INDICATED ON THE CODE COMPLIANCE INFORMATION SHOWN ON THIS SHEET.
2. DRAWINGS ARE DRAWN TO SCALE, UNLESS OTHERWISE NOTED.
3. COPYING ORIGIAL PLANS AND PRINTING FROM DIGITAL FORMATS MAY CAUSE THE SCALE OF THE DRAWINGS TO BE ALTERED. IF DISCREPANCIES IN MEASUREMENTS ARE ENCOUNTERED, DISCARD PLANS AND REQUEST ORIGINAL PRINTS FROM DESIGN PROFESSIONAL.
4. GENERAL NOTES APPLY TO ALL CONTRACTORS OF ALL TRADES.
5. IT WILL BE ASSUMED THAT THE CONTRACTOR IN SUBMITTING HIS/HER BID COVERS ALL WORK NECESSARY TO COMPLETE THE PROJECT AS INTENDED BY THESE DOCUMENTS.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY. THE CONTRACTOR IS TO INITIATE, OBSERVE AND MAINTAIN ALL SAFETY PRECAUTIONS. REQUIRED BY STATE, LOCAL AND FEDERAL LAWS INCLUDING OSHA.
7. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS/HER WORK OR THROUGH THE NEGLECT OF HIS/HER WORKERS.
8. THE CONTRACTOR SHALL SECURELY BRACE ALL PARTITIONS AS REQUIRED UNTIL THEY ARE FULLY SECURED ON A PERMANENT BASIS.
9. STAGING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF ALL MATERIALS. MINIMAL ON SITE STORAGE AND STAGING WILL BE DESIGNATED; HOWEVER IT WILL BE LIMITED TO THE IMMEDIATE WORK AES. OFF SITE STORAGE WILL BE REQUIRED FOR SECURITY REASONS, THE COST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. SUB-CONTRACTOR SHALL OBTAIN REQUIRED TRADE PERMITS PRIOR TO COMMENCING WORK AND PROVIDE COPIES OF ALL PERMITS TO GENERAL CONTRACTOR
11. THE CONCRACTOR SHALL BE RESPONSIBLE FOR APPLICATION AND FEES ASSOCIATED FOR THE SIDEWALK/STREET CLOSURE REQUIRED TO PERFORM THE SCOPE OF WORK HEREIN. THIS IS TO INCLUDE AND NOT BE LIMITED TO: SAFETY BARRICADES, FLASHRS, SIGNAGE, ETC. TO ENSURE THE SAFETY OF THE GENERAL PUBLIC AND THE WORKERS.
12. CONTRACTOR AND SUB-CONTRACTORS SHALL VISIT THE SITE PRIOR TO COMMENCING CONSTRUCTION AND FIELD VERIFY CONDITIONS. SHOULD THERE BE DISCREPANCIES BETWEEN FIELD CONDITIONS AND REPRESENTATIONS SHOWN ON DRAWINGS, CONTRACTOR SHALL RESOLVE ISSUES AND REPORT ANY NECESSARY CHANGES TO THE CONSTRUCTION COSULTANT PRIOR TO CONSTRUCTION.
13. DOOR HARDWARE SHALL BE LEVER TYPE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND ACCESSIBILITY REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
14. PROVIDE CONTINUOUS BLOCKING, CONCEALED IN ALL PARTITIONS WHERE ITEMS ARE TO BE WALL MOUNTED. THIS INCLUDES BUT IS NOT LIMITED TO LOCATIONS OF ALL COUNTER TOPS, CABINETS AND FIXTURES.
15. ALL LUMBER/TIMBER USED WITHIN THIS CONTRACT IS TO BE THEATED FOR FIRE RESISTANCE USING A PRESSURE PROCESS AS SPECIFIED IN THE FLORIDA BUILDING CODE.
16. AT THE COMPLETION OF THE WORK AND PRIOR TO THE OWNERS ACCEPTANCE, THE GENERAL CONTRACTOR IS REQUIRED TO: CLEAN ALL WALLS, FLOORS AND BASES. VACUUM ALL CARPETS, WASH, CLEAN AND POLISH ALL GLASS. DUST AND VACUUM ALL SURFACES AND LEAVE ALL IN A CLEAN AND ACCEPTABLE CONDITION.

PATH OF TRAVEL SCHEDULE

MARK	LEVEL	LENGTH	FROM ROOM
TR-1	LEVEL 1 F.F.E.L.	111' - 4 3/4"	GARAGE 01
TR-2	LEVEL 1 F.F.E.L.	138' - 4 1/4"	GARAGE 01
TR-3	LEVEL 1 F.F.E.L.	59' - 7"	GARAGE 01
TR-4	LEVEL 1 F.F.E.L.	11' - 3 1/2"	GARAGE 01
TR-5	INTERMEDIATE LEVEL	108' - 6 3/4"	GARAGE 02
TR-6	INTERMEDIATE LEVEL	98' - 4 1/2"	GARAGE 02
TR-7	INTERMEDIATE LEVEL	85' - 10"	GARAGE 02

LEGEND

- PATH OF EGRESS (DIRECTION OF TRAVEL)
- FIRE-RATED WALL OR PARTITION (NUMBER OF DIAMONDS INDICATED NUMBER OF HOURS OF FIRE RATING
- EXIT — ILLUMINATED EXIT SIGN
- MANUALLY ACTUATED FIRE EXTINGUISHER
- S — S — SMOKE BARRIER
- S-2

GROUND FLOOR OCCUPANT LOAD

ROOM NO	ROOM NAME	AREA	OCC GROUP	FUNCTION OF SPACE	OCC LOAD FACTOR	AREA TYPE	OCCUPANT LOAD	EXIT FACTOR	EXIT WIDTH	STAIRS FACTOR	STAIRS WIDTH
01	GARAGE	5650 ft²	S-2	PARKING	300 ft²	GROSS	18.83	3/16"	3 3/4"	5/16"	0' - 5 5/8"
02	GARAGE	5001 ft²	S-2	PARKING	300 ft²	GROSS	16.67	3/16"	3 1/4"	5/16"	0' - 5"
Grand total		10651 ft²					35.50		7"		0' - 10 5/8"

SYMBOLS LEGEND

- DETAIL INDICATOR (DRAWING NUMBER, SIM, MODIFIER, SHEET NUMBER)
- ELEVATION INDICATOR (DRAWING NUMBER, SHEET NUMBER)
- SECTION INDICATOR (DRAWING NUMBER, SIM, MODIFIER, SHEET NUMBER)
- WALL SECTION INDICATOR (DRAWING NUMBER, SIM, MODIFIER, SHEET NUMBER)
- NORTH ARROW
- DOOR TAG (01)
- SPOT ELEVATION INDICATOR
- REVISION TAG AND CLOUD (1)
- WALL TAG (1i)
- WINDOW TAG (1t)
- ROOF PITCH (12 / 4)
- SURFACE SLOPE (%)
- BREAK LINE
- CENTERLINE
- CENTERLINE (℄)
- LEVEL INDICATOR (Name, Elevation)
- STRUCTURAL GRID (0)
- T- SHAPED TURNING SPACE
- 5 FOOT DIAMETER TURNING SPACE
- 48 X 30 INCH CLEAR FLOOR SPACE
- 60 X 58 INCH CLEAR FLOOR SPACE

ABBREVIATIONS

A		GLZ	GLAZING
A/C	AIR CONDITIONING	GR	GROSS
ACC	ACCESSIBLE	GR FL	GROUND FLOOR
ACT	ACOUSTIC CEILING TILE	GYP BD	GYPSUM BOARD
ACI	AMERICAN CONCRETE INSTITUTE	H	HIGH
ADA	AMERICAN WITH DISABILITIES ACT	HC	HOLLOW CORE
ADMIN	ADMINISTRATION	HDR	HEADER
AFF	ABOVE FINISHED FLOOR	HDW	HARDWARE
AFG	ABOVE FINISH GRADE	HM	HOLLOW METAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	HNDRL	HANDRAIL
AHJ	AUTHORITIES HAVING JURISDICTION	HSKPG	HOUSEKEEPING
AHU	AIR HANDLING UNIT	HT	HEIGHT
ALM	ALARM	HVAC	HEATING VENTILATING AND AIR-CONDITIONING
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HW	HOLLOW WOOD
APA	AMERICAN PLYWOOD ASSOCIATION	ICC	INTERNATIONAL CODE COUNCIL
APC	ACOUSTICAL PANEL CEILING	IN	INCHES
AR	AS REQUIRED	INCL	INCLUDED
ARCH	ARCHITECT	INSUL	INSULATION
ASC	ABOVE SUSPENDED CEILING	INT	INTERIOR
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	JAL	JALOUSIE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS	JAN	JANITOR
		KIT	KITCHEN
		L CL	LINEN CLOSET
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	LAM GL	LAMINATED GLASS
ASSY	ASSEMBLY	LAU	LAUNDRY
AVG	AVERAGE	LAV	LAVATORY
AW	AMERICAN WOODWORKING INSTITUTE	LBS	POUNDS
B		LC	LAUNDRY CHUTE
B PL	BASE PLATE	LD BRG	LOAD-BEARING
BALC	BALCONY	LDR	LEADER
BD	BOARD	LKR RM	LOCKER ROOM
BDRY	BOUNDARY	LR	LIVING ROOM
BEV	BEVEL	LT	LIGHT
BF	BOTH FACES	LTG	LIGHTING
BHMA	BUILDING HARDWARE MANUFACTURERS ASSOCIATION	LVD	LOUVERED
		MAINT	MAINTENENCE
BI FLD DR	BI FOLD DOORS	MGT	MANAGEMENT
BK BD	BACKBOARD	MAX	MAXIMUM
BKG	BACKING	MBR	MASTER BEDROOM
BLDG	BUILDING	MD	METAL DECK
BLT IN	BUILT-IN	MECH	MECHANICAL
BLW	BELOW	MEMB	MEMBRANE
BOS	BOTTOM OF STEEL	MFR	MANUFACTURER
BOT	BOTTOM	MID	MIDDLE
BR	BEDROOM	MIN	MINUTE
BRG	BEARING	MIT	MITERED
BRKT	BRACKET	ML	METAL LATH
BS	BOTH SIDES	MTD	MOUNTED
BT	BATH TUB	MTL	METAL
BTU	BRITISH THERMAL UNIT	N	NORTH
BTWN	BETWEEN	NA	NOT APPLICABLE
BUR	BUILT-UP ROOF	NAT	NATURAL
BW	BOTH WAYS	NE	NOT EXCEEDING
C		NEC	NATIONAL ELECTRICAL CODE
C	CHANNEL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
C TO C	CENTER TO CENTER	NIC	NOT IN CONTRACT
CAB	CABINET	NO	NUMBER
CAN	CANOPY	NOA	NOTICE OF APPROVAL
CAV	CAVITY	NOM	NOMINAL
CEM	CEMENT	NR	NOT RATED
CFMF	COLD-FORMED METAL FRAMING	NTS	NOT TO SCALE
CG	CORNER GUARD	OC	ON CENTER
CIR	CIRCLE	OCC	OCCUPANT, OCCUPANCY
CIRC	CIRCULAR	OD	OUTSIDE DIMENSION
CJ	CONTROL JOINT	OFF	OFFICE
CL	CENTER LINE	OPNG	OPENING
CLDG	CLADDING	OPP	OPPOSITE
CLG	CEILING	OPT	OPTIONAL
CLO	CLOSET	PAT	PATTERN
CLR	CLEAR	PERP	PERPENDICULAR
CLR	COLOR	PLAS	PLASTIC
CLRM	CLASSROOM	PLYWD	PLYWOOD
CMPST	COMPOSITE	PROP	PROPERTY
CMU	CONCRETE MASONRY UNIT	PUR	PURLINS
CNCL	CONCEALED	PT	PRESSURE TREATED
CNTR	COUNTER	PTN	PARTITION
CO	CLEANOUT	R	RISER
COL	COLUMN	RCPTN	RECEPTION
CONC	CONCRETE	RD	ROOF DRAIN
CONSTR	CONSTRUCTION	RDG INS	RIGID INSULATION
COORD	COORDINATE	REBAR	REINFORCING STEEL BAR
COP	COPING	REC	RECESSED
CORR	CORRIDOR	REF	REFERENCE
CPT	CARPET	REP	REPAIR
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE	REPL	REPLACE
CT	CERAMIC TILE	REQD	REQUIRED
CTR	CENTER	REST	RESTROOM
CURT	CURTAIN	REV	REVISION
D		RFG	ROOFING
DBL	DOUBLE	RL	ROOF LEADER
DEG	DEGREE	RM	ROOM
DEMO	DEMOLITION	ROW	RIGHT OF WAY
DET	DETAIL	RVL	REVEAL
DF	DRINKING FOUNTAIN	S	SOUTH
DH	DOUBLE HUNG WINDOW	SCHED	SCHEDULE
DIFF	DIFFUSER	SCP	SCUPPER
DIM	DIMENSION	SCR	SHOWER CURTAIN ROD
DIST	DISTANCE	SCRN	SCREEN
DIV	DIVIDE	SD	SMOKE DETECTOR
DR	DR	SDG	SIDING
E		SECT	SECTION
E	EAST	SHFT	SHAFT
EE	EACH END	SHV	SHELVING
EF	EXTERIOR FINISH	SIM	SIMILAR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	SLDG	SLIDING
EL	ELEVATION	SQ	SQUARE
ELEV	ELEVATOR	ST	STAIRS
EOS	EDGE OF SLAB	STC	SOUND TRANSMISSION CLASS
EP	EDGE OF PAVEMENT	STD	STANDARD
EQ	EQUAL	STOR	STORAGE
EQUIP	EQUIPMENT	STRUCT	STRUCTURAL
ESMT	EASEMENT	T	TREAD
EW	EACH WAY	TE	TOP ELEVATION
EXST	EXISTING	THK	THICKNESS
EXT	EXTERIOR	TMPD	TEMPERED
F		TO	TOP OF
F	FEMALE	TOB	TOP OF BEAM
F1S	FINISH ONE SIDE	TOP	TOP OF PARAPET
F2S	FINISH TWO SIDES	TOS	TOP OF SLAB
F3S	FINISH THREE SIDES	TOW	TOP OF WALL
F4S	FINISH FOUR SIDES	TYP	TYPICAL
FA	FIRE ALARM	U	
FAR	FLOOR AREA RATIO	UL	UNDERWRITERS LABORATORY
FBC	FLORIDA BUILDING CODE	UP	UNPROTECTED
FD	FLOOR DRAIN	VAR	VARIES
FE	FIRE EXTINGUISHER	VERT	VERTICAL
FF	FINISH FACE	VES	VESTIBULE
FF&E	FURNITURE, FIXTURE AND EQUIPMET	VNR	VENEER
FF EL	FINISHED FLOOR ELEVATION	VOC	VOLATILE ORGANIC COMPOUND
FHC	FIRE HOSE CABINET	W	WEST, WIDE
FIN	FINISH	W/	WITHA
FIN GR	FINISH GRADE	W/O	WITHOUT
FIXT	FIXTURE	WC	WATER CLOSET
FLASH	FLASHING	WD	WOOD
FLR	FLOOR	WDW	WINDOW
FLUOR	FLUORESCENT	WM	WIRE MESH
FOM	FACE OF MASONRY	WP	WATERPROOFING
FR	FIRE RATING	WWF	WELDED WIRE FABRIC
FRMG	FRAMING	XPS	EXTRUDED POLYSTYRENE BOARD
FT	FEET		
FURN	FURNISHING		
G			
GALV	GALVANIZED		
GB	GRAB BAR		
GD	GUARD		

PRIME
DELTORRE ENGINEERING LLC
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591
info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MOA moreno orama architecture
3012 ameroosa/ verde pr 33984
e 139 - 3 9 0 - 3 3 8 2
moreno orama@gmail.com
A A 2 6 0 0 3 9 8 1

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
ABBREVIATIONS AND SYMBOLS LEGEND

REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE: 5/29/2024 4:44:49 PM
DTE PROJECT NO.: DTE23-004
SHEET NO.: G001

E:\01 MOA\Projects\2020\FMO\20023\16 JPAR\01 RVT\20234-02-14 JPAR2024-02-14 JPAR.rvt



A2 EXISTING ARCHITECTURAL SITE PLAN

SCALE: 3/32" = 1'-0"

SHEET NOTES

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
moreno orama architecture
301 zambrana blvd.
vanico, pl 33904
787.398.3302
architecturemoreno@gmail.com
AA26009985
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
EXISTING ARCHITECTURAL SITE PLAN

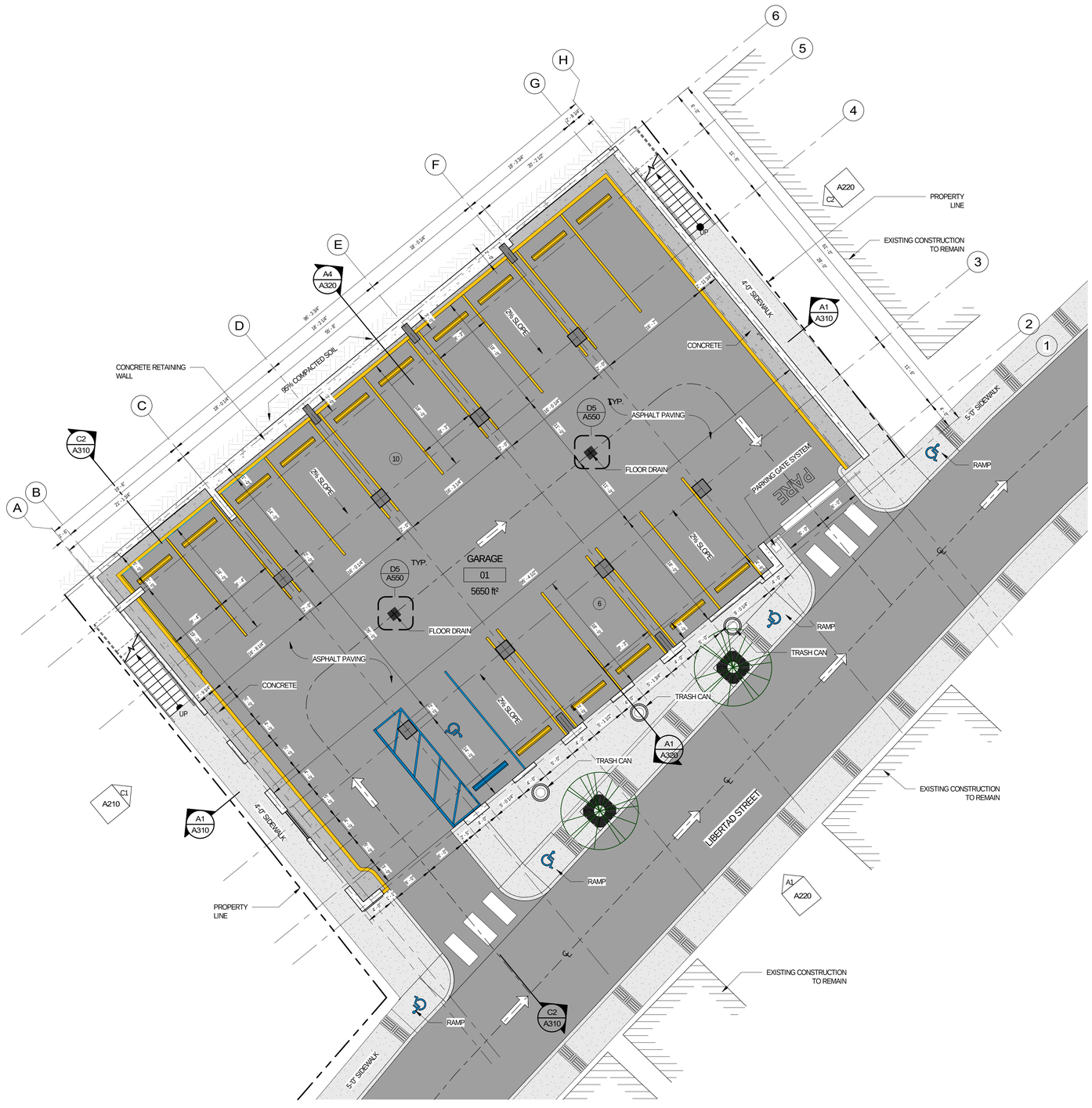
REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:44:42 PM
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
AS110

E:\01 MOA\Projects\2020\FMO\20231116-JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt



A3 FIRST LEVEL FLOOR PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO CIVIL DRAWINGS FOR CURB, SIDEWALK, PAVING, GRATING, AND PLANTING, TRAFFIC MARKINGS AND SIGNAGE FINAL DESIGN.

LEGEND

- 6" CMU WALL
- 12" WALL CONCRETE CAST-IN-PLACE
- SQUARE COLUMN
- RECTANGULAR COLUMN
- PAVEMENT STAMP PATTERN

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MOA moreno orama architecture
301 zambrana dr. ponce, pr 00716
787.848.3662
architecturemoa@gmail.com
A-A 2600 9985
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
FIRST LEVEL FLOOR PLAN

REVISIONS	SYMBOL	DATE	BY

THESE DOCUMENTS, SUCH AS BUT NOT LIMITED TO, DRAWINGS, SPECIFICATIONS, AND COMPUTER DISKS, ARE THE PROPERTY OF DELTORRE ENGINEERING, LLC. AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF DELTORRE ENGINEERING, LLC. ANY UNAUTHORIZED USE OF THESE DOCUMENTS WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO DELTORRE ENGINEERING, LLC. THE USER OF THESE DOCUMENTS AGREES TO INDEMNIFY AND HOLD HARMLESS DELTORRE ENGINEERING, LLC. FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING FROM THE UNAUTHORIZED USE OF THESE DOCUMENTS.

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE: 5/29/2024 4:42:23 PM
DTE PROJECT NO.: DTE23-004
SHEET NO.: A110

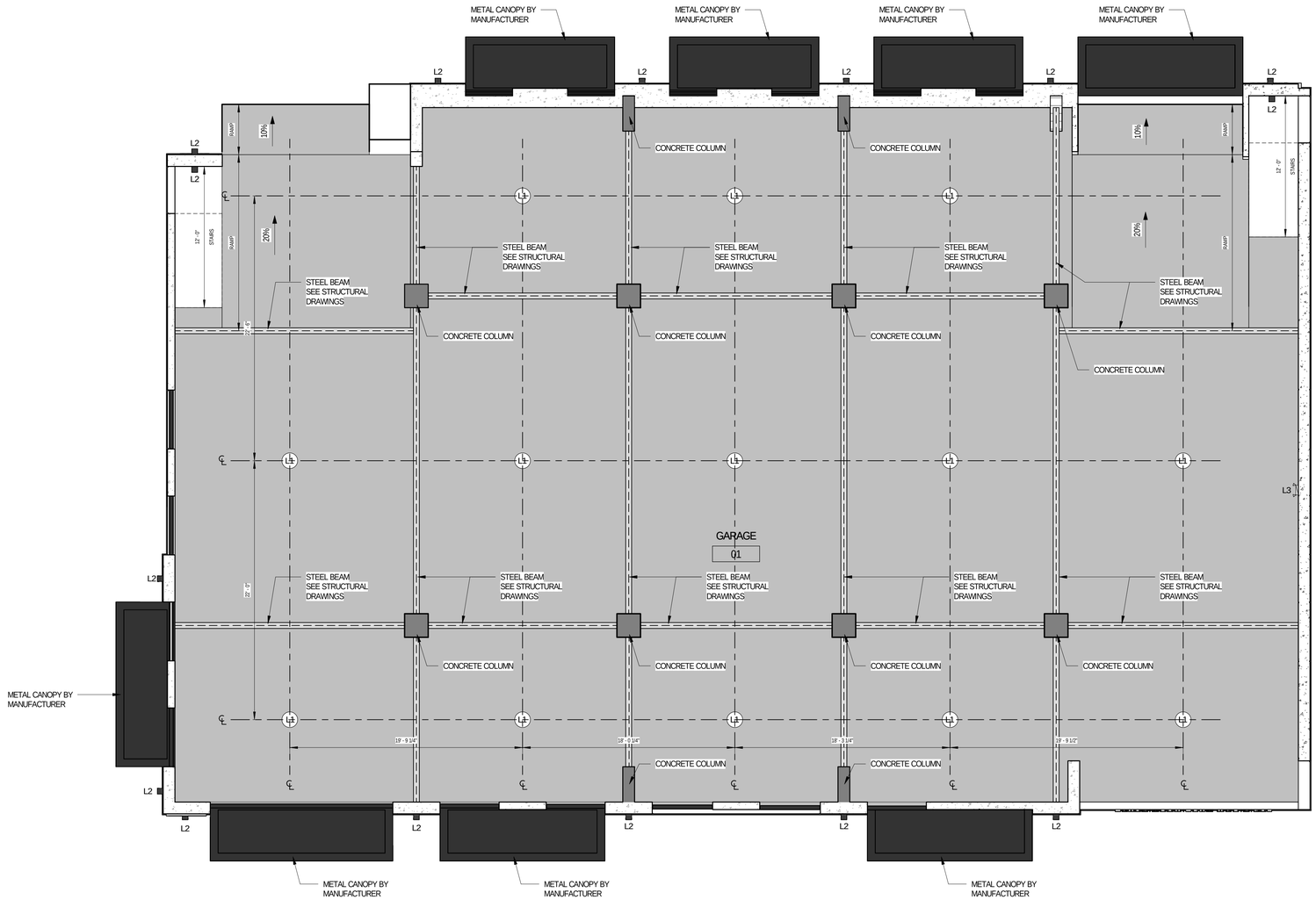
E:\01 MOA\Projects\2020\FMO\2023\16 JPARR01 RVT\2024-02-14 JPARR2024-02-14 JPARR.rvt

LIGHTING FIXTURE SCHEDULE

Mark	Family	Model	Manufacturer	Count
L1	LED GARAGE LIGHT	XPGD S LED 50 CW UE BLK	LIGHTING SOLUTION	13
L2	MINI WALLPACK SERIES	DMWP 70 HPS PC 120 BRZ OTHER	LIGHTING SOLUTION	19
L3	Emergency Wall Light	HPM 6 25 WH SD2	LIGHTING SOLUTION	1
TOTAL: 33				33

SHEET NOTES

LIGHTING FIXTURE
MINI WALLPACK SERIES
LUMINARIE ORDERING INFORMATION (DMWP 70 HPS PC 120 BRZ OTHER)
MANUFACTURER (LIGHTING SOLUTION)



A2 REFLECTED CEILING FIRST LEVEL

SCALE: 3/16" = 1'-0"

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MORENO ORAMA ARCHITECTURE
301 zambrana dr. varios pl 3194
mayaguez, puerto rico 00682
architectural services
A A 2 6 0 0 5 9 8 5
fmoreneorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
REFLECTED CEILING FIRST LEVEL

REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:42:32 PM
DTE PROJECT NO:
DTE23-004

SHEET NO.:
A111

E:\01 MOA\Projects\2020\FMO\202316 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt



A2 SECOND LEVEL FLOOR PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO CIVIL DRAWINGS FOR CURB, SIDEWALK, PAVING, GRATING, AND PLANTING, TRAFFIC MARKINGS AND SIGNAGE FINAL DESIGN.

LEGEND

- 6" CMU WALL
- 12" WALL CONCRETE CAST-IN-PLACE
- SQUARE COLUMN
- RECTANGULAR COLUMN
- PAVEMENT STAMP PATTERN

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
moreno orama architecture
301 zambrana ave. suite 1330
san juan, pr 00918
787.758.3662
architecture@gmail.com
fmorenorama@gmail.com
AA 260 0598

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
SECOND LEVEL FLOOR PLAN

REVISIONS	SYMBOL	DATE	BY

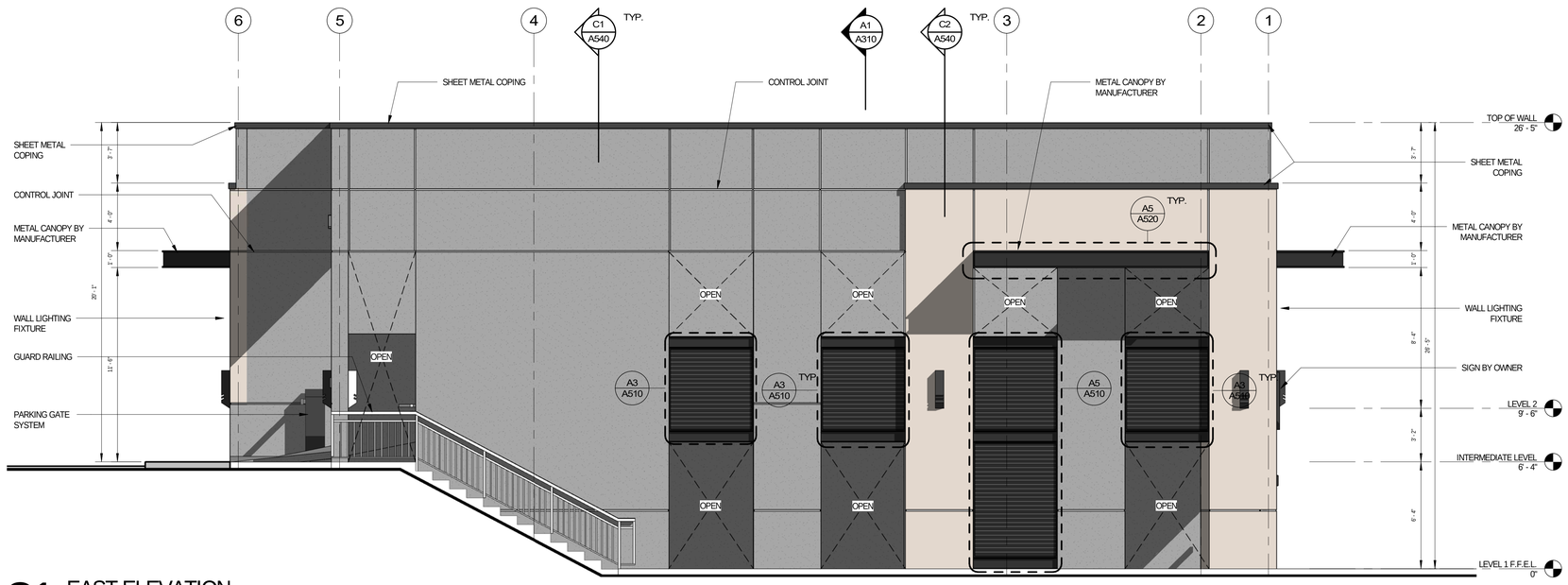
FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:42:58 PM
DTE PROJECT NO.:
DTE23-004
SHEET NO.:
A120

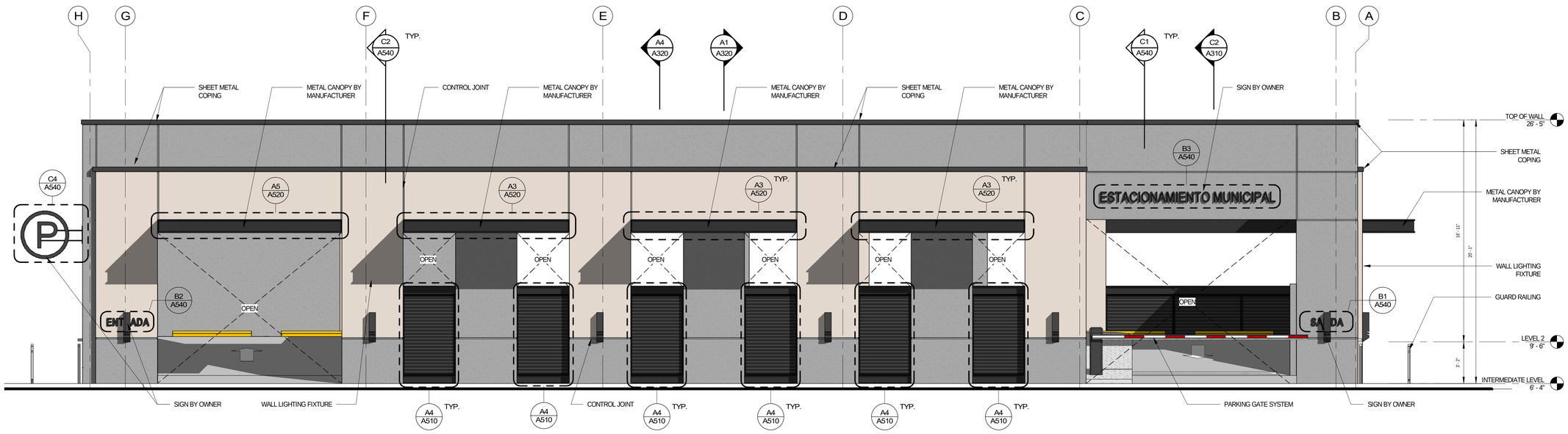
E:\01 MOA\Projects\2020\FMO\2023\16 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt

SHEET NOTES

LIGHTTING FIXTURE
MINI WALLPACK SERIES
LUMINARIE ORDERING INFORMATION (DMWP 70 HPS PC 120 BRZ OTHER)
MANUFACTURER (LIGHTING SOLUTION)



C1 EAST ELEVATION
SCALE: 1/4" = 1'-0"



A1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
PRIME
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

MOA moreno orama architecture
CONSULTANT
301 zambrana dr. valrico, fl 33594
813 838 3262
architecture license no. AA 26005985
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
EAST AND NORTH BUILDING ELEVATION VIEWS

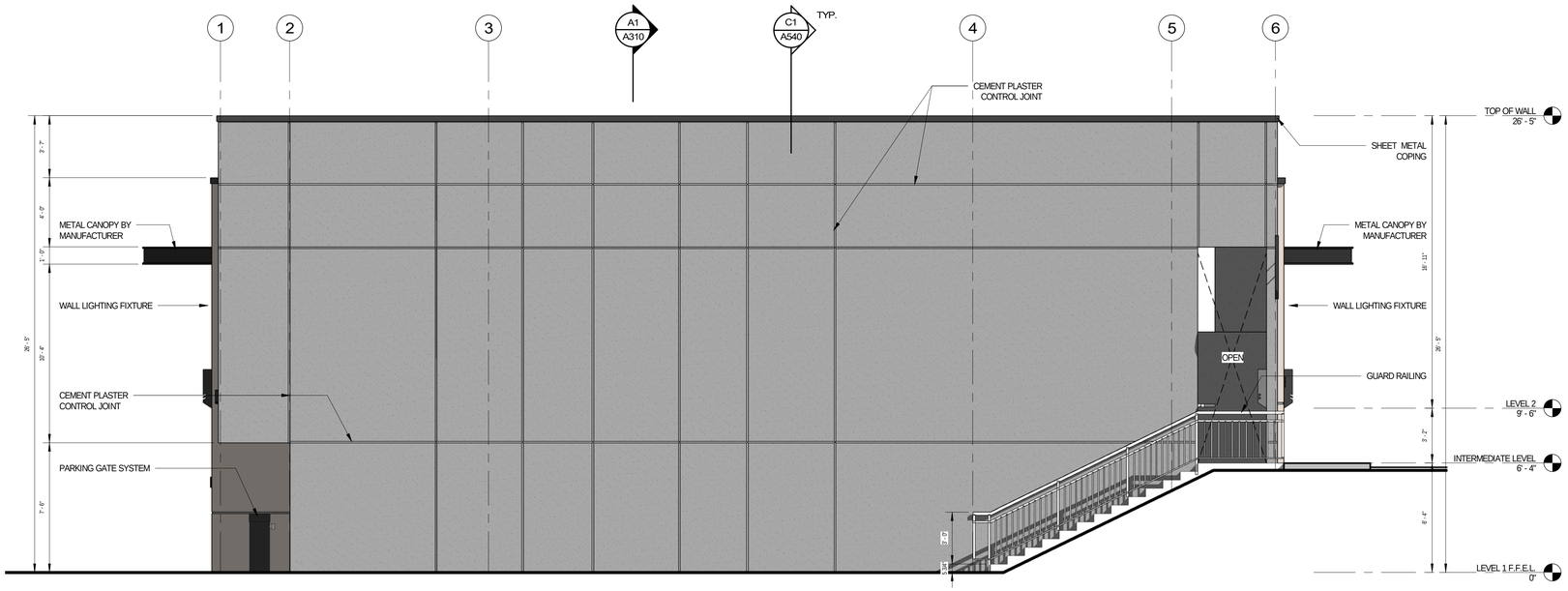
REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:43:12 PM
DTE PROJECT NO.:
DTE23-004

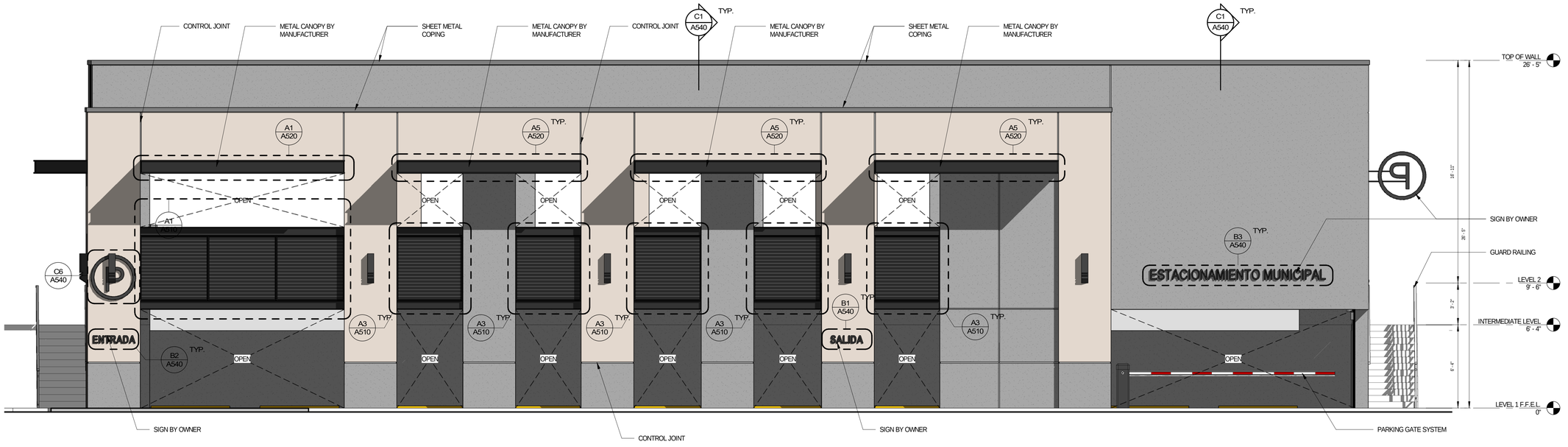
SHEET NO.:
A210

E:\01 MOA\Projects\2020\FMO\023116 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt



C2 WEST ELEVATION

SCALE: 1/4" = 1'-0"



A1 SOUTH ELEVATION

SCALE: 1/4" = 1'-0"

SHEET NOTES

LIGHTTING FIXTURE
MINI WALLPACK SERIES
LUMINARIE ORDERING INFORMATION (DMWP 70 HPS PC 120 BRZ OTHER)
MANUFACTURER (LIGHTING SOLUTION)

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MOA
moreno orama architecture
301 zambrana str. viejo, pr 1390
787 8 3 3 3 2
architecture.moa@gmail.com
AA 2600 998
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
WEST AND SOUTH BUILDING
ELEVATION VIEWS

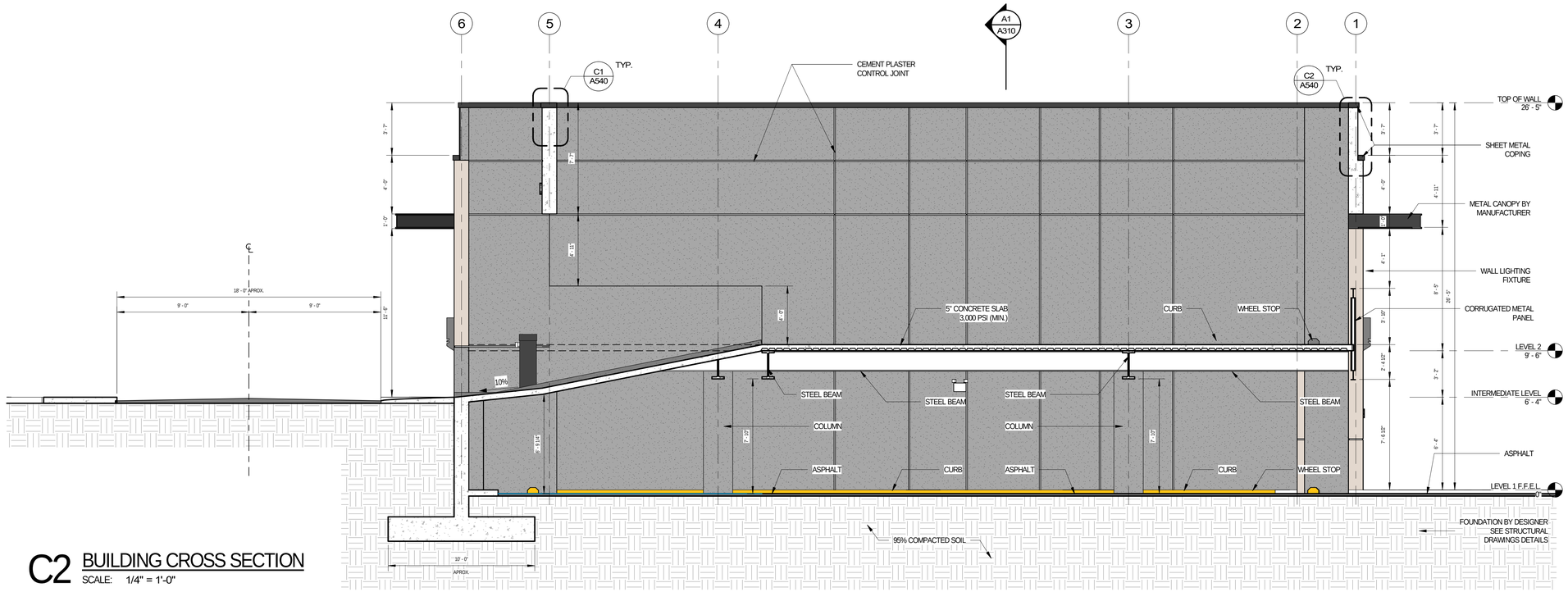
REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO
LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:43:21 PM
DTE PROJECT NO.:
DTE23-004

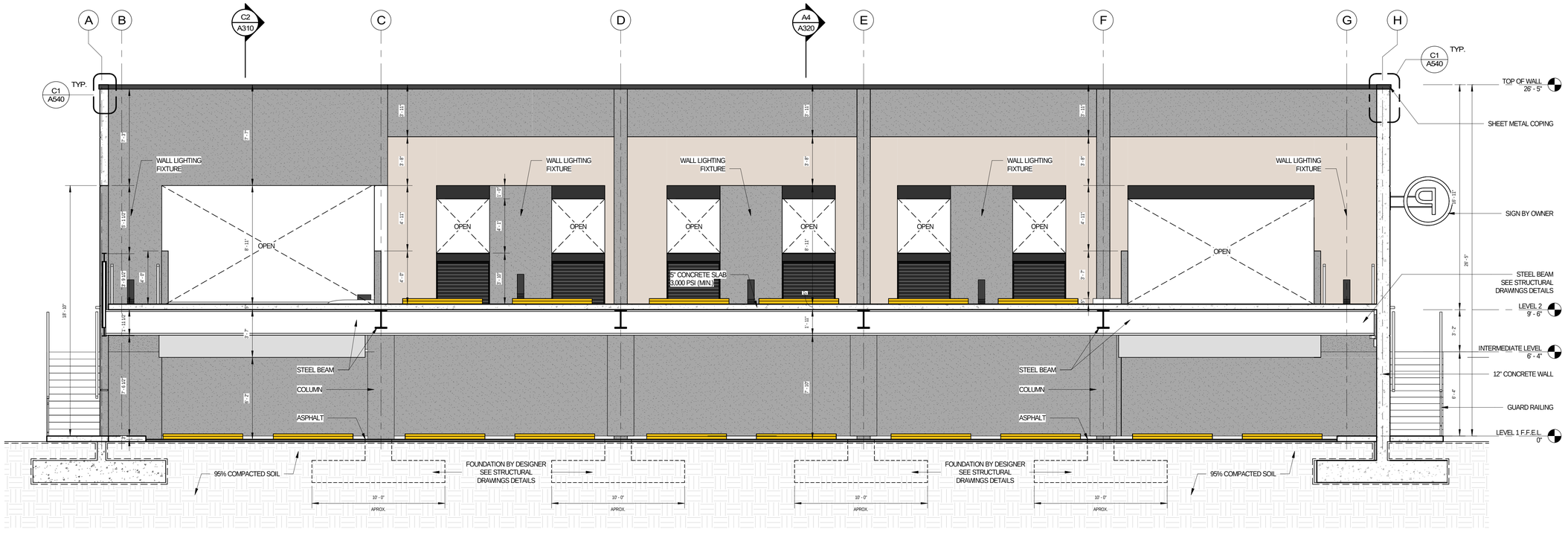
SHEET NO.:
A220

E:\01 MOA\Projects\2020\FMO\20231116 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt



C2 BUILDING CROSS SECTION

SCALE: 1/4" = 1'-0"



A1 BUILDING LONGITUDINAL SECTION

SCALE: 1/4" = 1'-0"

E:\01 MOA\Projects\2020\FMO\2023\16 JPARR01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7391 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MOA moreno orama architecture
301 zambrana ave. suite 1304
san juan, pr 00918
787-365-3362
fmorenorama@gmail.com
LICENSE NO. A-A 2 6 0 0 5 9 8 5

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
BUILDING SECTION

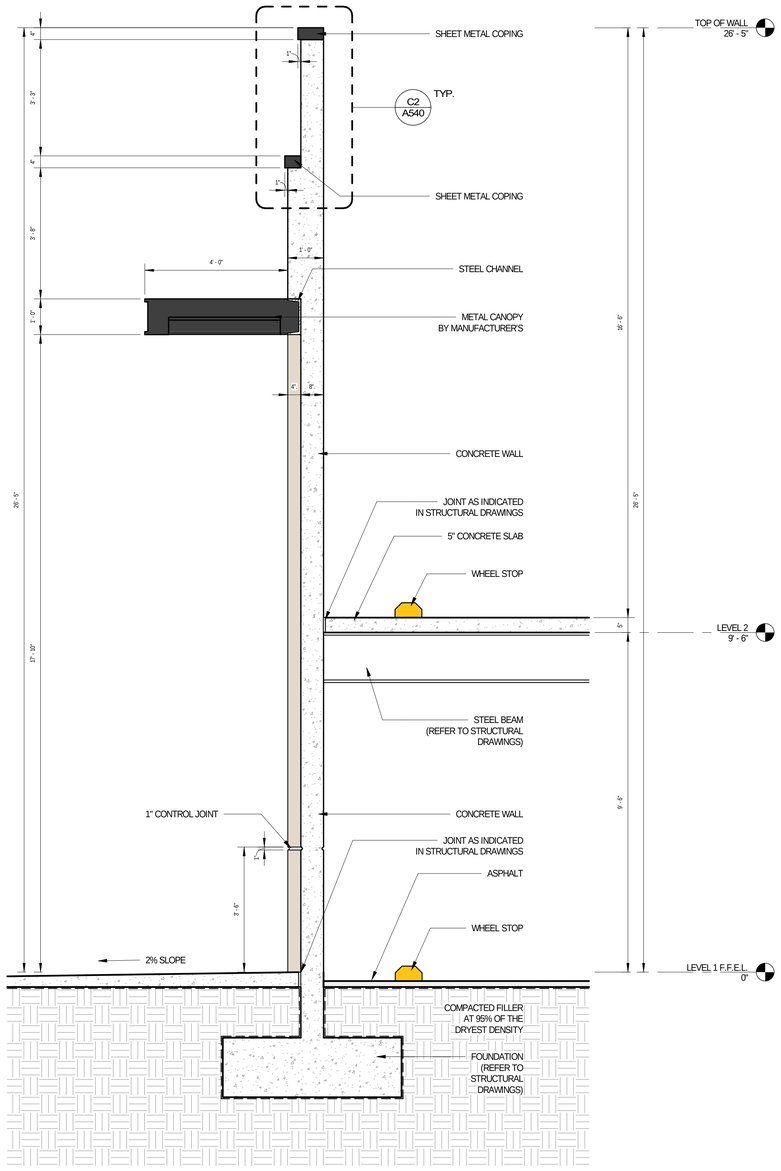
REVISIONS	SYMBOL	DATE	BY

THESE DOCUMENTS, PLANS OR SPECIFICATIONS ARE THE PROPERTY OF MORENO ORAMA ARCHITECTURE (MOA) AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF MOA. ANY UNAUTHORIZED USE OF THESE DOCUMENTS SHALL BE AT THE SOLE RISK OF THE USER AND WITHOUT LIABILITY TO MOA. ANY REPRODUCTION OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF MOA IS PROHIBITED.

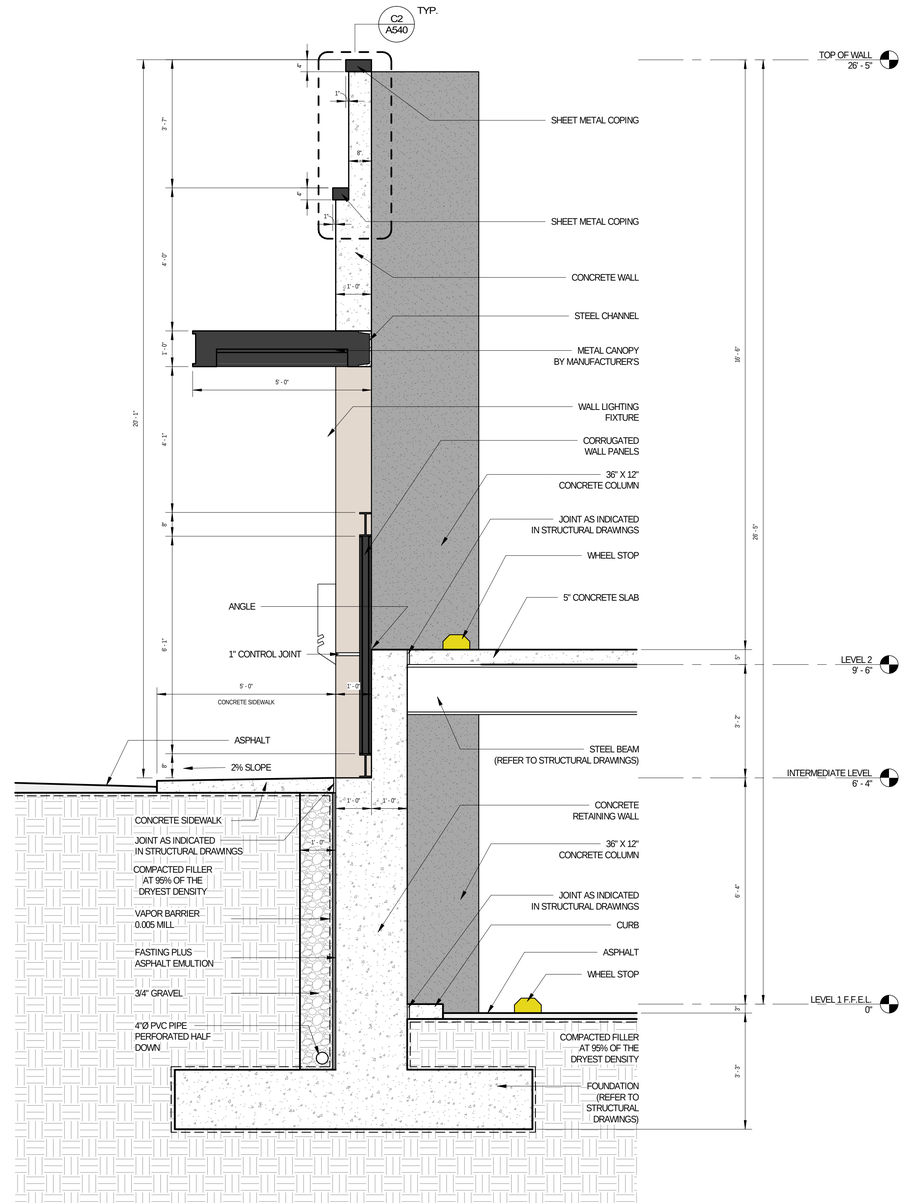
FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:43:28 PM
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
A310



A1 WALL SECTION
SCALE: 1/2" = 1'-0"



A4 WALL SECTION
SCALE: 1/2" = 1'-0"

SHEET NOTE

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
moreno orama architecture
301 zambrana ave.
viejo, pr 33 04
787 8 3 3 3 3 2
architecturemoa@gmail.com
AA 2 6 0 0 9 8 5
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
WALL SECTIONS

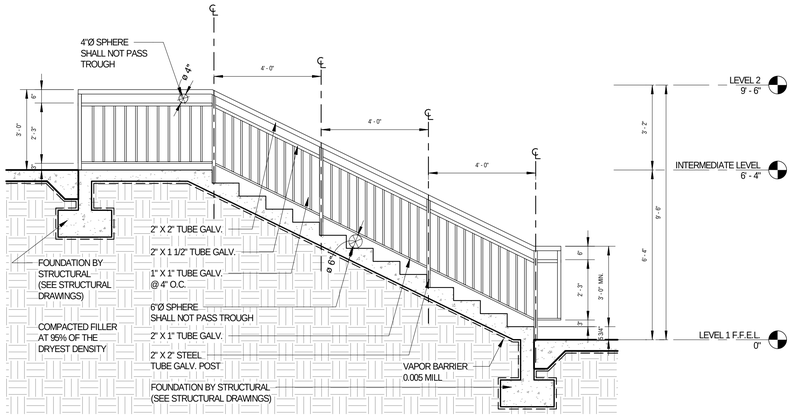
REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO
LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

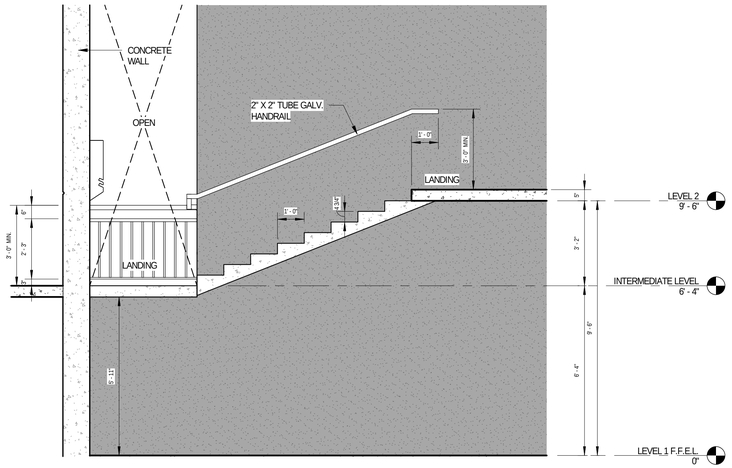
DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:43:36 PM
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
A320

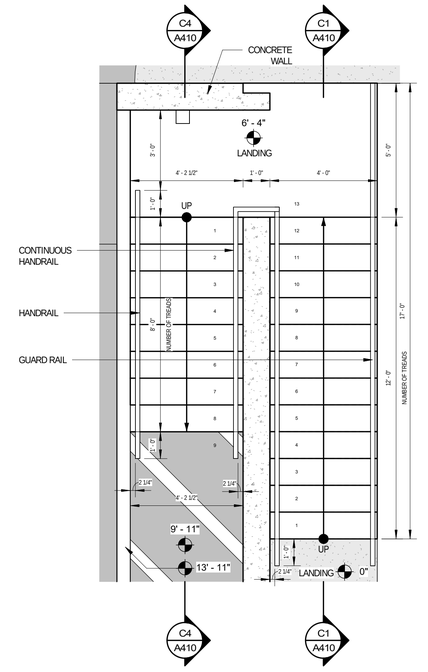
E:\01 MOA\Projects\2020\FMO\2023\16 JPARR01 RVT\2024-02-14 JPARR01 RVT\2024-02-14 JPAR2024-02-14 JPAR.rvt



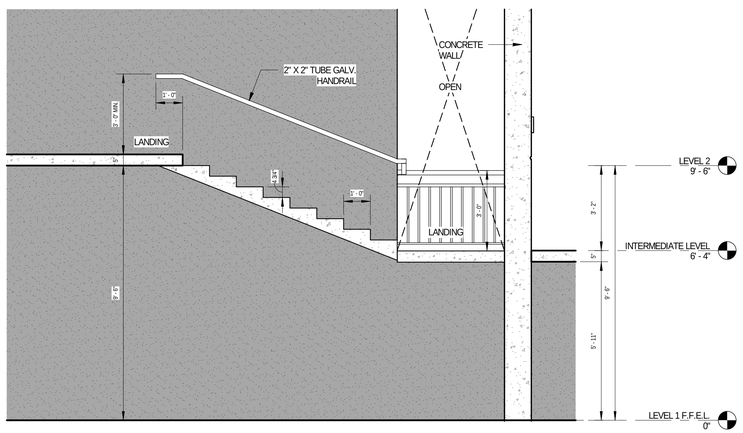
C1 STAIR SECTION
SCALE: 3/8" = 1'-0"



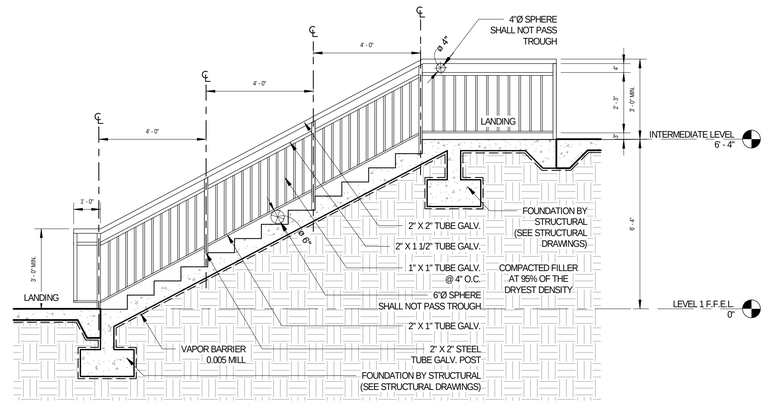
C4 STAIR SECTION
SCALE: 3/8" = 1'-0"



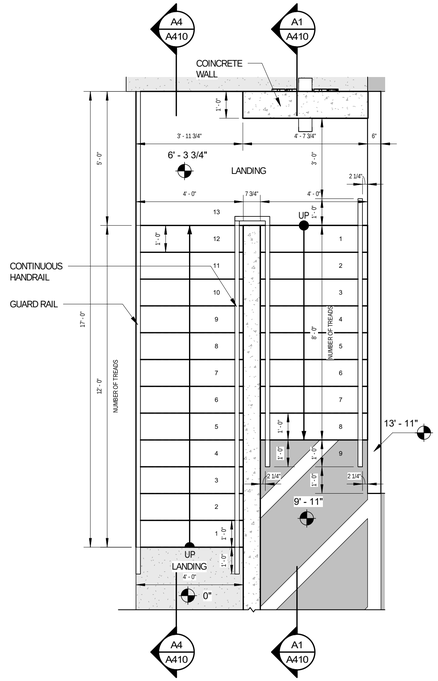
C6 WEST STAIRS BLOW-UP PLAN
SCALE: 3/8" = 1'-0"



A1 STAIR SECTION
SCALE: 3/8" = 1'-0"



A4 STAIR SECTION
SCALE: 3/8" = 1'-0"



A6 EAST STAIRS BLOW-UP PLAN
SCALE: 3/8" = 1'-0"

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MOA
moreno orama architecture
301 zambrana ave.
valrico, fl 33594
813 818 1399
fmorenorama@gmail.com
AA 26009985

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
STAIRS BLOW-UP PLANS AND SECTIONS

REVISIONS	SYMBOL	DATE	BY

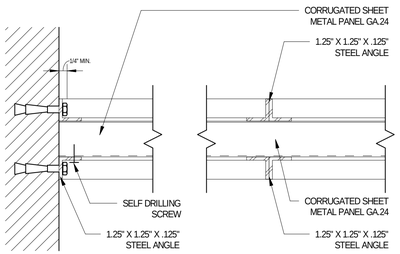
THIS SET OF DOCUMENTS, INCLUDING BUT NOT EXCLUSIVE TO, ALL DRAWINGS, SPECIFICATIONS, AND ELECTRONIC FILES, ARE PROPRIETARY AND CONFIDENTIAL. THEY ARE PREPARED FOR THE EXCLUSIVE USE OF THE CLIENT NAMED HEREIN AND ARE NOT TO BE DISCLOSED TO ANY OTHER PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF DELTORRE ENGINEERING, LLC. THEY ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF DELTORRE ENGINEERING, LLC. THE CLIENT AND ALL OTHERS ACCEPTING THESE DOCUMENTS AGREE TO INDEMNIFY AND HOLD HARMLESS DELTORRE ENGINEERING, LLC FOR ANY INJURIES, LOSSES, OR CLAIMS ARISING FROM ANY UNAUTHORIZED USE.

FRANCISCO J. MORENO ORAMA
ARQUITECTO
LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:43:48 PM
DTE PROJECT NO.:
DTE23-004

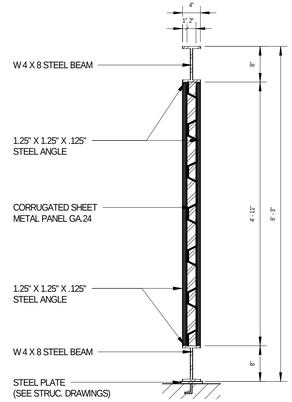
SHEET NO.:
A410

E:\01 MOA\Projects\2020\FMO\0023\16 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt



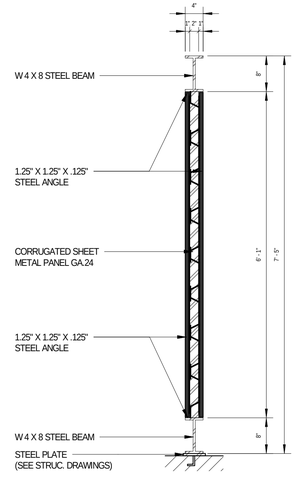
C1 CORRUGATED WALL PANEL PLAN VIEW

SCALE: 3" = 1'-0"



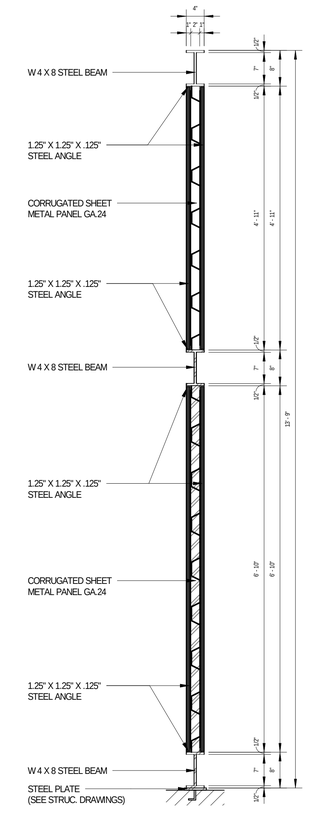
C3 CORR. WALL PANEL SECTION

SCALE: 3/4" = 1'-0"



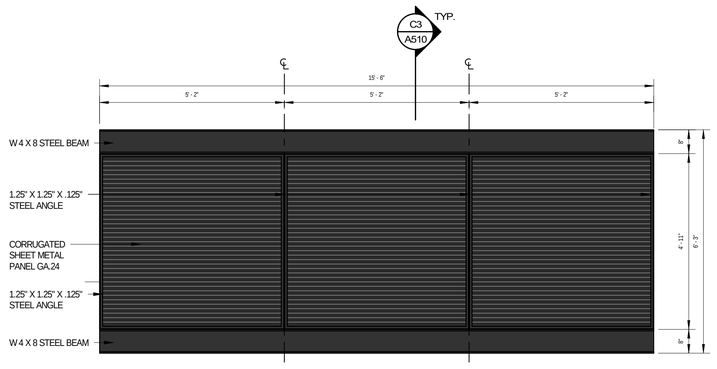
C4 CORR. WALL PANEL SECTION

SCALE: 3/4" = 1'-0"



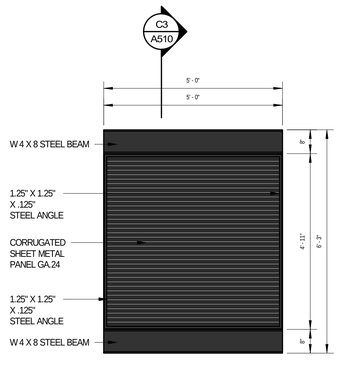
C6 CORR. WALL PANEL SECTION

SCALE: 3/4" = 1'-0"



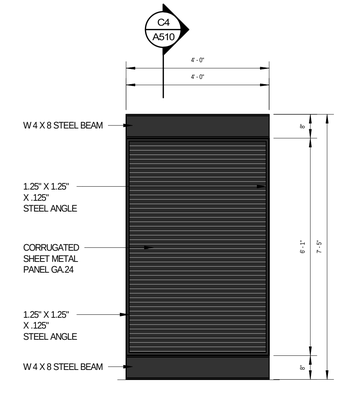
A1 CORRUGATED WALL PANEL

SCALE: 1/2" = 1'-0"



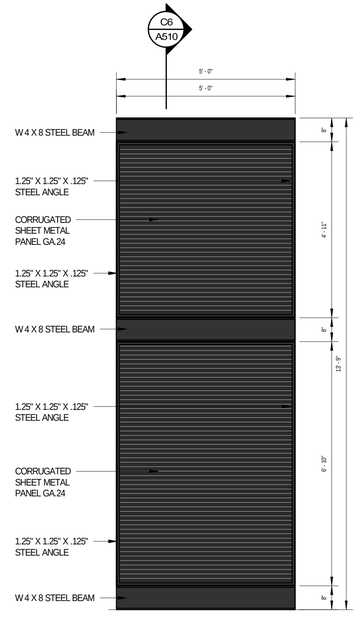
A3 CORRUGATED WALL PANEL

SCALE: 1/2" = 1'-0"



A4 CORRUGATED WALL PANEL

SCALE: 1/2" = 1'-0"



A5 CORRUGATED WALL PANEL

SCALE: 1/2" = 1'-0"

SHEET NOTE

1. HOT ROLLED STEEL SECTIONS SHALL BE A36 CARBON STEEL, UNLESS OTHERWISE NOTED.
2. SHOP PRIME STEEL SURFACES EXCEPT SURFACES TO BE FIELD WELDED AND GALVANIZED SURFACES.
3. CLEAN STEE SURFACES TO BE PAINTED AND PRIME IMMEDIATLY THEREAFTER.
4. APPLY FINISHES TO STEEL SURFACES IN CONFORMANCE TO SSPC-GUDE. GUDE FOR USE AND SELECTION OF POWDER COATING SYSTEMS FOR PROTECTIVE SURFACES.
5. SUBMIT STEEL SURFACE FINISH SCHEDULE PRODUCT DATA AND SURFACE PREPARATION GUDE FOR APPROVAL.

PRIME
DELTORRE ENGINEERING LLC
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorreeng.com
www.linkedin.com/in/deltorre

CONSULTANT
MORENO ORAMA ARCHITECTURE
3012 amberlook ct
wellington fl 33414
ph: 787.381.3372
AA 2003984
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
CORRUGATED WALL PANESL DETAILS

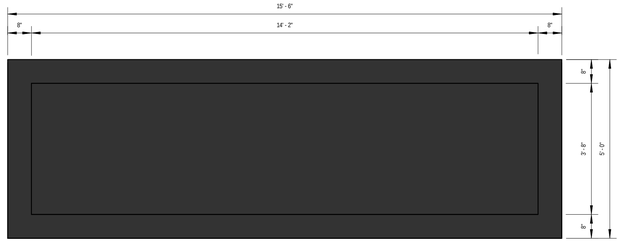
REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

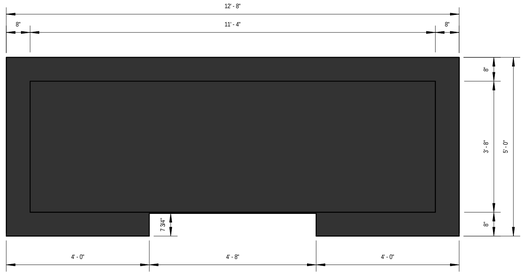
DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE: 5/29/2024 4:43:54 PM
DTE PROJECT NO.: DTE23-004
SHEET NO.: A510

E:\01 MOA\Projects\2020\FMO\2023\16 JPAR\01 RVT\2024-02-14 JPAR(2024-02-14 JPAR.rvt

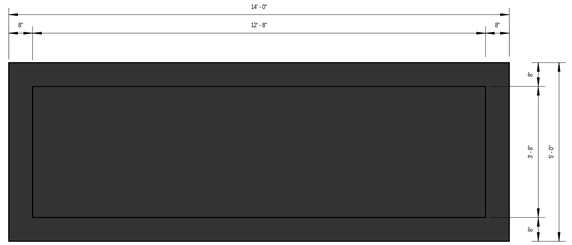
SHEET NOTES



C1 METAL CANOPY "C" BOTTOM VIEW
SCALE: 1/2" = 1'-0"



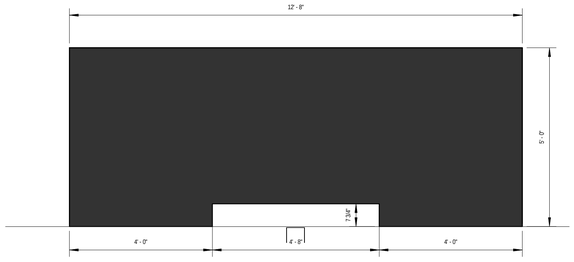
C3 METAL CANOPY "B" BOTTOM VIEW
SCALE: 1/2" = 1'-0"



C5 METAL CANOPY "A" BOTTOM VIEW
SCALE: 1/2" = 1'-0"



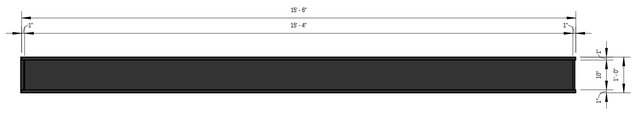
B1 METAL CANOPY "C" TOP VIEW
SCALE: 1/2" = 1'-0"



B3 METAL CANOPY "B" TOP VIEW
SCALE: 1/2" = 1'-0"



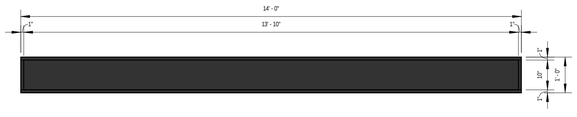
B5 METAL CANOPY "A" TOP VIEW
SCALE: 1/2" = 1'-0"



A1 METAL CANOPY "C"
SCALE: 1/2" = 1'-0"



A3 METAL CANOPY "B"
SCALE: 1/2" = 1'-0"



A5 METAL CANOPY "A"
SCALE: 1/2" = 1'-0"

E:\01 MOA\Projects\2020\FMO\2023\16 JPARR01 RVT\2024-02-14 JPARR2024-02-14 JPARR.rvt

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/in/deltorre

CONSULTANT
moreno orama architecture
301 Zambrana St.
Ponce, PR 00730
787.638.3302
architecturemoa@gmail.com
A A 2 6 0 0 9 9 8
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
METAL CANOPY DETAILS

REVISIONS	SYMBOL	DATE	BY

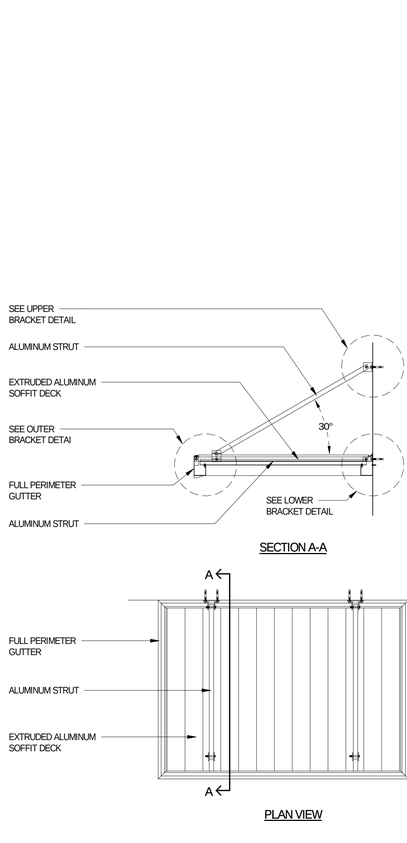
FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:44:02 PM
DTE PROJECT NO.:
DTE23-004

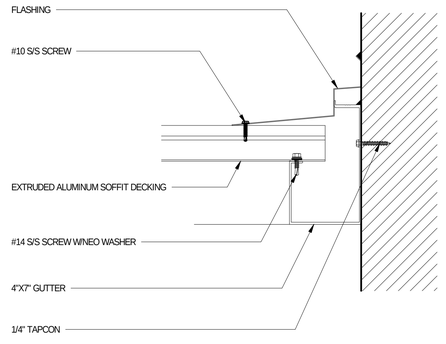
SHEET NO.:
A520

SHEET NOTES

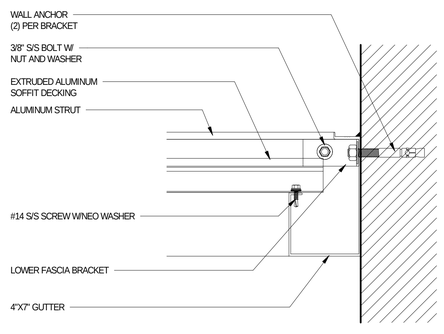
1. FINAL CANOPY DESIGN SHALL BE BY MANUFACTURER. SUBMIT FINAL SHOP DRAWINGS FOR APPROVAL.
2. ANY AND ALL SIGNAGE DEPICTED WITHIN THESE DRAWINGS ARE SCHEMATIC IN NATURE. ANY APPROVAL RECEIVED FOR THIS PLAN DOES NOT CONSTITUTE APPROVAL FOR THE CONSTRUCTION OF ANY SIGN/SIGN STRUCTURE COVERED WITHIN ORANGE COUNTY CODE SECTION 31.5. ALL PROPOSED SIGNAGE, INCLUDING SIGNAGE STRUCTURES, ARE REQUIRED TO SUBMIT A SEPARATE APPLICATION.



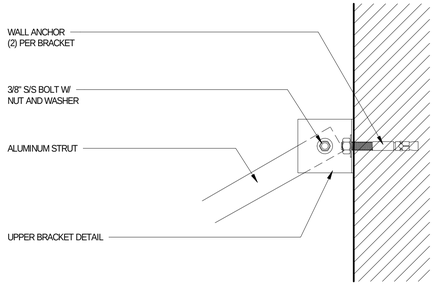
A2 SUSPENDED CANOPY
SCALE: 1/2" = 1'-0"



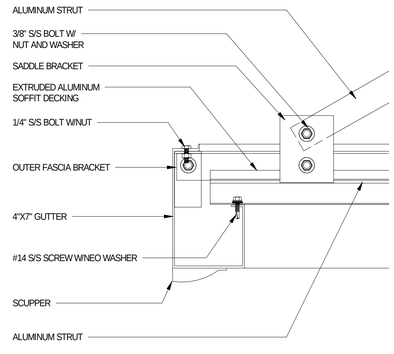
B4 FRAME-WALL CONNECTION
SCALE: 3" = 1'-0"



B5 LOWER BRACKET DETAIL
SCALE: 3" = 1'-0"



A4 UPPER BRACKET DETAIL
SCALE: 3" = 1'-0"



A5 OUTER BRACKET DETAIL
SCALE: 3" = 1'-0"

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MORENO ORAMA ARCHITECTURE
301 Zambrana Dr.
Vanrio, PR 3304
787-438-3302
morenoramaarchitecture
AA 2600398
fmoreno rama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
METAL CANOPY SHOP
DRAWING DETAILS

REVISIONS	SYMBOL	DATE	BY

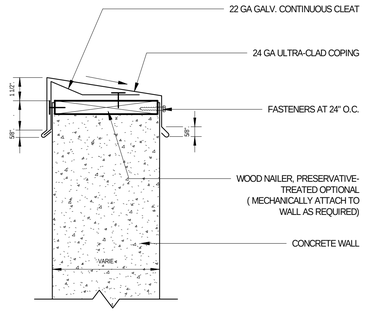
FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:44:09 PM
DTE PROJECT NO.:
DTE23-004
SHEET NO.:
A530

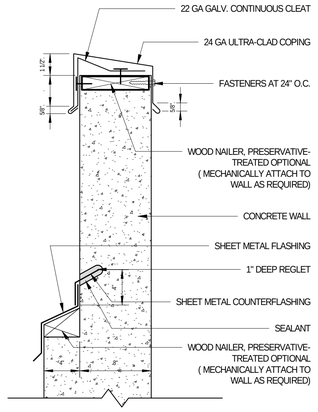
E:\01 MOA\Projects\2020\FMO\20231116 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt

SHEET NOTES

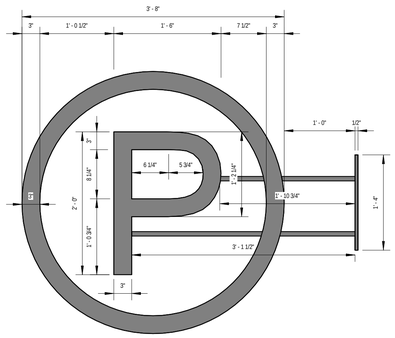
1. SIGNAGE DRAWINGS INDICATED GENERAL DESIGN FEATURE AND DIMENSIONS. SUBMIT SHOP DRAWINGS INDICATING FINAL DESIGN, CONNECTIONS, ANCHORING AND FINISHES.



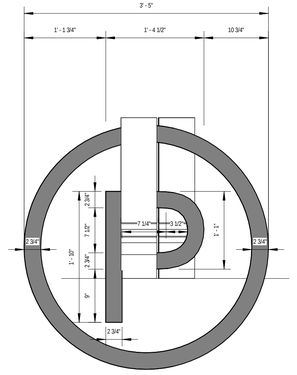
C1 SHEET METAL COPING DETAIL
SCALE: 1 1/2" = 1'-0"



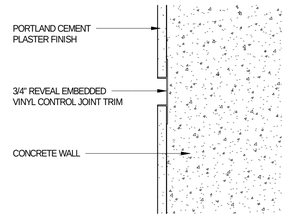
C2 SHEET METAL COPING DETAIL
SCALE: 1 1/2" = 1'-0"



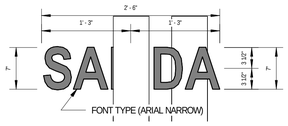
C4 SIGN DETAIL
SCALE: 1" = 1'-0"



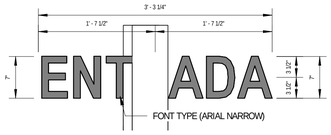
C6 SIGN DETAIL
SCALE: 1" = 1'-0"



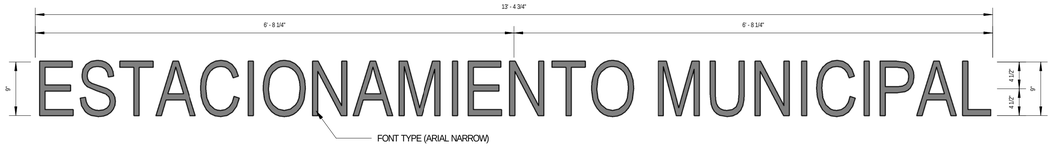
D6 TYP. CONTROL JOINT DETAIL
SCALE: 6" = 1'-0"



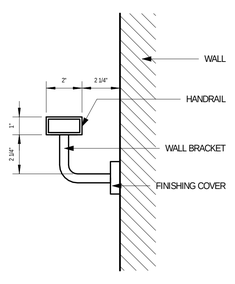
B1 SIGN DETAIL
SCALE: 1" = 1'-0"



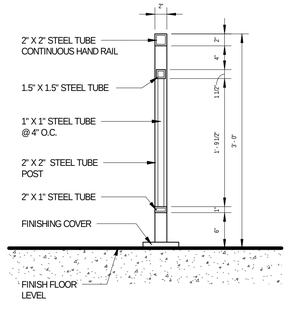
B2 SIGN DETAIL
SCALE: 1" = 1'-0"



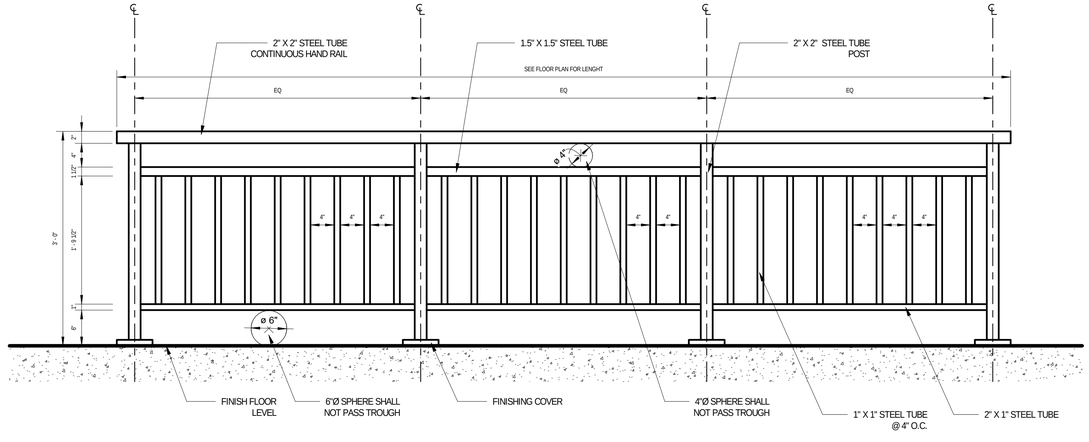
B3 SIGN DETAIL
SCALE: 1" = 1'-0"



A1 TYP. HANDRAIL DETAIL
SCALE: 3" = 1'-0"



A2 GUARD RAILING SECTION
SCALE: 1" = 1'-0"



A3 GUARD RAILING VIEW ELEVATION
SCALE: 1" = 1'-0"

DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
PRIME
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

MOA
moreno orama architecture
CONSULTANT
301 zambrana ave.
suite 1310
san juan, pr 00918
787 758 3302
architecturemoa@gmail.com
A A 2 6 0 0 9 9 8 5
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
SIGN DETAIL AND METAL CAP FLASHING DETAILS

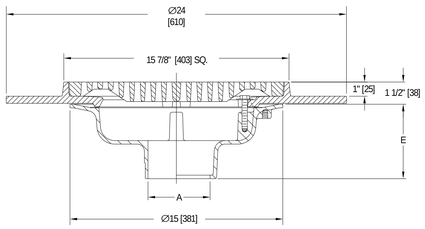
REVISIONS	SYMBOL	DATE	BY
1			
2			
3			
4			
5			

ESTOS PLANOS, ESPECIFICACIONES, DISEÑOS Y OTRO MATERIAL PREPARADO POR EL ARQUITECTO Y SUS CONSULTORES, INCLUYENDO LOS DISEÑOS ASISTIDOS POR COMPUTADORAS, SON INSTRUMENTOS DE SERVICIO PROFESIONAL PREPARADOS PARA USO EXCLUSIVO EN EL PROYECTO DESCRITO EN ESTOS PLANOS. EL ARQUITECTO RETIENE TODOS LOS DERECHOS DE AUTOR Y OTROS DERECHOS DE PROPIEDAD INTELECTUAL SOBRE ESTOS PLANOS, ESPECIFICACIONES, DISEÑOS Y MATERIAL. NO SE PERMITE EL USO, REPRODUCCIÓN, ALTERACIÓN O DISTRIBUCIÓN DE ESTOS PLANOS, ESPECIFICACIONES, DISEÑOS Y MATERIAL SIN EL CONSENTIMIENTO ESCRITO DEL ARQUITECTO. CUALQUIER USO NO AUTORIZADO, ALTERACIÓN O DISTRIBUCIÓN DE ESTOS PLANOS, ESPECIFICACIONES, DISEÑOS Y MATERIAL SERÁ EXCLUSIVAMENTE BAJO EL RIESGO DEL USUARIO Y SIN RESPONSABILIDAD PARA EL ARQUITECTO. EL USUARIO ACUERDA INDEMNIZAR Y EXIMIR AL ARQUITECTO DE TODAS LAS RECLAMACIONES, DAÑOS Y PÉRDIDAS (INCLUYENDO HONORARIOS DE ABOGADOS) QUE SURJAN DE O SEAN ATRIBUIBLES A DICHO USO NO AUTORIZADO, ALTERACIÓN O DISTRIBUCIÓN.

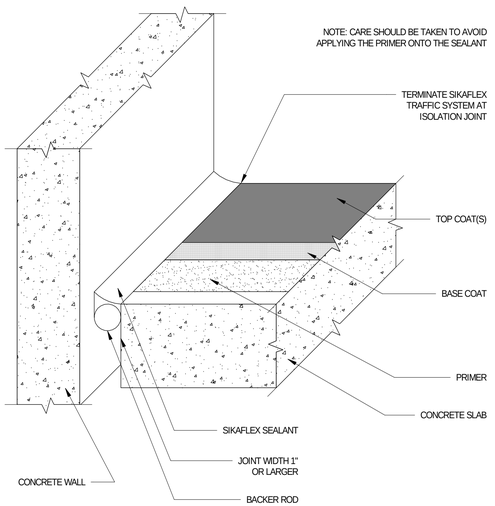
FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE: 5/29/2024 4:44:19 PM
DTE PROJECT NO.: DTE23-004
SHEET NO.: A540

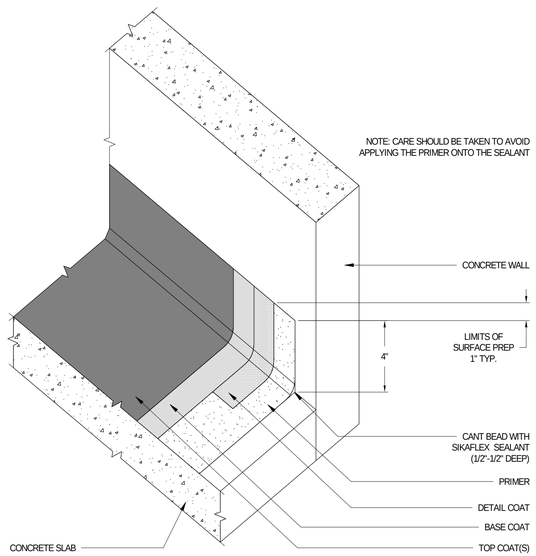
E:\01 MOA\Projects\2020\FMO\20231116 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt



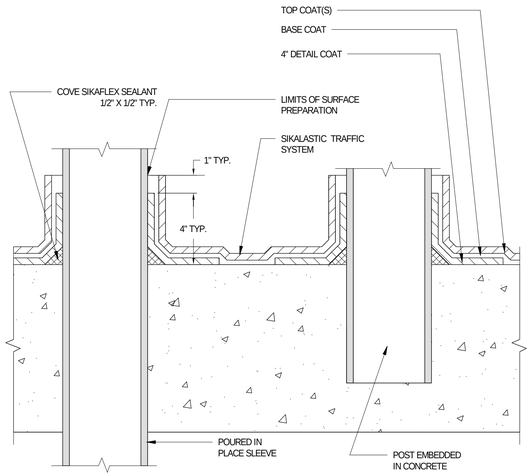
D1 DECK DRAIN DETAIL
SCALE: 3/32" = 1'-0"



C1 WALL OR SLAB ISOLATION JOINT DETAIL TYPE 2
SCALE: 3" = 1'-0"



A1 WALL OR SLAB JOINT DETAIL
SCALE: 3" = 1'-0"

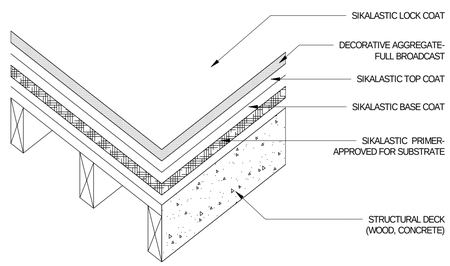


NOTE:
PROVIDE 4" DETAIL COAT AT COVE SEALANT.

C3 VERTICAL PROJECTION DETAIL
SCALE: 3" = 1'-0"

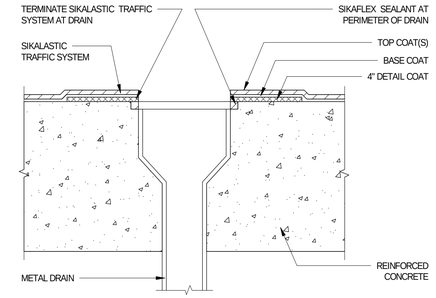
NOTES:
1) INTENDED FOR NON-REINFORCED SINGLE-COMPONENT AND TWO-COMPONENT URETHANE COATING SYSTEMS

B3 WATERPROOFING ASSEMBLY WITH UTILITY FINISH
SCALE: 3" = 1'-0"



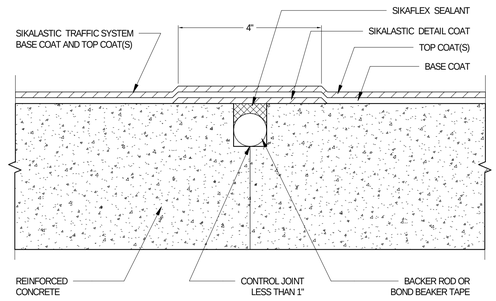
NOTES:
1) INTENDED FOR NON-REINFORCED SINGLE-COMPONENT AND TWO-COMPONENT URETHANE COATING SYSTEMS

A3 WATERPROOFING ASSEMBLY WITH AGGREGATE FINISH
SCALE: 3" = 1'-0"

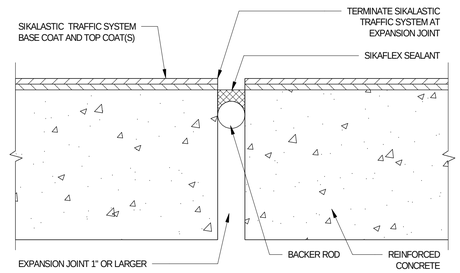


NOTE:
PROVIDE 4" DETAIL COAT AT DRAIN PERIMETER.

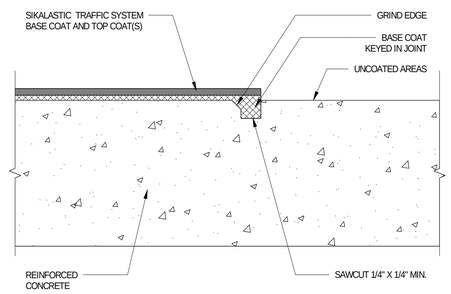
D5 DRAIN DETAIL
SCALE: 3" = 1'-0"



C5 CONTROL JOINT DETAIL
SCALE: 6" = 1'-0"



B5 EXPANSION JOINT DETAIL
SCALE: 6" = 1'-0"



A5 TERMINATION DETAIL
SCALE: 6" = 1'-0"

SHEET NOTE

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
moreno orama architecture
301 zambrana ave.
viejo, pr 00794
787.438.3262
architecturemoreno@gmail.com
fmorenorama@gmail.com
AAA 2600 9985

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
TYPICAL DETAILS

REVISIONS	SYMBOL	DATE	BY

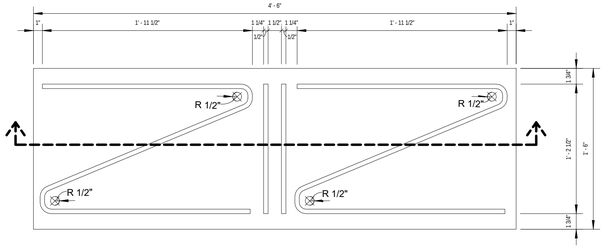
FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:44:27 PM
DTE PROJECT NO.:
DTE23-004

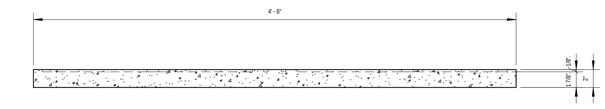
SHEET NO.:
A550

E:\01 MOA\Projects\2020\FMO\2023\16 JPPAR\01 RVT\2024-02-14 JPPAR2024-02-14 JPAR.rvt

SHEET NOTE

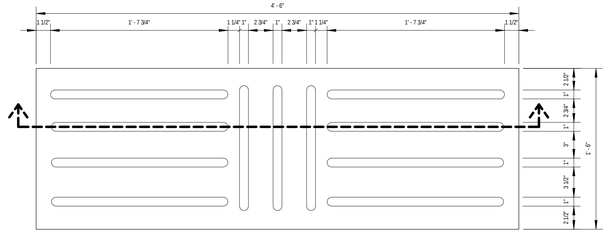


TOP VIEW

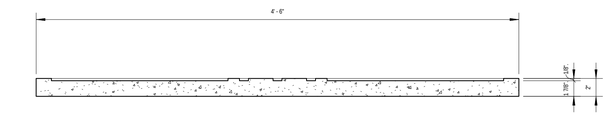


SECTION

PAVEMENT STAMP PATTERN #3

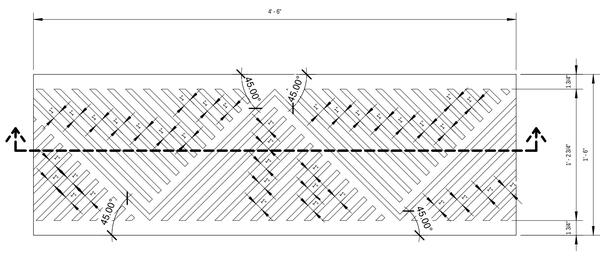


TOP VIEW

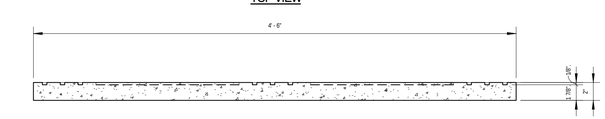


SECTION

PAVEMENT STAMP PATTERN #1

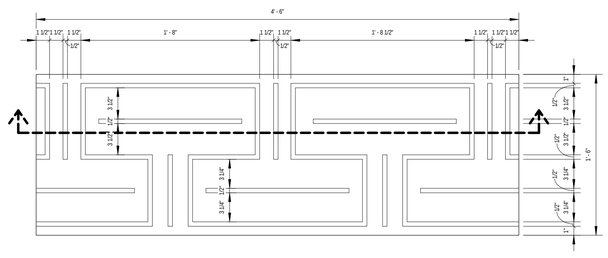


TOP VIEW

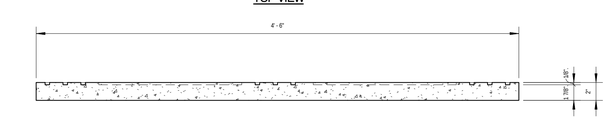


SECTION

PAVEMENT STAMP PATTERN #4



TOP VIEW



SECTION

PAVEMENT STAMP PATTERN #2

E:\01 MOA\Projects\2020\FMO\20231116 JPAR\01 RVT\20224-02-14 JPAR\20224-02-14 JPAR.rvt

PRIME

DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorreeng.com
www.linkedin.com/jdeltorre

CONSULTANT

moreno orama architecture
3012 ambercloak cr
valrico fl 33594
m: 787.381.3902
AA2003898
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
PAVEMENT STAMP PATTERN DETAILS

REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:44:33 PM
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
A560

GENERAL NOTES:

1. CODES NOTED ON THESE DRAWINGS SHALL BE OF THE LATEST REVISION.
2. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
4. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
5. 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 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.
6. WHERE "OWNER" IS MENTIONED IN PLANS IT IS TO BE UNDERSTOOD EITHER OWNER OR HIS AUTHORIZED REPRESENTATIVE.
7. CONTRACTOR SHALL SUBMIT FOR OWNERS APPROVAL LOCATION AND DETAILS OF CONSTRUCTION JOINTS IN SLABS AND BEAMS, AND IN ANY OTHER STRUCTURAL MEMBERS.
8. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON STRUCTURAL PLANS AGAINST THE DIMENSIONS ON ARCHITECTURAL PLANS BEFORE LAYING OUT THE WORK.
9. 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.
10. 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 BEFORE THE CONCRETE IS POURED.
11. PROVISIONS FOR DETAILS NOT SPECIFICALLY DRAWN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACI-318 BUILDING CODE AND CLARIFIED WITH THE STRUCTURAL ENGINEER.
12. ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS AND INTENDED TO BY TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OTHERWISE.
13. IN CASE OF DOUBT IN THE INTERPRETATION OF ANY ASPECT OF THESE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS, THE STRUCTURAL ENGINEER SHALL BE CONSULTED.
14. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN OR OMITTED ON THE DRAWINGS.
15. NO OPENINGS, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
16. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
17. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
18. 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.
19. HORIZONTAL MOVEMENT OF ANY HEAVY EQUIPMENT OVER STRUCTURAL FLOORS OR ROOF AND ITS TEMPORARY AND/OR DEFINITE LOCATIONS MUST BE PREVIOUSLY APPROVED BY THE ENGINEER 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 MATERIALS.
20. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT 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. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
21. 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 CONDITIONS HAVE BEEN MET. IF THERE IS ANY DOUBT DURING ANY PHASE OF THE CONSTRUCTION, PLEASE CONSULT AND/OR NOTIFY THE STRUCTURAL ENGINEER.

REFERENCES:

DESIGN, FABRICATION & CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS AND PROVISIONS OF THE FOLLOWING CODES AND SPECIFICATIONS THEIR COMMENTARIES AND THE STANDARDS REFERENCED THEREIN:

1. PUERTO RICO BUILDING CODE, (PRBC)
2. AMERICAN CONCRETE INSTITUTE (ACI)
3. CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
4. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

DESIGN LOADS:

1. LIVE LOADS:
   1.1. PARKING: 100 PSF

MATERIALS:

1. READY MIXED CONCRETE SHALL HAVE A MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH, CONFORMING TO ASTM C-94, AS FOLLOWS:
   1.1. 5,000 PSI FOR FOUNDATIONS AND COLUMNS
   1.2. 4,000 PSI FOR PARKING SLAB
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II.
3. NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C-33.
4. FLY ASH SHALL CONFORM TO ASTM C-618, CLASS F AND IT'S ADDITION SHALL NOT EXCEED 15% OF THE CEMENT WEIGHT.
5. ALL REINFORCING BARS SHALL BE HIGH TENSILE DEFORMED MEETING ASTM A-615 GRADE 60, UNLESS NOTED OTHERWISE ON SPECS AND/OR DRAWINGS.
6. MORTAR SHALL CONFORM TO ASTM C-270.

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.
2. THE TESTING AGENCY SHALL BE LICENSED IN PUERTO RICO AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN PUERTO RICO.
3. 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.
4. SEE TECHNICAL SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR QUALITY ASSURANCE TESTING AND INSPECTION OF:
   CONCRETE ACI-318
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 SCHEDULING 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 OWNER & BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND FOR TEN YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT TESTING AGENCY.

CAST IN PLACE REINFORCED CONCRETE:

1. CONTRACTOR SHALL SUBMIT, PRIOR TO INSTALLATION ALL REINFORCING STEEL SHOP DRAWINGS. SHOP DRAWINGS SHALL BE SEALED & SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN PUERTO RICO.
2. CONCRETE ITEMS AND REINFORCEMENT SHALL BE ERECTED IN STRICT ACCORDANCE WITH OWNER APPROVED SHOP AND ERECTION DRAWINGS FOLLOWING THE DETAILS SHOWN ON PLANS.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PRODUCE CORRECTLY ALIGNED CONCRETE CONSIDERING AMONG OTHER THINGS, THE ELASTIC DEFORMATION OF THE STRUCTURAL MEMBERS.
4. AT HORIZONTAL JOINTS IN WALLS AND COLUMNS, THE LOWER SURFACE SHALL BE THROUGHLY 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.
5. NO DEFECTIVE CONCRETE SHALL BE CORRECTED OR COVERED WITH MORTAR, PLASTER ETC. WITHOUT THE INSPECTORS' APPROVAL.
6. SLUMP OF CONCRETE SHALL NOT EXCEED 4" UNLESS A HIGHRANCE 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".
7. THE NOMINAL MAXIMUM AGGREGATE SIZE SHALL BE A MINIMUM OF 3/4".
8. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH 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 CERTIFIED BY A REGISTERED ENGINEER.
9. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:
   9.1. UNFORMED SURFACE IN CONTACT WITH THE GROUND 3 IN.
   9.2. FORMED SURFACES EXPOSED TO EARTH OR WEATHER:
   9.2.1. #6 BARS AND LARGER 2 IN.
   9.2.2. #5 BARS AND SMALLER 1½ IN.
   9.3. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
   9.3.1. BEAMS, GIRDERS, AND COLUMNS 1½ IN.
   9.3.2. SLABS, WALLS AND JOISTS:
   9.3.2.1. #11 BARS AND SMALLER ¾ IN.
   9.3.2.2. #14 AND #18 BARS 1½ IN.
10. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH ACI DETAILING MANUAL (SP-66) AND "THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" BY THE CRSI.
11. 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 STANDARD PRACTICE".
12. CONCRETE WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES.
13. ALL SYMBOLS AND STRESSES AS WELL AS CONCRETE WORK SHALL CONFORM TO THE STANDARD OF THE AMERICAN CONCRETE INSTITUTE (ACI-318).
14. ALL SLAB AND CORRESPONDING BEAMS, CURBS, OR APRONS SHALL BE POURED MONOLITHICALLY.
15. ALL REINFORCING, SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE WELL SECURED AND IN PLACE BEFORE CONCRETE IS POURED.
16. TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN ALL ONE WAY SLAB NORMAL TO THE PRINCIPAL REINFORCEMENT IN ACCORDANCE WITH ACI-318 BUILDING CODE.
17. TEMPERATURE REINFORCEMENT SHALL BE AS FOLLOWS:(UNLESS NOTED OTHERWISE)
   17.1. t = 4" #3 @ 12"
   17.2. t = 5" #3 @ 12"
   17.3. t = 6" #3 @ 10"
18. FOR CONCRETE FORMWORK, SURFACE FINISHING, BEVELED CORNERS AND DRIPS, SEE ARCHITECTURAL PLANS.
19. CONCRETE FORMWORK SHALL CONFORM TO ACI 347.
20. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARDS 304 & 305.
21. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL 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.
22. 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.
23. ALL CAST IN PLACE REINFORCED CONCRETE STRUCTURAL MEMBERS SHALL BE PROPERLY CURED IN ACCORDANCE WITH ACI-318 CHAPTER V AND ACI 308.
24. ALL LAPPING, BENDING AND PLACING OR REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH ACI-318 BUILDING CODE.
25. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
26. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED..
27. NO JOINT, OPENING, SLOT OR GROOVE OTHER THAN THAT SHOWN ON DRAWINGS SHALL BE PERMITTED WITHOUT PREVIOUS APPROVAL BY THE ENGINEER. ALL CONSTRUCTION JOINT SURFACES SHALL BE CLEANED AND ROUGHENED IMMEDIATELY BEFORE CONCRETING AND TREATED AS INSTRUCTED IN THE "ACI MANUAL OF CONCRETE PRACTICE".
28. CONDUIT OF PIPE SIZE (O.D.) SHALL NOT EXCEED 30 PERCENT OF TOTAL SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP & BOTTOM REINFORCEMENT, UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.
29. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCEMENT BAR WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED U.N.O.
30. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, U.N.O.; WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICE.

SPLICES TABLE (GRADE 60)

BAR SIZE	f'c (psi)	TENSION: TOP BARS SPLICE CLASS A	TENSION: TOP BARS SPLICE CLASS B	TENSION: OTHER BARS SPLICE CLASS A	TENSION: OTHER BARS SPLICE CLASS B	COMPRESSION: SPLICE
#4	3,000	29"	38"	22"	29"	12"
	4,000	25"	33"	19"	25"	12"
	5,000	23"	29"	17"	23"	12"
#5	3,000	36"	47"	28"	36"	14"
	4,000	31"	41"	24"	31"	12"
	5,000	28"	36"	22"	28"	12"
#6	3,000	43"	56"	33"	43"	17"
	4,000	37"	49"	29"	37"	15"
	5,000	34"	43"	26"	34"	14"

COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS LAP
WELDED WIRE FABRIC: ONE SPACING OF CROSS WIRES PLUS 2"

f'c (psi) @ 28 DAYS	WATER-CEMENT RATIO BY WEIGHT: NON-AIR ENTRAINED CONCRETE	AIR ENTRAINED CONCRETE
4,000	0.55	0.45
3,500	0.58	0.50
3,000	0.62	0.56
2,500	0.72	0.66

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
AJQ ENGINEERS, P S C
CONSULTING ENGINEERS
CEL (787) 568-8215
ajq@caribe.net
209 URB. LA SERRANIA
CAGUAS, PR 00725

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

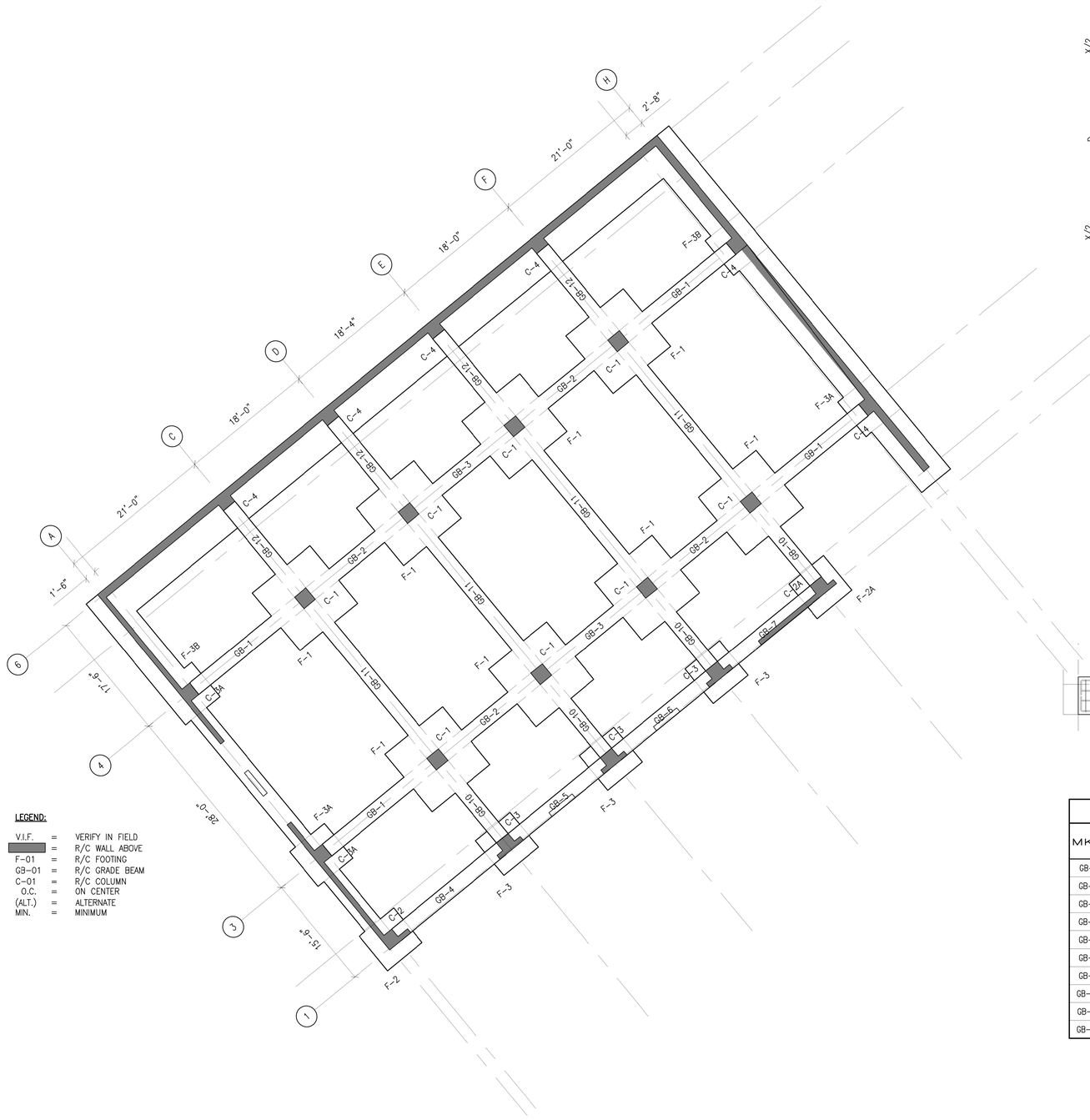
SHEET NAME
GENERAL & STRUCTURAL NOTES, MISCELLANEOUS SECTIONS AND DETAILS

EL DISEÑO Y DIBUJOS, DISEÑOS DE LOSADA, MAPA, DISEÑOS QUE SON EL PROPIEDAD DE CONSULTORES Y LOS DERECHOS AJQ ENGINEERS, PSC, ESTÁN PROTEGIDOS POR LAS LEYES DE DERECHOS DE AUTOR Y OTRAS LEYES APLICABLES. PARTE ELECTRICO, DISEÑO INTERIOR, LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN, LAS NORMAS DE LA INDUSTRIA Y LAS RECOMENDACIONES DE LOS FABRICANTES. EL USO O REPRODUCCIÓN NO AUTORIZADA DE ESTOS DISEÑOS, DIBUJOS Y ESPECIFICACIONES, O CUALQUIERA DE LAS IDEAS EN ELLOS INCORPORADAS, CONSTITUIRÁ UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR DEL AUTOR Y DE LOS DERECHOS DE PROPIEDAD INTELECTUAL DE LOS CONSULTORES. EL USO NO AUTORIZADO DE ESTOS DISEÑOS, DIBUJOS Y ESPECIFICACIONES, O CUALQUIERA DE LAS IDEAS EN ELLOS INCORPORADAS, CONSTITUIRÁ UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR DEL AUTOR Y DE LOS DERECHOS DE PROPIEDAD INTELECTUAL DE LOS CONSULTORES. EL USO NO AUTORIZADO DE ESTOS DISEÑOS, DIBUJOS Y ESPECIFICACIONES, O CUALQUIERA DE LAS IDEAS EN ELLOS INCORPORADAS, CONSTITUIRÁ UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR DEL AUTOR Y DE LOS DERECHOS DE PROPIEDAD INTELECTUAL DE LOS CONSULTORES.

SYMBOL	DATE	BY
REVISIONS		
-	2024-05-28	AJQ
DFE - NOT FOR CONSTRUCTION		

DRAWN: AJQ
DESIGNED: A. JIMENEZ, P.E.
REVIEWED: J. DELGADO, P.E.
DATE: May 28, 2024
DTE PROJECT NO.: DTE23-004
SHEET NO.: S-000

G:\Full Backup\Administrative\Clients\DelTorre Engineering LLC\CRP-000048 Estacionamiento Calle Libertad - Jayuya\2024 New Layout\Dwgs\STR-NEW-2.dwg, 5/28/2024 3:38:47 PM
G:\Full Backup\Administrative\Clients\deltorre engineering llc\crp-000048 estacionamiento calle libertad - jayuya\2024 new layout\dwgs\str-new-2.dwg

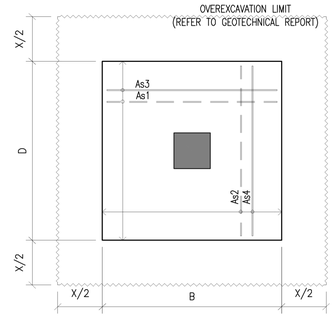


LEGEND:

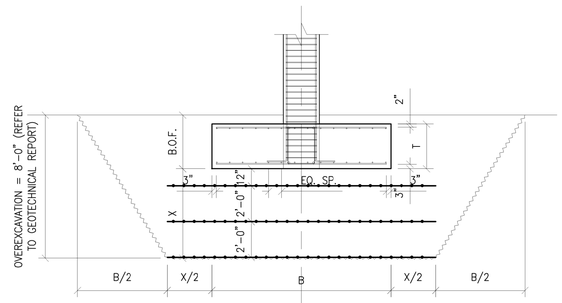
V.I.F.	=	VERIFY IN FIELD
	=	R/C WALL ABOVE
F-01	=	R/C FOOTING
GB-01	=	R/C GRADE BEAM
C-01	=	R/C COLUMN
O.C.	=	ON CENTER
(ALT.)	=	ALTERNATE
MIN.	=	MINIMUM

FOUNDATION LAYOUT PLAN
SCALE: 1/8" = 1'-0"

NORTH



PLAN



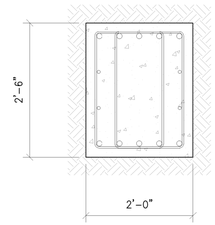
ELEVATION

FOOTING SCHEDULE

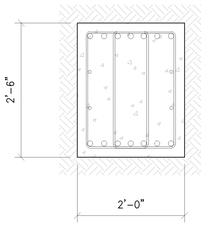
MKD	B.O.F.	SIZE			f'c (psi)	REINFORCEMENT			
						BOTTOM		TOP	
		B	D	T		As1	As2	As3	As4
F-1	3'-0"	10'-0"	10'-0"	2'-6"	6,000	(14) #8	(14) #8	(14) #8	(14) #8
F-2	3'-0"	6'-0"	6'-0"	2'-0"	6,000	(9) #8	(9) #8	(9) #8	(9) #8
F-2A	3'-0"	6'-0"	6'-0"	2'-0"	6,000	(9) #8	(9) #8	(9) #8	(9) #8
F-3	3'-0"	6'-0"	6'-0"	2'-0"	6,000	(9) #8	(9) #8	(9) #8	(9) #8
F-3A	3'-0"	6'-0"	6'-0"	2'-0"	6,000	(9) #8	(9) #8	(9) #8	(9) #8
F-3B	3'-0"	6'-0"	6'-0"	2'-0"	6,000	(9) #8	(9) #8	(9) #8	(9) #8

GRADE—BEAM REINFORCEMENT SCHEDULE

MKD	REINFORCEMENT BARS					HOOPS			REMARKS
	"A"	"B"	"C"	"D"	"E"	S1	S2	S3	
GB-1	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(2) #10	(2) #10 x 20'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-2	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-3	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-4	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(2) #10	(2) #10 x 20'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-5	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-6	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-7	(3) #10 CONT.	(3) #10 CONT.		(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-10	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-11	(3) #10 CONT.	(3) #10 CONT.	–	(4) #10	(4) #10 x 20'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 2/S-100
GB-12	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100



SECTION 1/S-100
SCALE: 3/4" = 1'-0"



SECTION 2/S-100
SCALE: 3/4" = 1'-0"

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
AJQ ENGINEERS, P S C
CONSULTING ENGINEERS
CEL (787) 568-8215
ajq@caribe.net
209 URB. LA SERRANIA
CAGUAS, PR 00725

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
FOUNDATIONS LAYOUT PLAN, SCHEDULES, SECTIONS AND DETAILS

EL MISMO, A MENOS, QUE SEA LICENCIA PARA USO ESPECIFICO POR ESCRITO POR EL PROFESIONAL QUE CONTRATO LOS SERVICIOS PARA ESTE PROYECTO. ESTE DOCUMENTO ES PROPIEDAD INTELECTUAL DEL PROFESIONAL QUE LO PREPARO Y SE PROTEGE BAJO LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE PROPIEDAD INTELECTUAL VIGENTES EN PUERTO RICO Y LOS ESTADOS UNIDOS. ESTE DOCUMENTO NO PUEDE SER REPRODUCIDO, PUBLICADO O DISTRIBUIDO POR CUALQUIER MEDIO, TOTAL O PARCIALMENTE, SIN EL CONSENTIMIENTO ESCRITO DEL PROFESIONAL QUE LO PREPARO. EL USO NO AUTORIZADO Y/O LA REPRODUCCION TOTAL O PARCIAL DE ESTE DOCUMENTO, SIN LA AUTORIZACION ESCRITA DEL PROFESIONAL QUE LO PREPARO, CONSTITUYE UNA VIOLACION A LOS DERECHOS DE AUTOR Y OTRAS LEYES APLICABLES.

REVISIONS	SYMBOL	DATE	BY
1.	1	2024-05-28	AJQ
DATE - NOT FOR CONSTRUCTION			

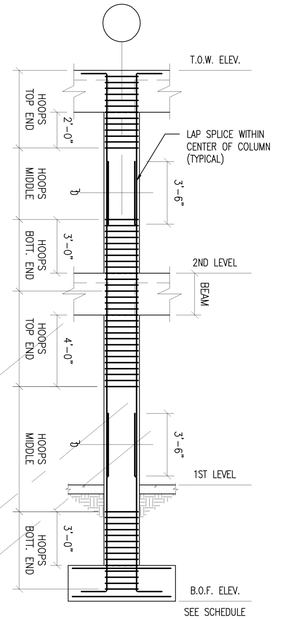
DRAWN: AJQ
DESIGNED: A. JIMENEZ, P.E.
REVIEWED: J. DELGADO, P.E.
DATE:
May 28, 2024
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
S-100

G:\Full Backup\Administrative\Clients\DelTorre Engineering LLC\CRP-000048 Estacionamiento Calle Libertad - Jayuya\2024 New Layout\Dwgs\STR-NEW-2.dwg, 5/28/2024 3:38:53 PM
G:\Full Backup\Administrative\Clients\DelTorre engineering llc\crp-000048 estacionamiento calle libertad - jayuya\2024 new layout\dwgs\str-new-2.dwg

TYPICAL SIDEWALK DETAIL
SCALE: 3/4"=1'-0"

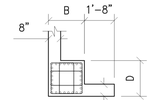




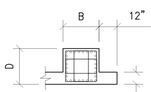
PARTIAL COLUMN ELEVATION
SCLAE:1/4"=1'-0"



C-1



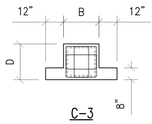
C-2



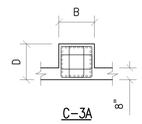
C-2A

COLUMN SCHEDULE

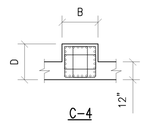
MK'D.	SIZE		REINFORCEMENT				LEVEL	f'c (psi)
			VERT. REINF.	HOOPS				
	B	D		BOTT. END	AT MIDDLE	TOP END		
C-1	2'-0"	2'-0"	(28) #8	(30) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	FDN. TO 2nd LEVEL	6,000
	–	–	–	–	–	–	2nd TO T.O.W.	–
C-2	2'-0"	2'-0"	(28) #7	(30) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	FDN. TO 2nd LEVEL	6,000
	2'-0"	2'-0"	(28) #7	(20) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	2nd TO T.O.W.	5,000
C-2A	2'-0"	2'-0"	(28) #7	(30) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	FDN. TO 2nd LEVEL	6,000
	2'-0"	2'-0"	(28) #7	(20) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	2nd TO T.O.W.	5,000
C-3	2'-0"	2'-0"	(28) #8	(30) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	FDN. TO 2nd LEVEL	6,000
	2'-0"	2'-0"	(28) #8	(20) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	2nd TO T.O.W.	5,000
C-3A	2'-0"	2'-0"	(28) #7	(30) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	FDN. TO 2nd LEVEL	6,000
	2'-0"	2'-0"	(28) #7	(20) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	2nd TO T.O.W.	5,000
C-4	2'-0"	2'-0"	(28) #6	(30) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	FDN. TO 2nd LEVEL	6,000
	2'-0"	2'-0"	(28) #6	(20) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	2nd TO T.O.W.	5,000



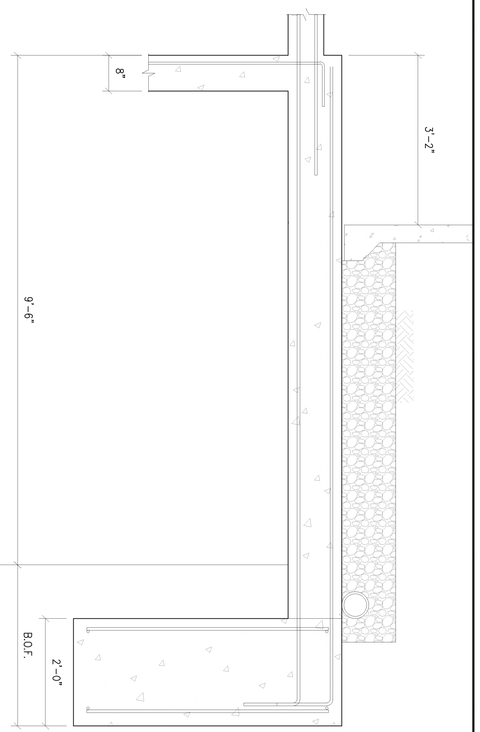
C-3



C-3A



C-4

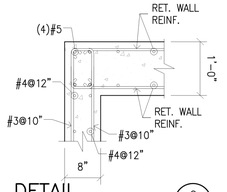


SECTION
SCALE: 3/4" = 1'-0"
1 S-110

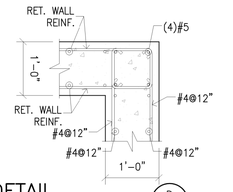
SLAB-ON-GRADE LAYOUT PLAN
SCALE: 1/8" = 1'-0"

DETAIL
SCALE: 3/4" = 1'-0"
A S-110

DETAIL
SCALE: 3/4" = 1'-0"
B S-110



DETAIL
SCALE: 3/4" = 1'-0"
C S-110



DETAIL
SCALE: 3/4" = 1'-0"
D S-110

SECTION
SCALE: 3/4" = 1'-0"
1 S-110

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH:787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
AJQ ENGINEERS, P S C
CONSULTING ENGINEERS
CEL (787) 568-8215 209 URB. LA SERRANIA
ajq@caribe.net CAGUAS, PR 00725

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
SLAB-ON-GRADE LAYOUT PLAN,
SCHEDULES, SECTIONS AND DETAILS

A. AYUSO, A. JIMENEZ, A. OLIVERA, A. RIOS, ESTADO MAS SOY EL PROFESIONAL QUE CONFECCIONO Y/O DISEÑO Y/O SUPERVISO LOS PLANOS, ESPECIFICACIONES, INFORMES Y/O MEMORIAL DESCRIPTIVO SOMETIDOS POR ESTE MEDIO Y QUE LOS MISMOS CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTES EN PUERTO RICO Y LAS REGLAMENTACIONES PROMULGADAS POR LAS CORPORACIONES PUBLICAS Y/O AGENCIAS GUBERNAMENTALES QUE TENGAN JURISDICCION SOBRE ESTA CLASIFICACION DE LOS MISMOS QUE SE HAYA PRODUCIDO POR CUALQUIER CAMBIO, ALTERACION O MODIFICACION REALIZADA A DICHOS PLANOS, ESPECIFICACIONES, INFORMES Y/O MEMORIAL DESCRIPTIVO SIN MI CONSENTIMIENTO Y APROBACION POR ESCRITO.

REVISIONS	SYMBOL	DATE	BY
PER - ADT FOR CONSTRUCTION	A	2024-05-28	AJQ

DRAWN: AJQ
DESIGNED: A. JIMENEZ, P.E.
REVIEWED: J. DELGADO, P.E.
DATE:
May 28, 2024
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
S-110

G:\Full Backup\Administrative\Clients\DelTorre Engineering LLC\CRP-000048 Estacionamiento Calle Libertad - Jayuya\2024 New Layout\Dwgs\STR-NEW-2.dwg, 5/28/2024 3:38:58 PM
p:\Full Backup\Administrative\Clients\deltorre engineering pr\crp-000048 estacionamiento calle libertad - jayuya\2024 new layout\dwgs\str-new-2.dwg



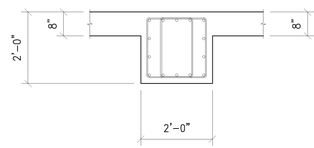
LEGEND:

V.I.F.	=	VERIFY IN FIELD
	=	BOTTOM BAR
	=	TOP BAR
	=	R/C WALL BELOW
	=	R/C WALL ABOVE & BELOW
BM-01	=	R/C BEAM
O.C.	=	ON CENTER
(ALT.)	=	ALTERNATE
MIN.	=	MINIMUM

2ND LEVEL FRAMING PLAN

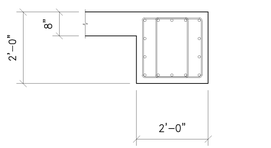
SCALE: 1/8" = 1'-0"

NORTH



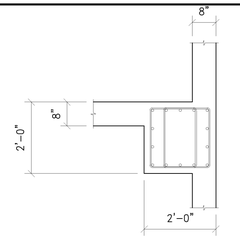
SECTION 1 S-120

SCALE: 1/2" = 1'-0"



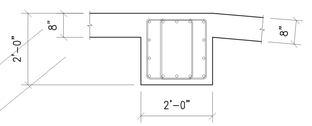
SECTION 2 S-120

SCALE: 1/2" = 1'-0"



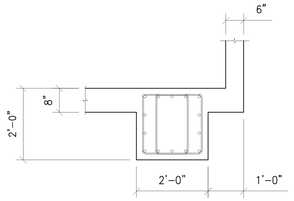
SECTION 3 S-120

SCALE: 1/2" = 1'-0"



SECTION 4 S-120

SCALE: 1/2" = 1'-0"

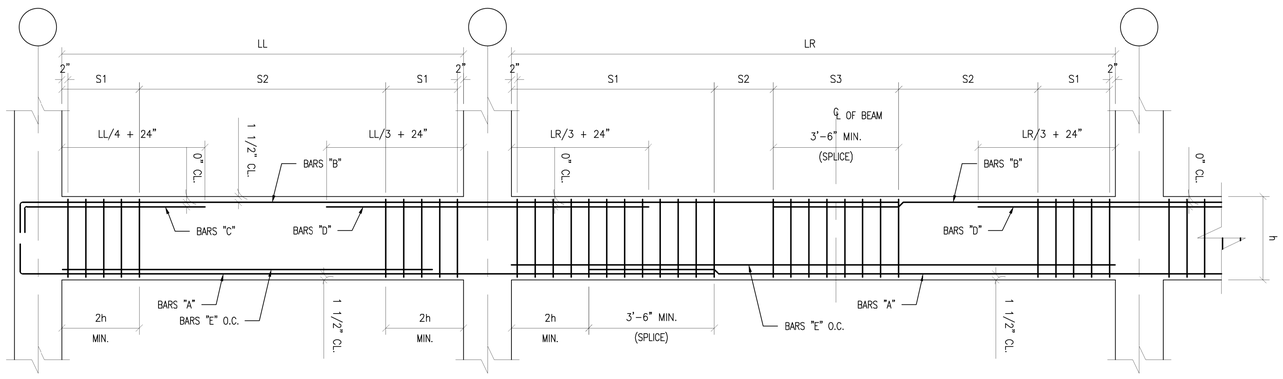


SECTION 5 S-120

SCALE: 1/2" = 1'-0"

BEAM REINFORCEMENT SCHEDULE

MKD	REINFORCEMENT BARS					HOOPS			REMARKS
	"A"	"B"	"C"	"D"	"E"	S1	S2	S3	
BM-1	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(2) #10	(2) #10 x 20'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-120
BM-2	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-120
BM-3	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-120
BM-4	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(2) #10	(2) #10 x 20'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 4/S-120
BM-5	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-120
BM-6	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-120
BM-7	(3) #9 CONT.	(3) #9 CONT.	(2) #9	(2) #9	(2) #9 x 20'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 2/S-120
BM-8	(3) #9 CONT.	(3) #9 CONT.	–	(2) #9	(2) #9 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 2/S-120
BM-9	(3) #9 CONT.	(3) #9 CONT.	–	(2) #9	(2) #9 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 2/S-120
BM-10	(3) #9 CONT.	(3) #9 CONT.	–	(2) #9	(2) #9 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 2/S-120 & 3/S-120
BM-11	(3) #8 CONT.	(3) #8 CONT.	(2) #8	(2) #8	(2) #8 x 20'-0"	(15) #3 @ 6"	#3 @ 12"	#3 @ 6"	SECTION 3/S-120
BM-20	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(4) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-3
BM-21	(3) #10 CONT.	(3) #10 CONT.	(4) #10	(4) #10	(4) #10 x 25'-0"	(15) #4 @ 4"	#4 @ 8"	#3 @ 4"	SECTION 1/S-3
BM-22	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(4) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 5/S-3
BM-23	(3) #10 CONT.	(3) #10 CONT.	(3) #10	(4) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-3
BM-24	(3) #10 CONT.	(3) #10 CONT.	(4) #10	(4) #10	(4) #10 x 25'-0"	(15) #4 @ 4"	#4 @ 8"	#3 @ 4"	SECTION 1/S-3
BM-25	(3) #10 CONT.	(3) #10 CONT.	(3) #10	(4) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-3



ELEVATION

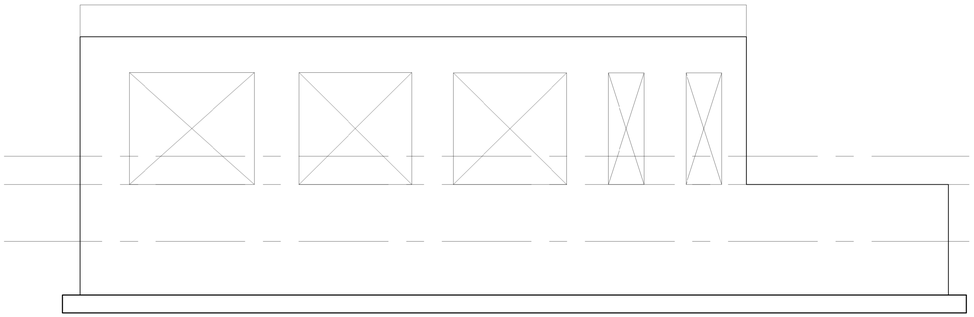
PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
AJQ ENGINEERS, P S C
CONSULTING ENGINEERS
CEL (787) 568-8215
ajq@caribe.net
209 URB. LA SERRANIA
CAGUAS, PR 00725

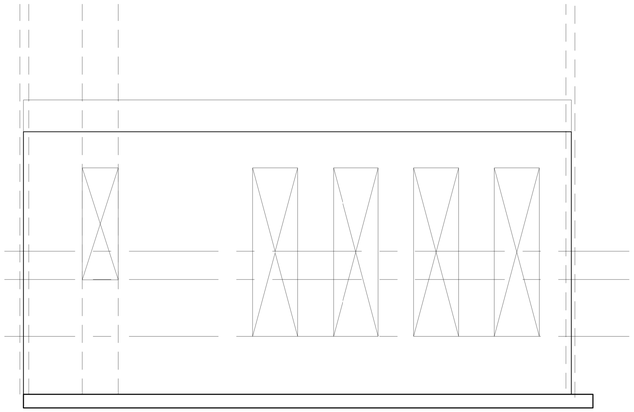
PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
2nd LEVEL FRAMING PLAN, SCHEDULES, SECTIONS AND DETAILS

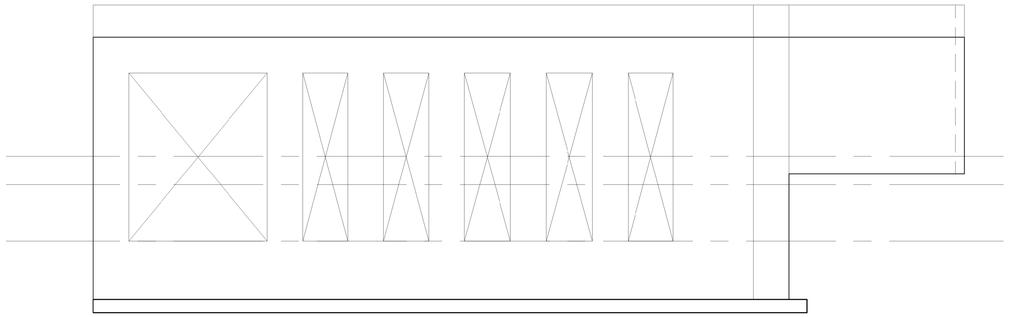
AJQ ENG. A. JIMENEZ, DJAQUA JE, DJAQUA, KEVIN DEPOO HAS SIDO EL PROFESIONAL QUE COMPLICHAN LOS GRADOS TOMADOS EN ESTOS PLANOS Y REPORTE, ESTANDO DE ACUERDO CON LOS MISMOS. Y REPORTE, ESTANDO DE ACUERDO CON LOS MISMOS. LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTES EN PUERTO RICO. LOS PLANOS Y REGLAMENTACIONES DE CORPORACIONES PUBLICAS Y PRIVADAS. ESTOS PLANOS



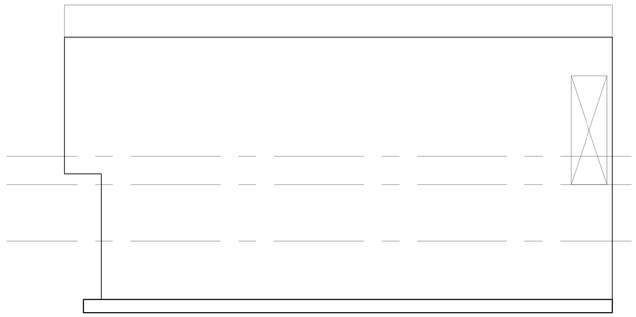
SHEARWALL ELEVATION ALONG AXIS 6
SCALE: 1/8" = 1'-0"



SHEARWALL ELEVATION ALONG AXIS A
SCALE: 1/8" = 1'-0"



SHEARWALL ELEVATION ALONG AXIS 1
SCALE: 1/8" = 1'-0"



SHEARWALL ELEVATION ALONG AXIS H
SCALE: 1/8" = 1'-0"

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
AJQ ENGINEERS, P S C
CONSULTING ENGINEERS
CEL (787) 568-8215 209 URB. LA SERRANIA
ajq@caribe.net CAGUAS, PR 00725

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
WALL ELEVATIONS, SECTIONS AND DETAILS

REVISIONS	SYMBOL	DATE	BY
1ST SUBMITTAL	1	2024-05-28	AJQ
IFR - NOT FOR CONSTRUCTION			

DRAWN: AJQ
DESIGNED: A. JIMENEZ, P.E.
REVIEWED: J. DELGADO, P.E.
DATE:
May 28, 2024
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
S-200

G:\Full Backup\Administrative\Clients\DelTorre Engineering LLC\CRP-000048 Estacionamiento Calle Libertad - Jayuya\2024 New Layout\Dwgs\STR-NEW-2.dwg, 5/28/2024 3:39:07 PM

G:\Full Backup\Administrative\Clients\Deltorre engineering llc\crp-000048 estacionamiento calle libertad - jayuya\2024 new layout\dwgs\str-new-2.dwg

PR 141/GUILLERMO ESTEVES ST.

PROP BIODEGRADABLE LOGS, 40 MTS LONG AS SHOWN

LEVEL ABOVE
FFE=439.02
16

LEVEL BELOW
FFE=436.00
16

PROP SILT FENCE
16 MTS LONG

PROP BIODEGRADABLE LOGS, 35 MTS LONG AS SHOWN

LIBERTAD ST.

EXISTING STRUCTURE

CONC. WALL

WM

WV

WEP

PAVE

Meters
2 0 2 4
1:100

HORIZONTAL & VERTICAL CONTROL

Point No.	Northing(Y)	Easting(X)	Elev(Z)	Description
1	242766.8300	183446.1010	435.4040	STA.PK
2	242789.5650	183466.2270	436.2960	STA.PK

SWPPP LEGEND

T.C.	TOP OF CURB	N.G.	NATURAL GROUND
G	GUTTER	xxx	EXISTING ELEVATIONS
T.P.	TOP OF PAVEMENT	xxx	PROPOSED ELEVATIONS
	CONSTRUCTION ENTRANCE		PROPOSED SILT FENCE
	BIODEGRADABLE LOGS		EX FLOOD PLAIN ELEV

SWPPP NOTES:

1. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE SITE AND ALL RUNOFF EXITING THE SITE MUST BE PROTECTED FOR REACHING NEIGHBORS.
2. THE TECHNICS PRESENTED IN THESE PLANS ARE SUGGESTIONS BY THE ENGINEER. LOCATIONS AND QUANTITY MAY VARY DEPENDING ON THE PROJECT. CHANGES TO THE PLANS MUST BE APPROVED IN WRITING BY THE ENGINEER.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SWPPP DEVICES IN THEIR OPTIMAL CONDITION.

PRELIMINARY PLANS

THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES. PLANS PREPARED UNDER THE DIRECT SUPERVISION OF J.A.DELGADO VELEZ, PE. CIAPR REGISTRATION # 28436 DATE:May 29, 2024

DELTORRE ENGINEERING LLC
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

PROJECT NAME
PARKING LIBERTAD STREET
JAYUYA, P.R.

SHEET NAME
STORMWATER POLLUTION PREVENTION PLAN

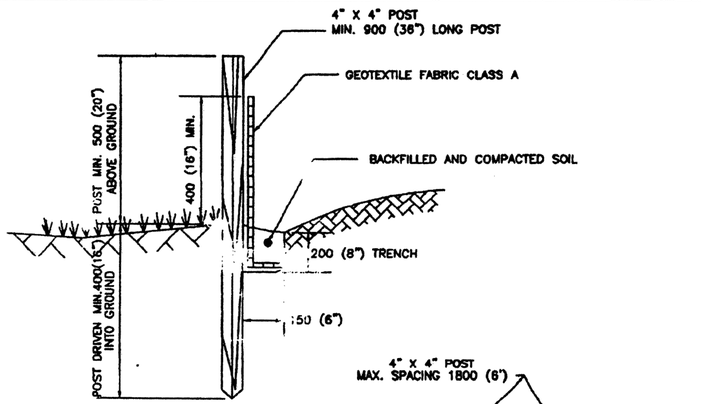
REVISIONS	SYMBOL	DATE	BY

YO, JOSE A. DELGADO VELEZ, UNICO DE LICENCIA 28436, CERTIFICO QUE SOY EL PROFESIONAL QUE COMPUTO Y/O DISEÑO Y/O PREPARO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, ASUMIENDO LA TOTAL RESPONSABILIDAD POR LOS MISMOS. QUE LOS MISMOS CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS VIGENTES EN EL MOMENTO CONSIENTO Y LAS ESPECIFICACIONES APLICABLES EN LOS MISMOS. QUE LOS MISMOS NO SON COPIAS O DERIVADOS DE OTROS PLANOS Y ESPECIFICACIONES PREPARADOS POR TERCEROS SIN SU AUTORIZACIÓN. RECONOZCO QUE CUALQUIER OMISIÓN PALSA O INCORRECTA EN LOS PLANOS Y ESPECIFICACIONES PUEDE RESULTAR EN LA REVOCACIÓN DE MI LICENCIA. ASIMISMO, RECONOZCO QUE CUALQUIER USO NO AUTORIZADO DE ESTOS PLANOS Y ESPECIFICACIONES, INCLUYENDO SU COPIA O DERIVACIÓN PARA LA PREPARACIÓN O COMPLETACIÓN PARCIAL O TOTAL DE OTRO PROYECTO SIN MI CONSENTIMIENTO ESCRITO, ES PROHIBIDO Y PUEDE RESULTAR EN LA REVOCACIÓN DE MI LICENCIA. POR LA PRESENTE, ME LIBERO Y EXIMO DE CUALQUIER RESPONSABILIDAD QUE PUEDA SURGIR POR EL USO NO AUTORIZADO DE ESTOS PLANOS Y ESPECIFICACIONES. ESTOS PLANOS Y ESPECIFICACIONES NO PODRÁN SER UTILIZADOS, COPIADOS O DERIVADOS PARA OTRO PROYECTO SIN MI CONSENTIMIENTO POR ESCRITO. ESTOS PLANOS Y ESPECIFICACIONES SON PROPIEDAD INTELECTUAL DE LA FIRMA PROFESIONAL QUE REPRESENTO. ME RESERVO TODOS LOS DERECHOS DE PROPIEDAD INTELECTUAL SOBRE ESTOS PLANOS Y ESPECIFICACIONES.

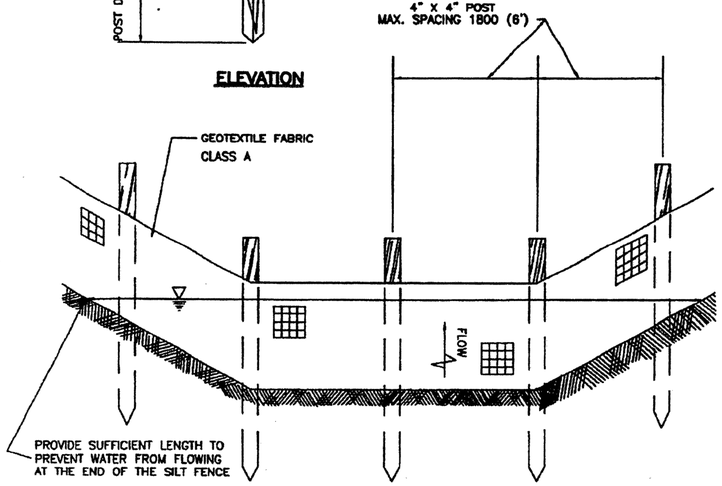
DRAWN: JAD
DESIGNED: J. Delgado, P.E.
REVIEWED: I. Torres, P.E.
DATE:
May 29, 2024
PROJECT NO.:
DTE23-003

SHEET NO.:
C400

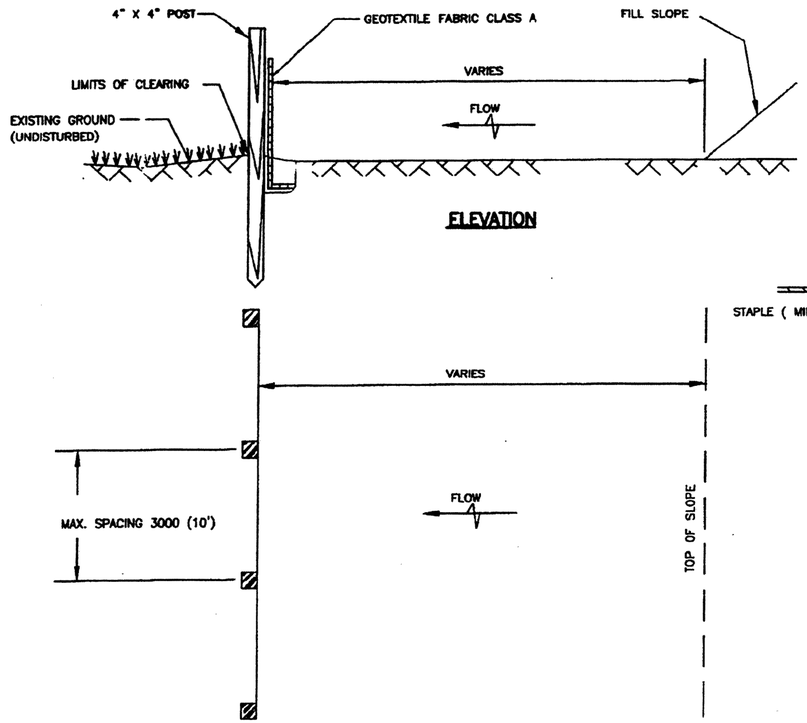
g:\users\joseadelgado\onedrive - delgado torres engineering, llc\documents - projects\dte-2023-003 parking libertad street cpr-048 jayuya\site23-003 c3d\production drawings\c600 swppp.dwg



ELEVATION

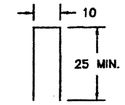


INSTALLATION IN A DRAINAGE DITCH

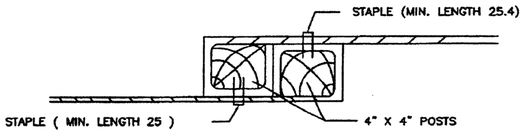


ELEVATION

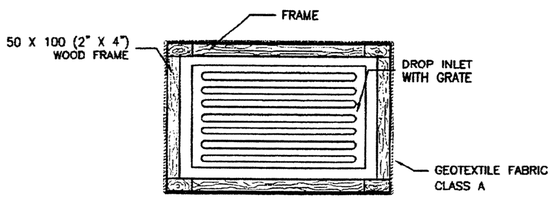
INSTALLATION AT TOE OF FILL



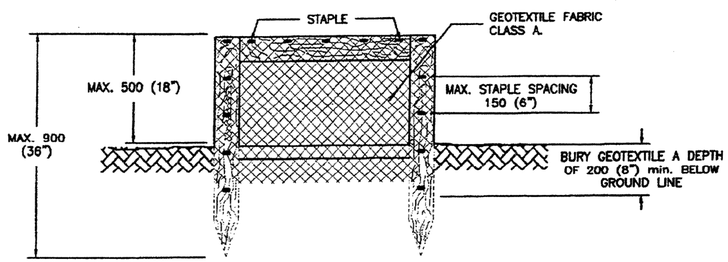
STAPLE DETAIL



TOP VIEW



TOP VIEW



FRONT VIEW

DROP INLET PROTECTION

NOTES:

1– SILT FENCES SHALL BE CONSTRUCTED AT THE LOCATION INDICATED IN THE CONSTRUCTIONS PLANS.

2– ALTERNATE PRE–ASSEMBLED SILT FENCE OPTIONS WILL BE ALLOWED AS LONG AS SPECIFIED MINIMUMS ARE SATISFIED. FOLLOW MANUFACTURER'S INFORMATION FOR INSTALLATION PROCEDURES.

3– EXCAVATION, BACKFILL, STAPLES AND POSTS ARE SUBSIDIARY OBLIGATIONS.

4– THE SILT FENCE GEOTEXTILE FABRIC SHALL COMPLY WITH AASHTO M266.

5– SILT FENCE SHALL BE INSPECTED FOR DAMAGE WEEKLY. AFTER RAINFALL ANY DAMAGE FENCE SHALL BE REPAIRED IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAINFALL EVENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH MAINTENANCE WORK.

6– WHEN THE DISTRIBUTED AREA HAVE BEEN PROPERLY STABILIZED THE FENCE MAY BE REMOVED AND ANY REMAINING AREAS STABILIZED. THIS WORK WILL BE PERFORMED AS DIRECTED BY THE ENGENEER AS A SUBSIDIARY OBLIGATION.

7– 'TOP VIEW' AND 'STAPLE DETAIL' APPLY TO ALL APPLICATIONS SHOWN IN THIS SHEET.

8– FOR ALL APPLICATIONS, THE MAXIMUM STAPLE SPACING SHALL BE 150 MM (6")

9– ALL DIMENSIONS SHOWN ARE IN MILIMETERS UNLESS OTHERWISE SPECIFIED.

EFFECTIVE DATE: OCTOBER 1998

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

EROSION CONTROL
DEVICES
SILT FENCE

RECOMMENDED BY: DESIGN AREA DIRECTOR DATE: Dec. 2, 98
APPROVED BY: EXECUTIVE DIRECTOR DATE: 8-XII-98
APPROVED BY: DIV. ADM. FHWA–PR DIVISION DATE: 12-9-98

DATE	REVISION	BY
09-24-1997	GENERAL REVISION	LV.
05-07-1998	GENERAL REVISION	LV.

STD. DWG. ER 1 OF 20

DELTORRE ENGINEERING
PLANNING SMART FOR A BETTER FUTURE
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

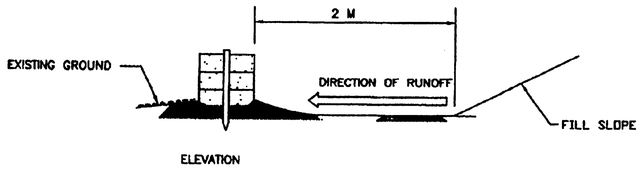
CRP-000048 PARKING
LIBERTAD STREET
JAYUYA, P.R.

EROSION CONTROL
STANDARD

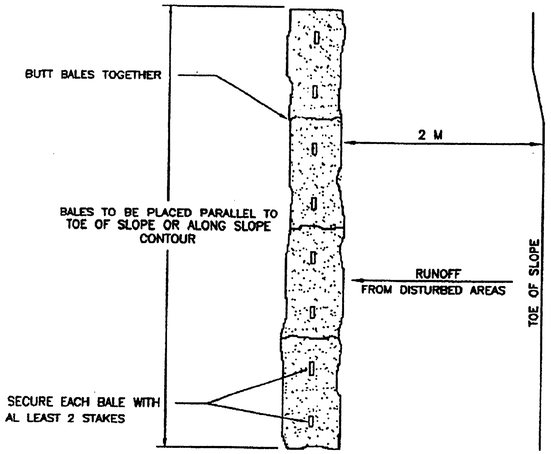
REVISIONS	SYMBOL	DATE	BY

DRAWN: JAD
DESIGNED: JAD
REVIEWED: ITI
DATE: May 30, 2024
PROJECT NO.: DTE23-003
SHEET NO.: SW3P-01

C:\Users_joseadelgado\onedrive - delgado torres engineering, llc\documents - projects\dte-2023-003 parking libertad street crp-048 jayuya\dte23-003 c3d\production drawings\sw3p-erosion control standards.dwg

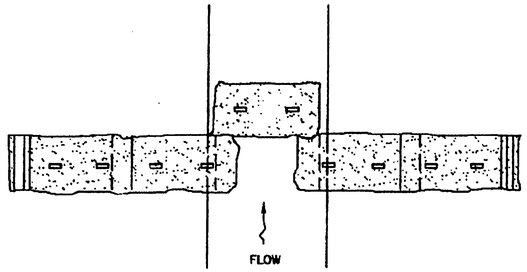


ELEVATION

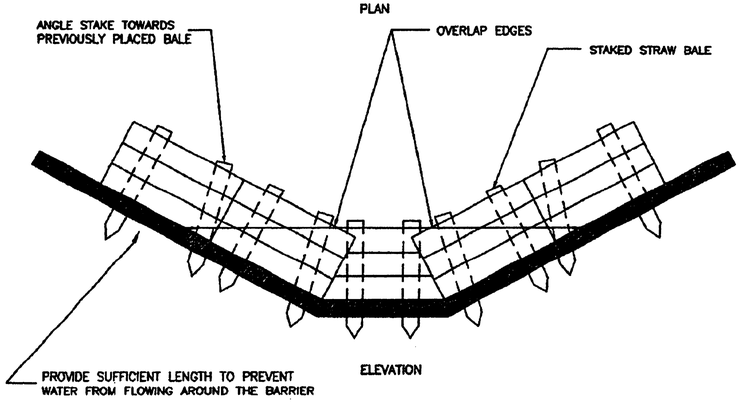


PLAN

INSTALLATION AT TOE OF FILL

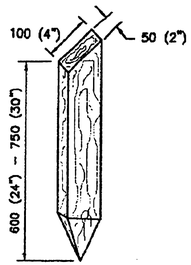


PLAN

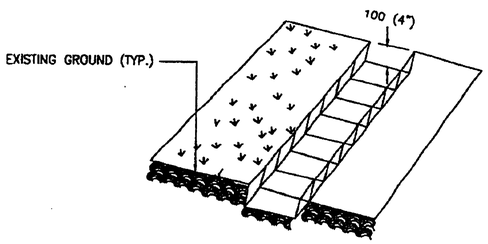


ELEVATION

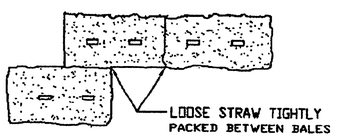
INSTALLATION IN A DRAINAGE DITCH



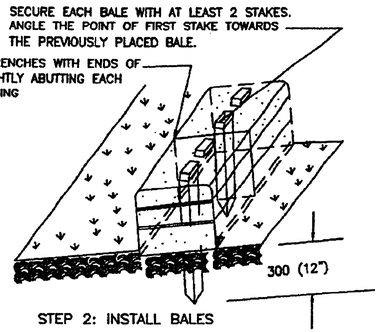
WOOD STAKE DETAIL



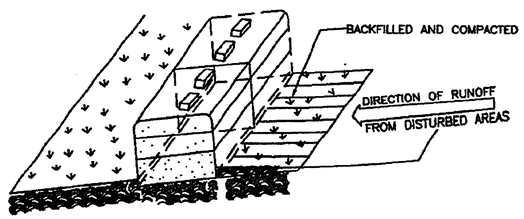
STEP 1: EXCAVATE TRENCH



STEP 3 : TIGHTLY PACK STRAW BETWEEN BALES
(PLAN VIEW OF BALES)



STEP 2: INSTALL BALES



STEP 4: BACKFILL SOIL AGAINST AREAS

STRAW BALE INSTALLATION

NOTES:

1- STRAW BALES SHALL BE CONSTRUCTED AT THE LOCATION INDICATED IN THE CONSTRUCTION PLANS.

2- USE STRAW BALES IN DRAINAGE DITCHES ONLY FOR LOW FLOW CONDITIONS AND WHEN SPECIFIED ON THE EROSION CONTROL PLANS.

3- INSTALL STRAW BALES ALONG THE CONTOUR LINE

4- EXCAVATION, BACKFILL AND STAKES ARE A SUBSIDIARY OBLIGATION.

5- STRAW BALES SHALL BE ENBEDDED IN THE SOIL AND WHERE POSSIBLE ONE-HALF THE HEIGHT OF THE BALE.

6- STRAW OR HAY BALES SHALL BE SECURELY ANCHORED IN PLACE WITH 4"X1" (100mmX25mm) WOOD STAKES, DRIVEN THROUGH THE BALES. THE FIRST STAKE SHALL BE ANGLED TOWARD THE PREVIOSLY LAID BALE TO FORCE THE BALES TOGETHER.

7- STRAW OR HAY BALES SHALL BE PLACED PARALLEL TO THE TOE OF SLOPE OR ALONG THE SLOPE CONTOUR.

8- EXCAVATION, BACKFILL AND STAKES ARE A SUBSIDIARY OBLIGATION.

9- STAKES SHALL PENETRATE AT LEAST 300 MM (12") INTO THE SOIL.

10- STRAW OR HAY BALES SHALL BE INSPECTED FOR DAMAGE WEEKLY AND AFTER RAINFALL. ANY DAMAGE OR DISPLACED BALES SHALL BE REPLACED IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAINFALL. NO ADDITIONAL PAYMENTS WILL BE MADE FOR SUCH MAINTENANCE WORK.

11- WHEN THE DISTURBED AREAS HAVE BEEN PROPERLY STABILIZED, THE BALES MAY BE REMOVED AND ANY REMAINING AREAS STABILIZED. THIS WORK WILL BE PERFORMED AS DIRECTED BY THE ENGINEER AS A SUBSIDIARY OBLIGATION.

12- ALL DIMENSIONS SHOWN ARE IN MILLIMITERS UNLESS OTHERWISE SPECIFIED.

EFFECTIVE DATE: OCTOBER 1998

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

EROSION CONTROL DEVICES
STRAW BALES

RECOMMENDED BY: _____
DESIGN AREA DIRECTOR
DATE : 12-7-98

APPROVED BY: _____
EXECUTIVE DIRECTOR
DATE : 12-9-98

APPROVED BY: _____
FHWA, ADM. FHWA-PR DIVISION
DATE : 12-9-98

DATE	REVISION	BY
08-24-1997	GENERAL REVISION	I.V.
05-07-1998	GENERAL REVISION	I.V.

STD. DWG. ER 2 OF 20

DELTORRE ENGINEERING
PLANNING SMART FOR A BETTER FUTURE
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

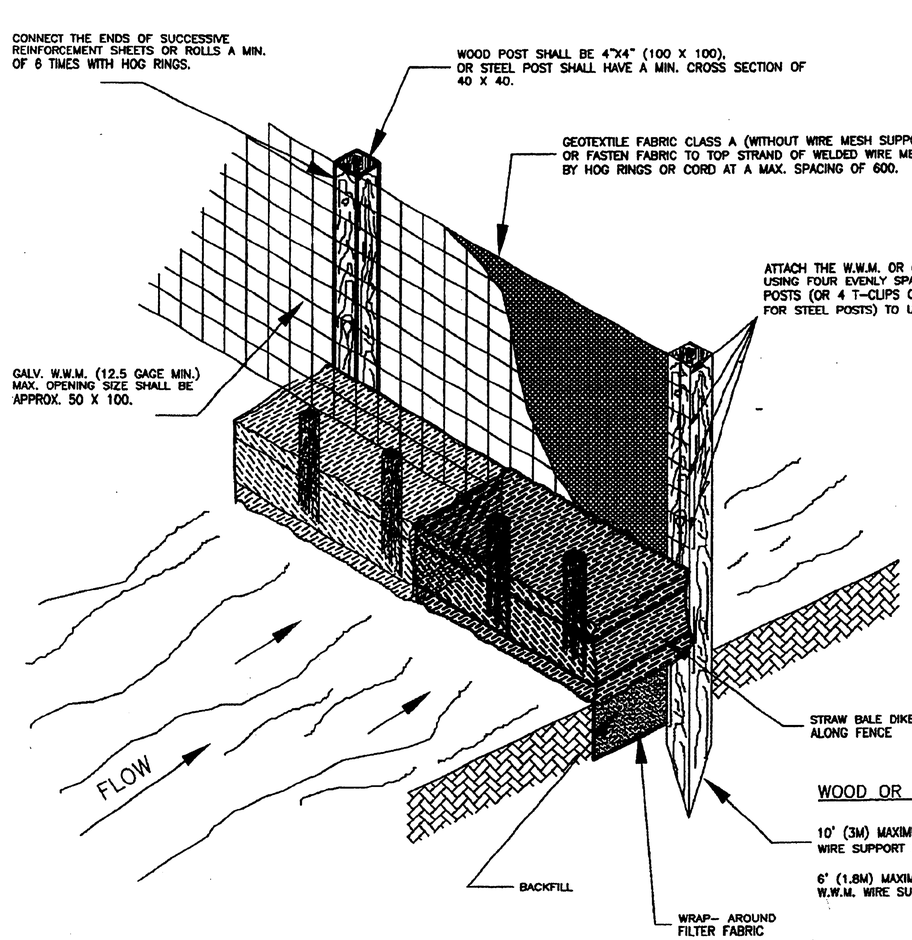
CRP-000048 PARKING
LIBERTAD STREET
JAYUYA, P.R.

EROSION CONTROL
STANDARD

REVISIONS	SYMBOL	DATE	BY

DRAWN: JAD
DESIGNED: JAD
REVIEWED: ITI
DATE: May 30, 2024
PROJECT NO.: DTE23-003
SHEET NO.: SW3P-02

C:\Users\JoseDelgado\OneDrive - delgado torres engineering, llc\Documents - Projects\dte-2023-003 parking libertad street crp-048 jayuya\dte23-003 c3d\production drawings\sw3p-erosion control standards.dwg



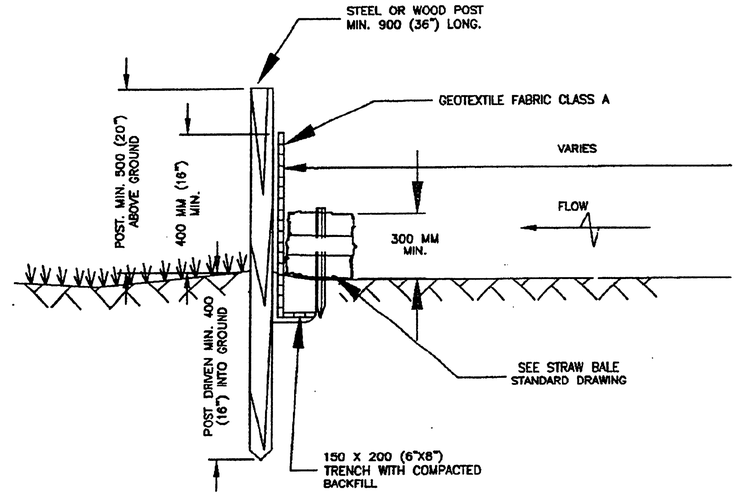
WOOD OR POST SPACING

10' (3M) MAXIMUM SPACING WITH W.W.M. WIRE SUPPORT FENCE

6' (1.8M) MAXIMUM SPACING WITHOUT W.W.M. WIRE SUPPORT FENCE

TEMPORARY SEDIMENT CONTROL FENCE

NOT TO SCALE



ELEVATION

NOT TO SCALE

NOTES

1- THIS DEVICE SHALL BE CONSTRUCTED AT THE LOCATION INDICATED IN THE CONSTRUCTION PLANS.

2- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE POUNDING EFFICIENCY.

3- THE CONTRACTOR SHALL BE RESPONSIBLE TO INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. MAXIMUM STORAGE HEIGHT SHALL NOT EXCED 255mm (9").

4- REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

5- SILT FENCE AND STRAWS BALES WILL BE PAID IN CONFORMANCE WITH STANDARD SPECIFICATION 210.

6- EXCAVATION, BACKFILL, STAKES STEEL OR WOOD POST, STAPLES, WELDED WIRE MESH AND INCIDENTALS ARE ARE SUBSIDIARY OBLIGATION.

7- STRAW OR HAY BALES SHALL BE INSPECTED FOR DAMAGE WEEKLY AND AFTER RAIFALL ANY DAMAGE OR DISPLACED BALES SHALL BE REPLACED INMEDIATELY. ACCUMULATE SEDIMENT SHLL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAINFALL. NO ADDITIONAL PAYMENTS SHALL BE MADE FOR SUCH MAINTENANCE WORK.

8- WHEN THE DISTURBED AREAS HAVE BEEN PROPERLY STABILIZED, THE BALE MAY BE REMOVED AND ANY REMAINING AREAS STABILIZED. THIS WORK WILL BE PERFORMED AS DIRECTED BY THE ENGINEER AS A SUBSIDISRY OBLIGATION.

9- ALL DIMENSION SHOWN ARE IN MILIMETERS UNLESS OTHERWISE SPECIFIED.

LEGEND:
W.W.M.= WELDED WIRE MESH

EFECTIVE DATE: OCTOBER 1998

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

EROSION CONTROL DEVICE
SILT FENCE WITH STRAW BALE DIKE

RECOMMENDED BY: DESIGN AREA DIRECTOR DATE: 12-1-98

APPROVED BY: EXECUTIVE DIRECTOR DATE: 12-11-98

APPROVED BY: DIV. ADM. FHWA-PR DIVISION DATE: 12-9-98

DATE	REVISION	BY
05-07-1998	GENERAL REVISION	LV.
08-31-1998	ADD NOTES	LV.

STD. DWG. ER 3 OF 20

DELTORRE ENGINEERING
PLANNING SMART FOR A BETTER FUTURE
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

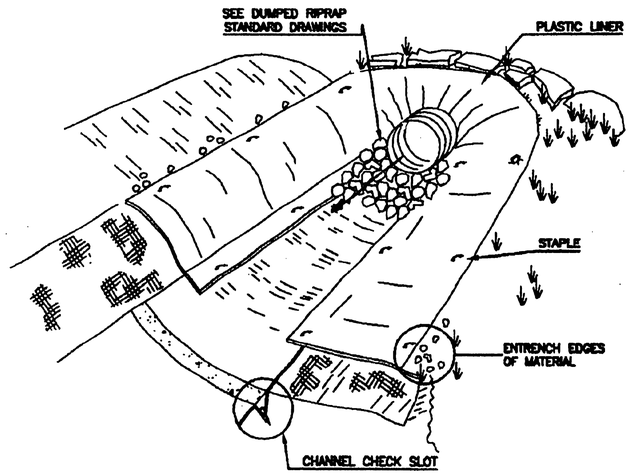
CRP-000048 PARKING
LIBERTAD STREET
JAYUYA, P.R.

EROSION CONTROL STANDARD

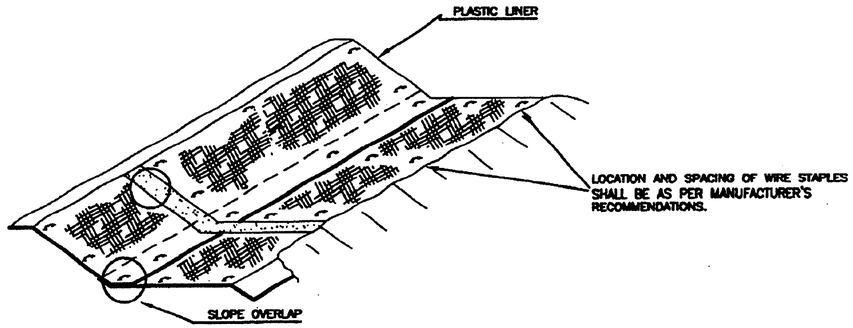
REVISIONS	SYMBOL	DATE	BY

DRAWN: JAD
DESIGNED: JAD
REVIEWED: ITI
DATE: May 30, 2024
PROJECT NO.: DTE23-003
SHEET NO.: SW3P-03

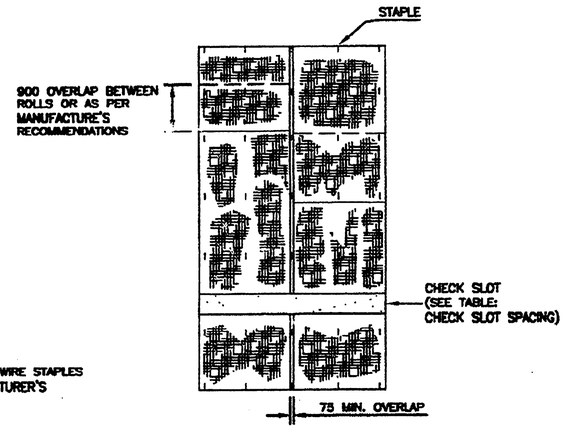
C:\Users\Jose\delgado\OneDrive - delgado torres engineering, llc\documents - projects\dte2023-003 parking libertad street crp-048 jayuya\dte23-003 c3d\production drawings\sw3p-erosion control standards.dwg



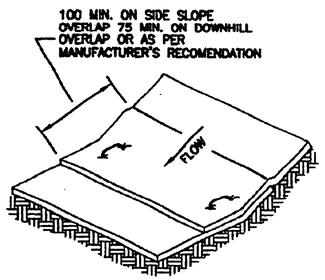
PIPE OUTLET INSTALLATION



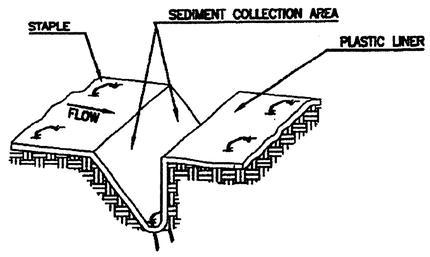
V DITCH INSTALLATION



PLAN VIEW
STAPLING DIAGRAM

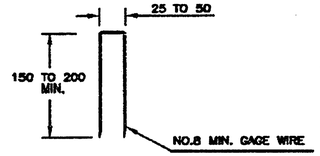


SLOPE OVERLAP



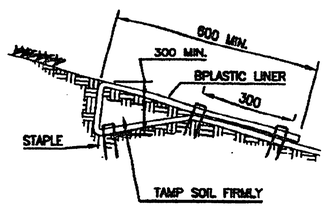
CHECK SLOT

CHECK SLOT SPACING	
SLOPE	SPACING
LESS THAN 4%	30 M
4% OR MORE	15 M

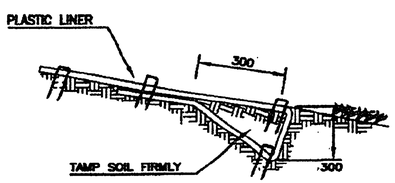


200 STAPLE MINIMUM LENGTH FOR SANDY SOIL.
150 STAPLE MINIMUM LENGTH FOR OTHER SOIL.

WIRE STAPLE DETAIL



UPPER TERMINAL ANCHOR



LOWER TERMINAL ANCHOR

NOTE:

1. PLASTIC LINER SHALL CONFORM TO THE REQUIREMENTS OF STANDARD SPECIFICATION 210 – SOIL EROSION AND WATER POLLUTION CONTROL.
2. CHECK SLOT TO BE CONSTRUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION FOR PREFERRED INSTALLATION.
3. ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

EFFECTIVE DATE: OCTOBER 1998

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

EROSION CONTROL
SLOPE PROTECTION
PLASTIC LINER INSTALLATION

RECOMMENDED BY: [signature]
DESIGN AREA DIRECTOR
DATE: Dec. 1, 98

APPROVED BY: [signature]
EXECUTIVE DIRECTOR
DATE: 8-XII-98

APPROVED BY: [signature]
ENV. ADM. FHWA-PR DIVISION
DATE: 12-8-98

DATE	REVISION	BY

STD. DWG. ER 17 OF 20

DELTORRE ENGINEERING
PLANNING SMART FOR A BETTER FUTURE
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CRP-000048 PARKING
LIBERTAD STREET
JAYUYA, P.R.

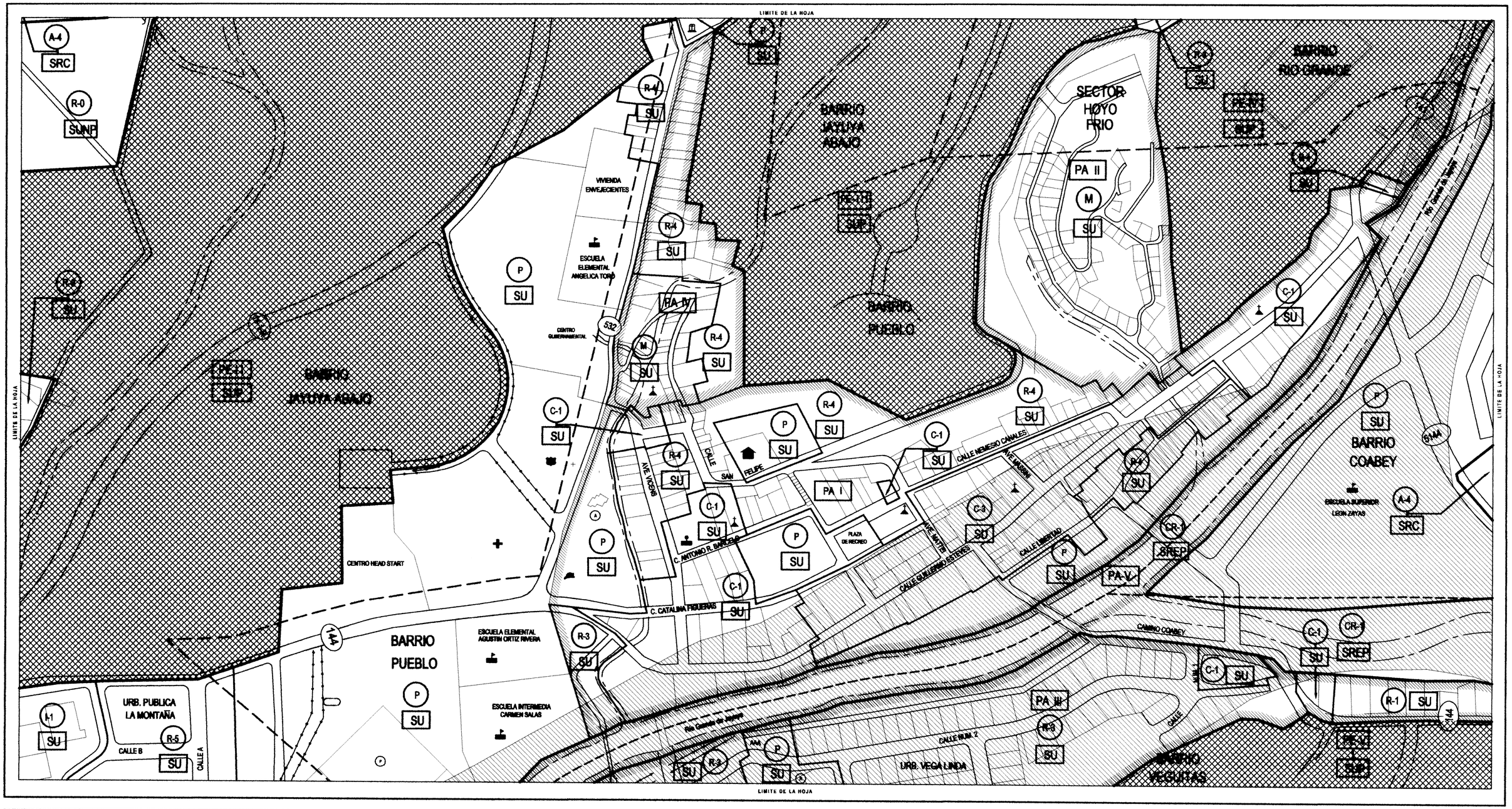
EROSION CONTROL STANDARD

REVISIONS	SYMBOL	DATE	BY

DRAWN: JAD
DESIGNED: JAD
REVIEWED: ITI
DATE: May 30, 2024
PROJECT NO.: DTE23-003
SHEET NO.: SW3P-04

C:\Users\joseadelgado\Onedrive - delgado torres engineering, llc\documents - projects\dte-2023-003 parking libertad street crp-048 jayuya\dte23-003 c3d\production drawings\sw3p-erosion control standards.dwg

Attachment 3:
Municipality of Jayuya Land Use Map



CERTIFICACION

ADOPTADO POR LA JUNTA DE PLANIFICACION DE PUERTO RICO

21 FEB 2003

SECRETARIA — FECHA

CERTIFICACION

APROBADO POR EL GOBIERNO MUNICIPAL DE JAYUYA

HON. JORGE L. GONZALEZ OTERO, ALCALDE DE JAYUYA — 18 - octubre - 03 — FECHA

FRANCISCO J. TORRES PAGAN, PRESIDENTE ASAMBLEA LEGISLATIVA MUNICIPAL — 18 - octubre - 03 — FECHA

WILDA RIVERA GONZALEZ, SECRETARIA ASAMBLEA LEGISLATIVA MUNICIPAL — 18 - octubre - 03 — FECHA

VIGENCIA DE 13 - 05 - 2003
mes / día

PLAN DE ORDENACION TERRITORIAL MUNICIPIO DE JAYUYA

MAPA DE CALIFICACION

ESCALA 1:2,000

0 50 100 200

METROS

NOTA: PARA EL ANALISIS DE PROYECTOS EN ZONAS SUSCEPTIBLES A INUNDACIONES, PREVALECERAN LOS MAPAS VIGENTES DE LA JUNTA DE PLANIFICACION DE PUERTO RICO

LEYENDA

LIMITES Y REFERENCIAS

- LIMITE DEL MUNICIPIO
- LIMITE DE LOS BARRIOS
- LIMITE DE DISTRITO DE CLASIFICACION
- LIMITE DE DISTRITO DE CALIFICACION
- LIMITE DE LOS LOTES
- CUERPOS DE AGUA
- CARRETERAS PRINCIPALES
- CAMINOS EN TIERRA
- VIAS PROPUESTAS (RENACE JAYUYA)
- ZONA INUNDABLE 1
- ZONA INUNDABLE 2
- BOSQUE
- PE — PLAN DE ENSANCHE PROPUESTO
- PA — PLAN DE AREA PROPUESTO

CLASIFICACION

- SU — SUELO URBANO
- SUP — SUELO URBANIZABLE PROGRAMADO
- SUNP — SUELO URBANIZABLE NO PROGRAMADO
- SRC — SUELO RUSTICO COMUN
- SREP — SUELO RUSTICO ESPECIALMENTE PROTEGIDO

DOTACIONES

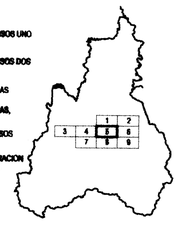
- A — ALCALDIA
- C — CARCEL DE MUNICIPIO
- CP — CENTRO DE ENVEJECIENTES
- CC — CENTRO COMERCIAL
- GN — GUARDIA NACIONAL
- P — PARQUE DE PELOTA
- PL — PLAZA
- PM — PLAZA DEL MERCADO
- R — PARQUE DE RECREACION PASIVA
- AAA — AUTORISMO DE ACUEDUCTO
- AEE — AUTORISMO DE ENERGIA ELECTRICA
- BM — BIBLIOTECA MUNICIPAL
- CEMENTERIO
- CENTRO COMUNAL
- CENTRO DE SALUD
- COMPLEJO DEPORTIVO
- DEFENSA CIVIL
- ESCUELA
- ESTACION DE RADIO
- ESTACION POSTAL
- BOMBEROS
- GUARDERIA INFANTIL
- IGLESIA
- INDUSTRIAS
- PLANTA DE TRATAMIENTO
- POLICIA
- MONUMENTO
- MUSEO
- CAMPAMENTO PENAL
- PARADOR

DISTRITOS DE CALIFICACION (ZONIFICACION)

- R-0 — RESIDENCIAL DE BAJA DENSIDAD POBLACIONAL CON SOLAR MIN. DE OCHO MIL (8,000) METROS CUADRADOS
- R-1 — RESIDENCIAL DE BAJA DENSIDAD POBLACIONAL CON SOLAR MIN. DE NOVECIENTOS (900) METROS CUADRADOS
- R-2 — RESIDENCIAL DE BAJA DENSIDAD POBLACIONAL CON SOLAR MIN. DE CUATROCIENTOS CINCUENTA (450) METROS CUADRADOS
- R-3 — RESIDENCIAL GENERAL CON SOLAR MIN. DE TRESCIENTOS (300) METROS CUADRADOS
- R-4 — RESIDENCIAL GENERAL CON SOLAR MIN. DE DOSCIENTOS CINCUENTA (250) METROS CUADRADOS
- R-5 — RESIDENCIAL DE APARTAMENTOS CON ALTA DENSIDAD POBLACIONAL Y SOLAR MIN. DE CUATROCIENTOS (400) METROS CUADRADOS
- R-6 — RESIDENCIAL DE APARTAMENTOS CON ALTA DENSIDAD POBLACIONAL (ZONAS HISTORICAS)
- RC-1 — RESIDENCIAL COMERCIAL (DISTRITO SOBREPUESTO)
- CO-1 — COMERCIAL DE OFICINAS UNO
- CO-2 — COMERCIAL DE OFICINAS DOS
- C-L — COMERCIAL LIVIANO
- C-1 — COMERCIAL LOCAL
- C-2 — COMERCIAL CENTRAL INTERMEDIO
- C-3 — COMERCIAL CENTRAL
- C-4 — CENTROS DE MERCADEO
- C-5 — CENTROS DE RECREACION COMERCIAL EXTENSA
- C-6 — COMERCIAL DE SERVICIOS COMUNALES
- I-1 — INDUSTRIAL INDUSTRIAS LIVIANAS
- I-L1 — INDUSTRIAL INDUSTRIAS LIVIANAS LIMITADAS
- I-2 — INDUSTRIAL INDUSTRIAS PESADAS
- I-L2 — INDUSTRIAL INDUSTRIAS PESADAS LIMITADAS
- M — A MEJORARSE
- P — USO PUBLICO
- RT-5 — RESIDENCIAL TURISTICO DE MUY BAJA INTENSIDAD CON SOLAR MIN. DE 2,000 METROS CUADRADOS
- RT-6 — RESIDENCIAL TURISTICO DE MUY BAJA INTENSIDAD CON SOLAR MIN. DE 4,000 METROS CUADRADOS
- RT-1 — RESIDENCIAL TURISTICO DE BAJA INTENSIDAD CON SOLAR MIN. DE 900 METROS CUADRADOS
- RT-2 — RESIDENCIAL TURISTICO DE SEMI-BAJA INTENSIDAD CON SOLAR MIN. DE 450 METROS CUADRADOS
- RT-3 — RESIDENCIAL TURISTICO DE INTENSIDAD INTERMEDIA CON SOLAR MIN. DE 300 METROS CUADRADOS
- RT-4 — RESIDENCIAL TURISTICO DE INTENSIDAD SEMI-ALTA CON SOLAR MIN. DE 250 METROS CUADRADOS
- RT-5 — RESIDENCIAL TURISTICO DE ALTA INTENSIDAD CON SOLAR MIN. DE MIL METROS CUADRADOS
- CT-1 — COMERCIAL TURISTICO EN SOLAR PEQUEÑO, CON USOS DIRIGIDOS A TURISTAS Y RESIDENTES
- CT-2 — COMERCIAL TURISTICO EN SOLAR PEQUEÑO, CON USOS DIRIGIDOS A TURISTAS Y RESIDENTES
- CT-3 — COMERCIAL TURISTICO
- CT-4 — COMERCIAL TURISTICO
- AD — AREAS DESARROLLADAS
- A-1 — AGRICOLA MECANIZABLE
- A-2 — AGRICOLA GENERAL
- A-3 — AGROPECUARIO
- A-4 — RURAL GENERAL
- B-1 — BOSQUES DE INTERIORES
- B-2 — BOSQUE DE MANGLE
- B-3 — BOSQUES SECOS
- CR-1 — CONSERVACION DE RECURSOS UNO
- CR-2 — CONSERVACION DE RECURSOS DOS
- CR-3 — CONSERVACION DE CUENCAS
- CR-4 — CONSERVACION DE CUENCAS, CAVERNAS Y SUMIDEROS
- CR-5 — CONSERVACION DE RECURSOS ARQUEOLOGICOS
- CR-6 — CONSERVACION Y RESTAURACION DE RECURSOS HISTORICOS
- DM — DESARROLLOS MINEROS
- DS — DESARROLLO SELECTIVO
- DTD — DESARROLLO TURISTICO SELECTIVO
- PR — PRESERVACION DE RECURSOS
- RE — RUTA ESCENICA

INDICE DE HOJAS

ESCALA 1:2,000



HOJA NUM. 5

Attachment 4:
Municipality of Jayuya
Socioeconomic Factors

Estado Libre Asociado de Puerto Rico
Oficina del Contralor

Municipio de Jayuya
INDICADORES SOCIOECONÓMICOS[1]

Extensión territorial del Municipio: ***39.27 Millas Cuadradas*** ***Posición en extensión #41/ 78***

FIPS 073[2]

Dirección en Internet de OCPR: http://www.ocpr.gov.pr

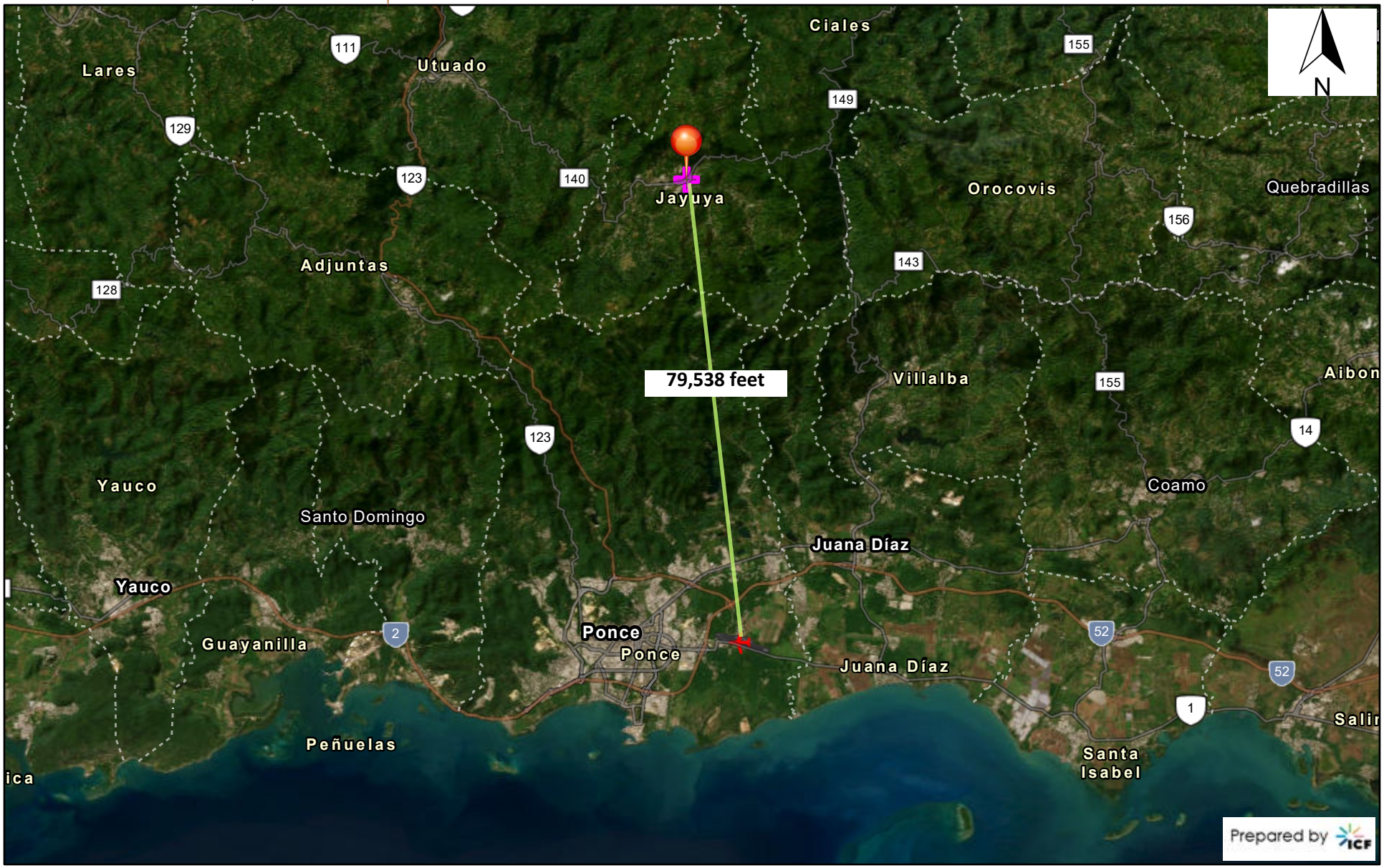
I. Información General	***Unidad***	***Censo 2020***	***Censo 2010***	***Puerto Rico Censo 2020***
Población [3]	Habitantes	14,779	16,642	3,285,874
Densidad poblacional	Habitantes/m2	376	424	961
Población menor de 18 años [4]	Por ciento	19.2	27.5	19.5
Población entre 18 y 65 años [4]	Por ciento	61.2	51.9	60.8
Población mayor de 65 años [4]	Por ciento	11.3	8.2	19.7
II. Características de la Población	***Unidad***	***Censo 2020***	***Censo 2010***	***Puerto Rico Censo 2020***
Ingreso per cápita [4]	Dólares	$ 7,308	$ 6,976	$ 12,914
Población debajo del nivel de pobreza (Individuos 18 años o más) [4]	Por ciento	61.0	48.9	44.1
Población 25 años o más graduada de escuela superior o más [4]	Por ciento	75.6	63.7	78.8
III. Encuesta de Grupo Trabajador (Departamento del Trabajo y Recursos Humanos)	***Unidad***	***Año natural 2022***	***Año natural 2023***	***Cambio Porcentual***
Grupo trabajador	En miles	4,625	4,760	2.9
Empleo total	En miles	4,257	4,300	1.0
Desempleo	En miles	368	460	25.0
Tasa de desempleo	Por ciento	8.0	9.7	21.3
IV. Gobierno Municipal	***Unidad***	***Año fiscal 2020-21***	***Año fiscal 2021-22***	***Año fiscal 2022-23***
Finanzas:				
Ingreso total, según los presupuestos aprobados:	Dólares	$ 5,727,234	$ 5,891,608	$ 6,193,576
Patentes municipales	Dólares	$ 1,319,622	$ 1,000,000	$ 805,562
Contribución sobre la propiedad	Dólares	$ 906,562	$ 1,087,431	$ 1,132,782
Otros ingresos	Dólares	$ 3,501,050	$ 3,804,177	$ 4,255,232
Gastos corrientes, según los presupuestos aprobados	Dólares	$ 1,619,277	$ 1,865,021	$ 3,377,238
Nómina [5]	Dólares	$ 4,107,957	$ 4,026,587	$ 2,816,338
Según los estados financieros auditados:				
Exceso (deficiencia) de ingresos sobre gastos del año fiscal	Dólares	$ 399,412	$ (362,208)	$ 1,073,655
Superávit o (déficit) al cierre del año fiscal	Dólares	$ 830,752	$ 392,190	$ 842,636
Importe fondos federales recibidos	Dólares	$ 20,046,212	$ 768,609	$ 2,620,226
Ingreso Impuesto sobre Venta y Uso (IVU)	Dólares	$ 1,675,260	$ 1,756,979	$ 1,810,707
Deuda pública municipal, según el AAFAF [6]	Dólares	$ 7,433,880	$ 7,028,079	$ 6,605,679
Según certificado por el Municipio:				
Empleo total del Municipio	Personas	528	529	610
De confianza	Personas	13	14	12
Regulares	Personas	42	34	25
Transitorios	Personas	6	6	6
Irregulares	Personas	467	475	567

[1] Véanse en nuestra página de Internet las definiciones de términos de los Indicadores de Municipios. Al igual Documentos Relacionados.
[2] Federal Information Processing Standard (FIPS)
[3] Para los datos actualizados de población puede acceder a la página del U.S. Census Bureau http://www.census.gov/popest/index.html
[4] Datos del 2010 y 2020 son del American Community Survey - US Census
[5] El importe incluye los beneficios marginales. Los datos de los años 2020-21 y 2021-22 fueron modificados para incluir dichos beneficios.
[6] AAFAF (Autoridad de Asesoria Financiera y Agencia Fiscal de Puerto Rico incluye deuda al banco y banca privada)
Revisado: 11 de marzo de 2025

Attachment 5:
Airport Hazards

PR-CRP-000048 Civil Airports Map

Address: Libertad Street and PR-141, Jayuya, PR 00664
Coordinates: 18.219837°, -66.589825°



August 22, 2025

Search Result (point)

Airport Polygons

Airport Points

Source: EPA NEPAssist

1:288,895

0 2.25 4.5 9 mi

0 3.75 7.5 15 km

Earthstar Geographics, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, EPA

PR-CRP-000048 Military Airports Map

Address: Libertad Street and PR-141, Jayuya, PR 00664
Coordinates: 18.219837°, -66.589825°



August 22, 2025

Search Result (point)

Airport Polygons

Airport Points

Source: EPA NEPAssist

1:577,791

0 4.75 9.5 19 mi

0 5 10 20 km

Earthstar Geographics, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, EPA

Attachment 6:
Coastal Barrier Resources

Coastal Barrier Resources Map - PR-CRP-000048

Project: Parking at Libertad Street

Address: Libertad Street and PR-141 (Guillermo Esteves Street)
Municipality of Jayuya, Puerto Rico

Coordinates: 18.219837°, -66.589825° (WGS 1984)

EES





Legend

- Project Location
- 18.219837, -66.589825
- Municipalities
- CBRS Buffer Zone
- CBRS Prohibitions
- Otherwise Protected Area
- System Unit
- Generalized Units
- CBRS Map Panels

N

Scale: 1: 200,000

1 inch equals 5.08 kilometers

2.5 0 2.5 5 km

Spatial Reference:
NAD 1983 State Plane Puerto Rico Virgin Islands FIPS 5200 meters

Sources:
PRITS Web Feature Services (http://geoserver2.pr.gov/geoserver/pr_geodata/wfs). CBRS (https://gis1.wim.usgs.gov/server/rest/services/CBRSMapper/CoastalBarrierResourcesSystem/). Hexagon AB Satellite Imagery Service.

Attachment 7:
Flood Insurance

FEMA National Flood Hazard Layer Map - PR-CRP-000048

Project: Parking at Libertad Street

Address: Libertad Street and PR-141 (Guillermo Esteves Street)
Municipality of Jayuya, Puerto Rico

Coordinates: 18.219837°, -66.589825° (WGS 1984)

EES





Legend

- Project Location
- Project Footprint
- 18.219837 -66.589825
- Municipalities

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area with Risk Due to Levee

N

Scale: 1:1,000

1 inch equals 0.03 kilometers

10 0 10 20 m

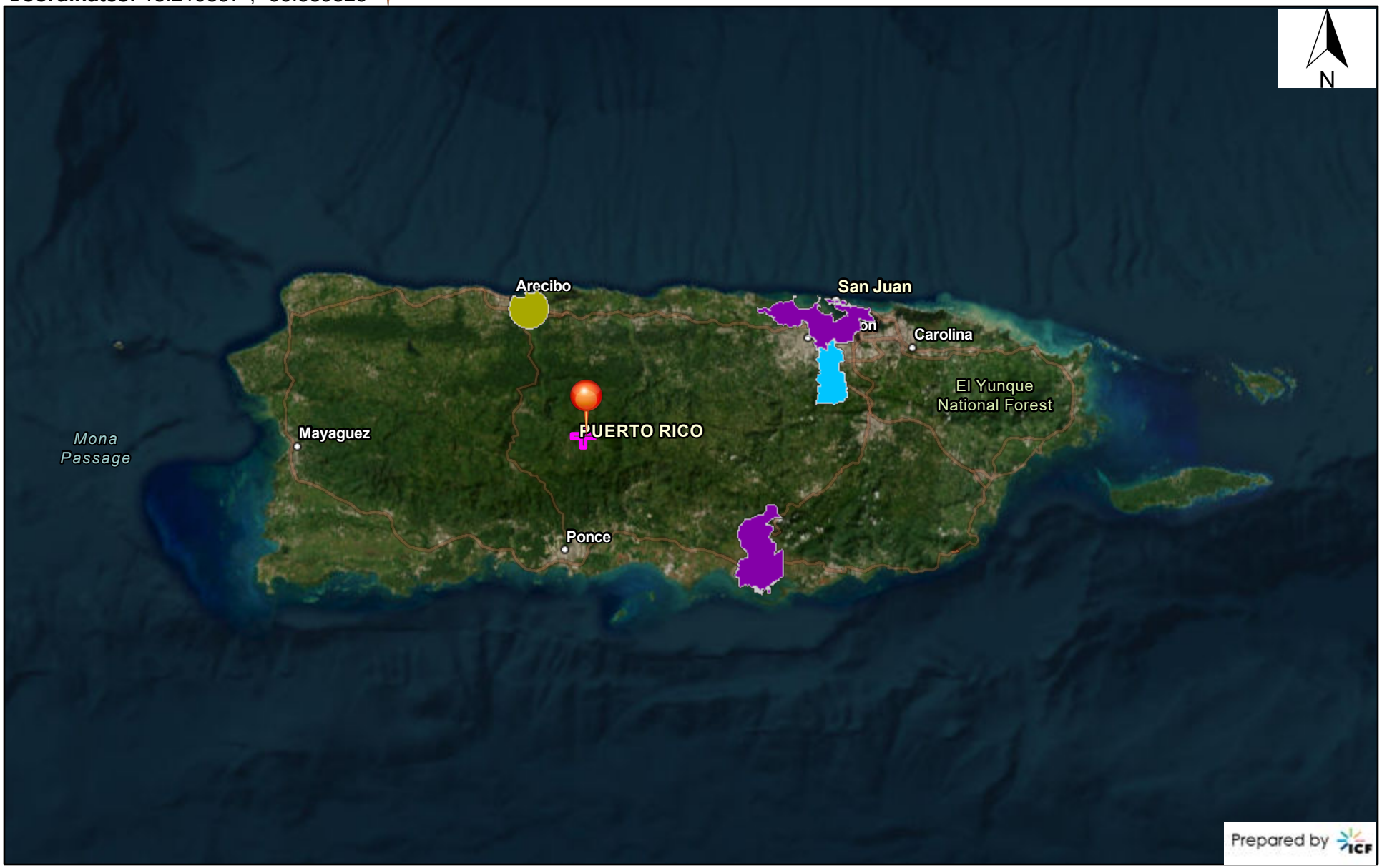
Spatial Reference:
NAD 1983 State Plane Puerto Rico Virgin Islands FIPS 5200 meters

Sources:
PRITS WFS Server (http://geoserver2.pr.gov/geoserver/pr_geodata/wfs).
FEMA NFHL Data (https://hazards.fema.gov/arcgis/rest/services/public/NFHL/MapServer). 2022 Hexagon AB Imagery BasemapService .

Attachment 8:
Clean Air

PR-CRP-000048 Clean Air Map

Address: Libertad Street and PR-141, Jayuya, PR 00664
Coordinates: 18.219837°, -66.589825°



August 22, 2025

Search Result (point)

SO2 1-hr (2010 standard)
Nonattainment

PM10 (1987 standard)
Maintenance

Lead (2008 standard)
Nonattainment

Source: EPA NEPAssist

1:1,155,581

0 5 10 20 mi

0 15 30 60 km

Earthstar Geographics, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, U.S.

Puerto Rico Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants

Data is current as of July 31, 2025

Listed by County, NAAQS, Area. 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 1997 Primary Annual PM-2.5 NAAQS (level of 15 μg/m^3) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

Change the State:
PUERTO RICO GO

Important Notes

Download National Dataset: dbf | xls | Data dictionary (PDF)

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)
PUERTO RICO							
Arecibo Municipio	Lead (2008)	Arecibo, PR	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	/ /		Part	32,185
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	/ /		Part	22,921
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	/ /		Whole	28,140
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09	02/11/2010	Moderate	Part	90,470
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	/ /		Part	23,802
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	18 19 20 21 22 23 24 25	/ /		Part	23,401
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	/ /		Part	147,963
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	/ /		Part	52,441

Important Notes

Attachment 9:
Coastal Zone Management

Coastal Zone Map - PR-CRP-000048

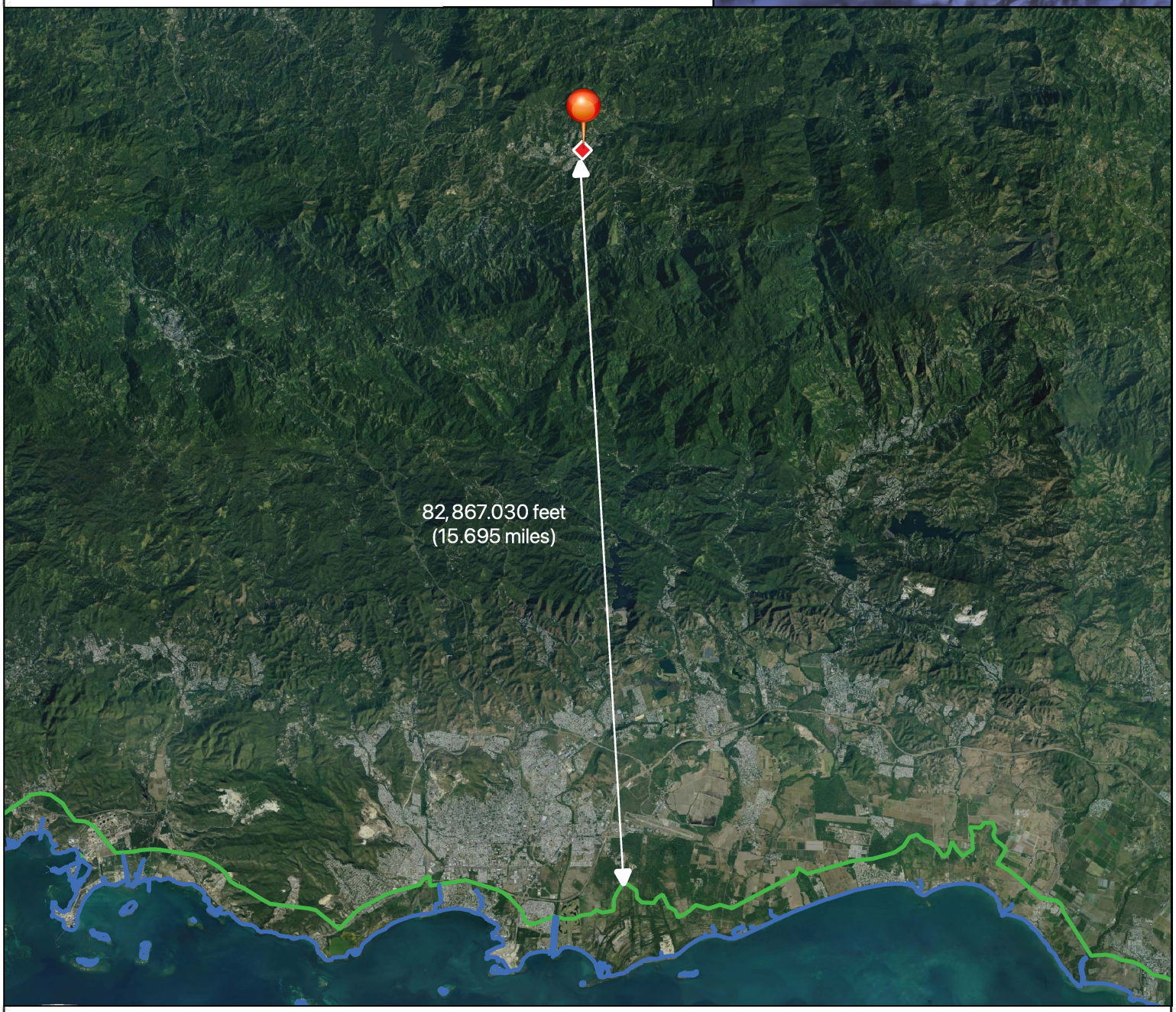
Project: Parking at Libertad Street

Address: Libertad Street and PR-141 (Guillermo Esteves Street)
Municipality of Jayuya, Puerto Rico

Coordinates: 18.219837°, -66.589825° (WGS 1984)

EES





Legend

- Project Location
- 18.219837, -66.589825
- Municipalities

Coastal Zones Boundaries (DNER,2010)

- Coastal Zone Inland Boundary
- Coastal Zone Maritime Boundary

N

Scale: 1: 200,000

1 inch equals 5.08 kilometers

2.5 0 2.5 5 km

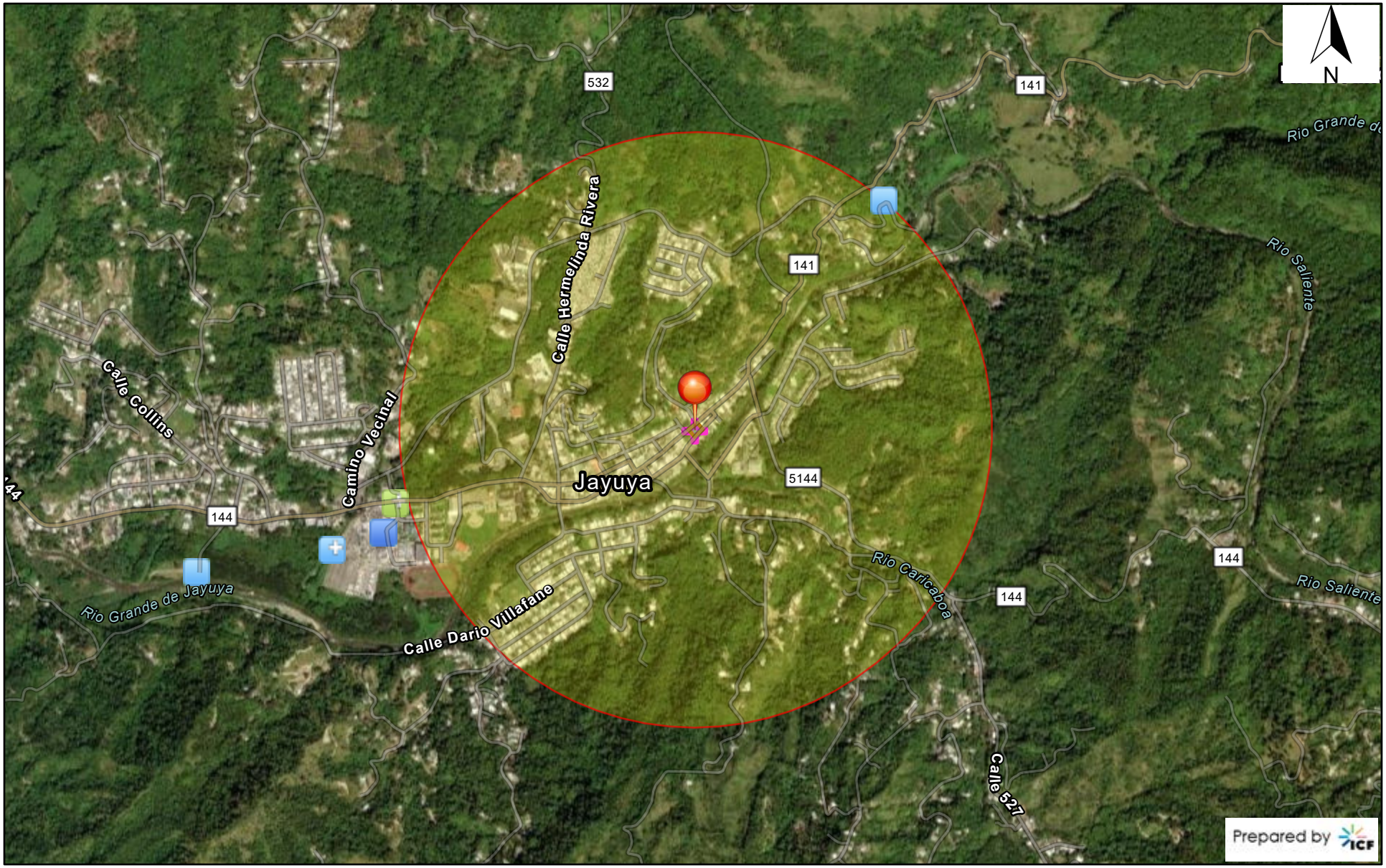
Spatial Reference:
NAD 1983 State Plane Puerto Rico Virgin Islands FIPS 5200 meters

Sources:
PRITS Web Feature Services; 2010 DNER Coastal Zone Boundaries (http://geoserver2.pr.gov/geoserver/pr_geodata/wfs). Hexagon AB Satellite Imagery Service.

Attachment 10: Contamination and Toxic Substances

PR-CRP-000048 EPA Facilities Map

Address: Libertad Street and PR-141, Jayuya, PR 00664
Coordinates: 18.219837°, -66.589825°



August 21, 2025

- Water Dischargers (NPDES)
- Water Dischargers (NPDES)
- Air Pollution (ICIS-AIR)
- Toxic Releases (TRI)
- Hazardous Waste (RCRAInfo)
- Hazardous Waste (RCRAInfo)
- Project Buffer (3,000 ft)
- Project Area
- Search Result (point)

1:18,056

0 0.13 0.25 0.5 mi

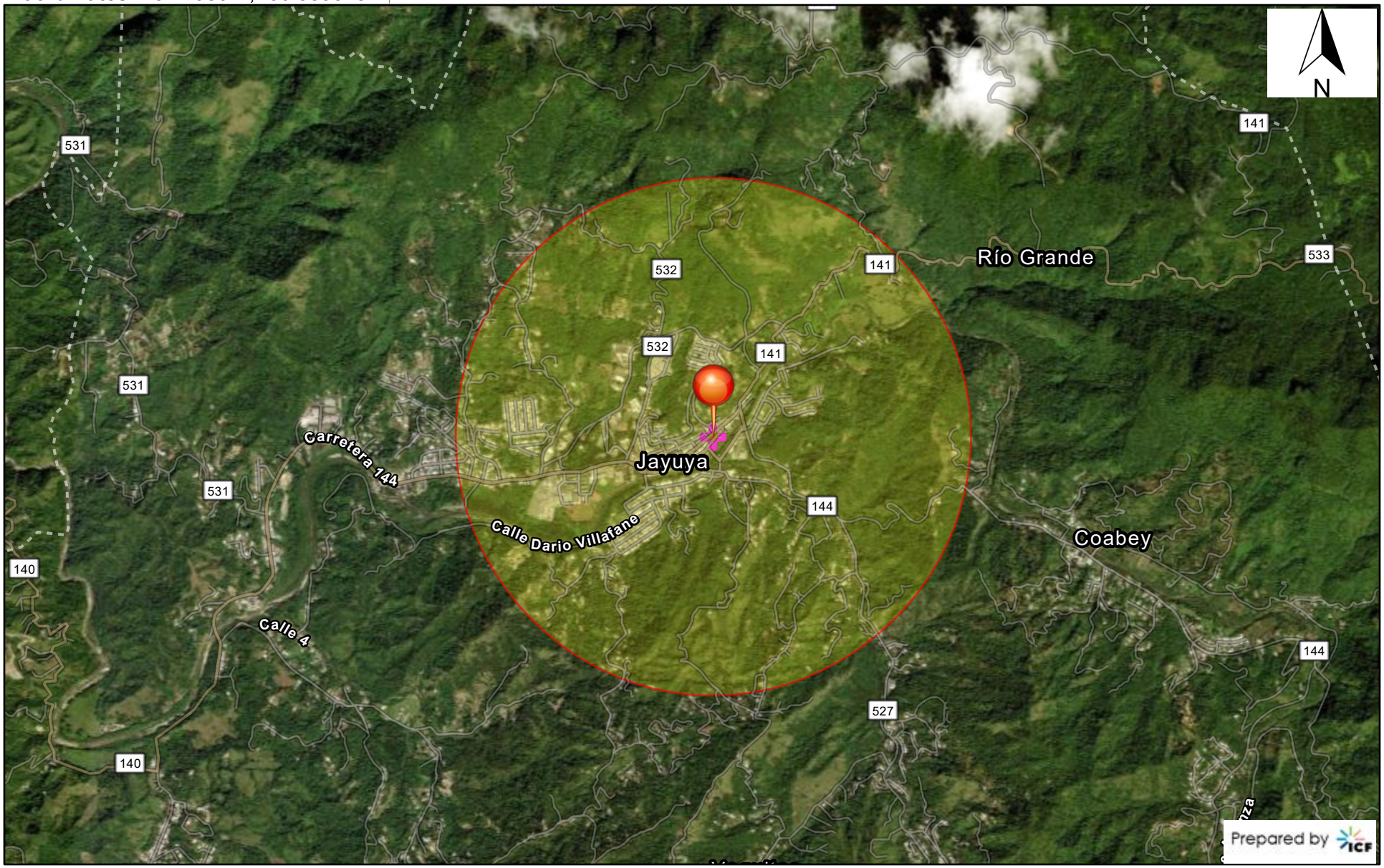
0 0.23 0.45 0.9 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar, U.S. EPA Office of Air and

Source: EPA NEPAssist

PR-CRP-000048 NPL & Brownfields Map

Address: Libertad Street and PR-141, Jayuya, PR 00664
Coordinates: 18.219837°, -66.589825°



August 21, 2025

Project Buffer (1 mile)

Project Area Search

Result (point)

1:36,112

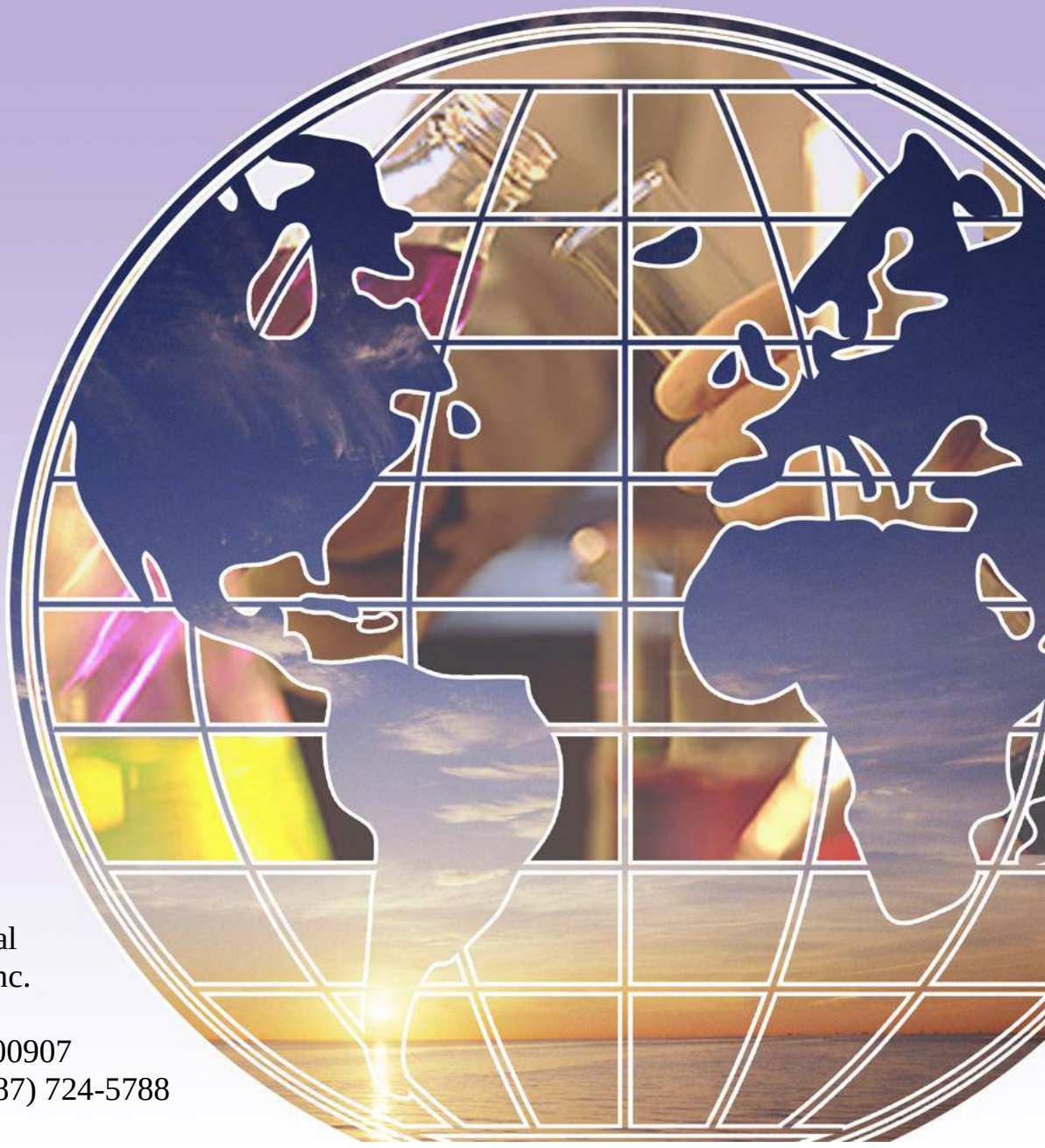
0 0.28 0.55 1.1 mi

0 0.45 0.9 1.8 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar, U.S. EPA Office of Air and

Source: EPA NEPAssist

ENVIRONMENTAL SURVEY
FOR
LEAD BASED PAINT (LBP)
AND
ASBESTOS CONTAINING MATERIALS (ACM)
FOR
JAYUYA URBAN CENTER, SIDEWALKS AND PUBLIC PARKING LOT
JAYUYA, PUERTO RICO



Prepared For:
Del Torre Engineering

November 2024

Analytical Environmental
Services International, Inc.
611 Monserrate Street
2nd Floor, Santurce, PR 00907
(787) 722-0220 / Fax (787) 724-5788

AES International Inc.

LEAD



TABLE OF CONTENTS

I. SUMMARY

1.0 INTRODUCTION

2.0 TESTING PROCEDURES

3.0 LEAD BASED PAINT TESTING METHODOLOGY

4.0 RESULTS

5.0 CONCLUSIONS

APPENDIX I - AESI Credentials

APPENDIX II - PCS Data Sheet

APPENDIX III - XRF Data

APPENDIX IV - Site Location and Selective Photos

APPENDIX V - Lead Based Paint Component Location

I. SUMMARY

Analytical Environmental Services International, Inc. (AES International) was contracted to perform a Lead Based Paint (LBP) survey for Jayuya Urban Center. The subject of the survey consists of the sidewalks of streets Hoyo Frío, Nemesio Canales, Mattei, Massini, Torrado, San Felipe, Catalino Figueroa, Guillermo Esteves, Libertad, states roads PR-141, PR-144, PR-532, Río Jayuya pedestrian bridge (Camino Ventana al Río) and a public parking lot on Libertad Street. The LBP inspection was conducted on 10/10, 10/14 and 10/15/2024 by Elme Rivera, a DRNA/EPA Certified LBP Risk Assessor.

The following components were found to be painted with LBP:

Structure/Room	Components	Substrate	Color	Quantity*
JAYUYA URBAN CENTER				
Public Parking				
Lower Level (East)	Floor Lines (10)	Asphalt	Yellow	160 ln.ft.
	Wheel Stops (10)	Concrete	Yellow	80 sq.ft.
Upper Level	Left Curb	Concrete	Yellow	70 sq.ft.
	Floor Lines	Asphalt	Blue/Yellow	16 ln.ft.
	Floor Lines (8)	Asphalt	Yellow	128 ln.ft.
	Wheel Stops (9)	Concrete	Yellow	72 sq.ft.
Sidewalks				
Hoyo Frío Street	Left Curbs	Concrete	Yellow	120 sq.ft.
	Right Curbs	Concrete	Yellow	30 sq.ft.
Hoyo Frío Street, front of Basketball Court	Right Curb	Concrete	Yellow	12 sq.ft.
PR-141, Km. 0.4 to 0.3	Water Hydrant	Metal	Yellow	1 Unit
PR-141, Km. 0.3 to 0.2	Left Curb Ramp	Concrete	Yellow	♣
	Left Curbs	Concrete	Yellow	
	Right Curbs	Concrete	Yellow	

PR-141, Km. 0.2	Sidewalk Floor Lines, Right	Concrete	Yellow	♣
	Light Post, Right	Wood	Brown	
	Light Post, Right	Concrete	Brown	
	Right Curbs	Concrete	Yellow	
	Light Post, Left	Wood	Gray	
	Light Post, Left Lower	Metal	Red	
PR-141, Km. 0.1	Light Posts, Left (4)	Wood	Brown	♣
	Left Curbs	Concrete	Yellow	
	Water Hydrant	Metal	Yellow	1 Unit
PR-141, Km. 0.1 to 0.0	Left Curbs	Concrete	White	♣
	Left Curbs	Concrete	Yellow	
	Light Post, Right (2)	Concrete	Gray	
	Right Curbs	Concrete	Yellow	
	Sidewalk Line	Concrete	Yellow	4 sq.ft.
PR-144	Water Hydrant, Left	Metal	Yellow	1 Unit
	Right Curbs	Concrete	Yellow	700 sq.ft.
	Left Curbs	Concrete	Yellow	
	Bridge Curb, Right	Concrete	Yellow	
	Right Curbs	Concrete	White	
PR-532, Km. 0.0 to 0.6	Left Curbs	Concrete	Yellow	400 sq.ft.
	Right Curbs	Concrete	Yellow	
	Manhole, Right	Metal	Yellow	
Catalino Figueroa Street	Water Register	Concrete	Yellow	680 sq.ft.
	Left Curbs	Concrete	Yellow	
	Bridge Curb, Left	Concrete	Yellow	
	Bridge Barriers, Left (9)	Concrete	White	
	Right Curb	Concrete	Yellow	
	Right Curb	Concrete	White	
	Bridge Curb, Right	Concrete	Yellow	
	Bridge Barriers, Right	Concrete	White	
	Water Hydrant	Metal	Yellow	1 Unit
	Water Hydrant, Left	Metal	White/Yellow	1 Unit

			Red/Black	
Massini Street	Left Curbs	Concrete	Yellow	110 sq.ft.
San Felipe Street	Guardrail, Left	Metal	Yellow	30 sq.ft.
	Left Curbs & Ramp	Concrete	Yellow	48 sq.ft.
	Right Curbs	Concrete	Yellow	38 sq.ft.
	Water Hydrant, Left	Metal	Yellow	1 Unit
Nemesio Canales Street	Right Curbs	Concrete	Yellow	540 sq.ft.
Guillermo Estevez Street (PR-144)	Left Curbs	Concrete	Yellow	140 sq.ft.
	Right Curbs	Concrete	Yellow	
	Water Hydrant	Metal	White/Yellow Red/Black	1 Unit
Libertad Street	Left Curbs	Concrete	Yellow	200 sq.ft.
	Right Curbs	Concrete	Yellow	
	Ramps, Left	Concrete	Yellow	

**** Quantities presented are approximate estimates.***

♣ These Components are approximately 2,600 sq.ft. in total.

If demolition, or renovation activities, are conducted in the nearest future it is recommended to establish a lead hazard control strategy that will account for the potential LBP risks present in the site.

1.0 INTRODUCTION

Analytical Environmental Services International, Inc. (AES International) was contracted to perform an LBP survey for Jayuya Urban Center. The subject of the survey consists of the sidewalks of streets Hoyo Frío, Nemesio Canales, Mattei, Massini, Torrado, San Felipe, Catalino Figueroa, Guillermo Esteves, Libertad, states roads PR-141, PR-144, PR-532, Río Jayuya pedestrian bridge (Camino Ventana al Río) and a public parking lot on Libertad Street.

The LBP inspection was conducted on 10/10, 10/14 and 10/15/2024 by Elme Rivera, a DRNA/EPA Certified LBP Risk Assessor. The credentials of AESI are attached in Appendix I. The survey, performed with an XRF instrument manufactured by Sci-Aps, Model X-550, was conducted using HUD protocol of 1997, revised in 2012.

2.0 TESTING PROCEDURES

The testing was performed with an XRF instrument Model X-550 (03210) manufactured by SciAps (see PCS in Appendix II). The selected mode allows reference to the abatement level set at 1.0 mg/cm^2. The results are reported at 95% confidence levels.

3.0 LEAD BASED PAINT TESTING METHODOLOGY

The hazard level of lead in paint has been determined by the department of Housing & Urban Development as 1.0 mg/cm^2, as measured by XRF, or AAS (Atomic Absorption Spectroscopy), or 0.5% be weight (or 5000 ppm) as measured by AAS, or Inductive Coupled Plasma (ICP). The same level was adopted by EPA Regulations published in 1992, under Title X.

The only lead-based paint testing protocol officially available at this time was published by HUD initially in 1990, revised in 1991 and finalized in 1995 (see above HUD reference). A revised Chapter 7 was published in 1997. In accordance with the new protocol, almost all surfaces present in the units must be tested. The above modified guidelines were used to perform lead-based-paint testing for this project. Since road components are not included in the HUD Guidelines, the same main steps used in a single-family inspection were used in this project.

The main steps involved in an inspection are:

1. Perform inventory of all testing combinations;
2. Select painted area to be tested;
3. Perform XRF testing (including calibration checks);
4. Collect and analyze paint chip samples, for inconclusive results;
5. Classify XRF and paint chips results;
6. Review and evaluate the data;
7. Report on findings.

AES International personnel classify each XRF lead reading as positive, negative, or inconclusive. This classification is based on manufacturer XRF performance characteristic sheet (PCS), for each substrate. Samples and/or additional readings are taken from inconclusive areas.

Calibration verification of the instrument was performed prior to beginning of daily task, when the instrument was turned on, and at the end of the day. The verification was conducted on a NIST standard of 1.0 mg/cm^2. Acceptance criteria used was +-0.2 mg/cm^2. The data for calibration verification is attached in Appendix III.

At the completion of the testing, surfaces were retested to assess precision of the testing. Statistical calculations performed on test-retest results suggest that the results are within the tolerance limits and therefore acceptable.

4.0 RESULTS

4.1 Results of XRF inspection

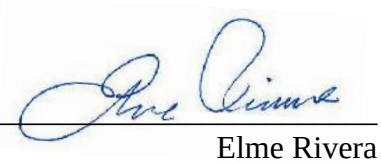
The results of the tested components are shown in Appendix III. Four hundred and three (403) XRF readings were taken. LBP components were detected and presented herein.

5.0 CONCLUSIONS

An LBP survey was conducted for Jayuya Urban Center. The subject of the survey consists of the sidewalks of streets Hoyo Frío, Nemesio Canales, Mattei, Massini, Torrado, San Felipe, Catalino Figueroa, Guillermo Esteves, Libertad, states roads PR-141, PR-144, PR-532, Río Jayuya pedestrian bridge (Camino Ventana al Río) and a public parking lot on Libertad Street. LBP findings are presented herein.

Some painted surfaces may contain levels of lead below 1.0 mg/cm^2, which could create lead dust, or lead contaminated soil hazards if the paint is turned into dust by abrasion, scraping, or sanding.

This report shall be kept by the owner and all future owners. A copy of the relevant report shall be given to each tenant, buyer or lessor, to comply with federal requirements for disclosure under the lead disclosure rule of 1996 (see also section 1018 of Title X). The LBP survey relates to surfaces accessible and not covered by rigid barriers. Should any hidden painted surfaces or components be present, they must be assumed as LBP.



Elme Rivera
Lead Risk Assessor
DRNA Lic# LBPRA-22524-243

Table 1. Summary of LBP Positive Components at Jayuya Urban Center, Sidewalks and Public Parking - Jayuya, Puerto Rico

Structure/Room	Components	Substrate	Color	Quantity*
JAYUYA URBAN CENTER				
Public Parking				
Lower Level (East)	Floor Lines (10)	Asphalt	Yellow	160 ln.ft.
	Wheel Stops (10)	Concrete	Yellow	80 sq.ft.
Upper Level	Left Curb	Concrete	Yellow	70 sq.ft.
	Floor Lines	Asphalt	Blue/Yellow	16 ln.ft.
	Floor Lines (8)	Asphalt	Yellow	128 ln.ft.
	Wheel Stops (9)	Concrete	Yellow	72 sq.ft.
Sidewalks				
Hoyo Frío Street	Left Curbs	Concrete	Yellow	120 sq.ft.
	Right Curbs	Concrete	Yellow	30 sq.ft.
Hoyo Frío Street, front of Basketball Court	Right Curb	Concrete	Yellow	12 sq.ft.
PR-141, Km. 0.4 to 0.3	Water Hydrant	Metal	Yellow	1 Unit
PR-141, Km. 0.3 to 0.2	Left Curb Ramp	Concrete	Yellow	♣
	Left Curbs	Concrete	Yellow	
	Right Curbs	Concrete	Yellow	
PR-141, Km. 0.2	Sidewalk Floor Lines, Right	Concrete	Yellow	♣
	Light Post, Right	Wood	Brown	
	Light Post, Right	Concrete	Brown	
	Right Curbs	Concrete	Yellow	
	Light Post, Left	Wood	Gray	
	Light Post, Left Lower	Metal	Red	
PR-141, Km. 0.1	Light Posts, Left (4)	Wood	Brown	♣
	Left Curbs	Concrete	Yellow	
	Water Hydrant	Metal	Yellow	1 Unit

Table 1. Summary of LBP Positive Components at Jayuya Urban Center, Sidewalks and Public Parking - Jayuya, Puerto Rico

PR-141, Km. 0.1 to 0.0	Left Curbs	Concrete	White	♣
	Left Curbs	Concrete	Yellow	
	Light Post, Right (2)	Concrete	Gray	
	Right Curbs	Concrete	Yellow	
	Sidewalk Line	Concrete	Yellow	4 sq.ft.
PR-144	Water Hydrant, Left	Metal	Yellow	1 Unit
	Right Curbs	Concrete	Yellow	700 sq.ft.
	Left Curbs	Concrete	Yellow	
	Bridge Curb, Right	Concrete	Yellow	
	Right Curbs	Concrete	White	
PR-532, Km. 0.0 to 0.6	Left Curbs	Concrete	Yellow	400 sq.ft.
	Right Curbs	Concrete	Yellow	
	Manhole, Right	Metal	Yellow	
Catalino Figueroa Street	Water Register	Concrete	Yellow	680 sq.ft.
	Left Curbs	Concrete	Yellow	
	Bridge Curb, Left	Concrete	Yellow	
	Bridge Barriers, Left (9)	Concrete	White	
	Right Curb	Concrete	Yellow	
	Right Curb	Concrete	White	
	Bridge Curb, Right	Concrete	Yellow	
	Bridge Barriers, Right	Concrete	White	
	Water Hydrant	Metal	Yellow	1 Unit
	Water Hydrant, Left	Metal	White/Yellow Red/Black	1 Unit
Massini Street	Left Curbs	Concrete	Yellow	110 sq.ft.
San Felipe Street	Guardrail, Left	Metal	Yellow	30 sq.ft.
	Left Curbs & Ramp	Concrete	Yellow	48 sq.ft.
	Right Curbs	Concrete	Yellow	38 sq.ft.
	Water Hydrant, Left	Metal	Yellow	1 Unit
Nemesio Canales Street	Right Curbs	Concrete	Yellow	540 sq.ft.

Table 1. Summary of LBP Positive Components at Jayuya Urban Center, Sidewalks and Public Parking - Jayuya, Puerto Rico

Guillermo Estevez Street (PR-144)	Left Curbs	Concrete	Yellow	140 sq.ft.
	Right Curbs	Concrete	Yellow	
	Water Hydrant	Metal	White/Yellow Red/Black	1 Unit
Libertad Street	Left Curbs	Concrete	Yellow	200 sq.ft.
	Right Curbs	Concrete	Yellow	
	Ramps, Left	Concrete	Yellow	

**** Quantities presented are approximate estimates.***

♣ These Components are approximately 2,600 sq.ft. in total.

Appendix I



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

Analytical Environmental Services International, Inc.

611 Monserrate St. Suite 2 Santurce, PR 00907

Laboratory ID: LAP-102702

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

☑	**INDUSTRIAL HYGIENE**	Accreditation Expires: July 01, 2025
☑	**ENVIRONMENTAL LEAD**	Accreditation Expires: July 01, 2025
☐	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires:
☐	**FOOD**	Accreditation Expires:
☐	**UNIQUE SCOPES**	Accreditation Expires:
☐	**BERYLLIUM FIELD/MOBILE**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryl O. Morton

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision21: 05/15/2023

Date Issued: 07/01/2023

United States Environmental Protection Agency

This is to certify that

AES International, Inc.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint renovation, repair, and painting activities pursuant to 40 CFR Part 745.89

In the Jurisdiction of:

All EPA Administered States, Tribes, and Territories

This certification is valid from the date of issuance and expires November 15, 2025

NAT-87801-3

Certification #

September 04, 2020

Issued On

Michelle Price, Chief

Lead, Heavy Metals, and Inorganics Branch

GOBIERNO DE PUERTO RICO

Departamento de Recursos Naturales y Ambientales

Este certificado es otorgado a:

Analytical Environmental Services International (AESI)

Por haber cumplido con los requisitos establecidos en el Capítulo VI, Regla 127 del Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo. Se le otorga esta certificación como **Firma** para llevar a cabo actividades relacionadas a Mitigación de Pintura con base de plomo en la jurisdicción de Puerto Rico.

Número de Certificado

LBPF-08024-014

Fecha de emisión: Abril 6, 2024

Fecha de Expiración: Abril 5, 2025

José Roque Juliá
Jefe
División Desperdicios Tóxicos

DRNA Lead Risk Assessor Credential


CERTIFICACIÓN PLOMO PUERTO RICO

Esta tarjeta autoriza a:

Elme Rivera Pérez

Para realizar actividades relacionadas a Mitigación de Pintura con Base de Plomo

Disciplina: **Evaluador de Riesgos**

Fecha de Expiración: Agosto 16, 2025

Certificación #:

LBPRA-22524-243

Firma Autorizada
Departamento de Recursos Naturales Ambientales

LEAD-SAFE EPA CERTIFIED FIRM

AES International Inc.

Appendix II



Performance Characteristic Sheet

EFFECTIVE DATE: February 1, 2022

MANUFACTURER AND MODEL:

Make: ***SciAps***
Models: ***Model X-550***
X-Ray Source: ***Rhodium (Rh) or Gold (Au) Anode***

FIELD OPERATION GUIDANCE

ACTION LEVEL SETTING:

1.0 mg/cm^2

OPERATING PARAMETERS:

Timed mode: fixed 10-second reading.

Quick mode: variable-time reading (approximately 2-6 seconds).

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive) on NIST SRM 2579 (1.02 mg/cm^2)/NIST SRM 2573, or equivalent

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

Au Anode (quick) **READING DESCRIPTION**	**SUBSTRATE**	**THRESHOLD (mg/cm^2)**
Results not corrected for substrate bias on any substrate	Brick Concrete Drywall Metal Plaster Wood	1.0 1.0 1.0 1.0 1.0 1.0
Rh Anode (Timed or Quick), Au Anode (Timed) **READING DESCRIPTION**	**SUBSTRATE**	**THRESHOLD (mg/cm^2)**
Results not corrected for substrate bias on any substrate	Brick Concrete Drywall Metal Plaster Wood	0.9 0.9 0.9 0.9 0.9 0.9

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*, 2012 Edition ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in February 2022, with two separate instruments of each Anode type, operated in both Timed and Quick modes.

OPERATING PARAMETERS

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film; for NIST SRM 2579a, use film 2573 (1.04 mg/cm^2).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below. Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this

procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

The reading time in Archive tests was 10 seconds in Timed mode and from 2-6 seconds in Quick mode, for both the Rh Anode and Au Anode.

CLASSIFICATION OF RESULTS:

XRF results for the Au Anode in Quick mode are classified as **positive** if they are **greater than or equal** to 1.0 mg/cm^2 and ***negative*** if they are ***less than*** *to* 1.0 mg/cm^2. XRF results for the Au Anode in Timed mode and for the Rh Anode in Timed or Quick mode are classified as **positive** if they are **greater than or equal** to 0.9 mg/cm^2 and ***negative*** if they are ***less than*** *to* 0.9 mg/cm^2

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to develop Performance Characteristic Sheets at the Federal standard (Action Level) of 1.0 mg/cm^2 and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997.

AES International Inc.

Appendix III



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/10/2024

Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera

Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
1					Calibration	1.0
2					Calibration	1.0
3					Calibration	1.0
4	Public Parking	Lower Level (East)	Concrete	Blue	Handicapped Ramp, Left	0.1
5	Public Parking	Lower Level (East)	Concrete	Blue	Curb	0.2
6	Public Parking	Lower Level (East)	Concrete	White	Curb	0.1
7	Public Parking	Lower Level (East)	Metal	Green	Handrail	0.1
8	Public Parking	Lower Level (East)	Asphalt	Blue	Floor Patch	0.2
9	**Public Parking**	**Lower Level (East)**	**Asphalt**	**Yellow**	**Floor Line**	**4.6**
10	**Public Parking**	**Lower Level (East)**	**Concrete**	**Yellow**	**Wheel Stop**	**4.1**
11	Public Parking	Lower Level (East)	Metal	Gray	Light Post, Right	0.1
12	Public Parking	Lower Level (East)	Concrete	White	Curb	0.2
13	Public Parking	Lower Level (East)	Concrete	Blue	Curb	0.1
14	Public Parking	Lower Level (East)	Concrete	Blue	Handicapped Ramp, Right	0.1
15	Public Parking	Lower Level (East)	Metal	Green	Handrail	0.1
16	Public Parking	Lower Level (East)	Concrete	Blue	Ramp Wall	0.1

Approved By: Ady Padan Ph.D. **Date: 10/10/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/10/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
17	Public Parking	Lower Level (East)	Concrete	Gray	Ramp Wall	0.2
18	Public Parking	Lower Level (East)	Metal	Green	Handrail	0.1
19	**Public Parking**	**Upper Level**	**Concrete**	**Yellow**	**Left Curb**	**2.1**
20	Public Parking	Upper Level	Concrete	Blue	Left Curb	0.1
21	Public Parking	Upper Level	Concrete	Blue	Handicapped Ramp	0.1
22	Public Parking	Upper Level	Concrete	Gray	Light Post Base	0.1
23	Public Parking	Upper Level	Metal	Gray	Light Post	0.2
24	Public Parking	Upper Level	Metal	Green	Handrail	0.1
25	Public Parking	Upper Level	Asphalt	Blue	Floor Patch	0.2
26	Public Parking	Upper Level	Asphalt	Blue	Floor Line	0.1
27	**Public Parking**	**Upper Level**	**Asphalt**	**Blue/Yellow**	**Floor Line**	**4.1**
28	Public Parking	Upper Level	Concrete	Blue	Wheel Stop (2)	0.1
29	**Public Parking**	**Upper Level**	**Concrete**	**Yellow**	**Wheel Stop**	**4.3**
30	**Public Parking**	**Upper Level**	**Asphalt**	**Yellow**	**Floor Line**	**4.1**
31	Public Parking	Upper Level	Concrete	White	Curb	0.1
32	Public Parking	Upper Level	Metal	Green	Handrail	0.2

Approved By: Ady Padan Ph.D. **Date: 10/10/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/10/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
33	Public Parking	Upper Level	Metal	Gray	Light Post	0.1
34	Public Parking	Upper Level	Concrete	Gray	Light Post Base	0.3
35	Public Parking	Upper Level	Concrete	White	Right Curb	0.1
36	Public Parking	Upper Level	Metal	Green	Handrail	0.2
37	Public Parking	Upper Level	Concrete	Gray	Light Post Base	0.1
38	Public Parking	Upper Level	Metal	Gray	Light Post	0.2
39	Public Parking	Upper Level	Concrete	Blue	Curb	0.1
40	Public Parking	Upper Level	Concrete	Blue	Handicapped Ramp	0.1
41	Public Parking	Upper Level	Concrete	Gray	Column	0.1
42	Public Parking	Upper Level	Concrete	Gray	Column Trim	0.2
43	Public Parking	Upper Level	Concrete	Gray	Column Overhanging	0.1
44	**Sidewalks**	**Hoyo Frío Street**	**Concrete**	**Yellow**	**Left Curb**	**1.8**
45	**Sidewalks**	**Hoyo Frío Street**	**Concrete**	**Yellow**	**Right Curb**	**1.8**
46	Sidewalks	Hoyo Frío Street	Concrete	White	Left Curb	0.1
47	Sidewalks	Hoyo Frío Street	Concrete	White	Right Curb	0.1
48	Sidewalks	Hoyo Frío St., front of Basketball Court, PR-141 Km. 0.5	Concrete	Blue	Right Curb	0.2

Approved By: Ady Padan Ph.D. **Date: 10/10/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/10/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
49	Sidewalks	Hoyo Frío St., front of Basketball Court, PR-141 Km. 0.5	Concrete	White	Left Curb	0.1
50	Sidewalks	Hoyo Frío St., front of Basketball Court, PR-141 Km. 0.5	Concrete	White	Left Curb	0.2
51	Sidewalks	Hoyo Frío St., front of Basketball Court, PR-141 Km. 0.5	Concrete	Yellow	Left Ramp	0.1
52	**Sidewalks**	**Hoyo Frío St., front of Basketball Court, PR-141 Km. 0.5**	**Concrete**	**Yellow**	**Right Curb**	**1.9**
53	Sidewalks	PR-141, Km. 0.5	Concrete	Yellow	Right Curb	0.1
54	Sidewalks	PR-141, Km. 0.5	Concrete	White	Left Curb	0.2
55	Sidewalks	PR-141, Km. 0.4	Concrete	Yellow	Right Curb	0.1
56	Sidewalks	PR-141, Km. 0.4	Concrete	Yellow	Right Curb	0.2
57	Sidewalks	PR-141, Km. 0.4	Metal	Yellow	Baseboard	0.1
58	Sidewalks	PR-141, Km. 0.4	Concrete	Yellow	Ramp Curb	0.5
59	Sidewalks	PR-141, Km. 0.4	Concrete	White	Left Curb	0.1
60	Sidewalks	PR-141, Km. 0.4	Concrete	Yellow	Right Curb	0.1
61	Sidewalks	PR-141, Km. 0.4	Concrete	Brown	Light Post, Right	0.2
62	Sidewalks	PR-141, Km. 0.4	Concrete	White	Left Curb	0.2
63	Sidewalks	PR-141, Km. 0.4	Concrete	Yellow	Left Ramp Curb	0.1
64	Sidewalks	PR-141, Km. 0.4	Wood	Brown	Light Post, Left	0.2

Approved By: Ady Padan Ph.D. **Date: 10/10/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/10/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
65	Sidewalks	PR-141, Km. 0.4	Concrete	Brown	Light Post, Right	0.3
66	Sidewalks	PR-141, Km. 0.4 to 0.3	Concrete	White	Left Curb	0.1
67	Sidewalks	PR-141, Km. 0.4 to 0.3	Concrete	White	Left Curb	0.2
68	Sidewalks	PR-141, Km. 0.4 to 0.3	Concrete	White	Left Curb	0.1
69	Sidewalks	PR-141, Km. 0.4 to 0.3	Concrete	White	Left Curb	0.3
70	Sidewalks	PR-141, Km. 0.4 to 0.3	Concrete	Yellow	Right Curb	0.1
71	Sidewalks	PR-141, Km. 0.4 to 0.3	Concrete	Yellow	Right Curb	0.2
72	Sidewalks	PR-141, Km. 0.4 to 0.3	Concrete	Yellow	Right Curb	0.1
73	Sidewalks	PR-141, Km. 0.4 to 0.3	Concrete	Yellow	Right Curb	0.2
74	Sidewalks	PR-141, Km. 0.4 to 0.3	Concrete	Yellow	Right Curb Ramp	0.1
75	Sidewalks	PR-141, Km. 0.4 to 0.3	Wood	Brown	Light Post, Left	0.2
76	**Sidewalks**	**PR-141, Km. 0.4 to 0.3**	**Metal**	**Yellow**	**Water Hydrant**	**2.9**
77	Sidewalks	PR-141, Km. 0.3	Concrete	White	Left Curb	0.3
78	Sidewalks	PR-141, Km. 0.3	Concrete	White	Left Curb	0.1
79	Sidewalks	PR-141, Km. 0.3	Concrete	Yellow	Left Curb Ramp	0.1
80	Sidewalks	PR-141, Km. 0.3	Wood	Blue	Light Post, Left	0.3

Approved By: Ady Padan Ph.D. **Date: 10/10/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/10/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
81	Sidewalks	PR-141, Km. 0.3	Concrete	Yellow	Right Curb	0.1
82	Sidewalks	PR-141, Km. 0.3	Concrete	Yellow	Right Curb	0.2
83	Sidewalks	PR-141, Km. 0.3	Concrete	Brown	Light Post, Right	0.1
84	Sidewalks	PR-141, Km. 0.3	Concrete	Yellow	Left Curb	0.2
85	Sidewalks	PR-141, Km. 0.3	Concrete	Yellow	Left Curb	0.1
86	Sidewalks	PR-141, Km. 0.3	Concrete	Yellow	Left Curb	0.2
87	Sidewalks	PR-141, Km. 0.3	Concrete	Yellow	Right Curb	0.1
88	Sidewalks	PR-141, Km. 0.3	Concrete	Yellow	Right Curb	0.2
89	Sidewalks	PR-141, Km. 0.3	Concrete	Yellow	Right Curb	0.3
90	Sidewalks	PR-141, Km. 0.3 to 0.2	Concrete	Yellow	Left Curb	0.1
91	Sidewalks	PR-141, Km. 0.3 to 0.2	Concrete	Yellow	Left Curb	0.2
92	**Sidewalks**	**PR-141, Km. 0.3 to 0.2**	**Concrete**	**Yellow**	**Right Curb**	**1.7**
93	Sidewalks	PR-141, Km. 0.3 to 0.2	Concrete	Yellow	Right Curb	0.7
94	Sidewalks	PR-141, Km. 0.3 to 0.2	Concrete	Brown	Light Post, Right	0.1
95	Sidewalks	PR-141, Km. 0.3 to 0.2	Wood	Brown	Light Post, Left	0.1
96	**Sidewalks**	**PR-141, Km. 0.3 to 0.2**	**Concrete**	**White**	**Left Curb Ramp**	**1.8**

Approved By: Ady Padan Ph.D. **Date: 10/10/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/10/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
97	**Sidewalks**	**PR-141, Km. 0.3 to 0.2**	**Concrete**	**White**	**Left Curb**	**2.0**
98	Sidewalks	PR-141, Km. 0.3 to 0.2	Concrete	White	Left Curb	0.3
99	Sidewalks	PR-141, Km. 0.3 to 0.2	Asphalt	Yellow	Ramp, Patch	0.1
100	Sidewalks	PR-141, Km. 0.3 to 0.2	Asphalt	White	Arrow Inside Ramp, Patch	0.3
101	Sidewalks	PR-141, Km. 0.2	Concrete	Yellow	Left Curb	0.1
102	Sidewalks	PR-141, Km. 0.2	Concrete	Yellow	Left Curb	0.3
103	Sidewalks	PR-141, Km. 0.2	Concrete	Yellow	Right Curb	0.3
104	Sidewalks	PR-141, Km. 0.2	Concrete	Yellow	Right Curb	0.1
105	**Sidewalks**	**PR-141, Km. 0.2**	**Concrete**	**Yellow**	**Floor Lines Sidewalk, Right**	**2.3**
106	**Sidewalks**	**PR-141, Km. 0.2**	**Wood**	**Brown**	**Light Post, Right**	**1.7**
107	**Sidewalks**	**PR-141, Km. 0.2**	**Concrete**	**Brown**	**Light Post, Right**	**2.3**
108	**Sidewalks**	**PR-141, Km. 0.2**	**Concrete**	**Yellow**	**Right Curb**	**2.3**
109	Sidewalks	PR-141, Km. 0.2	Concrete	White	Left Curb	0.1
110	**Sidewalks**	**PR-141, Km. 0.2**	**Wood**	**Gray**	**Light Post, Left**	**4.6**
111	**Sidewalks**	**PR-141, Km. 0.2**	**Wood**	**Red**	**Light Post, Left Lower**	**1.8**
112	Sidewalks	PR-141, Km. 0.2	Wood	White	Light Post, Left Upper	0.1

Approved By: Ady Padan Ph.D. **Date: 10/10/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/10/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
113	Sidewalks	PR-141, Km. 0.2	Wood	Green	Light Post, Left Upper	0.1
114	Sidewalks	PR-141, Km. 0.2 to 0.1	Concrete	White	Left Curb	0.1
115	Sidewalks	PR-141, Km. 0.2 to 0.1	Concrete	White	Left Curb	0.2
116	Sidewalks	PR-141, Km. 0.2 to 0.1	Concrete	White	Left Curb	0.1
117	Sidewalks	PR-141, Km. 0.2 to 0.1	Concrete	Yellow	Right Curb	0.1
118	Sidewalks	PR-141, Km. 0.2 to 0.1	Concrete	Yellow	Right Curb	0.1
119	Sidewalks	PR-141, Km. 0.2 to 0.1	Concrete	Yellow	Right Curb	0.3
120	Sidewalks	PR-141, Km. 0.2 to 0.1	Concrete	Brown	Light Post, Right	0.1
121	Sidewalks	PR-141, Km. 0.2 to 0.1	Concrete	White	Left Curb	0.2
122	Sidewalks	PR-141, Km. 0.2 to 0.1	Concrete	Yellow	Left Curb	0.1
123	**Sidewalks**	**PR-141, Km. 0.1**	**Wood**	**Brown**	**Light Post, Left**	**1.3**
124	**Sidewalks**	**PR-141, Km. 0.1**	**Wood**	**Brown**	**Light Post, Left**	**3.6**
125	Sidewalks	PR-141, Km. 0.1	Concrete	Yellow	Right Curb	0.1
126	**Sidewalks**	**PR-141, Km. 0.1**	**Concrete**	**White**	**Left Curb**	**3.1**
127	Sidewalks	PR-141, Km. 0.1	Concrete	Yellow	Right Curb	0.1
128	**Sidewalks**	**PR-141, Km. 0.1**	**Concrete**	**Yellow**	**Left Curb**	**2.1**

Approved By: Ady Padan Ph.D. **Date: 10/10/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/10/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
129	**Sidewalks**	**PR-141, Km. 0.1**	**Metal**	**Yellow**	**Water Hydrant, New Beauty**	**6.3**
130	**Sidewalks**	**PR-141, Km. 0.1**	**Wood**	**Brown**	**Light Post, Left (2)**	**3.2**
131	**Sidewalks**	**PR-141, Km. 0.1 to 0.0**	**Concrete**	**White**	**Left Curb**	**2.6**
132	**Sidewalks**	**PR-141, Km. 0.1 to 0.0**	**Concrete**	**Gray**	**Light Post, Right**	**1.7**
133	**Sidewalks**	**PR-141, Km. 0.1 to 0.0**	**Concrete**	**Gray**	**Light Post, Right**	**1.8**
134	Sidewalks	PR-141, Km. 0.1 to 0.0	Concrete	Gray	Left Curb	0.1
135	Sidewalks	PR-141, Km. 0.1 to 0.0	Concrete	Blue	Right Curb	0.1
136	**Sidewalks**	**PR-141, Km. 0.1 to 0.0**	**Concrete**	**White**	**Left Curb**	**2.3**
137	**Sidewalks**	**PR-141, Km. 0.1 to 0.0**	**Concrete**	**White**	**Left Curb**	**2.3**
138	**Sidewalks**	**PR-141, Km. 0.1 to 0.0**	**Concrete**	**White**	**Left Curb**	**2.4**
139	Sidewalks	PR-141, Km. 0.1 to 0.0	Concrete	Blue	Handicapped Ramp	0.1
140	**Sidewalks**	**PR-141, Km. 0.1 to 0.0**	**Concrete**	**Yellow**	**Sidewalk Line**	**4.1**
141	Sidewalks	PR-141, Km. 0.1 to 0.0	Concrete	Yellow	Right Curb	0.1
142	Sidewalks	PR-141, Km. 0.1 to 0.0	Concrete	Yellow	Left Curb	0.1
143	**Sidewalks**	**PR-141, Km. 0.1 to 0.0**	**Concrete**	**Yellow**	**Left Curb**	**4.6**
144	**Sidewalks**	**PR-141, Km. 0.1 to 0.0**	**Concrete**	**Yellow**	**Left Curb**	**2.0**

Approved By: Ady Padan Ph.D. **Date: 10/10/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/10/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
145	**Sidewalks**	**PR-141, Km. 0.1 to 0.0**	**Concrete**	**Yellow**	**Right Curb**	**3.9**
146	Sidewalks	PR-141, Km. 0.1 to 0.0	Concrete	Blue	Left Curb	0.1
147	Sidewalks	PR-141, Km. 0.1 to 0.0	Concrete	Yellow	Right Curb	0.2
148	Sidewalks	PR-141, Km. 0.1 to 0.0	Metal	Yellow	Water Hydrant, Left	0.1
149	Sidewalks	PR-141, Km. 0.1 to 0.0	Concrete	Yellow	Left Curb	0.3
150	Sidewalks	PR-141, Km. 0.1 to 0.0	Concrete	Yellow	Right Curb	0.1
151	Sidewalks	PR-141, Km. 0.1 to 0.0	Metal	Yellow	Water Hydrant, Right	0.2
152	Sidewalks	PR-141, Km. 0.1 to 0.0	Concrete	Yellow	Right Curb	0.1
153	Sidewalks	PR-141, Km. 0.1 to 0.0	Concrete	White	Left Curb	0.1
154	Sidewalks	PR-144	Concrete	Yellow	Left Curb	0.2
155	Sidewalks	PR-144	Concrete	White	Left Curb	0.1
156	Sidewalks	PR-144	Concrete	White	Left Curb	0.2
157	Sidewalks	PR-144	Concrete	Yellow	Right Curb Ramp	0.1
158	Sidewalks	PR-144	Concrete	Yellow	Right Curb Ramp	0.2
159	Sidewalks	PR-144	Concrete	Yellow	Left Curb	0.1
160	**Sidewalks**	**PR-144**	**Metal**	**Yellow**	**Water Hydrant, Left**	**2.4**

Approved By: Ady Padan Ph.D. **Date: 10/10/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/10/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
161	Sidewalks	PR-144	Concrete	Yellow	Left Curb Ramp	0.1
162	Sidewalks	PR-144	Concrete	White	Left Curb	0.6
163	Sidewalks	PR-144 (near Coop)	Concrete	White/Yellow	Left Curb	0.3
164	**Sidewalks**	**PR-144**	**Concrete**	**Yellow**	**Right Curb**	**4.3**
165	**Sidewalks**	**PR-144**	**Concrete**	**Yellow**	**Left Curb**	**4.3**
166	**Sidewalks**	**PR-144**	**Concrete**	**Yellow**	**Right Curb**	**2.9**
167	Sidewalks	PR-144	Concrete	White	Left Curb	0.1
168	**Sidewalks**	**PR-144**	**Concrete**	**Yellow**	**Left Curb**	**3.1**
169	Sidewalks	PR-144 (front of Total Gas)	Concrete	Yellow	Left Curb	0.1
170	**Sidewalks**	**PR-144**	**Concrete**	**Yellow**	**Bridge Curb, Right**	**4.8**
171	Sidewalks	PR-144	Concrete	White	Barrier Bridge, Right	0.1
172	**Sidewalks**	**PR-144**	**Concrete**	**Yellow**	**Left Curb**	**3.1**
173	Sidewalks	PR-144	Metal	Yellow	Bollard, Left	0.2
174	**Sidewalks**	**PR-144**	**Concrete**	**White**	**Right Curb**	**2.6**
175					Calibration	1.0
176					Calibration	1.0

Approved By: Ady Padan Ph.D. **Date: 10/10/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/10/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
177					Calibration	1.0
RE-TESTING						
178	Sidewalks	PR-144	Concrete	Yellow	Left Curb	**4.0**
179	Sidewalks	PR-144	Concrete	Yellow	Right Curb	**2.6**
180	Sidewalks	PR-144	Concrete	White	Left Curb	0.1
181	Sidewalks	PR-144	Concrete	Yellow	Left Curb	**3.0**
182	Sidewalks	PR-144	Concrete	Yellow	Left Curb	0.2
183	Sidewalks	PR-144	Concrete	Yellow	Bridge Curb, Right	**4.0**
184	Sidewalks	PR-144	Concrete	White	Barrier Bridge, Right	0.1
185	Sidewalks	PR-144	Concrete	Yellow	Left Curb	**3.4**
186	Sidewalks	PR-144	Metal	Yellow	Bollard, Left	0.1
187	Sidewalks	PR-144	Concrete	White	Right Curb	**2.5**
188					Calibration	1.0
189					Calibration	1.1
190					Calibration	1.0

Approved By: Ady Padan Ph.D. **Date: 10/10/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/14/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
1					Calibration	1.1
2					Calibration	1.0
3					Calibration	1.1
4	**Sidewalks**	**PR-532, Km. 0.0 to 0.6**	**Concrete**	**Yellow**	**Left Curb**	**3.1**
5	**Sidewalks**	**PR-532, Km. 0.0 to 0.6**	**Concrete**	**Yellow**	**Left Curb**	**2.6**
6	Sidewalks	PR-532, Km. 0.0 to 0.6	Concrete	Yellow	Left Curb	0.1
7	**Sidewalks**	**PR-532, Km. 0.0 to 0.6**	**Concrete**	**Yellow**	**Right Curb**	**4.1**
8	**Sidewalks**	**PR-532, Km. 0.0 to 0.6**	**Concrete**	**Yellow**	**Right Curb**	**3.3**
9	**Sidewalks**	**PR-532, Km. 0.0 to 0.6**	**Concrete**	**Yellow**	**Right Curb**	**2.6**
10	Sidewalks	PR-532, Km. 0.0 to 0.6	Concrete	Yellow	Right Curb	0.1
11	Sidewalks	PR-532, Km. 0.0 to 0.6	Asphalt	White	Floor Line, Left	0.1
12	Sidewalks	PR-532, Km. 0.0 to 0.6	Asphalt	White	Floor Line, Left	0.3
13	Sidewalks	PR-532, Km. 0.0 to 0.6	Asphalt	White	Floor Line, Left	0.2
14	Sidewalks	PR-532, Km. 0.0 to 0.6	Asphalt	White	Floor Line, Right	0.1
15	Sidewalks	PR-532, Km. 0.0 to 0.6	Asphalt	White	Floor Line, Right	0.0
16	Sidewalks	PR-532, Km. 0.0 to 0.6	Asphalt	White	Manhole, Right	0.1

Approved By: Ady Padan Ph.D. **Date: 10/14/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/14/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
17	**Sidewalks**	**PR-532, Km. 0.0 to 0.6**	**Concrete**	**Yellow**	**Manhole, Right**	**2.3**
18	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**Yellow**	**Water Register**	**4.0**
19	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.1
20	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**Yellow**	**Left Curb**	**2.3**
21	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**Yellow**	**Left Curb**	**1.7**
22	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.3
23	**Sidewalks**	**Catalino Figueroa Street**	**Metal**	**Yellow**	**Water Hydrant**	**7.6**
24	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**Yellow**	**Left Curb**	**4.6**
25	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**Yellow**	**Bridge Curb, Left**	**3.9**
26	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**White**	**Bridge Barrier, Left**	**4.0**
27	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**Yellow**	**Left Curb**	**4.2**
28	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**Yellow**	**Right Curb**	**5.0**
29	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**White**	**Bridge Barrier, Right**	**3.3**
30	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**White**	**Bridge Barrier, Right**	**4.6**
31	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**Yellow**	**Bridge Curb, Right**	**3.9**
32	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**White**	**Right Curb**	**4.0**

Approved By: Ady Padan Ph.D. **Date: 10/14/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/14/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
33	**Sidewalks**	**Catalino Figueroa Street**	**Concrete**	**Yellow**	**Right Curb**	**3.8**
34	Sidewalks	Catalino Figueroa Street	Concrete	Blue	Handicapped Ramp	0.3
35	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.1
36	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.3
37	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.1
38	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.2
39	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Right Curb	0.1
40	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Right Curb	0.1
41	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Right Curb	0.2
42	Sidewalks	Catalino Figueroa Street	Concrete	White	Right Curb	0.3
43	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Ramp, Right	0.1
44	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.2
45	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.1
46	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.2
47	**Sidewalks**	**Catalino Figueroa Street**	**Metal**	**White/Red**	**Water Hydrant, Left**	**4.9**
48	Sidewalks	Catalino Figueroa Street	Metal	Gray	Light Post	0.1

Approved By: Ady Padan Ph.D. **Date: 10/14/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/14/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
49	Sidewalks	Catalino Figueroa Street	Concrete	Gray	Light Post Base	0.1
50	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Right Curb Corner	0.2
51	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Right Curb	0.3
52	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Right Curb	0.1
53	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Right Curb	0.0
54	Sidewalks	Catalino Figueroa Street	Concrete	White	Right Curb	0.1
55	Sidewalks	Catalino Figueroa Street	Concrete	White	Right Curb	0.2
56	Sidewalks	Catalino Figueroa Street	Concrete	Blue	Right Curb	0.3
57	Sidewalks	Catalino Figueroa Street	Concrete	Blue	Right Curb	0.4
58	Sidewalks	Catalino Figueroa Street	Concrete	Blue	Right Curb	0.1
59	Sidewalks	Catalino Figueroa Street	Concrete	Blue	Right Curb	0.2
60	Sidewalks	Catalino Figueroa Street	Concrete	Blue	Right Curb	0.3
61	Sidewalks	Catalino Figueroa Street	Concrete	Blue	Right Curb	0.1
62	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.2
63	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.1
64	Sidewalks	Catalino Figueroa Street	Concrete	White	Left Curb	0.2

Approved By: Ady Padan Ph.D. **Date: 10/14/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/14/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
65	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.1
66	Sidewalks	Catalino Figueroa Street	Metal	Yellow	Water Hydrant, Left	0.1
67	Sidewalks	Catalino Figueroa Street	Concrete	Blue	Left Curb	0.1
68	Sidewalks	Catalino Figueroa Street	Concrete	Blue	Right Curb	0.2
69	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Right Curb	0.1
70	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Right Curb	0.3
71	Sidewalks	Catalino Figueroa Street	Concrete	White	Right Curb	0.1
72	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Right Curb	0.3
73	Sidewalks	Catalino Figueroa Street	Concrete	White	Right Curb	0.1
74	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Ramp, Right	0.2
75	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.1
76	Sidewalks	Catalino Figueroa Street	Concrete	Yellow	Left Curb	0.4
77	Sidewalks	Catalino Figueroa Street	Concrete	White	Left Curb	0.1
78	Sidewalks	Catalino Figueroa Street	Concrete	Cream	Left Curb	0.2
79	Sidewalks	Catalino Figueroa Street	Concrete	Cream	Left Curb	0.1
80	Sidewalks	Catalino Figueroa Street	Concrete	White	Left Curb	0.2

Approved By: Ady Padan Ph.D. **Date: 10/14/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/14/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
81					Calibration	1.1
82					Calibration	1.0
83					Calibration	1.0
84	Sidewalks	Massini Street	Concrete	Yellow	Left Curb	0.1
85	Sidewalks	Massini Street	Concrete	Blue	Left Curb	0.2
86	Sidewalks	Massini Street	Concrete	White	Left Curb	0.3
87	Sidewalks	Massini Street	Concrete	White	Left Curb	0.1
88	Sidewalks	Massini Street	Concrete	Yellow	Left Curb	0.2
89	Sidewalks	Massini Street	Concrete	Blue	Left Curb	0.1
90	Sidewalks	Massini Street	Concrete	Blue	Handicapped Ramp	0.2
91	**Sidewalks**	**Massini Street**	**Concrete**	**Yellow**	**Left Curb**	**1.3**
92	Sidewalks	Torrado Street	Metal	Gray	Light Post, Left	0.1
93	Sidewalks	Torrado Street	Concrete	Gray/Yellow	Light Post Base, Left	0.3
94	Sidewalks	Torrado Street	Metal	Gray	Light Post, Left	0.1
95	Sidewalks	Torrado Street	Concrete	Gray	Light Post Base, Left	0.2
96	Sidewalks	Torrado Street	Metal	Gray	Light Post, Right	0.3

Approved By: Ady Padan Ph.D. **Date: 10/14/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/14/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
97	Sidewalks	Torrado Street	Concrete	Gray/Yellow	Light Post Base, Right	0.1
98	Sidewalks	Torrado Street	Metal	Gray	Light Post, Right	0.2
99	Sidewalks	Torrado Street	Concrete	Gray	Light Post Base, Right	0.3
100	Sidewalks	Torrado Street	Metal	Gray	Light Post, Left	0.1
101	Sidewalks	Torrado Street	Concrete	Gray	Light Post Base, Left	0.1
102	Sidewalks	Torrado Street	Metal	Gray	Light Post, Right	0.1
103	Sidewalks	Torrado Street	Concrete	Gray	Light Post Base, Right	0.2
104	Sidewalks	Torrado Street	Metal	Yellow	Water Hydrant, Right	0.3
RE-TESTING						
105	Sidewalks	Torrado Street	Metal	Yellow	Water Hydrant, Right	0.4
106	Sidewalks	Torrado Street	Metal	Gray	Light Post, Right	0.1
107	Sidewalks	Torrado Street	Concrete	Gray/Yellow	Light Post Base, Right	0.3
108	Sidewalks	Torrado Street	Metal	Gray	Light Post, Right	0.1
109	Sidewalks	Torrado Street	Concrete	Gray	Light Post Base, Right	0.1
110	Sidewalks	Torrado Street	Metal	Gray	Light Post, Left	0.1
111	Sidewalks	Torrado Street	Concrete	Gray	Light Post Base, Left	0.2

Approved By: Ady Padan Ph.D. **Date: 10/14/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/14/2024

Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera

Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
112	Sidewalks	Torrado Street	Metal	Gray	Light Post, Right	0.3
113	Sidewalks	Torrado Street	Concrete	Gray	Light Post Base, Right	0.1
114	Sidewalks	Torrado Street	Metal	Yellow	Light Post, Right	0.1
115					Calibration	1.1
116					Calibration	1.0
117					Calibration	1.1

Approved By: Ady Padan Ph.D. **Date: 10/14/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/15/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
1					Calibration	1.0
2					Calibration	1.1
3					Calibration	1.1
4	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.1
5	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.3
6	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.1
7	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.1
8	Sidewalks	Mattei Street	Concrete	Yellow	Right Curb	0.2
9	Sidewalks	Mattei Street	Concrete	Yellow	Right Curb	0.1
10	Sidewalks	Mattei Street	Concrete	Yellow	Right Curb	0.1
11	Sidewalks	Mattei Street	Concrete	Yellow	Right Curb	0.2
12	Sidewalks	Mattei Street	Concrete	Yellow	Right Curb	0.1
13	Sidewalks	Mattei Street	Concrete	Yellow	Ramp, Right	0.1
14	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.1
15	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.2
16	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.1

Approved By: Ady Padan Ph.D. **Date: 10/15/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/15/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
17	Sidewalks	Mattei Street	Concrete	Yellow	Right Curb	0.1
18	Sidewalks	Mattei Street	Concrete	Yellow	Right Curb	0.2
19	Sidewalks	Mattei Street	Concrete	Yellow	Right Curb	0.1
20	Sidewalks	Mattei Street	Concrete	Blue	Handicapped Ramp, Right	0.1
21	Sidewalks	Mattei Street	Concrete	Blue	Handicapped Ramp, Left	0.4
22	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.5
23	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.4
24	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.5
25	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.6
26	Sidewalks	Mattei Street	Concrete	Yellow	Ramp, Left	0.4
27	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.3
28	Sidewalks	Mattei Street	Concrete	Yellow	Left Curb	0.4
29	Sidewalks	Mattei Street	Concrete	Yellow	Ramp, Left	0.4
30	Sidewalks	San Felipe Street	Metal	Yellow	Water Hydrant, Left	0.3
31	Sidewalks	San Felipe Street	Concrete	Yellow	Curb, Left	0.1
32	**Sidewalks**	**San Felipe Street**	**Metal**	**Yellow**	**Guardrail, Left**	**2.3**

Approved By: Ady Padan Ph.D. **Date: 10/15/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/15/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
33	Sidewalks	San Felipe Street	Concrete	Yellow	Column of Guardrail, Left	0.1
34	Sidewalks	San Felipe Street	Concrete	White	Right Curb	0.1
35	**Sidewalks**	**San Felipe Street**	**Concrete**	**Yellow**	**Left Curb**	**2.3**
36	**Sidewalks**	**San Felipe Street**	**Concrete**	**Yellow**	**Ramp, Left**	**3.9**
37	Sidewalks	San Felipe Street	Concrete	Yellow	Right Curb	0.1
38	**Sidewalks**	**San Felipe Street**	**Concrete**	**Yellow**	**Right Curb**	**3.3**
39	**Sidewalks**	**San Felipe Street**	**Concrete**	**Yellow**	**Left Curb**	**2.6**
40	**Sidewalks**	**San Felipe Street**	**Concrete**	**Yellow**	**Water Hydrant, Left**	**4.9**
41	**Sidewalks**	**San Felipe Street**	**Concrete**	**Yellow**	**Right Curb**	**2.4**
42	Sidewalks	San Felipe Street	Concrete	Blue	Handicapped Ramp, Left	0.1
43	Sidewalks	San Felipe Street	Concrete	Blue	Left Curb	0.1
44	Sidewalks	San Felipe Street	Concrete	White	Left Curb	0.1
45	Sidewalks	San Felipe Street	Concrete	Yellow	Left Curb	0.3
46	Sidewalks	San Felipe Street	Concrete	White	Left Curb	0.1
47	Sidewalks	San Felipe Street	Concrete	Yellow	Left Curb	0.1
48	**Sidewalks**	**San Felipe Street**	**Concrete**	**Yellow**	**Right Curb**	**2.9**

Approved By: Ady Padan Ph.D. **Date: 10/15/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/15/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
49	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Left Curb	0.1
50	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Left Curb	0.3
51	Sidewalks	Nemesio Canales Street	Concrete	White	Left Curb	0.1
52	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Right Curb	0.2
53	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Right Curb	0.1
54	Sidewalks	Nemesio Canales Street	Concrete	White	Right Curb	0.2
55	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Right Curb	0.1
56	Sidewalks	Nemesio Canales Street	Metal	Yellow	Water Hydrant, Right	0.2
57	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Sidewalk Patch, Right	0.1
58	Sidewalks	Nemesio Canales Street	Concrete	White	Right Curb	0.2
59	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Right Curb	0.1
60	**Sidewalks**	**Nemesio Canales Street**	**Concrete**	**Yellow**	**Right Curb**	**2.3**
61	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Left Curb	0.1
62	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Left Curb	0.2
63	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Left Curb	0.1
64	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Left Curb	0.2

Approved By: Ady Padan Ph.D. **Date: 10/15/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/15/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
65					Calibration	1.0
66					Calibration	1.0
67					Calibration	1.0
68	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Left Curb	0.1
69	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Left Curb	0.3
70	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Handicapped Ramp, Left	0.1
71	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Right Curb	0.2
72	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Right Curb	0.1
73	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Right Curb	0.2
74	Sidewalks	Nemesio Canales Street	Concrete	Blue	Right Curb	0.1
75	Sidewalks	Nemesio Canales Street	Concrete	Blue	Left Curb	0.4
76	Sidewalks	Nemesio Canales Street	Metal	Yellow	Water Hydrant, Right	0.1
77	Sidewalks	Nemesio Canales Street	Concrete	Blue	Right Curb	0.2
78	Sidewalks	Nemesio Canales Street	Concrete	Blue	Left Curb	0.3
79	Sidewalks	Nemesio Canales Street	Concrete	Blue/Yellow	Left Curb	0.1
80	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Left Curb	0.1

Approved By: Ady Padan Ph.D. **Date: 10/15/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/15/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
81	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Left Curb	0.2
82	Sidewalks	Nemesio Canales Street	Concrete	White	Right Curb	0.1
83	Sidewalks	Nemesio Canales Street	Concrete	Yellow	Ramp, Right	0.2
84	**Sidewalks**	**Nemesio Canales Street**	**Concrete**	**Yellow**	**Right Curb**	**1.3**
85	Bridge	Ventana al Río Pathway	Concrete	Gray	Left Side Wall	0.1
86	Bridge	Ventana al Río Pathway	Concrete	Gray	Left Side Wall	0.2
87	Bridge	Ventana al Río Pathway	Concrete	Gray	Left Side Wall	0.1
88	Bridge	Ventana al Río Pathway	Concrete	Gray	Left Side Wall	0.1
89	Bridge	Ventana al Río Pathway	Metal	Red	Left Handrail	0.1
90	Bridge	Ventana al Río Pathway	Metal	Red	Left Handrail	0.4
91	Bridge	Ventana al Río Pathway	Metal	Red	Left Handrail	0.1
92	Bridge	Ventana al Río Pathway	Metal	Red	Left Handrail	0.2
93	Bridge	Ventana al Río Pathway	Concrete	Gray	Right Side Wall	0.1
94	Bridge	Ventana al Río Pathway	Concrete	Gray	Right Side Wall	0.1
95	Bridge	Ventana al Río Pathway	Concrete	Gray	Right Side Wall	0.1
96	Bridge	Ventana al Río Pathway	Concrete	Gray	Right Side Wall	0.0

Approved By: Ady Padan Ph.D. **Date: 10/15/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/15/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
97	Bridge	Ventana al Río Pathway	Metal	Red	Right Handrail	0.1
98	Bridge	Ventana al Río Pathway	Metal	Red	Right Handrail	0.3
99	Bridge	Ventana al Río Pathway	Metal	Red	Right Handrail	0.1
100	Bridge	Ventana al Río Pathway	Metal	Red	Right Handrail	0.2
101	Bridge	Ventana al Río Pathway	Ceramic	Black	Floor Tile Mosaic	0.1
102	Bridge	Ventana al Río Pathway	Ceramic	Yellow	Floor Tile Mosaic	0.2
103	Bridge	Ventana al Río Pathway	Ceramic	Red	Floor Tile Mosaic	0.1
104	Bridge	Ventana al Río Pathway	Ceramic	Blue	Floor Tile Mosaic	0.2
105	Bridge	Ventana al Río Pathway	Ceramic	White	Floor Tile Mosaic	0.1
106	Bridge	Ventana al Río Pathway	Ceramic	Lt. Blue	Floor Tile Mosaic	0.2
107	Stairs	Staircase, Torrado & San Felipe St.	Concrete	Gray	Wall B	0.1
108	Stairs	Staircase, Torrado & San Felipe St.	Ceramic	Brown	Wall B	0.3
109	Stairs	Staircase, Torrado & San Felipe St.	Concrete	Lt. Brown	Handrail Base, Left	0.1
110	Stairs	Staircase, Torrado & San Felipe St.	Metal	Brown	Handrail	0.1
111	Stairs	Staircase, Torrado & San Felipe St.	Concrete	Lt. Brown	Handrail Base, Right	0.2
112	Stairs	Staircase, Torrado & San Felipe St.	Metal	Brown	Handrail	0.1

Approved By: Ady Padan Ph.D. **Date: 10/15/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/15/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
113	Stairs	Staircase, Torrado & San Felipe St.	Ceramic	Blue	Step Riser Mosaic	0.2
114	Stairs	Staircase, Torrado & San Felipe St.	Ceramic	Brown	Step Riser Mosaic	0.3
115	Stairs	Staircase, Torrado & San Felipe St.	Ceramic	Yellow	Step Riser Mosaic	0.1
116	Stairs	Staircase, Torrado & San Felipe St.	Ceramic	Green	Step Riser Mosaic	0.2
117	Stairs	Staircase, Torrado & San Felipe St.	Ceramic	Yellow	Step Riser Mosaic	0.1
118	Stairs	Staircase, Torrado & San Felipe St.	Ceramic	Red	Step Riser Mosaic	0.2
119	Stairs	Staircase, Torrado & San Felipe St.	Metal	Gray	Light Post	0.3
120	Stairs	Staircase, Torrado & San Felipe St.	Metal	Gray	Light Post	0.1
121	Stairs	Staircase, Torrado & San Felipe St.	Metal	Gray	Light Post	0.2
122	Stairs	Staircase, Torrado & San Felipe St.	Metal	Gray	Light Post	0.1
123	Stairs	Staircase, Torrado & San Felipe St.	Metal	Gray	Light Post	0.1
124	**Sidewalks**	**Guillermo Estevez Street (PR-141)**	**Concrete**	**Yellow**	**Left Curb**	**3.2**
125	**Sidewalks**	**Guillermo Estevez Street (PR-141)**	**Concrete**	**Yellow**	**Left Curb**	**4.1**
126	**Sidewalks**	**Guillermo Estevez Street (PR-141)**	**Concrete**	**Yellow**	**Right Curb**	**4.0**
127	**Sidewalks**	**Guillermo Estevez Street (PR-141)**	**Concrete**	**Yellow**	**Right Curb**	**3.7**
128	Sidewalks	Guillermo Estevez Street (PR-141)	Concrete	Yellow	Right Curb	0.1

Approved By: Ady Padan Ph.D. **Date: 10/15/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/15/2024
Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera
Address: Jayuya, Puerto Rico XRF Serial No.: 03210

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
129	**Sidewalks**	**Guillermo Estevez Street (PR-141)**	**Metal**	**White/Yellow Red/Black**	**Water Hydrant**	**4.6**
130	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Left Curb**	**3.1**
131	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Left Curb**	**2.1**
132	Sidewalks	Libertad Street	Concrete	White	Left Curb	0.1
133	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Right Curb**	**3.7**
134	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Right Curb**	**3.3**
135	Sidewalks	Libertad Street	Concrete	White	Left Curb	0.1
136	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Ramp, Left**	**2.3**
137	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Left Curb**	**2.0**
138	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Right Curb**	**3.0**
139	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Ramp, Left**	**2.4**
140	Sidewalks	Libertad Street	Concrete	White	Left Curb	0.1
RE-TESTING						
141	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Left Curb**	**2.0**
142	Sidewalks	Libertad Street	Concrete	White	Left Curb	0.1
143	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Right Curb**	**3.4**

Approved By: Ady Padan Ph.D. **Date: 10/15/2024**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: **Del Torre Engineering** Date: 10/15/2024

Project Name: Jayuya Urban Center, Sidewalks and Public Parking Inspector: Elme Rivera

Address: Jayuya, Puerto Rico XRF Serial No.: 03210

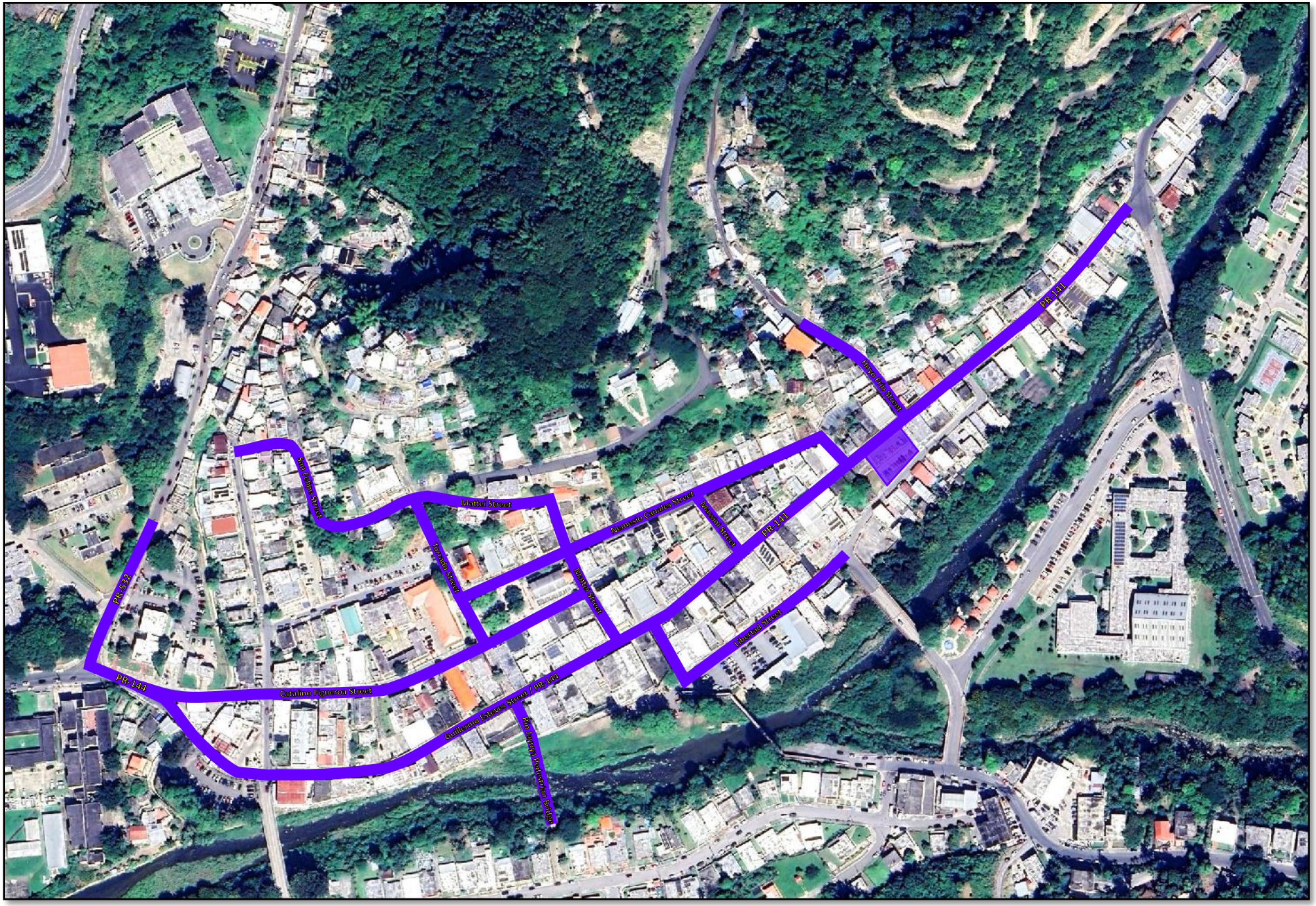
Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm^2)
144	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Right Curb**	**3.3**
145	Sidewalks	Libertad Street	Concrete	White	Left Curb	0.1
146	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Ramp, Left**	**2.0**
147	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Left Curb**	**1.9**
148	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Right Curb**	**2.9**
149	**Sidewalks**	**Libertad Street**	**Concrete**	**Yellow**	**Ramp, Left**	**2.3**
150	Sidewalks	Libertad Street	Concrete	White	Left Curb	0.2
151					Calibration	1.1
152					Calibration	1.0
153					Calibration	1.0

Approved By: Ady Padan Ph.D. **Date: 10/15/2024**

Appendix I



Site Location: Jayuya Urban Center
Jayuya, Puerto Rico



SELECTIVE PHOTOS

JAYUYA URBAN CENTER

Jayuya, Puerto Rico



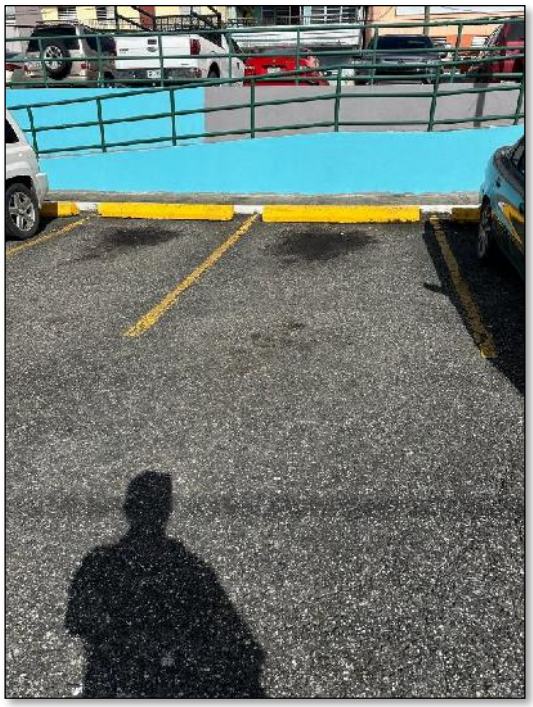
GENERAL VIEW
Public Parking Lot (Lower Level)



GENERAL VIEW
Public Parking Lot (Upper Level)



Public Parking Lot, Upper Level
Blue/White LBP Asphalt Floor Lines

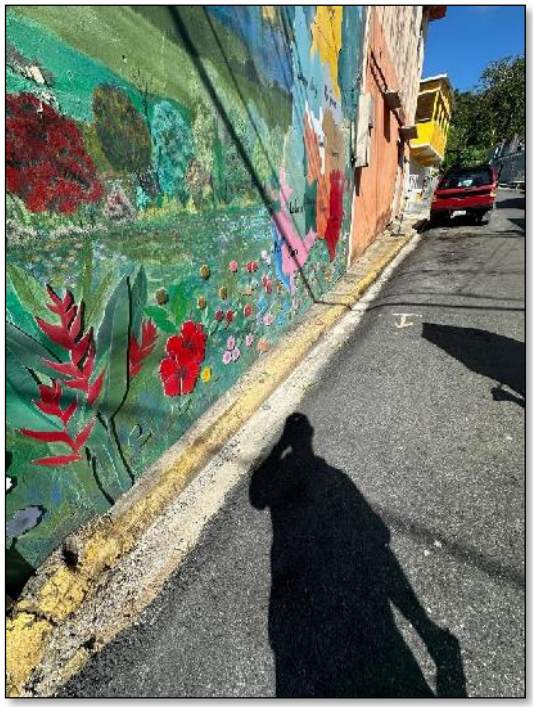


Public Parking Lot, Lower Level
Yellow LBP Concrete Wheel Stops &
Yellow LBP Asphalt Floor Lines

SELECTIVE PHOTOS

JAYUYA URBAN CENTER

Jayuya, Puerto Rico



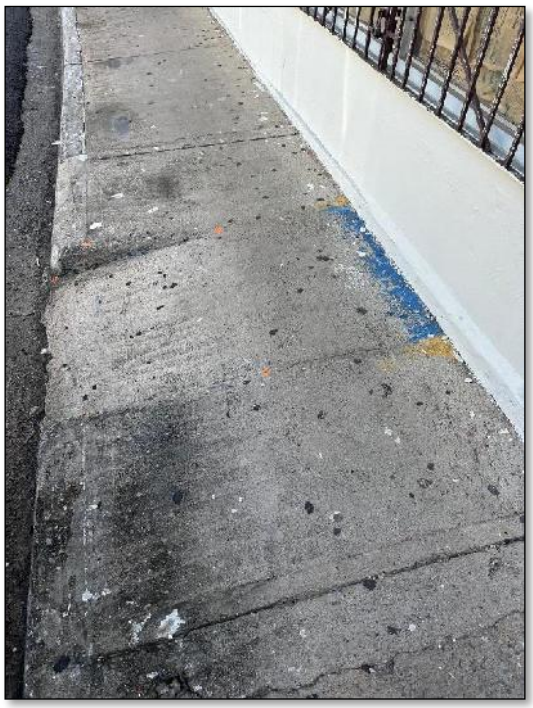
Hoyo Frío Street
Yellow LBP Left Concrete Curb



Hoyo Frío Street
Yellow LBP Right Concrete Curb



State Road PR-141
Yellow LBP Metal Water Hydrant



State Road PR-141
Yellow/Blue LBP Concrete Curb Ramp

SELECTIVE PHOTOS

JAYUYA URBAN CENTER

Jayuya, Puerto Rico



State Road PR-141
Yellow LBP Concrete Curb



State Road PR-141
Yellow LBP Concrete Curb



State Road PR-141
Yellow LBP Concrete Curb &
Brown LBP Concrete Light Post



State Road PR-141
White LBP Concrete Curb

SELECTIVE PHOTOS

JAYUYA URBAN CENTER

Jayuya, Puerto Rico



State Road PR-141
Yellow LBP Concrete Curb &
Red LBP Wood Light Post



State Road PR-144
Yellow LBP Concrete Curb



State Road PR-144
White LBP Concrete Curb



State Road PR-144
Yellow LBP Concrete Curb

SELECTIVE PHOTOS

JAYUYA URBAN CENTER

Jayuya, Puerto Rico



State Road PR-144
Yellow LBP Metal Water Hydrant



State Road PR-144
LBP Yellow Bridge Curb



State Road PR-144
Yellow LBP Concrete Curb



State Road PR-144
Yellow LBP Concrete Curb

SELECTIVE PHOTOS

JAYUYA URBAN CENTER

Jayuya, Puerto Rico



State Road PR-144
Yellow LBP Concrete Curb



State Road PR-144
Yellow LBP Concrete Curb



State Road PR-532
Yellow LBP Concrete Curb



State Road PR-532
Yellow LBP Concrete Curb &
LBP Yellow Metal Manhole

SELECTIVE PHOTOS

JAYUYA URBAN CENTER

Jayuya, Puerto Rico



Catalino Figueroa Street
Yellow LBP Concrete Water Register



Catalino Figueroa Street
Yellow LBP Concrete Curb



Catalino Figueroa Street
Yellow LBP Concrete Curb



Catalino Figueroa Street
Yellow LBP Concrete Bridge Curbs &
White LBP Concrete Bridge Barriers

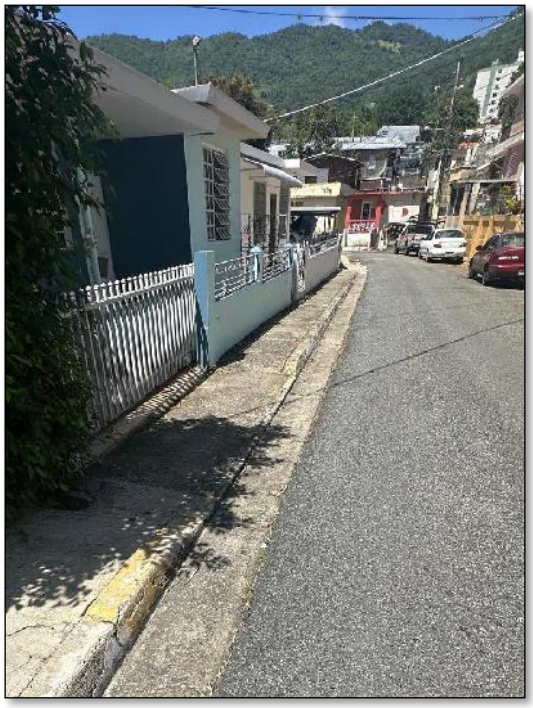
SELECTIVE PHOTOS

JAYUYA URBAN CENTER

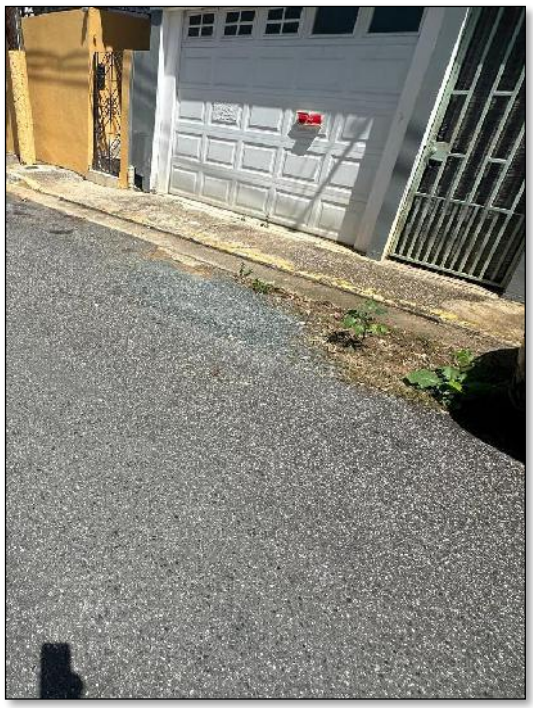
Jayuya, Puerto Rico



Catalino Figueroa Street
Yellow LBP Concrete Curb



San Felipe Street
Yellow LBP Concrete Curb



San Felipe Street
Yellow LBP Concrete Curb



San Felipe Street
Yellow LBP Metal Water Hydrant

SELECTIVE PHOTOS

JAYUYA URBAN CENTER

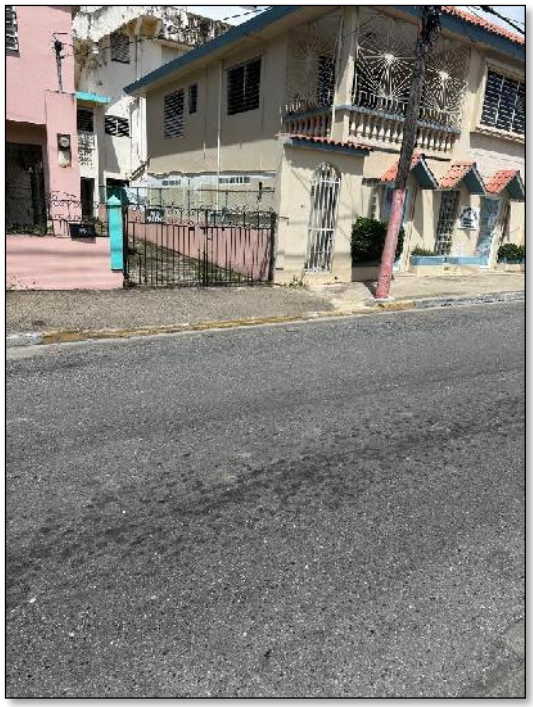
Jayuya, Puerto Rico



Libertad Street
Yellow LBP Concrete Curb



Libertad Street
Yellow LBP Concrete Curb

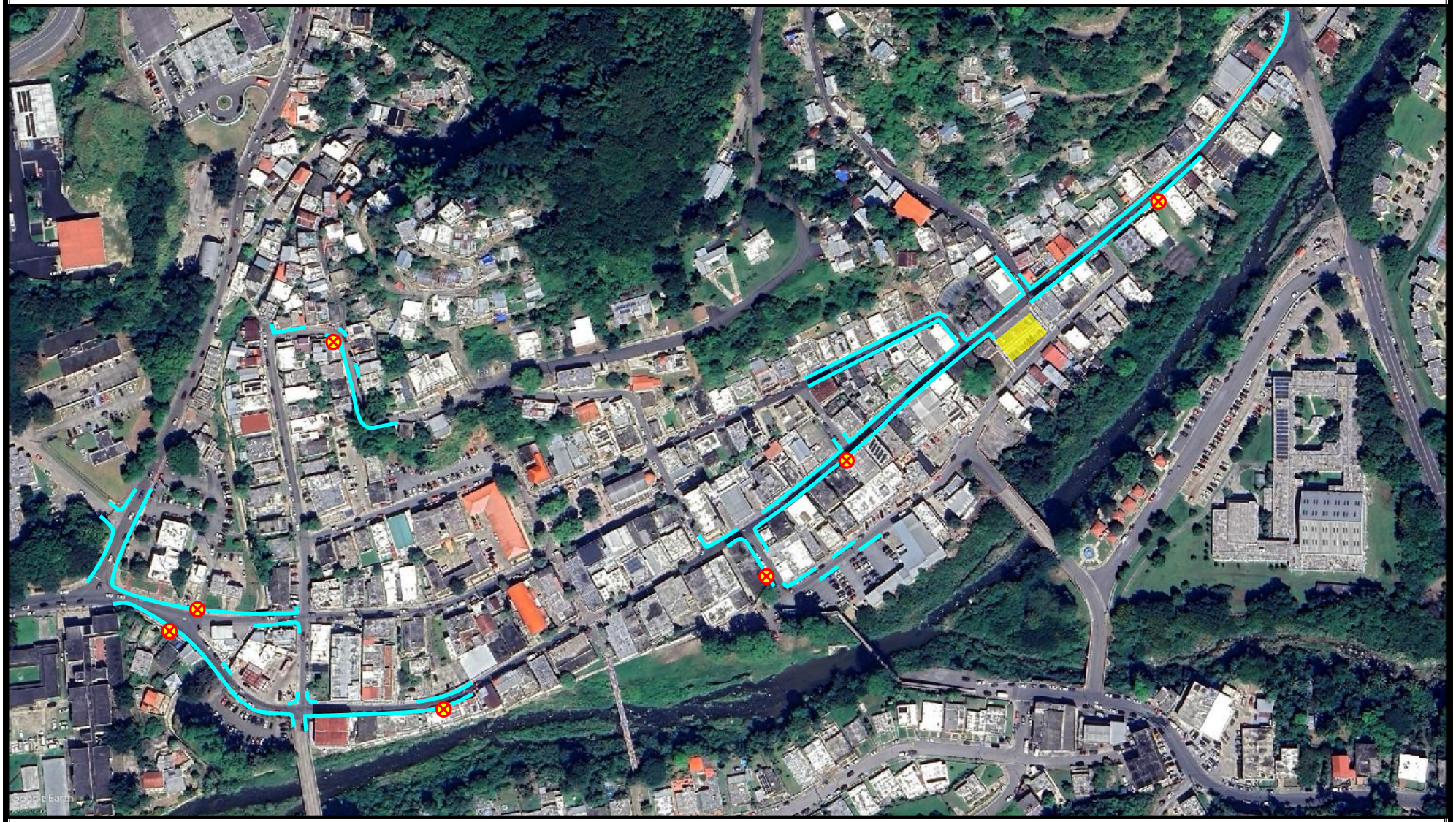


Libertad Street
Yellow LBP Concrete Ramp

AES International Inc.

Appendix □





Distribution of LBP Components
Jayuya Urban Center, Sidewalks and Public Parking
Jayuya, Puerto Rico

LEGEND:

- LBP Metal Water Hydrant
- LBP Concrete Wheel Stops & Floor Lines
- LBP Concrete Curbs & Ramps

Environmental Consulting, Training, and Laboratory Services
(787) 722-0220 / (787) 724-5788

NOT AT SCALE

AES International Inc.

ASBESTOS



TABLE OF CONTENTS

I. SUMMARY

1.0 INTRODUCTION

2.0 GENERAL BACKGROUND

3.0 PROJECT IDENTIFICATION/DESCRIPTION

4.0 METHODS OF BUILDING INSPECTIONS

5.0 SAMPLING METHODS

6.0 INSPECTION RESULTS

7.0 CONCLUSIONS

APPENDIX I - AESI Certifications and Accreditations

APPENDIX II - Hazard Assessment

APPENDIX III - Bulk Samples Results

APPENDIX IV - Schematic Distribution of ACM Sampling Points

APPENDIX V - Site Location & Selective Photos

I. SUMMARY

A survey for Asbestos Containing Materials (ACM) was conducted by Analytical Environmental Services International (AESI), Inc. for Jayuya Urban Center. The survey included the sidewalks of streets Hoyo Frío, Nemesio Canales, Mattei, Massini, Torrado, San Felipe, Catalino Figueroa, Guillermo Esteves, Libertad, states roads PR-141, PR-144, PR-532, Río Jayuya pedestrian bridge (Camino Ventana al Río) and a public parking lot on Libertad Street.

The survey was conducted on 10/15/2024 by Elme Rivera, a DRNA/AHERA Certified Asbestos Inspector.

The scope of the survey included sampling and physical assessments of suspected ACM from the road sections.

Three (3) samples were collected from suspected ACM materials. Asbestos fibers were not detected in any of the samples collected and analyzed.

1.0 INTRODUCTION

A survey for Asbestos Containing Materials (ACM) was conducted by Analytical Environmental Services International (AESI), Inc. for Jayuya Urban Center. The survey included the sidewalks of streets Hoyo Frío, Nemesio Canales, Mattei, Massini, Torrado, San Felipe, Catalino Figueroa, Guillermo Esteves, Libertad, states roads PR-141, PR-144, PR-532, Río Jayuya pedestrian bridge (Camino Ventana al Río) and a public parking lot on Libertad Street.

The inspection was conducted on 10/15/2024 by Elme Rivera, a DRNA/AHERA Certified Asbestos Building Inspector (see Appendix I for credentials).

The inspection was performed based on modified Asbestos Hazards Emergency Response Act (AHERA) protocol, according to the following scenario:

- The road was divided into functional spaces (in Km).
- A visual inspection was performed.

Suspected materials were observed during visual inspection.

2.0 GENERAL BACKGROUND

Asbestos was used in the construction industry from 1900 to 1989. It is still being used today in various products. The health effects of asbestos have been studied since the 1930's. More health studies have been conducted in asbestos than any other natural substance. The mere presence of asbestos containing materials does not necessarily constitute a health hazard. However, when these materials become disturbed from building renovation, maintenance, or other everyday activities that allow fibers to be released into the environment, a potential hazard does exist.

The relationship between exposure level and health risk is very complex. Although this relationship is not completely understood, asbestos exposure has been associated with various types of lung diseases including a debilitating lung disease called ASBESTOSIS; a rare cancer of chest called MESOTHELIOMA; and cancers of the esophagus, stomach, colon and other organs. Asbestosis is not fatal; it is, however, incurable. One who has it cannot breathe easily, and physical activity becomes limited. MESOTHELIOMA is 100% fatal, as there is no cure. These diseases can be directly linked to asbestos because of the mineral particles that can be found in the lining of the lungs and stomach, since the body cannot absorb these minerals. Tests have determined that asbestos can cause cancer, but scientists disagree on the amount of asbestos fibers that must be inhaled to cause cancer. The nose filters out all visible particles. Therefore, only the microscopic fibers are the ones who cause the problems.

Studies indicate different health effects resulting from exposure to chrysotile asbestos versus exposure to the amphibole form of asbestos. The later, which include tremolite, amosite, actinolite, anthophyllite and crocidolite have more significant health impact than chrysotile.

Some scientists cite studies concluding that is the size of the fibers deposited in the lungs that result in cancer. Long, thin fibers, greater than 8 microns in length and less than 0.25 microns in diameter show the highest potential of cancer development.

2.1 National Emission Standards for Hazardous Air Pollutants (NESHAP)

The EPA Asbestos NESHAP standard defines friable ACM as any material containing more than one (1) percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM is any material that contains more than one (1) percent asbestos and cannot be crumbled, pulverized, or reduced to powder by hand pressure.

The EPA's rules concerning the application, removal, and disposal of ACM, as well as manufacturing, spraying and fabricating of ACM were issued under the asbestos NESHAP regulation (U.S. EPA National Emission Standards for Hazardous Air Pollutants, 40 CFR 61 Subpart M, October 30, 1987). The asbestos NESHAP regulation governs asbestos demolition and renovation projects in all facilities. The NESHAP rule usually requires owners or operators to have all friable ACM removed before the building is demolished and may require its removal before renovation. If friable ACM shall be disturbed, the NESHAP rule may require appropriate work practices, or procedures for emission control. The rule states that any ACM, which may become friable, poses a potential hazard that should be addressed.

A revised NESHAP ruling was released on November 20, 1990, effective February 20, 1991 which includes as the responsibility of the owner, or operator, to "prior to the commencement of the demolition or renovation, thoroughly inspect the affected facility or part of the facility where demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II non-friable ACM." (40 CFR, Part 61, National Emission Standards for hazardous Air Pollutants, Asbestos NESHAP Revision, Final Rule, November 20, 1990).

3.0 PROJECT IDENTIFICATION/DESCRIPTION

The project consists of the rehabilitation of sidewalks of selected streets of Jayuya Urban Center, Jayuya, Puerto Rico.

4.0 METHODS OF ROAD INSPECTION

Each sample collected was classified according to the condition of Asbestos Containing Materials (ACM) in that location and the potential for material disturbance. All the areas were visually inspected for components such as sidewalks, curbs and a parking lot.

5.0 SAMPLING METHODS

Three (3) samples were collected from suspected ACM materials from black rubber joints of the bridge located on Ventana al Rio pathway.

6.0 INSPECTION RESULTS

Suspected materials were observed during visual inspection. Results are presented in Appendix III. Asbestos fibers were not found in any of the samples collected and analyzed.

7.0 CONCLUSIONS

A survey for ACM was conducted for Jayuya Urban Center. The subject of the survey consists of the sidewalks of streets Hoyo Frío, Nemesio Canales, Mattei, Massini, Torrado, San Felipe, Catalino Figueroa, Guillermo Esteves, Libertad, states roads PR-141, PR-144, PR-532, Río Jayuya pedestrian bridge (Camino Ventana al Río) and a public parking lot on Libertad Street.

No ACM were detected.

The ACM survey results do not include materials which are non-accessible, non-visible and may be present behind/inside the walls or hidden inside the structures. These materials must be assessed at the time of the renovation.



Elme Rivera
Asbestos Inspector
DRNA Lic# ASB-1223-0581-SI

Appendix I



National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AES International
611 Monserrate
Santurce, PR 00907
Mr. Ady Padan
Phone: 787-722-0220 Fax: 787-724-5788
Email: yota1@bellsouth.net
http://www.aesipr.org

ASBESTOS FIBER ANALYSIS **NVLAP LAB CODE 200051-0**

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

Effective 2024-01-01 through 2024-12-31

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200051-0

AES International

Santurce, PR

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2024-01-01 through 2024-12-31

Effective Dates

For the National Voluntary Laboratory Accreditation Program

DRNA Asbestos Inspector Credential



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Elme Rivera Pérez

Inspector

A trabajar en la remoción de asbesto en Puerto Rico. Esta persona **NO** es un empleado del DRNA.

ASB-1223-0581-SI
Número de Registro

14-nov-2024
Fecha de vencimiento

Firma Autorizada - Departamento Recursos Naturales y Ambientales

AES International Inc.

Appendix II



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name **Del Torre Engineering**

Structure: "Ventana Al Río" Pathway

Project Name: ACM Survey for Jayuya Urban Center, Sidewalks & Public Parking

Inspection Date: 10/15/2024

Page: 1 of 1

Homogeneous Material Description		Material Category	Asbestos Content	Friability	Location of Materials	Asbestos Contents	Total Square Feet of ACM	AHERA Assessment Category (1-7, X, None)	Hazard Ranking (1-7)
I.D. Number	Material Description								
J-ER-1	Black Rubber, Joint of Bridge Floor, North	Misc.	No	NF	Bridge Floor	ND		X	
J-ER-2	Black Rubber, Joint of Bridge Floor, Northeast	Misc.	No	NF		ND		X	
J-ER-3	Black Rubber, Joint of Bridge Floor, South	Misc.	No	NF		ND		X	

Inspected by: Elme Rivera

Date: 10/15/2024

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

AHERA Assessment Category: 1 = Damaged of significantly damaged TSI ACBM; 2 = Damaged friable surfacing ACBM; 3 = Significantly damaged friable surfacing ACBM; 4 = Damaged or significantly damaged friable miscellaneous ACBM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage; 7 = Any remaining friable ACBM or friable suspected ACBM; X = Not applicable (material is non-ACBM, non-friable surfacing or miscellaneous materials); None = No assessment category provided in original inspection.

Hazard Ranking Category: 1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged; 5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACBM

*** - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected**

AES International Inc.

Appendix III



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907
PH. (787) 722-0220 Fax (787) 724-5788

NVLAP LAB CODE 200051-0
TESTING

Job ID: B24100043

REPORT NUMBER

RP24102209

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Del Torre Engineering	Date Collected:	10/15/2024
Project Name:	Urban Center Sidewalks & Public Building, Jayuya P.R	Date Received:	10/18/2024
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID / Client Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B24100043.01 B24100043.01.A J-ER1 Layer % of Total :100% Date Analyzed: 10/21/2024 Sample Location: Comments: Paint included as binder.	Semi Hard, Rubber with Fibers and Paint Black	No		Cellulose 2	Rubber 93 Binders/Paint 5
B24100043.02 B24100043.02.A J-ER2 Layer % of Total :100% Date Analyzed: 10/21/2024 Sample Location: Comments:	Semi Hard, Rubber with Fibers Black	No		Cellulose 2	Rubber 98
B24100043.03 B24100043.03.A J-ER3 Layer % of Total :100% Date Analyzed: 10/21/2024 Sample Location: Comments:	Semi Hard, Rubber with Fibers Black	No		Cellulose 1	Rubber 99

Comments:
For all heterogeneous and layered samples easily separated into sublayers, each component is analyzed and reported separately.
Samples are analyzed by PLM using dispersion staining techniques in accordance with US EPA methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.

MICROANALYST: Jessica Garcia

QUALITY CONTROL: Ady Padan Ph.D

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to get the conclusive asbestos content. This report relates only to the items tested as received. This report shall not be reproduced except in full and not without written approval of the laboratory. This report shall not be used to claim endorsement by NVLAP or any agency of the US Government. Methods used for determination of asbestos in bulk samples are found in both methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate, 2nd. Floor, Santurce, P.R. 00907
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Bulk Sample Analysis

Client Name: Del Torre Engineering
Address:
Contact:
Phone/Fax:

Project Name: Urban Center Sidewalks & Electric Cabling Jayuya P.R.
Site Location: Jayuya, PR
Samplers Name: Efrain Rivera
Company: ACE

Chain of Custody Record

24100043

Sample I. D.	Sample Description (i.e. Location, Name, etc.)	Collected		Analysis Required		Comments LAB ID
		Date	Time	PLM	Other	
J-ER1	Soil Hazard Assessment	10/15/24	14:30	✓		-01
J-ER2	"	"	14:36	✓		-02
J-ER3	Soil Hazard Assessment	10/15/24	14:42	✓		-03

Turnaround Time: Normal: ✓ Rush:

Relinquished By:	
Date/ Time:	10/18/24 1:00
Received By:	
Date/ Time:	10/18/24 7:00
Relinquished By:	
Date/ Time:	
Received By:	
Date/ Time:	

Delivered Directly to Lab: ☐ **Shipped:** ☐
Method of Shipment:
Lab. Recipient:
Date:

Job ID:B24100043
Del Torre Engineering

Appendix I





DISTRIBUTION OF ACM SAMPLING POINTS
Jayuya Urban Center, Sidewalks and Public Parking
Jayuya, Puerto Rico

LEGEND:

♦**J-ER#** ACM Sampling Point

Environmental Consulting, Training, and Laboratory Services
(787) 722-0220 / (787) 724-5788

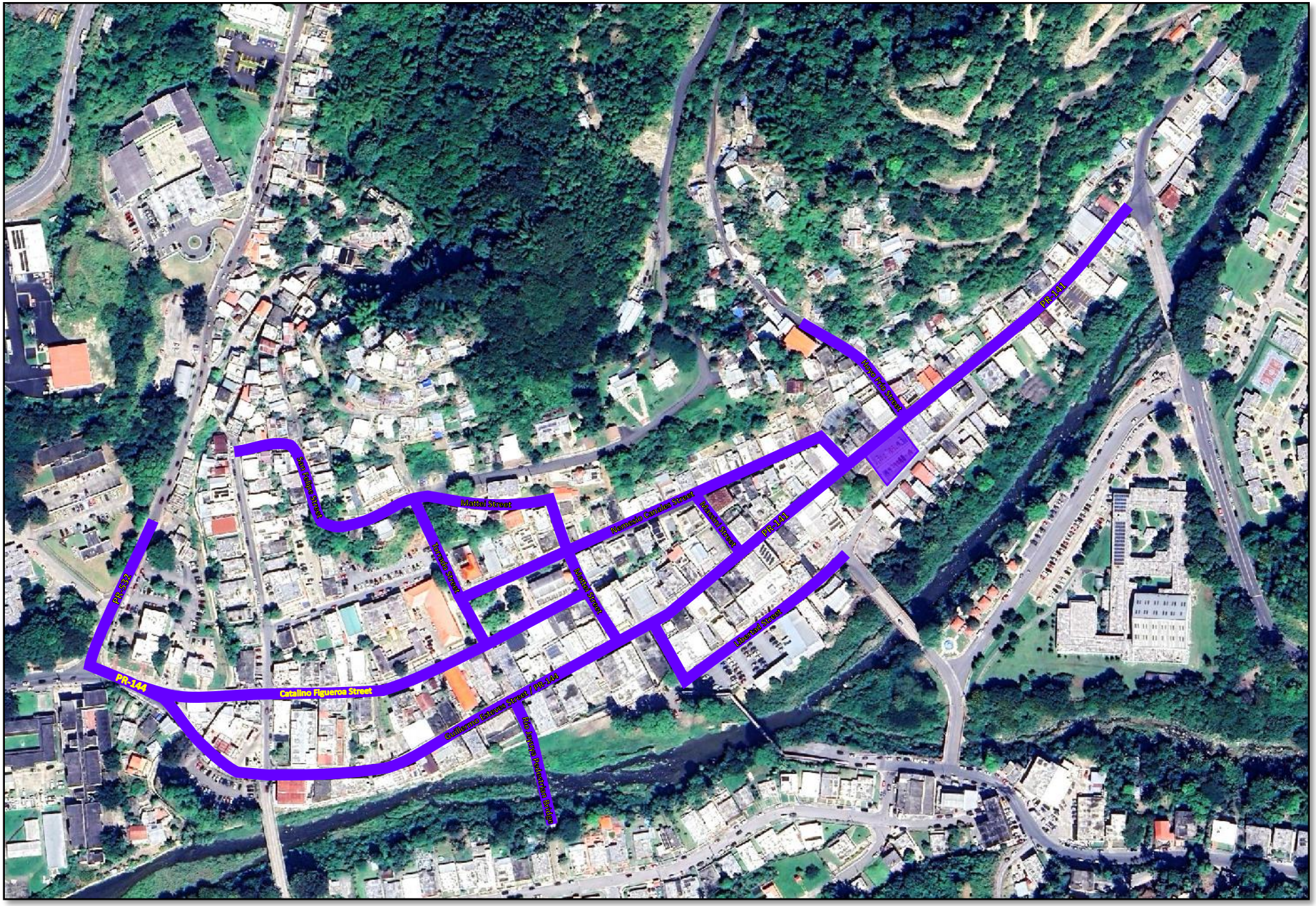
NOT AT SCALE

AES International Inc.

Appendix □



Site Location: Jayuya Urban Center
Jayuya, Puerto Rico



SELECTIVE PHOTOS

JAYUYA URBAN CENTER

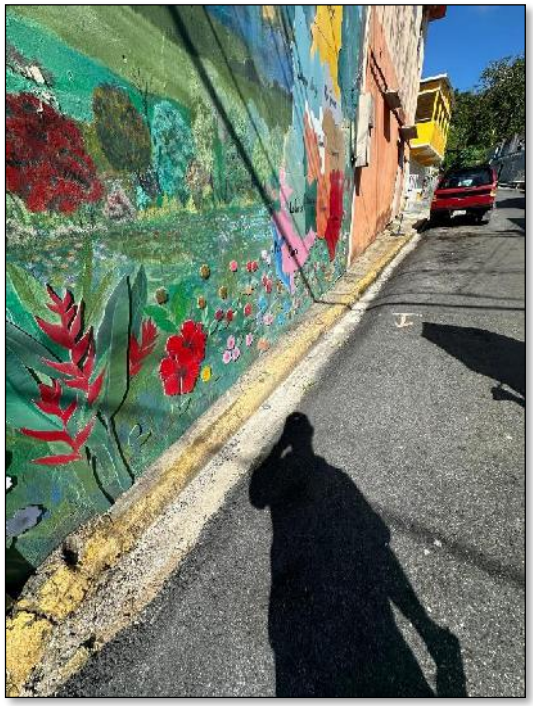
Jayuya, Puerto Rico



GENERAL VIEW
Public Parking Lot (Lower Level)



GENERAL VIEW
Public Parking Lot (Upper Level)



GENERAL VIEW
Hoyo Frío Street



GENERAL VIEW
State Road PR-141

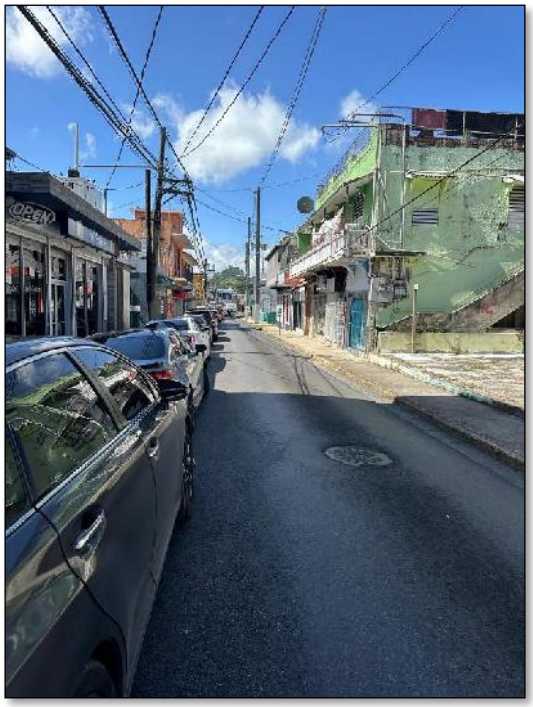
SELECTIVE PHOTOS

JAYUYA URBAN CENTER

Jayuya, Puerto Rico



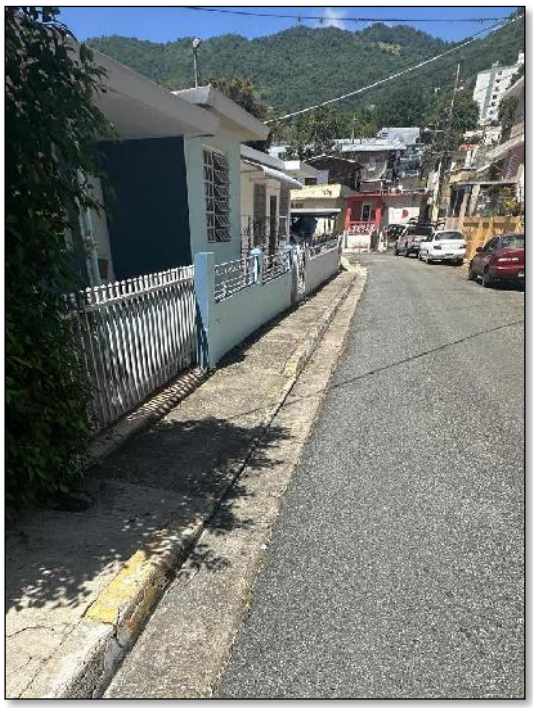
GENERAL VIEW
State Road PR-144



GENERAL VIEW
State Road PR-532



GENERAL VIEW
Catalino Figueroa Street



GENERAL VIEW
San Felipe Street

SELECTIVE PHOTOS

JAYUYA URBAN CENTER

Jayuya, Puerto Rico



GENERAL VIEW
Libertad Street



GENERAL VIEW
Mattei Street



GENERAL VIEW
Torrado Street

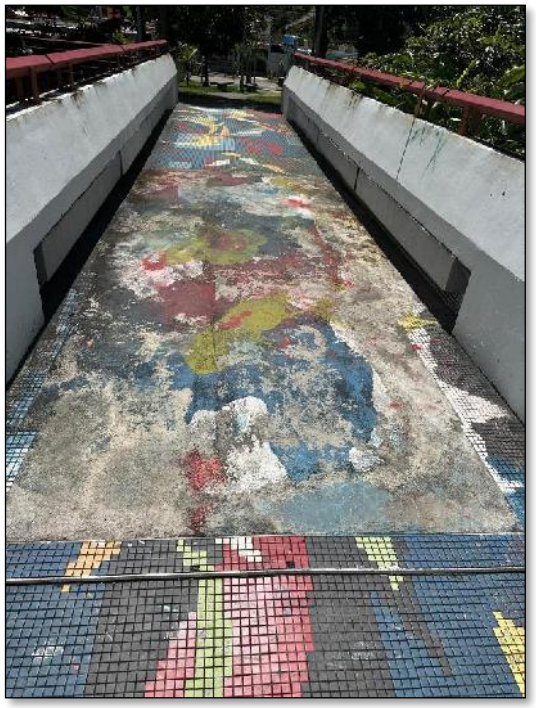


GENERAL VIEW
Río Jayuya Pedestrian Bridge
(Camino Ventana al Río)

SELECTIVE PHOTOS

JAYUYA URBAN CENTER

Jayuya, Puerto Rico



GENERAL VIEW
Río Jayuya Pedestrian Bridge
(Camino Ventana al Río)



GENERAL VIEW
Río Jayuya Pedestrian Bridge
(Camino Ventana al Río)

Attachment 11:
Endangered Species

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

NOT FOR CONSULTATION

Location

Jayuya County, Puerto Rico



Local office

Caribbean Ecological Services Field Office

(939) 320-3135
(787) 851-7440
CARIBBEAN_ES@FWS.GOV

MAILING ADDRESS
Post Office Box 491
Boqueron, PR 622-0491

PHYSICAL ADDRESS
Office Park I
State Road #2 Km 156.5, Suite 303}
Mayaguez, PR 680

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

---

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

NOT FOR CONSULTATION

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
Puerto Rican Broad-winged Hawk *Buteo platypterus brunnescens* Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/5512	Endangered
Puerto Rican Parrot *Amazona vittata* Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/3067	Endangered

Reptiles

NAME	STATUS
Puerto Rican Boa *Chilabothrus inornatus* Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6628	Endangered

NOT FOR CONSULTATION

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act [2] and the Migratory Bird Treaty Act (MBTA) [1]. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their nests, should follow appropriate

regulations and implement required avoidance and minimization measures, as described in the various links on this page.

The data in this location indicates that no eagles have been observed in this area. This does not mean eagles are not present in your project area, especially if the area is difficult to survey. Please review the 'Steps to Take When No Results Are Returned' section of the Supplemental Information on Migratory Birds and Eagles document to determine if your project is in a poorly surveyed area. If it is, you may need to rely on other resources to determine if eagles may be present (e.g. your local FWS field office, state surveys, your own surveys).

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

NOT FOR CONSULTATION

Bald & Golden Eagles FAQs

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are an eagle (Bald and Golden Eagle Protection Act requirements may apply).

Proper interpretation and use of your eagle report
On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort line or no data line (red horizontal) means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide you in knowing when to implement avoidance and minimization measures to eliminate or reduce potential impacts from your project activities or get the appropriate permits should presence be confirmed.

How do I know if eagles are breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the RAIL Tool and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your “IPaC PROBABILITY OF PRESENCE SUMMARY” at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:
The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

NOT FOR CONSULTATION

Migratory birds

The Migratory Bird Treaty Act (MBTA) [1] prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (FWS).

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

The data in this location indicates that no migratory birds of concern have been observed in this area. This does not mean birds of concern are not present in your project area, especially if the area is difficult to survey. Please review the 'Steps to Take When No Results Are Returned' section of the Supplemental Information on Migratory Birds and Eagles document to determine if your project is in a poorly surveyed area. If it is, you may need to rely on other resources to determine what migratory birds of concern may be present (e.g. your local FWS field office, state surveys, your own surveys).

NOT FOR CONSULTATION

Migratory Bird FAQs

Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Avoidance & Minimization Measures for Birds describes measures that can help avoid and minimize impacts to all birds at any location year-round. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is one of the most effective ways to minimize impacts. To see when birds are most likely to occur and breed in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location, such as those listed under the Endangered Species Act or the Bald and Golden Eagle Protection Act and those species marked as “Vulnerable”. See the FAQ “What are the levels of concern for migratory birds?” for more information on the levels of concern covered in the IPaC migratory bird species list.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) with which your

project intersects. These species have been identified as warranting special attention because they are BCC species in that area, an eagle (Bald and Golden Eagle Protection Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, and to verify survey effort when no results present, please visit the Rapid Avian Information Locator (RAIL) Tool.

Why are subspecies showing up on my list?

Subspecies profiles are included on the list of species present in your project area because observations in the AKN for **the species** are being detected. If the species are present, that means that the subspecies may also be present. If a subspecies shows up on your list, you may need to rely on other resources to determine if that subspecies may be present (e.g. your local FWS field office, state surveys, your own surveys).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the RAIL Tool and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your “IPaC PROBABILITY OF PRESENCE SUMMARY” at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Bald and Golden Eagle Protection Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

NOT FOR CONSULTATION

Although it is important to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially BCC species. For more information on avoidance and minimization measures you can implement to help avoid and minimize migratory bird impacts, please see the FAQ “Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds”.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Proper interpretation and use of your migratory bird report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list does not represent all birds present in your project area. It is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide implementation of avoidance and minimization measures to eliminate or reduce potential impacts from your project activities, should presence be confirmed. To learn more about avoidance and minimization measures, visit the FAQ "Tell me about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Interpreting the Probability of Presence Graphs
Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:
The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

NOT FOR CONSULTATION

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

NOT FOR CONSULTATION

Facilities

Wildlife refuges and fish hatcheries

Refuge and fish hatchery information is not available at this time

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the NWI map to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

Transmittal Letter

June 28, 2024

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: 2024.07.11 10:59:02 -04'00'

SILMARIE PADRON Digitally signed by SILMARIE PADRON Date: 2024.07.11 12:36:07 -04'00'

Acting Caribbean ES Field Supervisor

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
CRP Program – June 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-000048	Nuevo Estacionamiento Público en la Calle Libertad
PR-CRP-000053	Sidewalk Revitalization Jayuya Urban Center
PR-CRP-000209	Iniciativa para la Rehabilitación de Integral de la Comunidad Especial "El Cerro"
PR-CRP-000342	Alumbrado y Reconstrucción de Aceras Ave. Emérito Estrada Rivera
PR-CRP-000446	Rehabilitación Plaza de Recreo Cristobal Colón
PR-CRP-000655	Plaza Urbanización Roosevelt
PR-CRP-000775	Revitalization of Architecture and Historical Facades in the Urban Center
PR-CRP-000988	Construcción de Ampliación de Estacionamiento Público
PR-CRP-001026	Conversion Of Del Valle Avenue into a Complete Street
PR-CRP-001192	Public Facilities Plaza Rafael Hernández Marín Río Piedras

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
Office of Disaster Recovery

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, ***"Nuevo Estacionamiento Público en la Calle Libertad"*** **(PR-CRP-000048)**, located between Liberty Street and PR-141 Road, Jayuya, PR 00664 (coordinates 18.219837°, -66.589825°), consisting in: the expansion of an existing public parking lot in the urban center of the municipality by constructing a two level elevated steel parking above the current occupation footprint (access to the upper level will be via the PR-141/Guillermo Esteves Street and the lower level will be accessible via the Libertad Street); a parking area for bicycles and motorcycles; increasing the total available parking spaces from 22 to 32 (a total footprint of 812.75 square meters (0.2 acres) and an area of 584.66 square meters (0.14 acres) that will be expanded within the existing footprint); excavating to prepare the base of the steel extension, installation of columns and steel level; installation of bumper guards/wheel stops; asphalt pavement and marking improvements; landscape improvements; and the installation of thermoplastic pavement/road markings, solar lighting poles, traffic signs and a mosaic mural, complies with the following criteria:

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.

USFWS Self-Certification
PR-CRP-00048

June 14, 2024

Ángel G. López-Guzmán
Deputy Director
Permits and Environmental Compliance Division

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

Date



Aerial View Map

Project Number: PR-CRP-000048

Project: Nuevo Estacionamiento Público en la Calle Libertad

Address: Liberty Street / Road PR-141, Jayuya, PR 00664

Legend

Proposed Project Footprint

2023 Vexcel Imaging Inc. Imagery

(Lat.18.219837°, Long.-66.589825°)

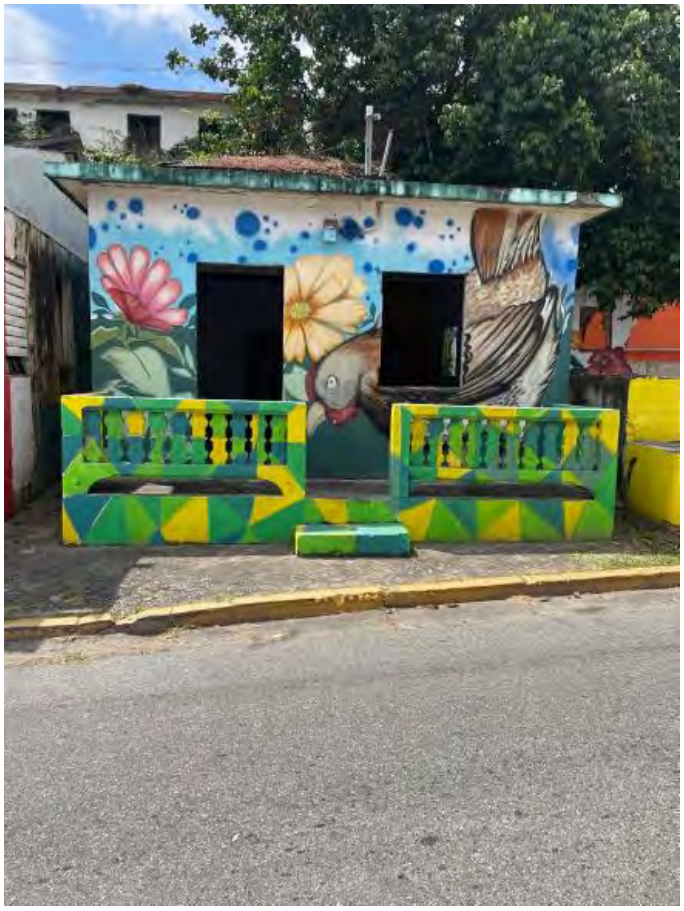
10 0 10 20 m

Environmental & Ecological Services

Nuevo Estacionamiento Público en la Calle Libertad PR-CRP-000209
Municipality of Juyuya
Liberty Street / Road PR-141, Jayuya, PR 00664
Lat. 18.219837°, Long. -66.589825°

Site Pictures





Nuevo Estacionamiento Público en la Calle Libertad PR-CRP-000209
Municipality of Juyuya
Liberty Street / Road PR-141, Jayuya, PR 00664
Lat. 18.219837°, Long. -66.589825°





Nuevo Estacionamiento Público en la Calle Libertad PR-CRP-000209
Municipality of Juyuya
Liberty Street / Road PR-141, Jayuya, PR 00664
Lat. 18.219837°, Long. -66.589825°

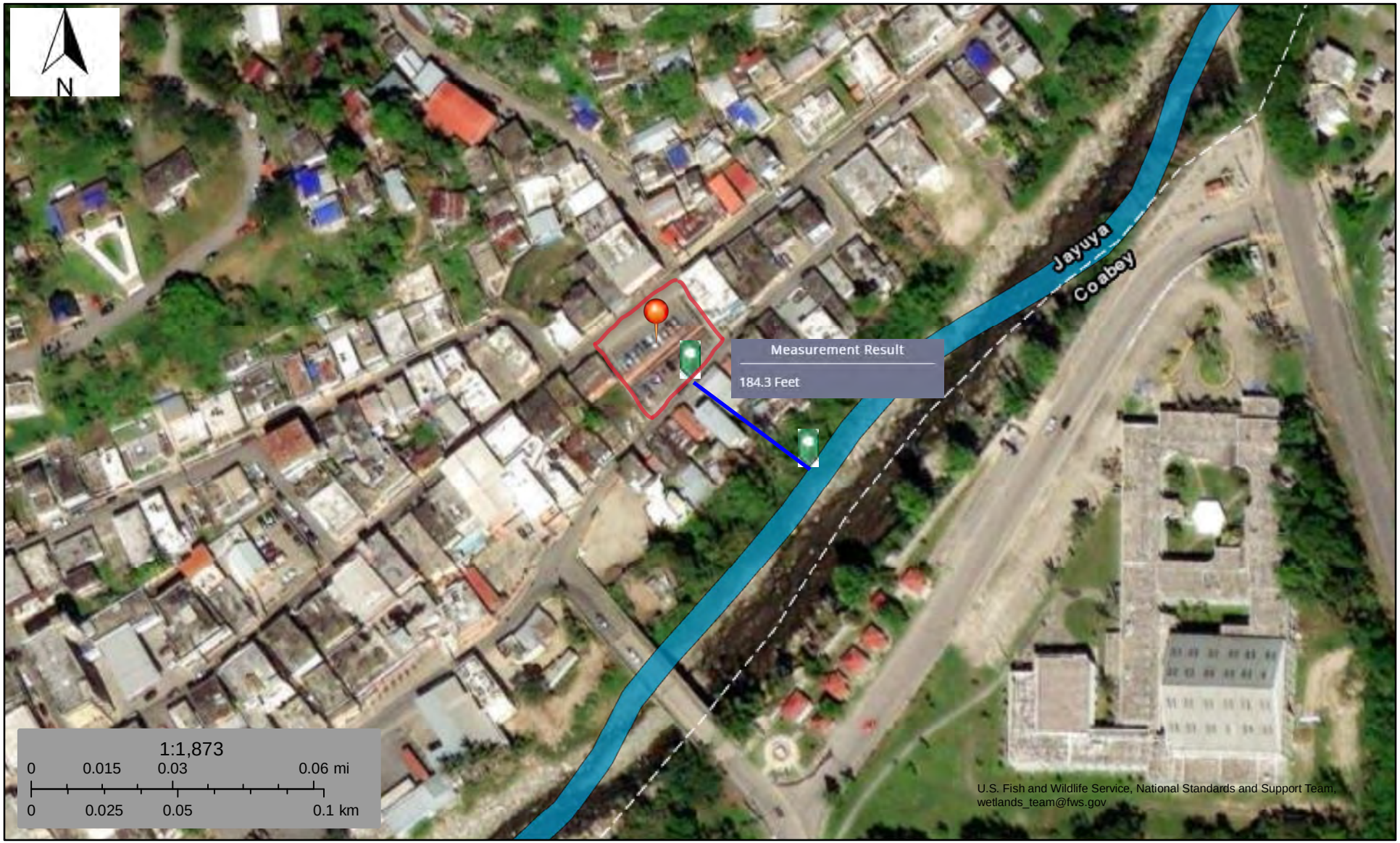




Wetlands Map- PR-CRP-000048

Address: Liberty Street, Jayuya PR
Coordinates: 18.219837°, -66.589825°

U.S. Fish and Wildlife Service
National Wetlands Inventory



May 29, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Attachment 12:
Farmland Protection

Farmlands Map - PR-CRP-000048

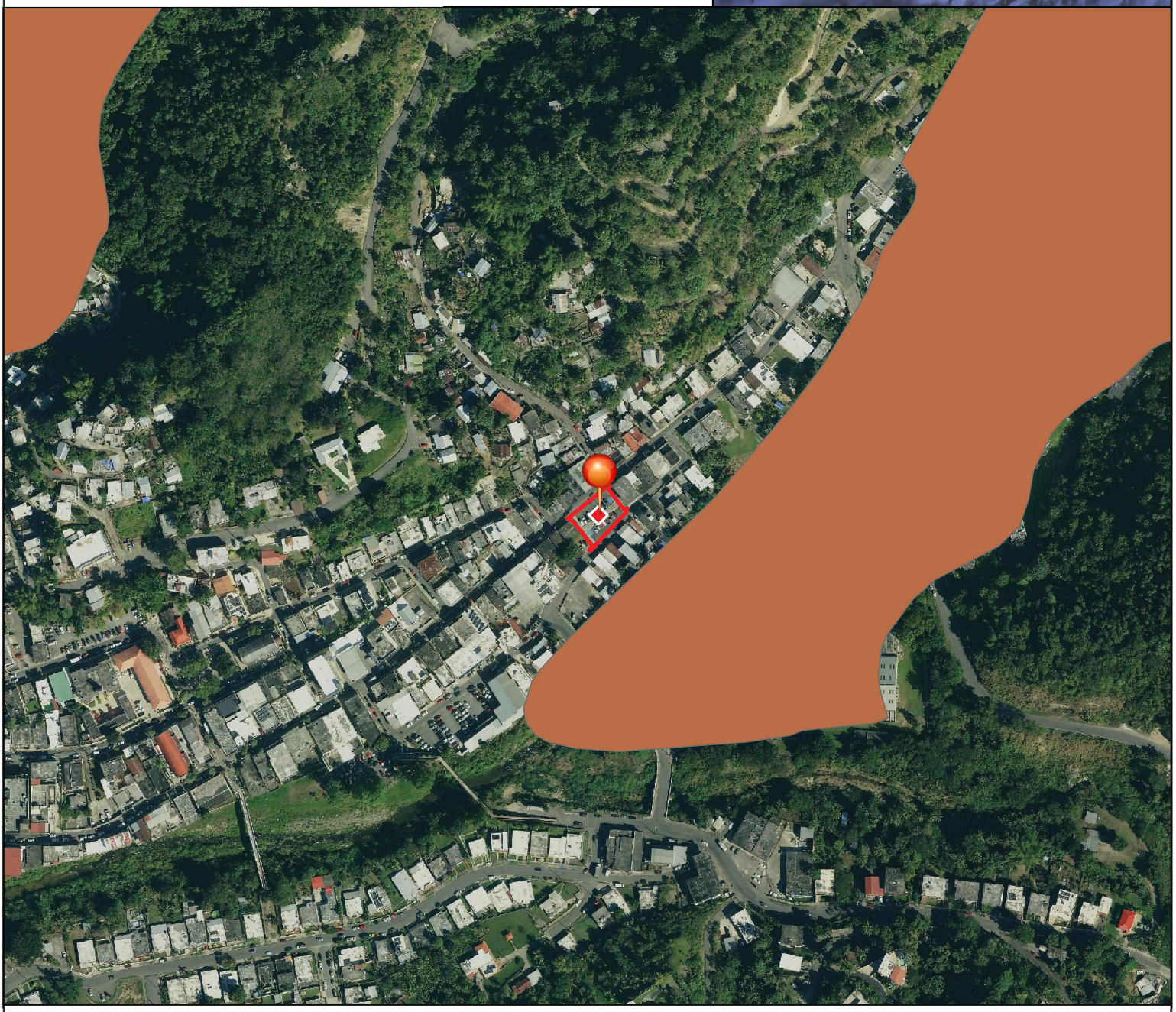
Project: Parking at Libertad Street

Address: Libertad Street and PR-141 (Guillermo Esteves Street)
Municipality of Jayuya, Puerto Rico

Coordinates: 18.219837°, -66.589825° (WGS 1984)

EES





Legend

- Project Location
- Project Footprint
- 18.219837 -66.589825
- Municipalities

- Farmland of statewide importance
- Prime farmland if drained
- Prime farmland if irrigated
- Prime farmland if irrigated and reclaimed of excess salts and sodium

Farmland Classification

- All areas are prime farmland

N

Scale: 1: 4,000

1 inch equals 0.10 kilometers

0 75 150 m

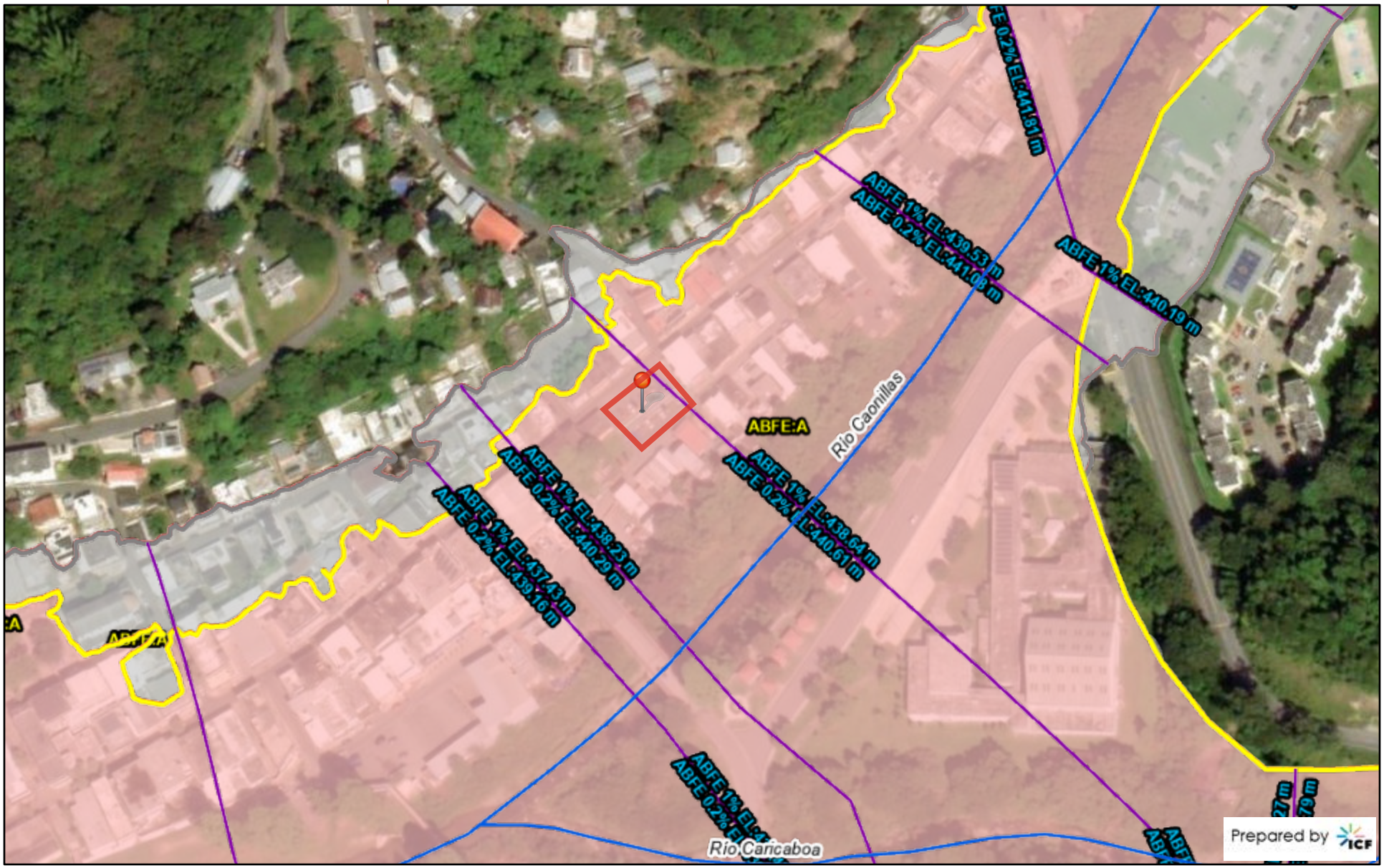
Spatial Reference:
NAD 1983 State Plane Puerto Rico Virgin Islands FIPS 5200 meters

Sources:
PRITS WFS Server (http://geoserver2.pr.gov/geoserver/pr_geodata/wfs). USDA Prime and other Important Farmlands (https://
SDMDataAccess.sc.egov .usda.gov /Spatial/SDMWM.wfs). 2022 Hexagon AB Imagery BasemapService .

Attachment 13:
Floodplain Management

PR-CRP-000048 ABFE Map

Address: Libertad Street and PR-141, Jayuya, PR 00664
Coordinates: 18.219837°, -66.589825°



8/21/2025, 4:26:52 PM

ArcGIS World Geocoding Service
Streamline (zoom in to make visible)
Advisory Base Flood Elevation (zoom in to make visible)
Limit of Moderate Wave Action (LiMWA)

Flood Hazard Extent
1% Annual Chance Flood
0.2% Annual Chance Flood
Zone/BFE Boundary
Flood Hazard Area (zoom in to make visible)
A
AO

AE
Coastal A Zone
VE
0.2% Annual Chance Flood Zone
A-Floodway
AE-Floodway
Coastal A Zone and Floodway

World Imagery
Low Resolution 15m Imagery
High Resolution 60cm Imagery
High Resolution 30cm Imagery
Citations
60cm Resolution Metadata

1:2,480
0 0.02 0.04 0.08 mi
0 0.03 0.06 0.12 km

FEMA, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

8 STEP PROCESS DOCUMENTATION

CDBG-DR PROGRAM

CITY REVITALIZATION PROGRAM

PR-CRP-000048
Nuevo Estacionamiento Público en la Calle Libertad

[redacted]

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

8-STEP PROCESS

PR-CRP-000048 – Jayuya, PR
Nuevo Estacionamiento Público en la Calle Libertad

Community Development Block Grant – Disaster Recovery (CDBR-DR), Puerto Rico Department of Housing (PRDOH) – City Revitalization Program

Decision Process for E.O. 11988 as provided by 24 CFR §55.20.

PROJECT OVERVIEW:

The proposed project, PR-CRP-000048, is within a municipality with structures damaged by Hurricanes Irma and María and it's located between Liberty Street and PR-141 Road, Jayuya, PR 00664; coordinates 18.219837°, -66.589825°. The project seeks to expand an existing public parking lot in the urban center of the municipality by constructing an elevated steel parking above the current occupation footprint. The access to the upper level will be via the PR-141/Guillermo Esteves Street and the lower level will be accessible via the Libertad Street. A parking area for bicycles and motorcycles will also be included. The proposed activity will add 10 parking spaces to increase the total available spaces from 22 to 32. The project includes: excavation to prepare the base of the steel extension, installation of columns and steel level, installation of bumper guards/wheel stops, asphalt pavement and marking improvements, landscape improvements, and the installation of thermoplastic pavement/road markings, solar lighting poles, traffic signs and a mosaic mural. The proposed activity has a total footprint of 812.75 square meters (0.2 acres) and an area of 584.66 square meters (0.14 acres) will be expanded within the existing footprint.

This public parking development, in conjunction with other municipal initiatives, will promote economic development within the municipality. The proposed public parking will be developed in coordination with the public infrastructure improvements that will be made in the municipality. In addition, this project will improve the accessibility to the urban area for residents as well as for people visiting the municipality. The public parking will be free of charge so that the general public can use the facilities, enjoy local commerce, and have adequate accessibility to business, municipal and other services offered in the urban center.

Step 1: *Determine whether the action is located in a 100-year floodplain (or a 500-year floodplain for critical actions) or wetland.*

The proposed activity is located in Zone X (area of minimal flood hazard), outside of Zone A (area of special flood hazard with determined Base Flood Elevations [BFEs] or depths), as indicated on the Flood Insurance Rate Map (FIRM) No. 72000C1105H, revised on April 19, 2005 (See Figure 1).

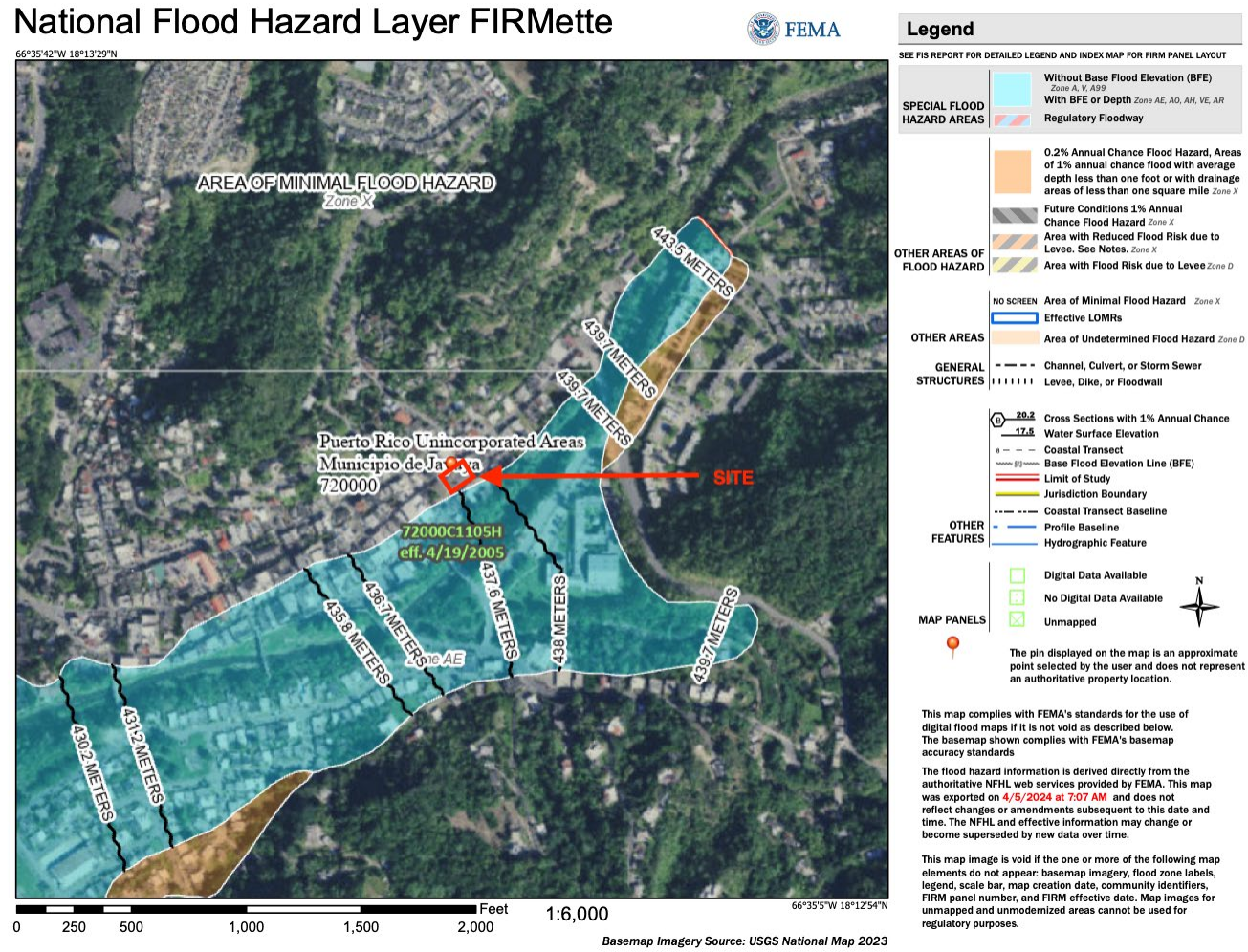


Figure 1. National Flood Hazard Layer FIRMette

However, under the Advisory Base Flood Elevation (ABFE) Map, the entire project is located within Zone A, which has a 1% Annual Chance Flood (See Figure 2 and Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Geospatial Hub at https://gis-r2-fema.hub.arcgis.com/pages/puertorico).

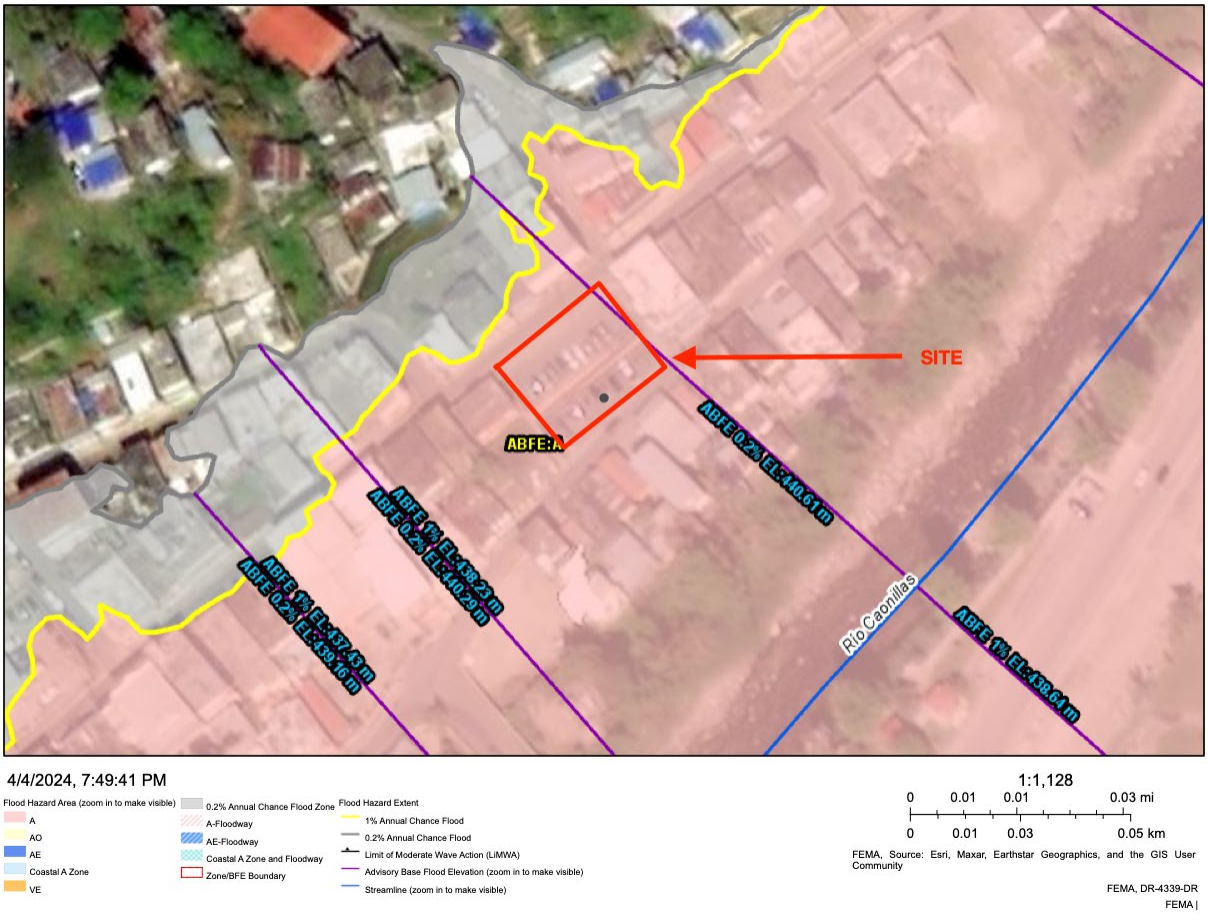


Figure 2. Puerto Rico Advisory Base Flood Elevation (ABFE) Map

There will be no impacts to Wetlands by the proposed project (See Figure 3).

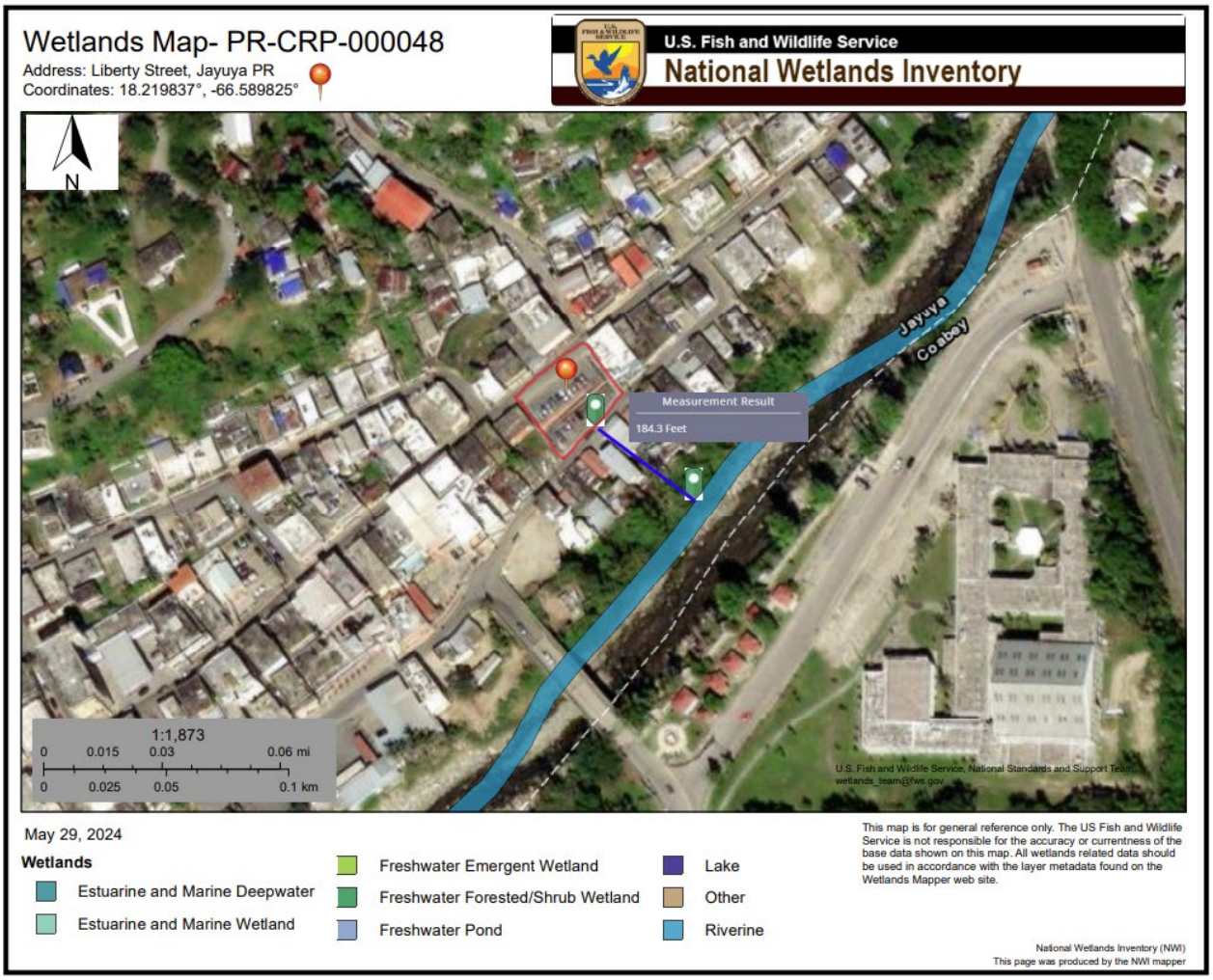


Figure 3. National Wetlands Inventory Map

This project does not meet any of the exceptions at 24 CFR 55.12 and therefore requires an 8-step analysis of the direct and indirect impacts associated with the construction, and modification of the floodplain.

Step 2: *Notify the public for early review of the proposal and involve the affected and interested public in the decision-making process.*

A public notice was published in the *El Nuevo Día* newspaper on March 9, 2024. This newspaper has circulation throughout the entire island of Puerto Rico. The ad was directed at interested agencies, groups and individuals and was published in Spanish and English. The notice also included the name, proposed location, a brief description of the activity, and the responsible entity's contact information, which in this instance in Puerto Rico Department of Housing. The notice also included the location at which a full description of the proposed action could be viewed. A copy of the published notification is attached to this document (See Attachment 1).

The required 15 calendar days were allowed for public comment, thus the comment period ended on March 24, 2024. An additional day was reserved to allow comments to come through in the event they were sent via regular mail. At the end of the waiting period, no comments were received (see information included in Attachment 1).

Step 3: *Identify and evaluate practicable alternatives.*

Criteria used for evaluation of the project site are linked to the goals of the City Revitalization program, and include:

1. Project site should be in a centralized area of the municipality (this is part of the requirements for the City Revitalization Program as per https://cdbg-dr.pr.gov/en/city-revitalization/).
2. Project site should be accessible to low and moderate-income (LMI) residents.
3. Preferably, the project site should be located on land already owned by the municipality (this facilitated the implementation of the action).

In the evaluation of alternatives, the following were considered:

A. Locations outside and not affecting the 100-year floodplain;

   Locating outside the floodplain will imply that the proposed project area, which is currently in use by local residents and visitors, will not be upgraded to improve the accessibility to the urban area of the municipality. Additionally, locating the proposed project outside the floodplain/wetland may imply limited access to LMI residents that live in the neighborhoods near the project location.

B. Locate the Project Within the Floodplain;

   The activities aim to expand and improve existing public parking facility located within the municipality of Jayuya. This is a facility already in use by residents and visitors of the urban area. The proposed project will improve the accessibility to the urban center for residents and visitors seeking to reach businesses and municipal services offered

in the area. Also, the site within the floodplain is owned by the municipality, thus development costs. Thus, this location meets the City Revitalization Program's goals.

C. No-Action or Alternative Actions that Serve the Same Purpose;

A no-action alternative was considered and rejected because the municipality intends to improve the parking facility it owns to make it accessible to all citizens (including elements to comply with Americans with Disabilities Act (ADA)) and increase the parking area available. A no action also implies that the demographics ma

The proposed project does not displace residents and also meets the needs of the community by improving accessibility to the urban area. The proposed public parking expansion will not result on impacts to the floodplain or its natural functions, and a net positive impact is expected with the proposed landscape improvements. The project area does not provide any natural or beneficial functions with the exception of erosion control since the area is mostly comprised of impermeable surfaces. Additionally, the proposed project will help improve mobility and access conditions for pedestrian, cyclists, motorcyclists and vehicles in the urban area.

Due to the nature of the project, there were no feasible alternatives. Nevertheless, the proposed public parking structure shall be designed to withstand a 100-year flood.

Step 4: *Identify Potential Direct and Indirect Impacts Associated with Floodplain/Wetland Development.*

The proposed public parking lot expansion will be constructed within the existing footprint, including the improvement of access stairs and ancillary structures. The design intent is to construct the new structure on columns such that the lower-level unenclosed spaces and the upper-level walls openings and accesses would allow any floodwater to pass through freely. The proposed project will have no net increase in the displacement of floodwater than the existing public parking lot. Therefore, there will be no potential direct or indirect impacts to the natural and beneficial functions of the floodplain associated with the proposed project.

The following factors were evaluated to address the direct or indirect impacts of the development:

1) Natural environment (topography, habitat, hazards)
   The site lacks natural elements thus there will be no impacts to habitat of endangered or threatened species. The topography will remain as is, this will also reduce development of additional hazards such as landslides.
2) Social Concerns (aesthetics, historic and cultural values, land use patterns)
   The development of the facility will be designed to conform to local historic preservation standards and meet Secretary of Interior (SOI) standards that are required based on its location and context of surrounding properties. Consultations necessary will be performed to the concerning agencies. Land use patterns will not be altered because the use will remain the same.
3) Economic aspects (Costs of construction, transportation and relocation);
   Construction costs are relative to the location and activity. Since the area is an accessible location, the construction will be relatively easy to undertake, with minimal

increases due to the natural location of the municipality within the mountainous region of the island. However, the proposed action will contribute to support the community economy, thus making the project attractive for development.

4) Legal considerations (deeds, leases)
   Since the project will be developed on land owned by the municipality, there will be no additional cost due to land acquisition or will ownership issues.

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:** The proposed action will not increase the population density or increase the displacement of floodwater in the area. Thus, in the event of a flood, there is minimal threat to human life.

(b) **Preserving Property:** Due to the characteristics of the project and the requirement to be exposed and handle climate events, there is no need to floodproof, elevate or obtain insurance for the elements of the project. Resiliency will be built into the project elements so that they can withstand weather events. As indicated in Step 4, the new public parking structure will be designed to allow any floodwater to pass through freely with no net increase in the displacement floodwater than the existing public parking lot.

(c) **Preserving Natural Values and Minimizing Impacts:** The project aims to enhance existing the facility and urban area while also minimizing the effects or impacts to natural, undeveloped areas. This will be done by implementing erosion and sedimentation controls during construction and avoiding exposed soil during the operation phase. The construction will have minimal effects on water resources. Paved areas and landscape improvements will provide beneficial functions to prevent soil erosion.

(d) **Restore and Preserve the values of the floodplain:** While the proposed action will not restore floodplain values, the design intends to preserve floodplain values. There will be no net rise in the 100-year flood level as a result of expanding the public parking lot. The design does not include new structures that may limit floodwater movement.

Step 6: *Reevaluate the Alternatives.*

There were no more feasible alternatives for this project, the proposed public parking expansion and improvement presents the most practical alternative to improve the accessibility to the urban center for residents and visitors seeking to reach businesses and municipal services offered in the area.

Although the project will be located in a floodplain, the project will be adapted to preserve the effects on floodplain values. There will be no impact to the riverine areas and stormwaters will

be allowed to follow existing contours of the area. Additionally, the action does not present an increased risk to human life because it does not involve an increase in population density.

The alternative of using another location within the floodplain will not change actions that are necessary to reinvigorate the Jayuya urban center. The municipality intends to continue to make the urban center more resilient for the sake of its citizens and for economic development.

A no action alternative was rejected because it will not improve the mobility and accessibility conditions for local and visiting pedestrian, cyclists, motorcyclists and vehicles in the urban area.

Step 7: *Determination of No Practicable Alternative*

The subrecipient has determined that there is no practicable alternative for partially locating the project in the flood zone. This is due to: 1) the desire to improve the mobility and accessibility conditions for local and visiting pedestrian, cyclists, motorcyclists and vehicles in the urban area; 2) the need to public infrastructure in the urban area; 3) the need to revitalize urban area; 4) the project's accessibility to LMI residents; and 5) the ability to minimize impacts on human health, public property, and floodplain values.

Alternatives considered included i) the location of the proposed activity outside the floodplain; and ii) a no action alternative. It was decided that in order to provide adequate public parking facilities that are free and accessible to LMI residents, the activity should be developed at the proposed location.

Mitigation activities will be implemented during the construction phase by establishing and implementation of activities that limit erosion and sedimentation to surrounding water ways. These may include the use of silt fencing, hale bales, and among others. These will not be necessary during operation because all areas will be stabilized. No other mitigation activities were deemed necessary because the area will be used as an open parking area which will not restrict flood water movement.

A final notice was published and posted consistent with the prior notice on June 11, 2024. The notice explains the reasons why the modified project must be located in the floodplain, offers a list of alternatives considered at Steps 3 and 6, and describes mitigation measures identified at Step 5 and which will be taken to minimize adverse impacts and preserve natural and beneficial floodplain values. The publication notice is attached to this document. No concerns were expressed by the public concerning the final notice.

Step 8: *Implement the Proposed Action*

The proposed action will be implemented following the activities and considerations described above, to ensure that impacts to the floodplain are managed and mitigated to the extent possible. The activities will be executed, and necessary language will be included in all

agreements with participating parties. The municipality will also take an active role in monitoring the construction process to ensure no unnecessary impacts occur nor unnecessary risks are taken.

Attachment 1 – Initial notice publication (Step 2) and “no comment” confirmation letter

Andrea Curbelo-Marty

From: environmentcdbg <environmentcdbg@vivienda.pr.gov>
Sent: Monday, March 11, 2024 2:08 PM
To: Jose.A.CedenoMaldonado@hud.gov; Mahon, Donna M; Caribbean_es@fws.gov; robert_tawes@fws.gov; Rodriguez.elias@epa.gov; Guerrero.carmen@epa.gov; PublicMail.CESAJ-CC@usace.army.mil; Rich.Okulski@noaa.gov; Noah.Silverman@noaa.gov; nmfs.ser.esa.consultations@noaa.gov; FEMA-R4EHP@fema.dhs.gov; carubio@prshpo.pr.gov; comunicaciones@ddec.pr.gov; secretario@ddec.pr.gov; jannira.colon@ddec.pr.gov; Rivera_r1 @jp.pr.gov; comentarios@jp.pr.gov; pmzc@drna.pr.gov; eortega@drna.pr.gov; ayudaciudadano@drna.pr.gov; anais.rodriguez@drna.pr.gov
Subject: Public Notice – Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain_PRDOH Case PR-CRP-000048
Attachments: Early Notice_El Nuevo Día_PR-CRP-000048.pdf

Concerned agencies,

Enclosed please find a **Public Notice – Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain** the Puerto Rico Department of Housing (as the Responsible Entity) published as part of HUD's requirements for the release of CDBG-DR funds to undertake the project *Nuevo Estacionamiento Público en la Calle Libertad* (PR-CRP-000048). The Early Notice was published in the *El Nuevo Día* newspaper of Puerto Rico on March 9, 2024.

Respectfully,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527
Visit us: recuperacion.pr.gov
Contact us: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA VIVIENDA

NOTA DE CONFIDENCIALIDAD: Esta transmisión electrónica contiene información perteneciente al Departamento de Vivienda de Puerto Rico, la cual es confidencial y / o privilegiada legalmente. Si usted no es el destinatario previsto, informe inmediatamente al remitente por correo electrónico de respuesta o por teléfono que este mensaje se le ha transmitido inadvertidamente y elimine este correo electrónico de su sistema. Si ha recibido esta transmisión por error, por la presente se le notifica que cualquier divulgación, copia, distribución o cualquier acción basada en el contenido de la información está estrictamente prohibida. El uso, difusión, distribución o reproducción no autorizados de este mensaje por personas que no sean el destinatario previsto está estrictamente prohibido y puede ser ilegal.

CONFIDENTIALITY NOTE: This electronic transmission contains information belonging to the Puerto Rico Housing Deparment, which is confidential and/or legally privileged. If you are not the intended recipient, please immediately advise the sender by reply e-mail or telephone that this message has been inadvertently transmitted to you and delete this e-mail from your system. If you have received this transmission in error, you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of the information is strictly prohibited. Unauthorized use, dissemination, distribution or reproduction of this message by other than the intended recipient is strictly prohibited and may be unlawful. 2



aviso público

Aviso Preliminar y Revisión Pública de una Actividad Propuesta en un valle inundable de 100 años

Nuevo Estacionamiento Público en la Calle Libertad
PR-CRP-000048

Para: Todas las partes interesadas, grupos e individuos

Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (Vivienda, en adelante) ha determinado 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, B-18-DP-72-0001 y B-19-DP-78-0002, se encuentra en un valle inundable de 100 años. Vivienda estará evaluando e identificando alternativas prácticas para realizar la acción propuesta y el impacto potencial en el valle inundable debido a la acción propuesta, según establecido por la Orden Ejecutiva 11988, de acuerdo con las regulaciones de HUD en 24 CFR 55.20 Subparte C - Procedimientos para tomar determinaciones sobre el manejo de llanuras aluviales y la protección de humedales. El proyecto propuesto, **PR-CRP-000048**, se encuentra dentro de un municipio que sufrió daños debido a los huracanes Irma y María, y está localizado entre la calle Libertad y carretera PR-141, Jayuya, PR 00664; coordenadas 18.219837°, -66.589825°. El proyecto busca ampliar un estacionamiento público existente en el centro urbano del municipio mediante la construcción de un estacionamiento elevado de acero por encima de la huella de ocupación actual. El acceso al nivel superior será por la carretera PR-141/calle Guillermo Esteves y el nivel inferior será accesible por la calle Libertad. Además, se incluirá una zona de aparcamiento para bicicletas y motoras. La actividad propuesta agregará 10 espacios de estacionamiento para aumentar el total de espacios disponibles de 22 a 32. El proyecto incluye: excavación para preparar la base de la extensión de acero, instalación de columnas y nivel de acero, instalación de protectores de parachoques/topes de ruedas, pavimento asfáltico y mejoras de señalización, mejoras paisajísticas, y la instalación de pavimento termoplástico/marcas viales, postes de iluminación solar, señales de tránsito y un mural de mosaico. La actividad propuesta tiene una huella total de 812.75 metros cuadrados (0.2 acres) y se ampliara un área de 584.66 metros cuadrados (0.14 acres) dentro de la huella existente. La actividad propuesta está situada en un valle de inundación de 100 años, zona de inundación A, y se encuentra en el mapa de niveles de inundación base (ABFE, por sus siglas en inglés), cómo se indica en el Nivel de Inundación Base Recomendado de FEMA Puerto Rico en Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (arcgis.com). Según existe ahora, el predio no aporta funciones naturales al valle inundable, pero si beneficiosas ya que el área pavimentada evita erosión del terreno. La acción propuesta tanto como las condiciones existentes en el predio no añade valor recreacional, educativo, científico, histórico o cultural.

Este aviso tiene tres propósitos principales. En primer lugar, las personas que puedan verse afectadas por las actividades en el valle inundable y aquellos que tengan interés en la protección del ambiente natural deben tener la oportunidad de expresar sus inquietudes y proveer información sobre estas áreas. Se exhorta a la comunidad a ofrecer ubicaciones alternas fuera del valle inundable, métodos alternos para cumplir el mismo propósito del proyecto y métodos para minimizar y mitigar los impactos. Segundo, un programa adecuado de avisos públicos puede ser una herramienta importante para la educación pública. La divulgación de información sobre los valles inundables puede facilitar y mejorar los esfuerzos federales por reducir los riesgos e impactos asociados con la ocupación y alteración de estas zonas especiales. Tercero, como materia de justicia, cuando el gobierno federal determine participar en acciones ubicadas en el valle inundable, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o similar al presente.

Vivienda considerará todos los comentarios recibidos en o antes de 24 de marzo de 2024. Pueden enviar los comentarios de forma impresa a la siguiente dirección: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918-8461, Atención: Janette Cambrelén, Especialista en Permisos y Cumplimiento Ambiental. Una descripción completa del proyecto está disponible al público 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. El número para obtener información es (787)274-2527 ext. 4320. Como alternativa, también pueden enviar los comentarios a Vivienda por medio electrónico a environmentcdbg@vivienda.pr.gov.

Fecha: 9 de marzo de 2024

Lcdo. William O. Rodríguez Rodríguez
Secretario del Departamento de la Vivienda

Autorizado por la Oficina del Contralor
Electoral OCE-SA-2023-00076

public notice

Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain

Nuevo Estacionamiento Público en la Calle Libertad
PR-CRP-000048

To: All Interested Parties, Groups & Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has determined that the following proposed action under the Community Development Block Grant – Disaster Recovery (CDBG-DR), Citiy Revitalization Program, Grant number B-17-DM-72-0001, B-18-DP-72-0001 and B-19-DP-78-0002, is located in a 100-year floodplain. PRDOH will be identifying and evaluating practicable alternatives to locate the action in the floodplain and the potential impacts on the floodplain from the proposed action, as required by Executive Order 11988, in accordance with HUD regulations at 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management and Protection of Wetlands. The proposed project, **PR-CRP-000048**, is within a municipality with structures damaged by Hurricanes Irma and María and it's located between Liberty Street and PR-141 Road, Jayuya, PR 00664; coordinates 18.219837°, -66.589825°. The project seeks to expand an existing public parking lot in the urban center of the municipality by constructing an elevated steel parking above the current occupation footprint. The access to the upper level will be via the PR-141 Road/Guillermo Esteves Street and the lower level will be accessible via the Libertad Street. A parking area for bicycles and motorcycles will also be included. The proposed activity will add 10 parking spaces to increase the total available spaces form 22 to 32. The project includes: excavation to prepare the base of the steel extension, installation of columns and steel level, installation of bumper guards/wheel stops, asphalt pavement and marking improvements, landscape improvements, and the installation of thermoplastic pavement/road markings, solar lighting poles, traffic signs and a mosaic mural. The proposed activity has a total footprint of 812.75 square meters (0.2 acres) and an area of 584.66 square meters (0.14 acres) will be expanded within the existing footprint. The proposed activity is situated in a 100-year floodplain, flood zone A, and can be found at the Advisory Base Flood Elevation Map (ABFE), as indicated on the FEMA Advisory Base Flood Elevation for Puerto Rico at Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (arcgis.com). As it exists now, the property does not provide natural functions to the floodplain, but it does provide beneficial functions since the paved area prevents soil erosion. The proposed action as well as the existing conditions on the property do not add recreational, educational, scientific, historical or cultural value.

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 impacts. Second, an adequate public notice program can be an important public educational tool. The dissemination of information and request for public comment about the 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.

PRDOH will consider all comments received on or before March 24, 2024. Written comments can be sent to the following address: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918-8461, Attention: Janette Cambrelén, Permits and Environmental Compliance Specialist. A complete description of the project is available to the public for review 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. The number to get information is (787)274-2527 ext. 4320. In the alternative, comments may also be sent to PRDOH by email at environmentcdbg@vivienda.pr.gov.

Date: March 9, 2024

William O. Rodríguez Rodríguez, Esq.
Secretary of the Department of Housing

Authorized by the Office of the Electoral
Comptroller OCE-SA-2023-00076

elnuevodia#communicationscdbg@vivienda.pr.gov

pressreader PRINTED AND DISTRIBUTED BY PRESSREADER PressReader.com +1 604 278 4604 COPYRIGHT AND PROTECTED BY APPLICABLE LAW

Andrea Curbelo-Marty

From: Kenneth M. Garcia-De Leon
Sent: Wednesday, March 27, 2024 4:33 PM
To: environmentcdbg
Subject: RE: Comentarios - Aviso Preliminar PR-CRP-000048

Saludos:

Por correo postal no llegaron comentarios para mencionado proyecto.

Atentamente,

Kenneth M. García De León
Especialista en Control de Documentos / Operaciones
Oficina Recuperación de Desastres
kgarcia@vivienda.pr.gov|787.274.2527 Ext. 4013
Visitanos: recuperacion.pr.gov
Contactanos: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA VIVIENDA

NOTA DE CONFIDENCIALIDAD: Esta transmisión electrónica contiene información perteneciente al Departamento de Vivienda de Puerto Rico, la cual es confidencial y / o privilegiada legalmente. Si usted no es el destinatario previsto, informe inmediatamente al remitente por correo electrónico de respuesta o por teléfono que este mensaje se le ha transmitido inadvertidamente y elimine este correo electrónico de su sistema. Si ha recibido esta transmisión por error, por la presente se le notifica que cualquier divulgación, copia, distribución o cualquier acción basada en el contenido de la información está estrictamente prohibida. El uso, difusión, distribución o reproducción no autorizados de este mensaje por personas que no sean el destinatario previsto está estrictamente prohibido y puede ser ilegal.

CONFIDENTIALITY NOTE: This electronic transmission contains information belonging to the Puerto Rico Housing Deparment, which is confidential and/or legally privileged. If you are not the intended recipient, please immediately advise the sender by reply e-mail or telephone that this message has been inadvertently transmitted to you and delete this e-mail from your system. If you have received this transmission in error, you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of the information is strictly prohibited. Unauthorized use, dissemination, distribution or reproduction of this message by other than the intended recipient is strictly prohibited and may be unlawful.

From: environmentcdbg <environmentcdbg@vivienda.pr.gov>
Sent: Wednesday, March 27, 2024 4:31 PM
To: Kenneth M. Garcia-De Leon <kgarcia@vivienda.pr.gov>
Subject: Comentarios - Aviso Preliminar PR-CRP-000048

Saludos Kenneth,

Con respecto a la publicación del Aviso Preliminar y Revisión Pública de una Actividad Propuesta en un valle inundable de 100 años (Paso 2) para el proyecto **Nuevo Estacionamiento Público en la Calle Libertad (PR-CRP-000048)**, ¿habrá llegado algún comentario a través del correo postal? De ser así, por favor nos lo hace llegar.

Cordialmente,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov |787.274.2527
Visit us: recuperacion.pr.gov
Contact us: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA VIVIENDA

NOTA DE CONFIDENCIALIDAD: Esta transmisión electrónica contiene información perteneciente al Departamento de Vivienda de Puerto Rico, la cual es confidencial y / o privilegiada legalmente. Si usted no es el destinatario previsto, informe inmediatamente al remitente por correo electrónico de respuesta o por teléfono que este mensaje se le ha transmitido inadvertidamente y elimine este correo electrónico de su sistema. Si ha recibido esta transmisión por error, por la presente se le notifica que cualquier divulgación, copia, distribución o cualquier acción basada en el contenido de la información está estrictamente prohibida. El uso, difusión, distribución o reproducción no autorizados de este mensaje por personas que no sean el destinatario previsto está estrictamente prohibido y puede ser ilegal.

CONFIDENTIALITY NOTE: This electronic transmission contains information belonging to the Puerto Rico Housing Deparment, which is confidential and/or legally privileged. If you are not the intended recipient, please immediately advise the sender by reply e-mail or telephone that this message has been inadvertently transmitted to you and delete this e-mail from your system. If you have received this transmission in error, you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of the information is strictly prohibited. Unauthorized use, dissemination, distribution or reproduction of this message by other than the intended recipient is strictly prohibited and may be unlawful. 2

Validation Letter

March 27, 2024

To whom it may concern,

This letter is to validate that no comments were received in the Permits and Environmental Compliance Division e-mail: environmentcdbg@vivienda.pr.gov, for the project *Nuevo Estacionamiento Público en la Calle Libertad* (PR-CRP-000048), as part of the CDBG-DR City Revitalization Program. The Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain was published in the *El Nuevo Día* newspaper of Puerto Rico on March 9, 2024, with a comment period that concluded on March 24, 2024.

Cordially,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527 ext. 4320

Attachment 2 – Final notice publication (Step 7) and “no comment” confirmation letter

From:	environmentcdbg
To:	Jose.A.CedenoMaldonado@hud.gov; Mahon, Donna M; Caribbean_es@fws.gov; Tawes, Robert; Rodriguez.elias@epa.gov; Guerrero.carmen@epa.gov; PublicMail.CESAJ-CC@usace.army.mil; Rich.Okulski@noaa.gov; Noah.Silverman@noaa.gov; nmfs.ser.esa.consultations@noaa.gov; FEMA-R4EHP@fema.dhs.gov; carubio@prshpo.pr.gov; comunicaciones@ddec.pr.gov; secretario@ddec.pr.gov; jannira.colon@ddec.pr.gov; Rivera_r1@jp.pr.gov; comentarios@jp.pr.gov; pmzc@drna.pr.gov; eortega@drna.pr.gov; ayudaciudadano@drna.pr.gov; anais.rodriguez@drna.pr.gov
Subject:	Public Notice – Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain _PRDOH Case PR-CRP-000048
Date:	Tuesday, June 11, 2024 3:59:48 PM
Attachments:	Final Notice_Primera Hora_PR-CRP-000048.pdf image002.png

---

Concerned agencies,

Enclosed please find a **Public Notice – Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain** the Puerto Rico Department of Housing (as the Responsible Entity) published as part of HUD's requirements for the release of CDBG-DR funds to undertake the project *Nuevo Estacionamiento Público en la Calle Libertad* (PR-CRP-000048). The Final Notice was published in the *Primera Hora* newspaper of Puerto Rico on June 11, 2024.

Respectfully,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527
Visit us: recuperacion.pr.gov
Contact us: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA VIVIENDA

NOTA DE CONFIDENCIALIDAD: Esta transmisión electrónica contiene información perteneciente al Departamento de Vivienda de Puerto Rico, la cual es confidencial y / o privilegiada legalmente. Si usted no es el destinatario previsto, informe inmediatamente al remitente por correo electrónico de respuesta o por teléfono que este mensaje se le ha transmitido inadvertidamente y elimine este correo electrónico de su sistema. Si ha recibido esta transmisión por error, por la presente se le notifica que cualquier divulgación, copia, distribución o cualquier acción basada en el contenido de la información está estrictamente prohibida. El uso, difusión, distribución o reproducción no autorizados de este mensaje por personas que no sean el destinatario previsto está estrictamente prohibido y puede ser ilegal.
CONFIDENTIALITY NOTE: This electronic transmission contains information belonging to the Puerto Rico Housing Deparment, which is confidential and/or legally privileged. If you are not the intended recipient, please immediately advise the sender by reply e-mail or telephone that this message has been inadvertently transmitted to you and delete this e-mail from your system. If you have received this transmission in error, you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of the information is strictly prohibited. Unauthorized use, dissemination, distribution or reproduction of this message by other than the intended recipient is strictly prohibited and may be unlawful. 2

ESTADO LIBRE ASOCIADO DE PUERTO RICO
MUNICIPIO AUTÓNOMO DE DORADO
JUNTA DE SUBASTA
PO BOX 588, DORADO, PUERTO RICO 00646

AVISO DE SUBASTA

Subasta 23-2023-2024- ADQUISICIÓN E INSTALACIÓN DE GENERADORES DE BATERÍAS CON PANELES SOLARES PARA SU RECARGA PARA ENVEJECIENTES DE 62 AÑOS O MÁS PARA PREVENIR EL COVID-19 EN EL MUNICIPIO DE DORADO FASE I DE I- PROGRAMAS CDBG-CV

Todos los proponentes interesados, deberían asistir a la Conferencia Pre-Subasta para orientación la cual se llevarán a cabo en la Sala de Sesiones de la Legislatura Municipal en el Pabellón Rafael Hernández Colón en Dorado.

Conferencia Pre-Subasta. Las personas o entidades interesadas en el proyecto mencionado que no puedan asistir personalmente a la reunión deben notificar al municipio por escrito vía correo electrónico juntadesubastas@dorado2025.com para solicitar una copia de los documentos de la licitación. Los documentos deben ser recogidos y el proponente registrado en el municipio, no menos de un día antes de la fecha de la Conferencia Pre-Subasta.

La adquisición de los pliegos de la Subasta es compulsoria previo a la celebración de la conferencia.

Fecha de Recogido de Documentos:	12 de junio de 2024 hasta 18 de junio 2024 de 8:00am a 3:00pm
Fecha de Pre-Subasta	20 de junio de 2024 9:30am
Fecha de Entrega de Propuesta:	27 de junio de 2024 9:30am

La Junta de Subastas del Municipio Autónomo de Dorado recibirá propuestas en sobres sellado.

Los documentos de información de esta Subasta deben solicitarse vía correo electrónico a juntadesubastas@dorado2025.com o en la oficina de Secretaría Municipal en la Calle Méndez Vigo edificio Anexo Sur a Casa Alcaldía. El proponente debe traer su dispositivo de memoria USB para obtener una copia del paquete de documentos de la solicitud de propuesta. La propuesta deberá ser entregada en la fecha acordada en la Conferencia Pre-Subasta, según indicado en las instrucciones de los documentos de Subasta.

El proponente seleccionado, se comprometerá inmediatamente después de la adjudicación con la firma de un contrato con el Municipio Autónomo de Dorado. El proceso de Subasta está diseñado para promover una competencia justa, abierta y competitiva en sus costos. Las respuestas a esta Subasta deben prepararse de acuerdo con las instrucciones proporcionadas en el paquete de esta Subasta. Las propuestas serán evaluadas por el Municipio Autónomo de Dorado, como se describe en las instrucciones de la Subasta y de acuerdo con las leyes y reglamentos locales y federales aplicables, incluyendo los requisitos del 2 CFR 200.318 a 327; 24 CFR 85.36, entre otros.

El Municipio de Dorado buscará en https://www.sam.gov/SAM/ para verificar si el contratista está inhabilitado o no utilizando el Sistema de Numeración Universal de Datos (DUNS). **POR LO TANTO, LOS PROPONENTES DEBEN POSEER UN NÚMERO DUNS Y ESTAR REGISTRADOS EN EL SISTEMA DE ADMINISTRACIÓN DE ADJUDICACIONES (SAM) PARA OBTENER UN UNIQUE ENTITY ID NUMBER AL MOMENTO DE LA PRESENTACIÓN DE PROPUESTA O INICIAR EL PROCESO DE REGISTRO INMEDIATAMENTE DESPUÉS DE LA PRESENTACIÓN DE LA PROPUESTA. PARA MÁS INFORMACIÓN SOBRE EL SISTEMA DE ADMINISTRACIÓN DE PREMIOS (SAM) VISITE https://www.sam.gov/SAM/.**

La adjudicación solo se otorgará a una entidad que esté autorizada y que no sea inelegible para la adjudicación de un contrato debido a suspensión, inhabilitación o denegación limitada de participación. El Municipio de Dorado es un patrono de igualdad de oportunidades y no discrimina por sexo, género o identidad sexual, raza, edad, origen nacional, credo religioso, estado civil, veteranos de guerra, minusvalía o incapacidad. Para obtener información adicional sobre la Subasta, puede comunicarse a Secretaría Municipal, o por correo electrónico a juntadesubastas@dorado2025.com. Este proceso de Subasta seguirá 2 C.F.R. SS 200.318 al C.F.R. SS 327. El Municipio Autónomo de Dorado alienta y dará prioridad a los solicitantes que estén certificados como Minority Business Enterprise (MBE), Disadvantage Business Enterprise (DBE) y Women's Business Enterprise (WBE).

Publicado en Dorado, Puerto Rico hoy, 11 de junio de 2024.

Núm. OCE-SA-2024-04938

Aníbal José Torres
Presidente
Junta de Subastas

Axel Rodríguez Malpica
Secretario
Junta de Subastas

aviso público

Aviso Final y Explicación Pública de una Actividad Propuesta en un valle inundable de 100 años

Nuevo Estacionamiento Público en la Calle Libertad
PR-CRP-000048

Para: Todas las partes interesadas, grupos e individuos

Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (Vivienda, en adelante) completó una evaluación según establece la Orden Ejecutiva 11988, de acuerdo con los reglamentos de HUD en 24 CFR 55.20 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, B-18-DP-72-0001 y B-19-DP-78-0002. El proyecto propuesto, **PR-CRP-000048**, está localizado entre la calle Libertad y la carretera PR-141, Jayuya, PR 00664; coordenadas 18.219837°, -66.589825°. El proyecto busca ampliar un estacionamiento público existente en el centro urbano del municipio mediante la construcción de un estacionamiento elevado de acero por encima de la huella de ocupación actual. El acceso al nivel superior será por la carretera PR-141/calle Guillermo Esteves y el nivel inferior será accesible por la calle Libertad. Además, se incluirá una zona de aparcamiento para bicicletas y motoras. La actividad propuesta agregará 10 espacios de estacionamiento para aumentar el total de espacios disponibles de 22 a 32. El proyecto incluye excavación para preparar la base de la extensión de acero, instalación de columnas y nivel de acero, instalación de protectores de parachoques/topes de ruedas, pavimiento asfáltico y mejoras de señalización, mejoras paisajistas, y la instalación de pavimiento termoplástico/marcas viales, postes de iluminación solar, señales de tránsito y un mural mosaico. La actividad propuesta tiene una huella total de 812.75 metros cuadrados (0.2 acres) y se ampliará un área de 584.66 metros cuadrados (0.14 acres) dentro de la huella existente. La actividad está completamente situada en un valle inundable de 100 años, zona de inundación A, y se encuentra en el mapa de niveles de inundación base (ABFE, por sus siglas en inglés), cómo se indica en el Nivel de Inundación Base Recomendado de FEMA para Puerto Rico en Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (arcgis.com). Según existe ahora, el predio no aporta funciones naturales al valle inundable, pero sí beneficiosas ya que el área pavimentada evita erosión del terreno. La acción propuesta, tanto como las condiciones existentes en el predio no añade valor recreacional, educativo, científico, histórico o cultural. Hay un humedal ribereño ubicado al sureste del área del proyecto, pero el humedal se encuentra a más de 100 pies de distancia de la huella del proyecto y no se verá afectado por las acciones propuestas.

Vivienda consideró las siguientes alternativas y medidas de mitigación para minimizar impactos adversos y restaurar y preservar valores naturales y beneficiosos: 1) ubicar el proyecto dentro del valle inundable, (2) ubicar el proyecto fuera del valle inundable, y (3) no tomar ninguna acción. Realizar la actividad propuesta en áreas fuera del valle inundable fue considerada pero descartada ya que esto implica negar la oportunidad de mejorar el estacionamiento público existente y limitar el acceso a residentes de ingresos bajos y moderados. La alternativa de no acción no serviría para aumentar la resiliencia, ayudar al desarrollo económico, y proporcionar movilidad y accesibilidad a los residentes de servicios proporcionados por el municipio y empresas dentro del centro urbano. El desarrollo de las actividades propuestas dentro del valle inundable es necesario para mantener un centro urbano resiliente que brinde a los residentes mejores condiciones de movilidad y acceso, así como estacionamiento público adecuado. Para minimizar los impactos adversos y preservar las funciones naturales y beneficiosas del valle inundable, el diseño del proyecto no tendrá un aumento neto en el desplazamiento del agua de inundación y no incluirá nuevas estructuras que puedan limitar el movimiento del agua de inundación. Además, los accesos se cementarán con material permeable, como, por ejemplo, adoquines u hormigón poroso. El proyecto propuesto cumplirá con todas las regulaciones estatales y locales de protección de llanuras aluviales.

Vivienda reevaluó las alternativas para construir en el valle inundable y determinó que no cuenta con alternativas prácticas. La documentación ambiental que evidencia el cumplimiento con los pasos 3 al 6 de la Orden Ejecutiva 11988, está disponible para inspección, revisión y reproducción de parte del público, de ser solicitado, en el horario y lugar indicado en el último párrafo sobre recibo de comentarios de este aviso.

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 inquietudes y proveer información sobre estas áreas. Segundo, un programa adecuado de avisos públicos puede ser una herramienta importante de educación pública. La divulgación de información y solicitud de comentarios públicos sobre los 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 determine participar en acciones ubicadas en el valle inundable, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o similar al presente.

Vivienda considerará todos los comentarios recibidos en o antes del 18 de junio de 2024. Pueden enviar los comentarios de forma impresa a la siguiente dirección: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918-8461, Atención: Janette Cambrelén, Especialista en Permisos y Cumplimiento Ambiental. Una descripción completa del proyecto está disponible al público 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. El número para obtener información es (787)274-2527 ext. 4320. Como alternativa, también pueden enviar los comentarios a Vivienda por medio electrónico a environmentcdbg@vivienda.pr.gov.

Fecha: 11 de junio de 2024

Lcdo. William O. Rodríguez Rodríguez
Secretario del Departamento de la Vivienda

Autorizado por la Oficina del Contralor Electoral OCE-SA-2023-00076

public notice

Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain

Nuevo Estacionamiento Público en la Calle Libertad
PR-CRP-000048

To: All interested agencies, Groups and Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has conducted an evaluation as required by the Executive Order 11988, in accordance with HUD regulations at 24 CFR 55.20 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, B-18-DP-72-0001 and B-19-DP-78-0002. The proposed project, **PR-CRP-000048**, is located between Liberty Street and PR-141 Road, Jayuya, PR 00664; coordinates 18.219837°, -66.589825°. The project seeks to expand an existing public parking lot in the urban center of the municipality by constructing an elevated steel parking lot above the current occupation footprint. The access to the upper level will be via the PR-141 Road/Guillermo Esteves Street and the lower level will be accessible via Libertad Street. A parking area for bicycles and motorcycles will also be included. The proposed activity will add 10 parking spaces to increase the total available spaces from 22 to 32. The project includes excavation to prepare the base of the steel extension, installation of columns and steel level, installation of bumper guards/wheel stops, asphalt pavement and marking improvements, landscape improvements, and the installation of thermoplastic pavement/road markings, solar lighting poles, traffic signs and a mosaic mural. The proposed activity has a total footprint of 812.75 square meters (0.2 acres) and an area of 584.66 square meters (0.14 acres) will be expanded within the existing footprint. The activity is completely situated in a 100-year floodplain, flood zone A, and can be found at the Advisory Base Flood Elevation Map (ABFE), as indicated on the FEMA Advisory Base Flood Elevation for Puerto Rico at Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (arcgis.com). As it exists now, the property does not provide natural functions to the floodplain, but it does provide beneficial functions since the paved area prevents soil erosion. The proposed action, as well as the existing conditions on the property do not add recreational, educational, scientific, historical, or cultural value. There is a riverine wetland located southeast of the project area, but the wetland is located over 100 feet away from the project footprint and will not be impacted by the proposed actions.

PRDOH has considered the following alternatives and mitigation measures to be taken to minimize adverse impacts and to restore and preserve natural and beneficial values: (1) locate the project within the floodplain, (2) locate the project outside of the floodplain, and (3) take no action. Carrying out the proposed activity in areas outside the floodplain was considered but discarded since this would imply denying the opportunity to upgrade the existing public parking facility and limiting the access to low- and moderate-income residents. The no-action alternative will not serve to increase resilience, assist in economic development, or provide mobility and accessibility to residents to services provided by the municipality and businesses within the urban center. The development of the proposed activities within the floodplain is necessary to maintain a resilient urban center that provides residents with better mobility and access conditions, as well as adequate public parking facilities. To minimize adverse impacts, preserve natural and beneficial functions of the floodplain, the project design will have not net increase in the displacement of floodwater and does not include new structures that may limit floodwater movement. In addition, entrances will be cemented with permeable material, such as, for example, pavers or porous concrete. The proposed project will comply with all state and local floodplain protection regulations.

PRDOH has reevaluated the alternatives to building in the floodplain and has determined that it has no practicable alternative. Environmental files that document compliance with steps 3 through 6 of 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 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.

PRDOH will consider all comments received on or before June 18, 2024. Written comments can be sent to the following address: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918-8461, Attention: Janette Cambrelén, Permits and Environmental Compliance Specialist. A complete description of the project is available to the public for review 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. The number to get information is (787)274-2527 ext. 4320. In the alternative, comments may also be sent to PRDOH by email at environmentcdbg@vivienda.pr.gov.

Date: June 11, 2024

William O. Rodríguez Rodríguez, Esq.
Secretary of the Department of Housing

Authorized by the Office of the Electoral Comptroller OCE-SA-2023-00076

pressreader PRINTED AND DISTRIBUTED BY PRESSREADER PressReader.com +1 604 278 4604 COPYRIGHT AND PROTECTED BY APPLICABLE LAW

From: Kenneth M. Garcia-De Leon
To: environmentcdbg
Subject: RE: Comentarios - Aviso Final PR-CRP-000048
Date: Monday, June 24, 2024 8:48:01 AM
Attachments: image002.png
image003.png

Buenos días:

Por correo postal no llegaron comentarios para mencionado proyecto.

Cordialmente,

Kenneth M. García De León
Especialista en Control de Documentos / Operaciones
Oficina Recuperación de Desastres
kgarcia@vivienda.pr.gov|787.274.2527 Ext. 4013
Visitanos: recuperacion.pr.gov
Contactanos: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA VIVIENDA

NOTA DE CONFIDENCIALIDAD: Esta transmisión electrónica contiene información perteneciente al Departamento de Vivienda de Puerto Rico, la cual es confidencial y / o privilegiada legalmente. Si usted no es el destinatario previsto, informe inmediatamente al remitente por correo electrónico de respuesta o por teléfono que este mensaje se le ha transmitido inadvertidamente y elimine este correo electrónico de su sistema. Si ha recibido esta transmisión por error, por la presente se le notifica que cualquier divulgación, copia, distribución o cualquier acción basada en el contenido de la información está estrictamente prohibida. El uso, difusión, distribución o reproducción no autorizados de este mensaje por personas que no sean el destinatario previsto está estrictamente prohibido y puede ser ilegal.
CONFIDENTIALITY NOTE: This electronic transmission contains information belonging to the Puerto Rico Housing Deparment, which is confidential and/or legally privileged. If you are not the intended recipient, please immediately advise the sender by reply e-mail or telephone that this message has been inadvertently transmitted to you and delete this e-mail from your system. If you have received this transmission in error, you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of the information is strictly prohibited. Unauthorized use, dissemination, distribution or reproduction of this message by other than the intended recipient is strictly prohibited and may be unlawful.

From: environmentcdbg <environmentcdbg@vivienda.pr.gov>
Sent: Friday, June 21, 2024 4:07 PM
To: Kenneth M. Garcia-De Leon <kgarcia@vivienda.pr.gov>
Subject: Comentarios - Aviso Final PR-CRP-000048

Saludos Kenneth,

Con respecto a la publicación del Aviso Final y Explicación Pública de una Actividad Propuesta en un valle inundable de 100 años (Paso 7) para el proyecto **Nuevo Estacionamiento Público en la Calle Libertad (PR-CRP-000048)**, ¿habrá llegado algún comentario a través del correo postal? De ser así, por favor nos lo hace llegar.

Cordialmente,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527
Visit us: recuperacion.pr.gov
Contact us: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA VIVIENDA

NOTA DE CONFIDENCIALIDAD: Esta transmisión electrónica contiene información perteneciente al Departamento de Vivienda de Puerto Rico, la cual es confidencial y / o privilegiada legalmente. Si usted no es el destinatario previsto, informe inmediatamente al remitente por correo electrónico de respuesta o por teléfono que este mensaje se le ha transmitido inadvertidamente y elimine este correo electrónico de su sistema. Si ha recibido esta transmisión por error, por la presente se le notifica que cualquier divulgación, copia, distribución o cualquier acción basada en el contenido de la información está estrictamente prohibida. El uso, difusión, distribución o reproducción no autorizados de este mensaje por personas que no sean el destinatario previsto está estrictamente prohibido y puede ser ilegal.
CONFIDENTIALITY NOTE: This electronic transmission contains information belonging to the Puerto Rico Housing Deparment, which is confidential and/or legally privileged. If you are not the intended recipient, please immediately advise the sender by reply e-mail or telephone that this message has been inadvertently transmitted to you and delete this e-mail from your system. If you have received this transmission in error, you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of the information is strictly prohibited. Unauthorized use, dissemination, distribution or reproduction of this message by other than the intended recipient is strictly prohibited and may be unlawful.

Validation Letter

June 21, 2024

To whom it may concern,

This letter is to validate that no comments were received in the Permits and Environmental Compliance Division e-mail: environmentcdbg@vivienda.pr.gov, for the project ***Nuevo Estacionamiento Público en la Calle Libertad*** **(PR-CRP-000048)**, as part of the CDBG-DR City Revitalization Program. The Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain was published in the *Primera Hora* newspaper of Puerto Rico on June 11, 2024, with a comment period that concluded on June 18, 2024.

Cordially,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527 ext. 4320

Attachment 14:
Historic Preservation

OFICINA ESTATAL DE
CONSERVACIÓN HISTÓRICA
GOBIERNO DE PUERTO RICO

Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

August 12, 2025

Lauren B Poche
269 Avenida Ponce de León
San Juan, PR 00917

Referencia: SHPO-CF-07-28-25-01 - PR-CRP-000048 (Jayuya), Nuevo Estacionamiento Público en la Calle Libertad

Dear Ms. Poche,

We acknowledge receipt of the archaeological monitoring work plan submitted on July 28, 2025, for the case mentioned above. The plan is deemed acceptable, and we concur with its implementation. Please notify the PRSHPO the archaeological monitoring start date 48 hours prior to the initiation of work.

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/OJR

DEPARTMENT OF
HOUSING
GOVERNMENT OF PUERTO RICO

March 24, 2025

Samir El Hage Arocho
General Partner, HORNE LLP
269 Juan Ponce de León Ave.
Hato Rey, Puerto Rico 00917-00918

Via email: samir.elhage@horne.com

RE: Authorization for Grant Management (GM) to Conduct the Required Environmental Consultations with Federal and Local Agencies on PRDOH's Behalf

Dear Mr. El Hage,

Provisions at 24 C.F.R. Part 58 establish the environmental review procedures for entities assuming the U.S. Department of Housing and Urban Development (**HUD**) environmental responsibilities under the National Environmental Policy Act (**NEPA**) and other applicable laws. The Puerto Rico Department of Housing (**PRDOH**), as the designated CDBG-DR/MIT grantee, has assumed HUD's environmental responsibilities under NEPA and related laws (**Responsible Entity**) by directly implementing multiple CDBG-DR/MIT projects.

One of the Responsible Entity's many responsibilities under 24 C.F.R. Part 58 is consulting with State, Federal, and non-federal entities in preparing an Environmental Review Record (**ERR**). Regarding a Responsible Entity's interactions with State, Federal, and non-Federal entities, 24 C.F.R. § 58.14 states that:

> *A responsible entity shall consult with appropriate environmental agencies, State, Federal and non-Federal entities and the public in the preparation of an EIS, EA or other environmental reviews undertaken under the related laws and authorities cited in § 58.5 and § 58.6. […].*

In conducting its role as a Responsible Entity that directly undertakes a project, as per 24 C.F.R. § 58.4(b)(1), PRDOH *"must assume the environmental review responsibilities for the State's activities* ***and those of any non-governmental entity that may participate in the project****."* Accordingly, a Responsible Entity may delegate certain tasks in the preparation of ERRs but retains full legal responsibility for compliance with environmental requirements.

To effectively manage available environmental resources and expedite the preparation of ERRs, PRDOH—as Responsible Entity—wishes to delegate the task of consulting with State, Federal, and non-Federal entities contained in 24 C.F.R. § 58.14. Therefore, PRDOH hereby authorizes Alberto Mercado Vargas, GM Environmental SME, or his authorized representative) to conduct on its behalf the environmental consultations with Federal and local agencies required to prepare ERRs for the implementation of CDBG-DR and CDBG-MIT projects, while still maintaining the ultimate and full legal responsibility for compliance with environmental requirements. This authorization extends to both early and formal consultations before Federal agencies such as the U.S. Fish and Wildlife Service (**USFWS**) and the State Historic Preservation Office (**SHPO**), among others required for compliance with applicable laws and regulations as established in 24 C.F.R. § 58.14 and § 58.5. GM should include and copy the PRDOH Environmental Division in all communications with Federal and local agencies for these purposes.

PRDOH appreciates GM's commitment to Puerto Rico's recovery and is confident in its ability to execute this task effectively. Please feel free to contact me with any questions.

Sincerely,

Ciary Pérez Peña
Secretary
Puerto Rico Department of Housing

Cc. Alberto Mercado Vargas
GM Environmental SME
alberto.mercadovargas@horne.com

July 28, 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- 06-06-25-01 – PR-CRP-000048, Nuevo Estacionamiento Público en la Calle Libertad, Jayuya, 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 June 26, 2025, in response to the submission of documentation for PR-CRP-000048, Nuevo Estacionamiento Público en la Calle Libertad project. The letter stated your office had determined your records supported the finding of no adverse effect for the proposed undertaking conditioned to archaeological monitoring during all ground disturbing activities for the project, and the preparation and submission of an archaeological monitoring work plan for review and concurrence.

As such, we are submitting the requested Archaeological Monitoring Plan prepared by Archaeologist David Sherman and reviewed by Archaeologist Karen Anderson-Córdova. 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 kristin.sanders@horne.com or phone at 225-276-2109.

Kindest regards,

Kristin P. Sanders

Kristin P. Sanders
Historic Preservation Manager

Attachments



PR-CRP-000048

Archaeological Monitoring Plan
Nuevo Estacionamiento Público en la Calle Libertad
Jayuya PR

SHPO-CF-06-06-25-01

Submitted to:
PR State Historic Preservation Office

Prepared By:
David Sherman, MA
Archaeologist – ICF

Reviewed By:
Karen Anderson-Córdova, PhD
Archaeologist – HCC for ICF

Date:
July 22, 2025

Table of Contents

Preamble 3
Description and Development of the APE 5
Description of Proposed Project 6
Ground Disturbing Activities 6
Archaeological Evaluation and Monitoring Procedure 7
Before Construction Begins 9
During Demolition and Construction 10
After Construction Ends 13
Human Remains 13
Summary of Anticipated Products 15
Professional Qualifications 15
References 16
Appendices 17
Appendix A: SHPO Concurrence Letter 17
Appendix B Monitoring Daily Activity Sheet 18
Appendix C: 90% Plans (dated 2024.05.29) 21

Table of Figures

Figure 1. APE Overview 4
Figure 2. First Floor plan As-Built. 6
Figure 3. Approximated location of Basement 8

Preamble

The Municipality of Jayuya is seeking Community Development Block Grant Disaster Recovery (CDBG-DR) 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 Jayuya for the City Revitalization Program (CRP) as part of the CDBG-DR.

The Municipality of Jayuya proposes to expand an existing public parking lot in the urban center of the municipality by constructing an elevated reinforced concrete parking structure above the current occupation footprint. The existing parking lot is located within the boundary of the Jayuya Traditional Urban Center (TUC), a National Register eligible historic district. The parking lot is a non-contributing improvement, and the proposed project will have no adverse effect on historic properties for this undertaking conditioned to archaeological monitoring during all ground disturbing activities for the within the Area of Potential Effects (APE).

A formal consultation with the PRSHPO was prepared for the project in compliance with Stipulation II.A.4 of the Section 106 Programmatic Agreement[1] (PA) as amended in the form of an Effect Determination Form (EDF). PRSHPO, in a letter dated June 26, 2025, concurred with a finding of No Adverse Effect for this undertaking provided the condition to implement an archaeological monitoring plan during ground-disturbing activities during the project (see Appendix A). This monitoring plan is based on the Archaeological Monitoring Work Plan Template developed by Archaeologist Sharon Meléndez Ortiz, Horne PR, 2023.

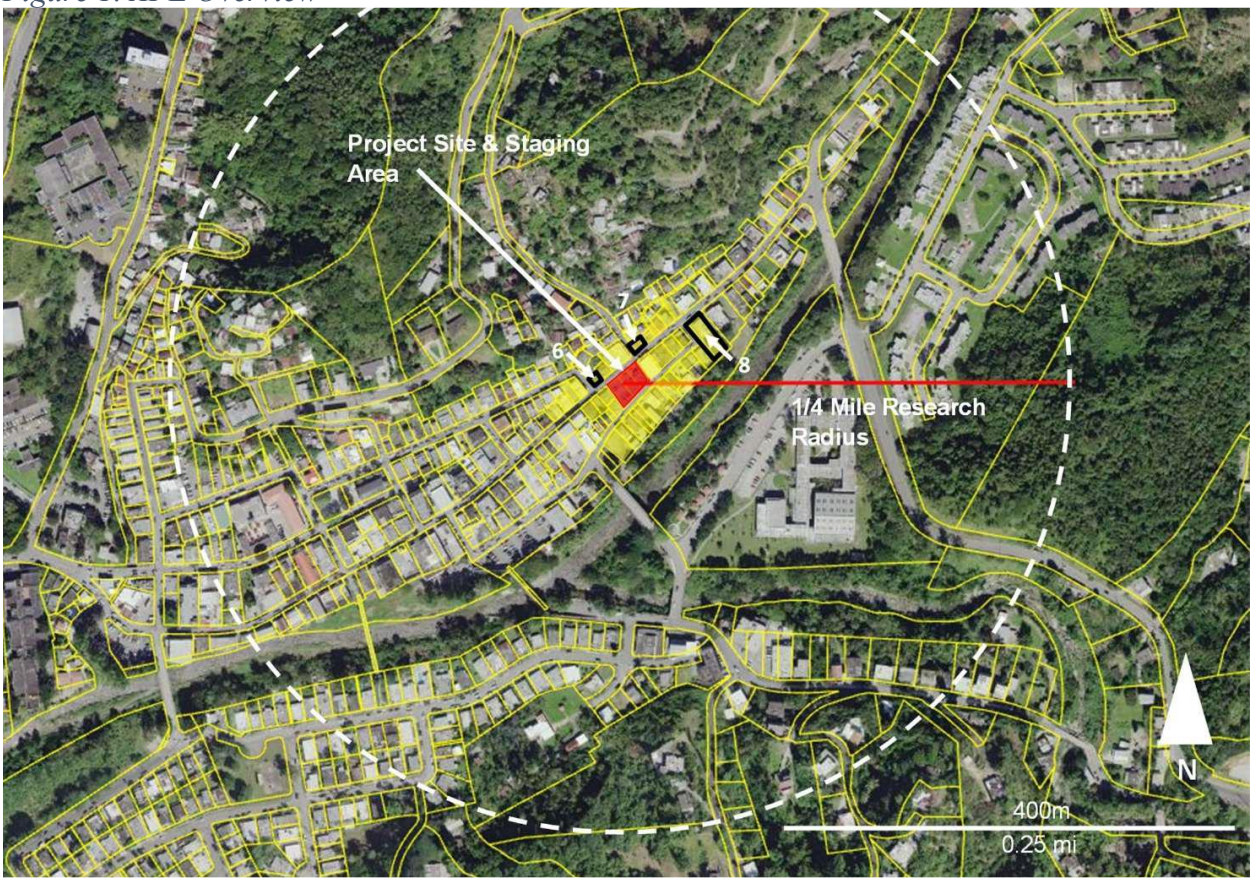
The following description of the direct and indirect APE is a summary of the information presented in the NHPA Section 106 EDF Nuevo Estacionamiento Público en la Calle Libertad (PR-CRP-000048) completed 5/23/2025.

The Program has determined that the direct APE for this project (Figure 1) is defined as the area contained within the footprint of the construction site, including any staging areas. The project footprint and staging area is approximately 8,319 square feet (sf) and is located between Guillermo Estevez and Libertad streets at the following coordinates: 18.219837, -66.589825. The parking lot was built sometime between 1993 and 2004 and is located within NRHP-eligible

[1] An addendum to the FEMA prototype PA was completed to include the PRDOH and CDBG-DR program (FEMA 2019).

Jayuya's TUC boundaries. The property is limited to the northwest by Guillermo Estevez Street, to the southeast by Libertad Street, and to the northeast and southeast by adjacent buildings. The Program has determined that the indirect area of potential effects for this project, includes the viewshed of the project: properties immediately adjacent to the site, and properties within a ¼ mile research radius (see Figure 1) not obstructed from view by other buildings, structures or vegetation. The viewshed is contained within an area defined by points at 18.220491, -66.589231 in the northeast, 18.220089, -66.588868 southeast, 18.219287, -66.589788 in the southwest, and 18.219628, -66.590528° in the northwest.

Figure 1. APE Overview



The plan 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, PR Regulation #8932 of the Council for Protection of the Puerto Rico Terrestrial Patrimony and PR

Regulation #9233 of the OGPe (Puerto Rico Permits Management Office). The monitoring plan was prepared by archaeologist David Sherman, MA with ICF. A technical review of the monitoring plan was performed by archaeologist Karen Anderson-Córdova, PhD with Historical Compliance Consulting. Both archaeologists exceed the requirements set forth in 36 CFR Part 61.

Description and Development of the APE

The information in this section is a summary of the information presented in NHPA Section 106 EDF entitled "NHPA Section 106 EDF Nuevo Estacionamiento Público en la Calle Libertad (PR-CRP-000048) completed 5/23/2025.

PHYSIOGRAPHIC REGION AND SOILS

Jayuya is situated in the expansive central mountainous region of Puerto Rico. The project area is located within the NRHP eligible Jayuya TUC. The TUC Center is located in the foothills and north of the Jayuya River. It is bordered to the south by the Jayuya River and to the north by a mountainous area. The project is bordered to the northwest by PR-141, to the southeast by Libertad Street, and to the northeast and southwest by buildings located outside the APE. The project area has a flat topography and is located 1,443 feet above sea level. The nearest bodies of water to the project area are the following: unnamed creek located 0.24 miles northwest; the Río Jayuya located 0.04 miles southeast; and Río Caricaboa located 0.24 miles southwest.

The surface geology of the APE is dominated by Quaternary alluvium. The APE is underlain by Reilly gravelly silt loam (Re). These soils are nearly level and excessively drained and develop on slightly higher natural levees along stream and river channels and form in alluvial deposits of mixed origin. The permeability of Reilly soil is rapid, and the available water capacity is very low. Runoff is slow. Fertility is medium.

Description of Proposed Project

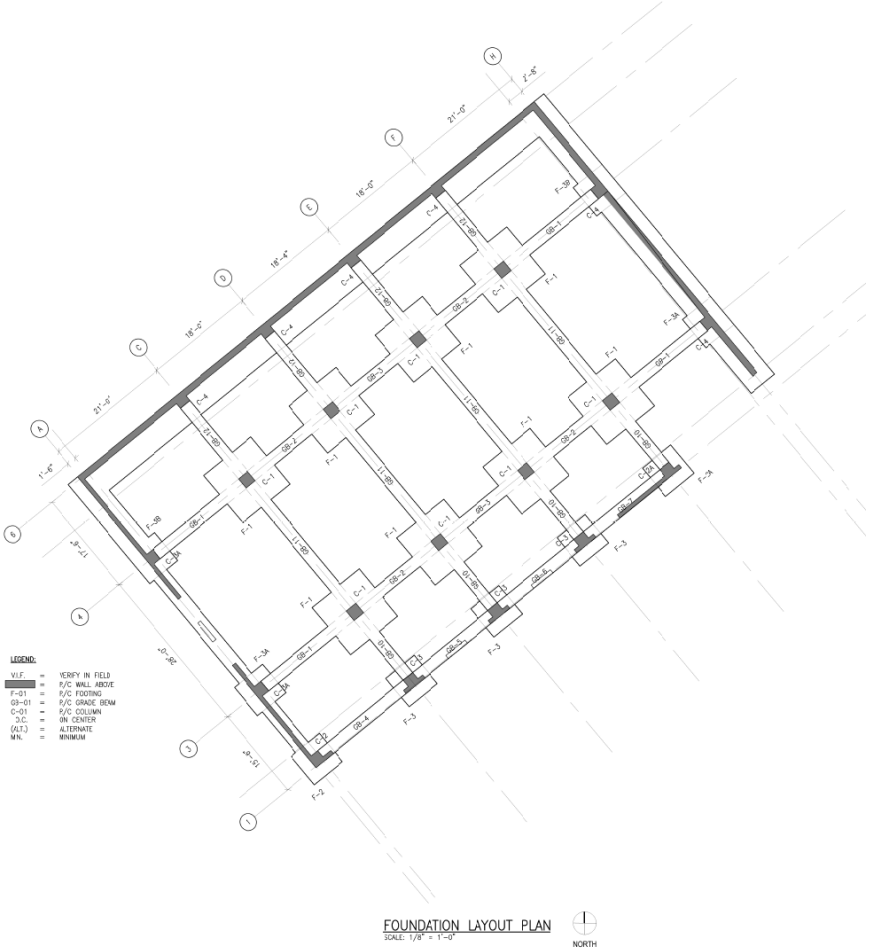
The information in this section is a summary of the information presented in NHPA Section 106 EDF entitled "Nuevo Estacionamiento Público en la Calle Libertad (PR-CRP-000048)" completed 5/23/2025.

The proposed project, PR-CRP-000048, is within the NRHP eligible Jayuya TUC. The project is located between Liberty Street and PR 141, Jayuya, PR 00664; coordinates 18.219837°, -66.589825° (see Figure 1). The project seeks to expand an existing public parking lot in the urban center of the municipality by constructing an elevated reinforced concrete parking structure above the current occupation footprint. The access to the upper level will be via PR- 141/Guillermo Esteves Street and the lower level will be accessible via Libertad Street. A parking area for bicycles and motorcycles will also be included. The proposed activity will add 10 parking spaces to increase the total available spaces from 22 to 32.

Ground Disturbing Activities

Ground disturbing activities will include excavation of up to a depth of five feet for structural foundations, installation of columns, and reinforced concrete slabs (Figure 2) . The proposed activity has a total footprint of 772.78 square meters (0.19 acres).

Figure 2. Foundation Layout showing the location of footings where excavations will occur.



Archaeological Evaluation and Monitoring Procedure

The objectives of this archaeological monitoring plan are: (1) to establish measures to prevent direct adverse effects on historic properties; (2) to establish the protocol to be followed by the monitor and construction crew before, during, and after construction; (3) to establish the protocol to be followed in the event of an inadvertent discovery of archaeological resources; (4) to establish the protocol to be followed in the event of an inadvertent discovery of human remains; (5) to outline the documentation required and relevant timelines for deliverables; and lastly (6) to ensure the protection of cultural resources throughout the proposed scope of work.

The monitoring activities are divided into three groups: activities before the project begins, activities during construction, and post-construction activities. Monitoring is limited to ground-disturbing activities such as the demolition and new construction activities defined in the previous section and the design plans. Those activities that do not require ground disturbance do not require an archaeological monitor. The monitor shall not defer their monitoring responsibilities to any other person who does not meet the minimum professional qualifications outlined in the Professional Qualifications section.

The background research on historic properties within the direct APE suggests that there may be potential for prehistoric and historic archaeological resources within the APE.
The immediate topography of the APE, the proximity of the Río Grande de Jayuya, would have made it attractive to prehistoric populations. These observations, along with the density of recorded archaeological sites in the municipality suggest the APE is within an archaeological high probability area. The soils within the APE are mapped as Reilly gravelly silt loam form in deep alluvial deposits. These soils are thought to have some potential to have aggraded since the advent of human occupation in Jayuya. For this reason, the APE is thought to possess some potential to harbor buried prehistoric and historic archaeological resources below the level of previous construction impact from parking construction.

Although limited ground disturbance is anticipated, the following activities have the potential to affect archaeological resources and are subject to archaeological monitoring: excavation of up to a depth of five feet for structural foundations, installation of columns, and reinforced concrete slabs (see Figure 2).

It is important to distinguish between the treatment of expected finds (for which the plan is being implemented) and unanticipated historically significant archaeological resources. Expected finds for this project include cultural materials representative of construction of the extant parking lot, as well as those that post-date the period of significance of the Jayuya TUC. If encountered, such finds will be considered modern refuse and discarded and then follow the course of the project without triggering consultation with PRSHPO. Expected finds for this project also include historic deposits that date to the period of significance for the TUC but possess limited data potential, including old road alignments, curbs, sidewalks and foundations. If encountered, such finds would be exposed, documented, and then follow the course of the project without

triggering consultation with PRSHPO.

Unanticipated finds of historically significant archaeological resources for this project include the discovery of historic archaeological remains that date to, or prior to, the period of significance of the Jayuya TUC that possess a high data potential, such as privies, cisterns, or other historic features. Unanticipated finds of historically significant archaeological resources would also include interpretable prehistoric archaeological deposits and features, such as hearths, storage pits, and prehistoric architectural remains. If encountered, the treatment of historically significant finds shall follow the inadvertent discovery plan process outlined in bullet 6 of the During Demolition and Construction section.

Before Construction Begins

1. The Municipality and Construction Manager (CM) will notify the Project Manager (PM), Grant Manager (GM), and SOI-qualified archaeological monitor (monitor) of the proposed activities' start date. The PM is responsible for coordination between the CM and monitor. The GM shall notify the PRSHPO of the start date of the project and of the archaeologist who will be conducting the monitoring.
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 CM. The monitor will provide an orientation on the area's cultural 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 CM will ensure that all personnel in the field are aware that the monitor can provide instructions directly to the construction field crew personnel concerning how to proceed when there is the potential to impact an archaeological resource.

The construction field personnel will abide by these requests' examples of which include excavating slowly, stopping the excavation to evaluate a finding, etc.

During Demolition and Construction

1. The monitor shall be in the field during all project activities involving demolition and construction with full access and clear sightlines to all demolition and ground-disturbing construction activities. If ground-disturbing work is conducted in multiple locations simultaneously, then a monitor shall be present at each site. Therefore, the number of monitors required in the field will vary based on the number of locations where ground-disturbing work is occurring.
2. The monitor shall provide instructions directly to the construction field personnel concerning how to proceed when there is the potential to impact an archaeological resource. The construction field personnel shall abide by these requests and exercise caution when excavating in areas that may contain buried archaeological resources.
3. The Monitor shall keep a record of monitored activities. The monitor shall fill out the Daily Record of Activities Form (see Appendix B). These forms shall be sent weekly to the GM for review and will be included in the final report.
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. 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. If historically significant archaeological materials are encountered, per stipulations III.B.1.a. and III.B.1.b of the PA, an inadvertent discovery plan shall be implemented and the monitor shall instruct the construction crew to immediately cease work within the vicinity of the inadvertent discovery; take all reasonable measures to avoid or minimize harm to the property; notify the Municipality, PM, CM, and GM of which the GM shall immediately notify the PRSHPO; and adhere to the following protocol:
    i. The monitor shall make a preliminary assessment in an Inadvertent Discovery Report. The assessment shall include a description of the discovery, location, horizontal and vertical extent (if known), context, photographs, and drawings including a site plan. Additionally, the assessment shall include an NRHP-eligibility determination. Lastly, the assessment shall also implement a work plan for continuing construction in recognition of the inadvertent discovery.
    ii. The Inadvertent Discovery Report shall be submitted via email to the PM and GM within 24 hours of the discovery. Construction shall not continue in the vicinity of the inadvertent discovery until the following steps have been completed and the PRSHPO has concurred with the NRHP-eligibility determination.
        1. The GM shall notify the PRSHPO of the NRHP-eligibility determination. If the finding is **not eligible** to the NRHP, the GM shall notify the PRSHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the PRSHPO disagrees with the NRHP determination and makes a timely objection within 48 hours of notification.
        2. 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 finding, the GM shall notify the PRSHPO and provide

supporting documentation. Construction activities may resume under archaeological monitoring unless the PRSHPO makes a timely objection within 48 hours of the notification.

3. If the project activities have an **adverse effect** on the NRHP-eligible finding, a data recovery plan will be implemented as a treatment measure per Appendix F.H 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 (NPS 1983) and the Advisory Council on Historic Preservation's (ACHP 2009) recommendations on the recovery of significant information from archaeological sites. The data recovery plan and research design shall be submitted to the GM for comments, who after review shall submit the plan to the PRSHPO for comments and approval. The PRSHPO shall have two weeks to comment on the data recovery plan. This treatment measure does not apply to burials or human remains.
4. PRDOH in consultation with the PM, GM and Municipality shall determine a specific plan for the curation of artifacts as well as field and laboratory records in accordance with the provisions of 36 CFR Part 79, per stipulation III.C.2.a. of the PA.

7. If any 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 the GM, shall evaluate these activities and apply the adverse effect criteria. If it is determined that the effect is adverse, the monitor will provide recommendations on how to avoid, minimize, or mitigate the adverse effect. These recommendations will be consulted with the PRSHPO prior to implementation. The PRSHPO will have fifteen days to comment on the recommendations. If no communication is received within that time frame it will be assumed that the PRSHPO has no objection and concurs with the recommendations outlined.
8. If during construction activities a known historic property is affected in an

unanticipated manner, the CM shall stop work immediately, and inform the Municipality, PM, GM. 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 PRSHPO prior to implementation. The PRSHPO will have 48 hours to comment on the recommendations. If no communication is received within that timeframe, it will be understood that the PRSHPO has no objection and concurs with the recommendations outlined.

After Construction Ends

1. Upon the completion of archaeological monitoring, the Municipality, PM and GM shall be notified. The PM shall be responsible for submitting the last weekly report to the GM, who after review will forward it to the PRSHPO.
2. A technical report shall be prepared detailing monitored construction activities, documentation for archaeological features or other findings, location of temporary curatorial repository for any artifacts, and analysis and interpretation of the results. The report must include visual information, such as drawings, photographs, an overview map of the APE with all archaeological resources encountered plotted on the map to scale, and sketch maps of any archaeological features. The report shall be submitted to the GM no later than four to eight weeks after completing the archaeological monitoring work. The GM shall submit the report to the PRSHPO no later than one (1) week after receiving it.

Human Remains

If any member of the construction team believes an inadvertent discovery involving possible human remains has occurred, they shall call a stop work in the immediate vicinity and notify the monitor. The archaeological monitor must adhere to the following protocol:

1. Stop work immediately.
2. Project personnel should not take photographs of potential remains and the remains should be treated with dignity and respect, left in situ and

protected from further disturbance or harm.

3. Per stipulation III.B.1.a. and III.B.1.b of the PA, the monitor shall immediately notify the local law enforcement office and the coroner/ medical examiner, following applicable Commonwealth statute(s).
4. The monitor shall notify the GM who in turn shall notify the PRSHPO within 24 hours of identifying human remains.
5. The coroner or law enforcement office will make the official ruling on the nature of whether the remains are forensic or archaeological.
6. If the remains are determined to be archaeological and native to Puerto Rico, then per stipulation III.B.1.d.iii. of the PA, subsequent actions concerning the remains shall follow the guidelines outlined in the ACHP's *Policy Statement Regarding the Treatment of Burial Sites, Human Remains, and Funerary Objects* (ACHP 2023).
7. The decision concerning whether to mitigate potential impacts to the remains by avoidance, or whether to disinter the remains for reinterment in a new location shall be made by the GM in consultation with the PRSHPO and shall be consistent with all applicable state statutes and regulations.
8. Construction shall not continue in the area around the human remains as determined by the archaeological monitor until a determination from the GM and PRSHPO has been made and the plan has been executed on-site by the archaeological monitor.

Summary of Anticipated Products

Daily Monitoring Record of Activities Form – This form should include a description of daily tasks completed including but not limited to demolition activities, construction activities, and their results. It should be completed daily and compiled weekly for submission to the PM and GM for review.

Inadvertent Discovery Report – This report should include identification of any historically significant findings, their location, a detailed description, context, provenience, photos, to-scale plan drawing, the integrity and importance of the findings, and clear recommendations for eligibility status. This shall be submitted to the PM and GM within 48 hours of the inadvertent discovery.

Archaeological Monitoring Plan Final Report – The final report will include the following sections at a minimum: Introduction, Methods, Results, Discussion, and Conclusion. Additionally, the report shall include any relevant photographs of artifacts, features, fieldwork and any relevant maps that show the location of any archaeological resources encountered. Lastly, all fieldwork paperwork such as the Daily Record of Activities Forms, Weekly Reports, and Inadvertent Discovery Reports shall be included and the results summarized in the report. The final report shall be submitted to the PM and GM no later than four to eight weeks after completion of the archaeological monitoring work. The GM shall review the report and submit it to the PRSHPO no later than one week after receiving it.

Professional Qualifications

The monitor must meet the minimum Secretary of the Interior Professional Qualifications Standards for Archaeology established in 36 CFR Part 61 (NPS 1983). These are: a graduate degree in archaeology, anthropology, or closely related field; 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 historic period.

References

Francisco J. Moreno Orama and Jaqueline López Meléndez
2024 Puerto Rico 2017 Disaster Recovery, CDBG-DR Program. City Revitalization Program (City-Rev) Section 106 NHPA Effect Determination Form entitled Nuevo Estacionamiento Público en la Calle Libertad, Jayuya PR (PR-CRP-000048) completed 5/23/2025.

Abacus Architecture PSC
2024 PR-CRP-001060 90% Design Plans for the Multilevel Parking at MQM.

Advisory Council on Historic Preservation (ACHP)
2023 Policy Statement Regarding the Treatment of Burial Sites, Human Remains, and Funerary Objects. ACHP, Washington, DC.
https://www.achp.gov/digital-library-section-106-landing/achp-policy-statement-burial-sites-human-remains-and-funerary

2009 Section 106 Archaeology Guidance. ACHP, Washington, DC.
https://www.achp.gov/protecting-historic-properties/Section_106_Archaeology_Guidance

Federal Emergency Management Agency
2019 Second Amendment to Programmatic Agreement among the Federal Emergency Management Agency, the Puerto Rico State Historic Preservation Officer, and the Puerto Rico Central Office for Recovery, Reconstruction and Resiliency.

National Park Service
1983 Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines for Archaeological Documentation.
https://www.nps.gov/subjects/historicpreservation/upload/standards-guidelines-archeology-historic-preservation.pdf

Appendices

Appendix A: SHPO Concurrence Letter

OFICINA ESTATAL DE
CONSERVACIÓN
HISTÓRICA
GOBIERNO DE PUERTO RICO
Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Thursday, June 26, 2025

Lauren B Poche

269 Avenida Ponce de León, San Juan, PR, 00917

SHPO-CF-06-06-25-01 PR-CRP-000048 (Jayuya), Nuevo Estacionamiento Público en la Calle Libertad

Dear Ms. Poche,
Our Office has received and reviewed 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 PRSHPO concurs with your determination that the proposed project will have no adverse effect on historic properties for this undertaking conditioned to a archaeological monitoring during all ground disturbing activities for the project. An archaeology monitoring work plan must be summited to PRSHPO for its review and concurrence before any works initiates.
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/ OJR

Appendix B 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
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: **Description:**	
Direction of Photo: **Description:**	

Appendix C: 90% Plans (dated 2024.05.29)

OFICINA ESTATAL DE
CONSERVACIÓN
HISTÓRICA
GOBIERNO DE PUERTO RICO
Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Thursday, June 26, 2025

Lauren B Poche

269 Avenida Ponce de León, San Juan, PR, 00917

SHPO-CF-06-06-25-01 PR-CRP-000048 (Jayuya), Nuevo Estacionamiento Público en la Calle Libertad

Dear Ms. Poche,
Our Office has received and reviewed 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 PRSHPO concurs with your determination that the proposed project will have no adverse effect on historic properties for this undertaking conditioned to a archaeological monitoring during all ground disturbing activities for the project. An archaeology monitoring work plan must be summited to PRSHPO for its review and concurrence before any works initiates.
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/ OJR

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

6/6/2025

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

Section 106 NHPA Effect Determination Submittal for PR-CRP-000048, Nuevo Estacionamiento Público en la Calle Libertad, Jayuya, 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, the Puerto Rico Department of Housing contracted Horne Federal, LLC (HORNE) to provide environmental records review services that will support the objectives of the Puerto Rico Department of Housing (PRDOH) for CDBG-DR.

On behalf of PRDOH, HORNE is submitting documentation for the Nuevo Estacionamiento Público en la Calle Libertad Project, located within the Jayuya Traditional Urban Center. The Municipality of Jayuya proposes to expand an existing public parking lot in the urban center of the

municipality by constructing an elevated reinforced concrete parking structure above the current occupation footprint. The access to the upper level will be via PR-141/Guillermo Esteves Street and the lower level will be accessible via Libertad Street. The full scope of the project is described in the submitted documentation, which includes mapping, photographs, and 90% design plans.

Based on the documentation provided, 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 regarding 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
LPB/KPS

Attachments

PR-CRP-000048

Nuevo Estacionamiento Público en la Calle Libertad Project

Jayuya, Puerto Rico

Section 106 Effect Determination Form

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) **Section 106 NHPA Effect Determination**	
Subrecipient: Municipio de Jayuya	
Project Name: Nuevo Estacionamiento Público en la Calle Libertad	
Project Number: PR-CRP-000048	

Project Location: Barrio Pueblo, Jayuya PR	
Project Coordinates: 18.219837, -66.589825	
TPID (Número de Catastro)**:** 216-096-018-03-001	
Type of Undertaking: ☐ Substantial Repair ☒ New Construction	
Construction Date (AH est.): 1998	**Property Size** (acres)**:** 0.19

SOI-Qualified Architect/Architectural Historian: Francisco J. Moreno Orama, Architect #19875
Date Reviewed: 07/22/2024
SOI-Qualified Archaeologist: Jaqueline López Meléndez
Date Reviewed: 04/22/2024, 8/28/2024, 01/20/2025, 05/23/2025 - Revised

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. It has been determined by the SOI-qualified professionals that the project undertaking does not conform to Stipulation II.A (Project Review – Programmatic Allowances) of the Section 106 Programmatic Agreement (PA) among FEMA, SHPO and COR3, as amended (May 3, 2023).

Project Description

The proposed project, PR-CRP-000048, is within the National Register of Historic Places (NRHP) eligible Jayuya Traditional Urban center (TUC). This municipality has structures damaged by Hurricanes Irma and María. The project is located between Liberty Street and PR-141 Road, Jayuya, PR 00664; coordinates 18.219837°, -66.589825° (**Figure 2**). The project seeks to expand an existing public parking lot in the urban center of the municipality by constructing an elevated reinforced concrete parking structure above the current occupation footprint. The access to the upper level will be via PR-141/Guillermo Esteves Street and the lower level will be accessible via Libertad Street. A parking area for bicycles and motorcycles will also be included. The proposed activity will add 10 parking spaces to increase the total available spaces from 22 to 32. The project includes excavation of about 10' wide by 10' length by 3' depth with over excavation of 5' (**Figure 1**) to prepare the base of the structural foundation, installation of columns and reinforced concrete slab level, installation of bumper guards/wheel stops, asphalt pavement and marking improvements, landscape improvements, and the installation of thermoplastic pavement/road markings, solar lighting poles, traffic signs and a mosaic mural. The proposed activity has a total footprint of 772.78 square meters (0.19 acres).

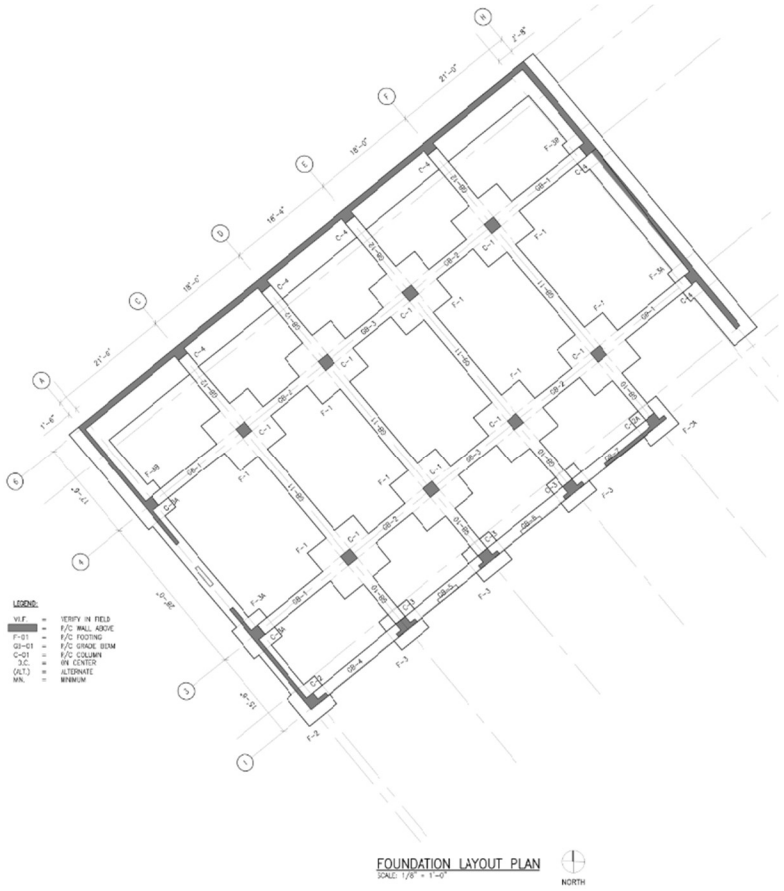


Figure 1. Foundation Layout showing the location of footings where excavations will occur.

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 alterations in the character or use of historic properties if any such properties exist.

The direct APE is defined as the area contained within the footprint of the construction site, including any staging areas. The project footprint and staging area is approximately 8,319 square feet (sf) and is located between Guillermo Estevez and Libertad streets at the following coordinates: x: 183450.5585, y: 242789.0934. Lot lines from the digital cadaster kept by the municipal appraiser agency (CRIM) show the project site as a combination of three individual lots. A comparison of aerial photographs from 1993 and 2004 shows that the three lots were previously occupied by structures that were demolished to give way to the existing parking lot during that time (**Figure 3**).

While the direct APE includes the footprint of the building and staging area within the site, the indirect, or visual, APE includes the viewshed of the project: properties immediately adjacent to the site, and properties within a ¼ mile research radius (**Figure 2**) not obstructed from view by other buildings, structures or vegetation (**Figure 4**).

As a distinct historic property, the traditional urban center (TUC) district is susceptible to visual disruption of its historic character to the extent the urban façade is affected by the undertaking. Accordingly, the direct APE includes any area directly disrupting the urban façade, and the indirect APE includes properties within the boundaries of the viewshed and the TUC (**Figure 4**).

Its traditional town square, or plaza, sits at x: 183177.4703, y: 242680.2203 between Figueras, Canales, Mattei and Torrado streets. Other areas outside this delineation are not susceptible to ground or visual disturbances, hence their inclusion within the APE is deemed inadequate and excessive.

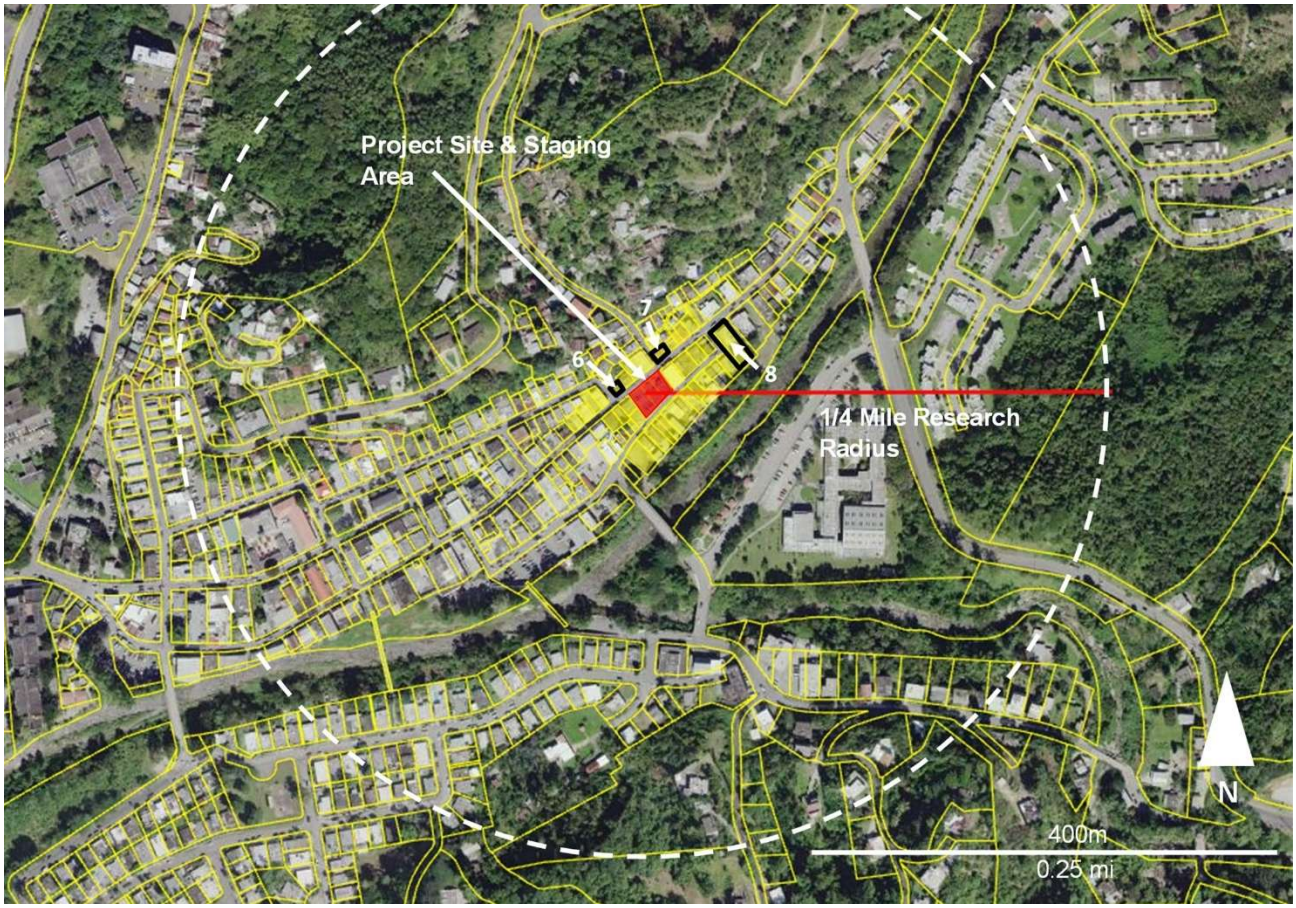


Figure 2. Aerial photograph showing project site and ¼ mile radius for reference. Shaded yellow areas indicate properties within visual APE. Aerial photograph source: Catastro Digital CRIM, 2014.

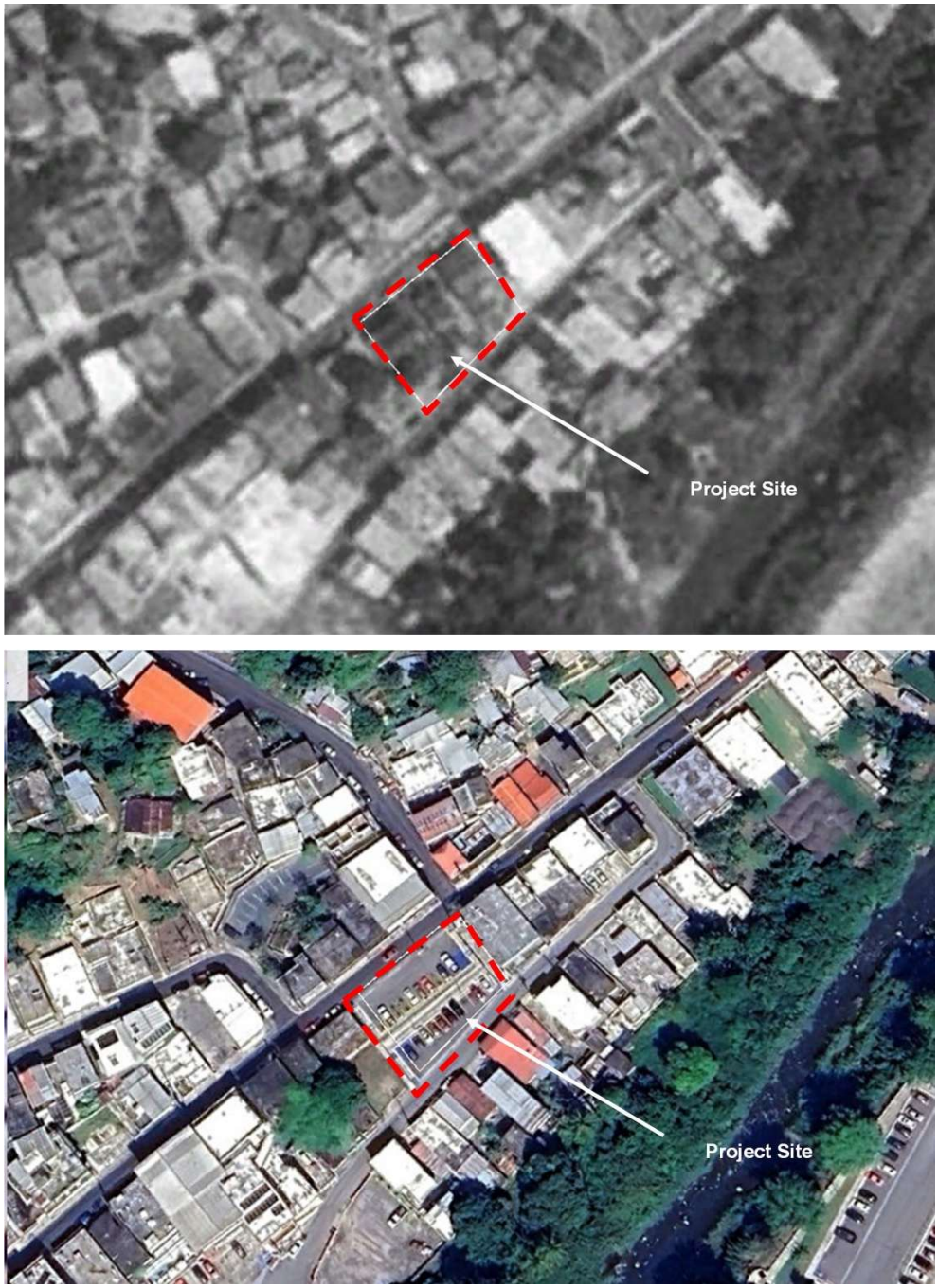


Figure 3. An aerial photograph from 1993 (above) shows three structures within the present project boundaries. An aerial photograph from 2004 (below) shows the existing parking lot. Source: Google Earth, US Geological Survey, 1993 and 2004.



Figure 4. Shaded red area indicates direct APE, red lines indicate project lines of sight, shaded yellow areas indicate properties within indirect APE. Aerial photograph source: Catastro Digital CRIM, 2014.

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 has a medium archaeological potential.

The project area is located within the NRHP eligible Jayuya TUC. The TUC Center is located in the foothills and north of the Jayuya River. It is bordered to the south by the Jayuya River and to the north by a mountainous area. The project is bordered to the northwest by PR-141, to the southeast by Libertad Street, and to the northeast and southwest by buildings located outside the APE. The project area has a flat topography and is located 1,443 feet above sea level. The nearest bodies of water to the project area are the following: unnamed creek located 0.24 miles northwest; the Río Jayuya located 0.04 miles southeast; and the Rio Caricaboa located 0.24 miles southwest. Reilly gravelly silt loam (Re) soils predominate in the project area. This soil is deep, nearly level, and excessively drained. It is on flood plains near streams and rivers. The permeability of this Reilly soil is rapid, and the available water capacity is very low. Runoff is slow. Fertility is medium. This soil is subject to occasional flooding.

In Jayuya there are 25 pre-Columbian sites. This is evidence that Jayuya was populated in Pre-Columbian times, predominantly since the Osionoid period (Period III-660-1500 A.D.) (Rodríguez 2014: 4-6). The great majority of these sites are bateyes and petroglyphs.

The town of Jayuya was officially founded in 1911. Until that time, it was a neighborhood of the town of Utuado. During the 19th century its economy was based exclusively on agriculture and cattle raising. Since the 18th century coffee was planted on its lands. This is still its main agricultural product.

The map of the Jayuya ward made in 1887 by the Army Topographic Commission (**Figure 5**) depicts a single street passing through the community with buildings clustered at several points along the street. The 1887 map shows the location of the church and cemetery. The church appears to be located approximately 0.10 miles southwest of where the Catholic church is currently located. The cemetery is located where the Jayuyano Cultural Center is today.

In the map of the Jayuya ward made in 1897 by the Army Topographic Commission (**Figure 6**) we observe a slight growth of the town in relation to the 1887 map. In that year it did not have a plaza because it was a neighborhood of Utuado. There are more structures than in 1887 located along the only street in the town. Some structures

are apparently visible in the project area. It is very difficult to pinpoint on the map, the location is approximate.

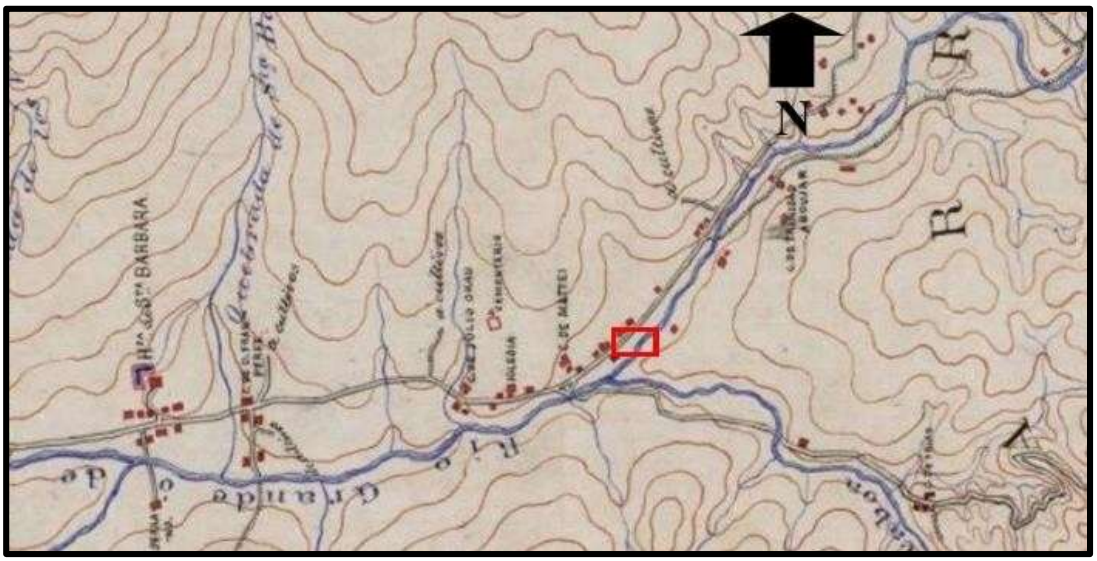


Figure 5. Segment of the Itinerario de Barros a Utuado por los barrios de Cacaos, Recodo y Jayuya, 1887. Archivo Nacional Digital de Puerto Rico. Source: https://archivonacional.com/PL/1/1/1230

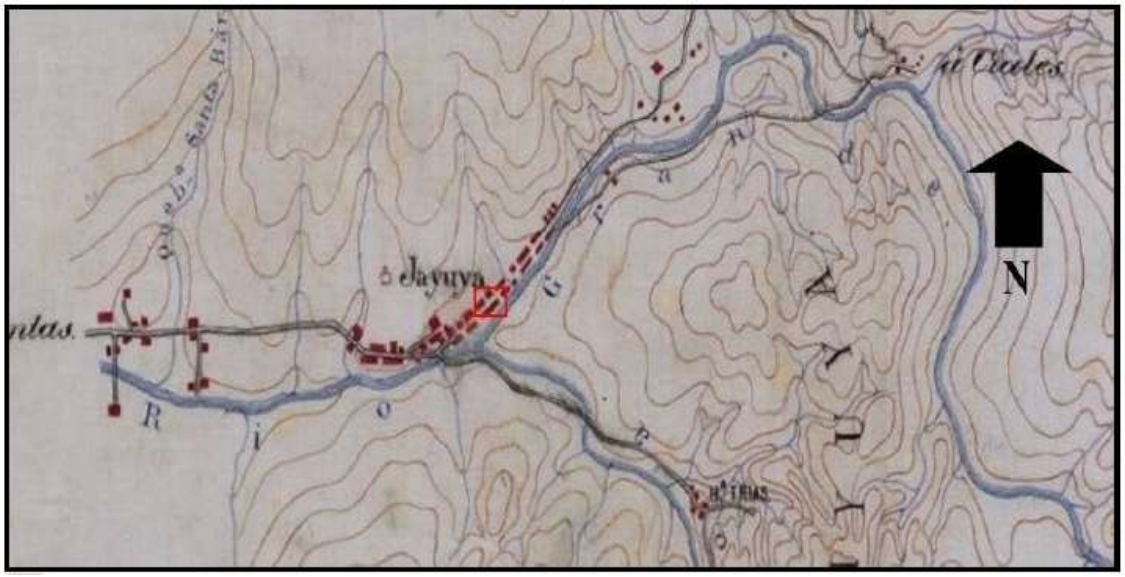


Figure 6. Segment of the Itinerario de Barrio del Coto al poblado de Jayuya, 1897 Archivo Nacional Digital de Puerto Rico. Source: https://archivonacional.com/PL/1/1/1400

Although the municipality of Jayuya was founded in 1911, by 1908 it was already considered a town. In this year William H. Armstrong tells us the following about Jayuya:

"Jayuya is a miserable little (town) lying in a narrow valley at the S.E. base of the Morales peak. The town has one street which begins at a rivulet on the west side and runs towards the east. This town is in the very center of the island lying at the base of the Morales mountains. There is but one narrow dirty main street unpaved and without walks. This street begins near a rivulet from the Ponce Road and extends about due East for half a mile (**Figure 7**).

The town is bounded by very high mountains on all sides. The river runs along the edge of the town and is a very dangerous stream when high. The town has about 60 houses of all classes, a drug store, about 10, 2 story houses, a lively stable, a carpenter shop, 4 general stores, a coffee mill and a cigar factory. There is no water or sewer system. Water is taken from the river. The population in the town is about 450-500, but for the district there are several thousand. There is no hospital. There is no regular school building. There is small modern concrete Protestant church building, capacity 50. The people are anti American, poor and mostly of the illiterate class. The sanitary conditions are filthy in every way."



Figure 7. Photo of Jayuya's main street (1910), looking east. (Sepúlveda 2004: p. 212, Vol. 3)

In the 1937 aerial photo we observe that the urban center of Jayuya developed and grew to the north and west of the Rio Grande de Jayuya (

Figure 8). There are some buildings within the project area. On the southern boundary there are some small buildings and then a vacant lot adjacent to the river. In the northeastern and southwestern hillsides there are other slightly larger buildings.

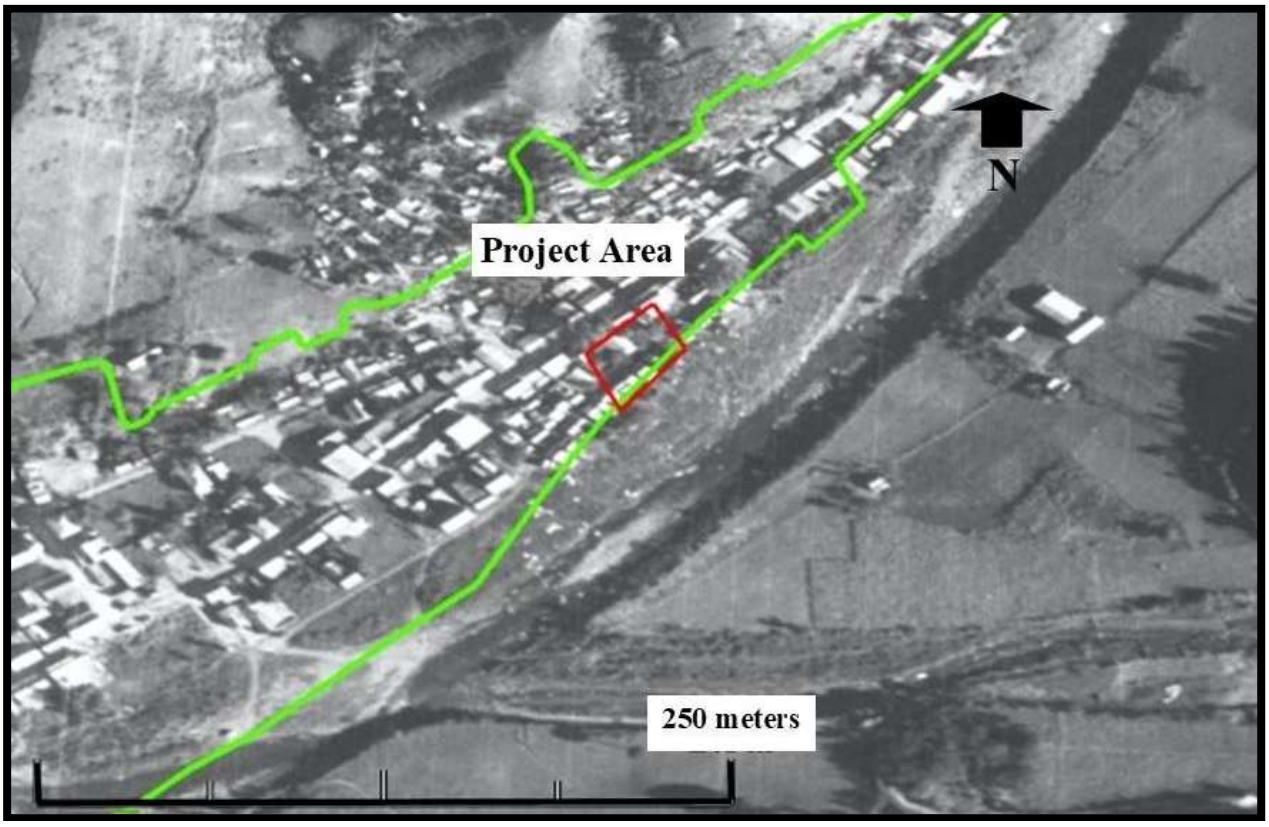


Figure 8. Project Area in the aerial photo of Jayuya 1937.

In the 1946 topographic map we can see a row of buildings within the project area along the PR-141 road. There is also a row of houses to the south outside the project area (

Figure 9).

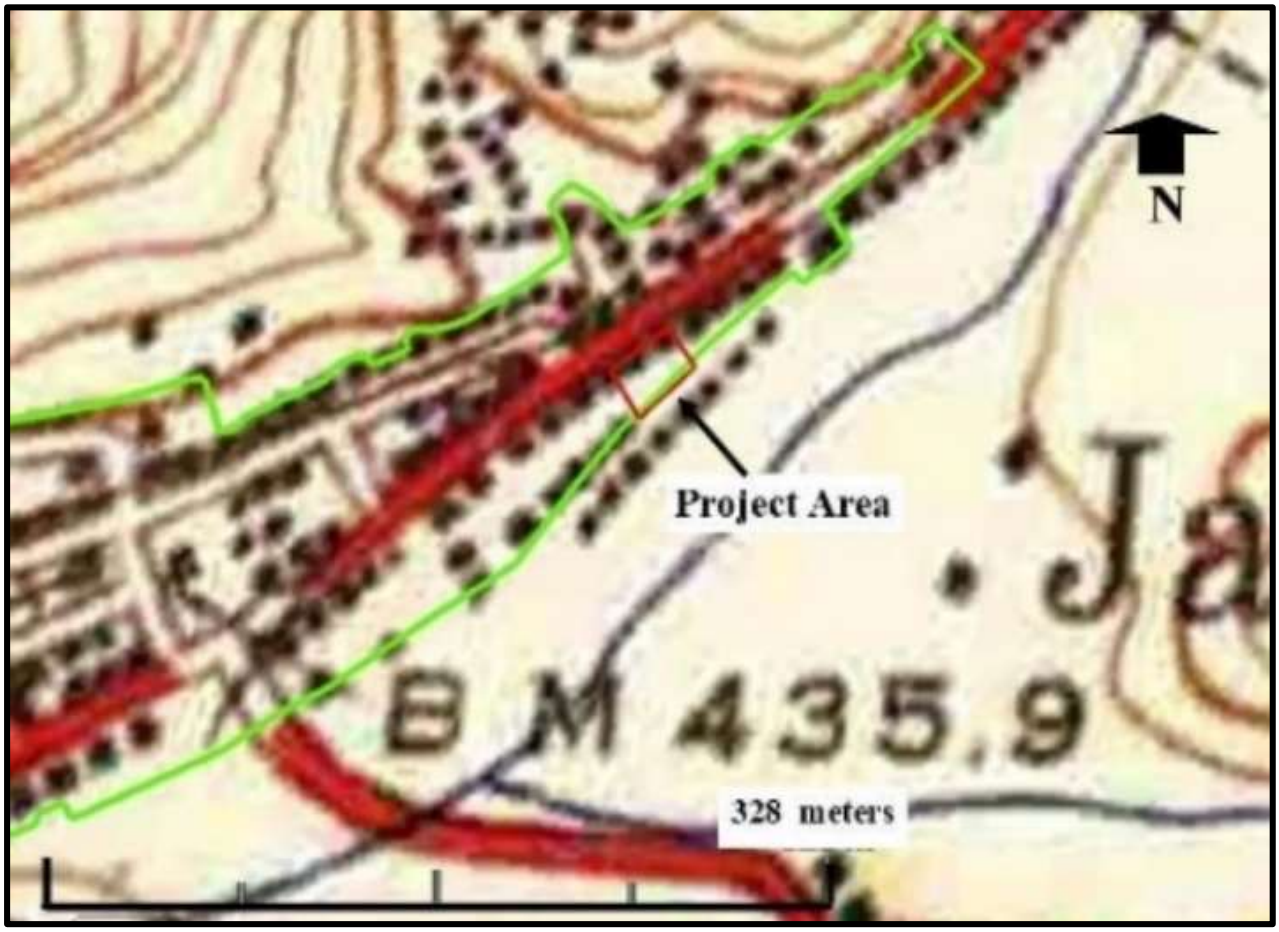


Figure 9. Project Area in the 1946 USGS Topographic Quadrangle of Jayuya Green line-Jayuya Traditional Urban Center, red line- Project area.

In the 1960 topographic survey edited in 1961, we observed an increase in buildings to the southwest and southeast of the project area, bordering the river (**Figure 10**).

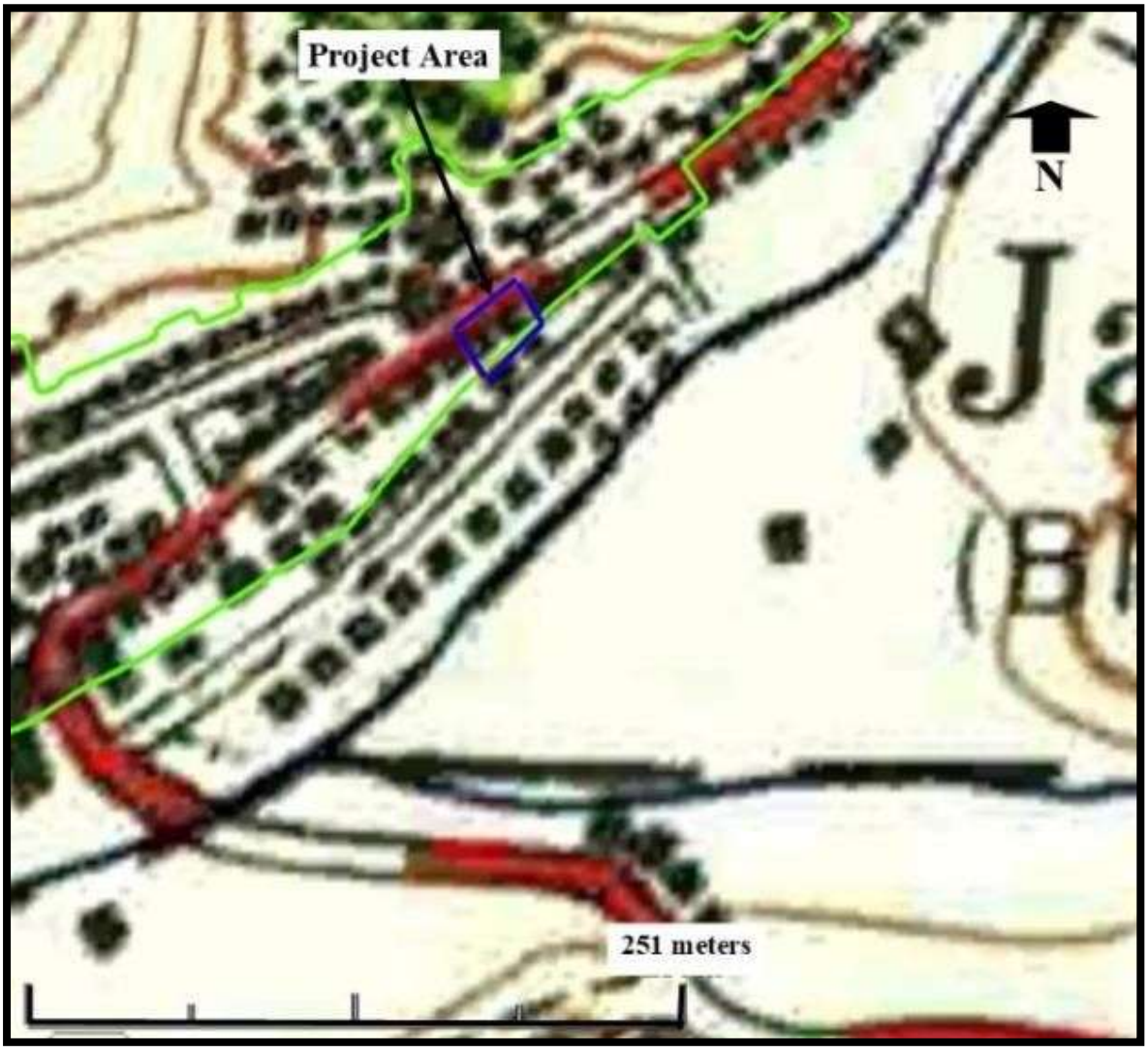


Figure 10. Project Area in the 1960 photorevised 1961 USGS Topographic Quadrangle of Jayuya Green line-Jayuya Traditional Urban Center, blue line- Project area

The October 1993 aerial photo shows buildings covering the entire project area (**Figure 11**).

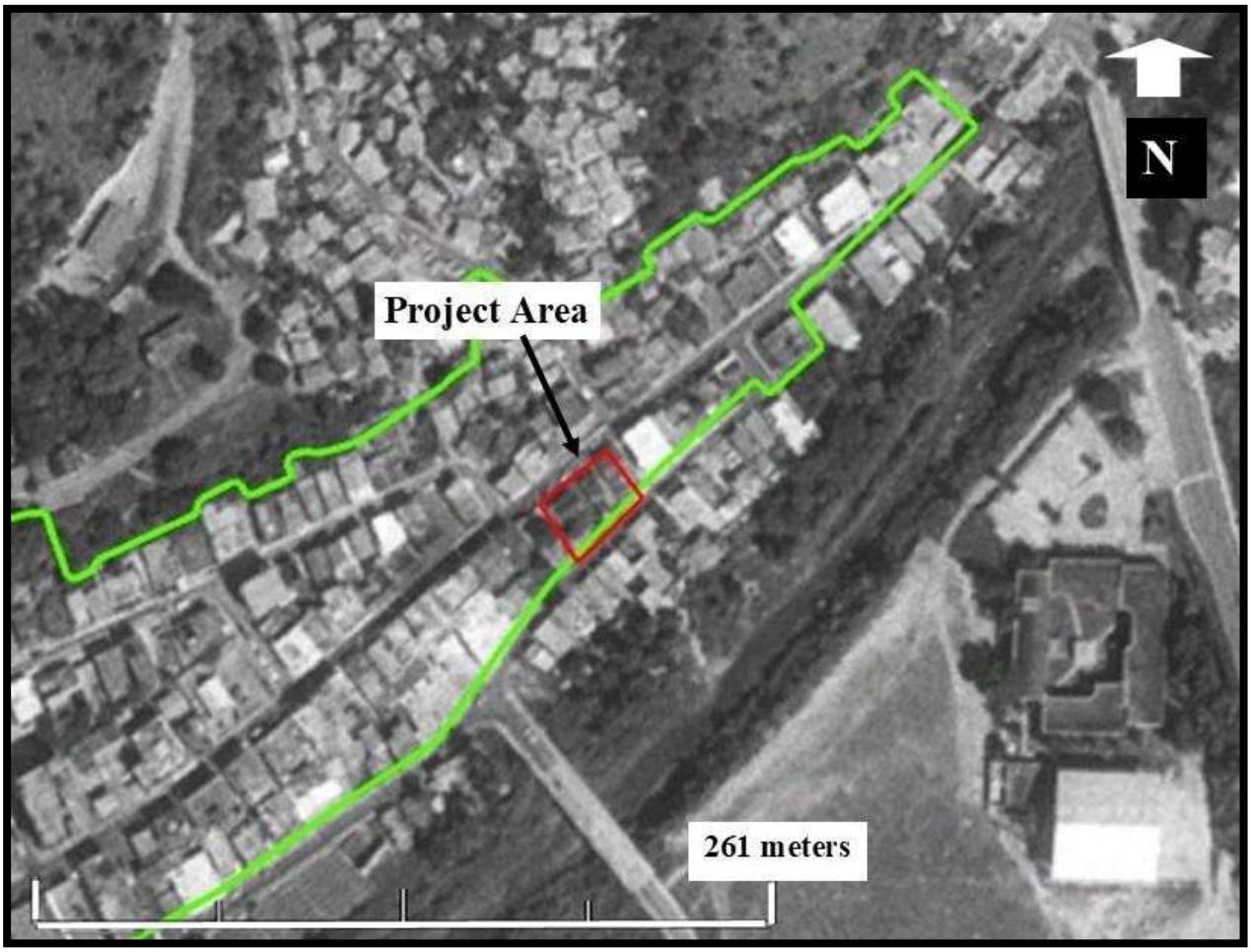


Figure 11. Project area in the 1993s aerial photograph green line-Jayuya. Traditional Urban Center, Red line- Project area

The 2004 aerial photo is the earliest image where we observed a parking lot in the project area (**Figure 12**). Presumably, the former buildings in the project area were demolished sometime between 1993 and 2004, when the site was repurposed as a parking lot.



Figure 12. Project area in the 2004s aerial photograph, green line-Jayuya Traditional Urban Center, red line- Project area

In the archives of the State Historic Preservation Office (SHPO) and the Institute of Puerto Rican Culture (ICP), five (5) archaeological studies were found within a 0.25 miles study radius of the project area (**Table 1**)(**Figure 13**). Of the five surveys conducted within the 0.25-mile radius, only one yielded positive result. This study conducted by archaeologists Alvarado and Maurás (2005) yielded positive results for historic resources during monitoring work for the Undergrounding of Power Lines, Urban Fabric Reform and Paseo Ventana al Río project in the Municipality of Jayuya. The work was carried out on Canales, Torrado, Esteves, Mattei and Figueras streets. Maurás, documented remains of bricks and tiles under Canales Street, belonging to a layer of fill brought from elsewhere and deposited in the area. This work also documented the remains of bottles, plates, cups and other artifacts used in the kitchen in an area under Torrado Street. Adjacent to the project Daubón (1987) excavated shovel test pits for the "Improvements to the water supply system" project, with negative results. In the description table of the 15 shovel test pits excavated, Daubón mentions that the shovel test pits were negative and that the soils were composed of brown and black/brown coarse sand. In this table he does not specify the depth of the test pits nor does he make an analysis of the soils. None of the studies reviewed were conducted within the direct APE.

Table 1. Table of cultural resources surveys conducted within the project area or within a 0.25-miles radius.

Author	Phase/Title	Year	SHPO / IPRC code	Results	Distance/ Direction
Antonio Daubón	IA/Restauración, Re-Estructuración y Remodelación del Centro Urbano de Jayuya	1996	ICP/CAT-JY-96-01- 03, SHPO: 05-28-96-01	Negative	0.19 mi SW
Marisol Martínez	IA-IB/ Plaza del Mercado de Jayuya	2002	ICP/CAT-JY-02-02-04	Negative	0.19 mi SW
Antonio Daubón	IB/ Improvements to the water supply system, 589.00 L.M. of 12" Dist. Force Line to be installed	1987	ICP/CAT-JY-87-01- 01, SHPO: 12-03-86-01	Negative	Adjacent
Juan González	IA-IB/ Sistema Alcantarillado Sanitario	2003	SHPO: 07-09-98-01	Negative	0.11 mi S

Author	Phase/Title	Year	SHPO / IPRC code	Results	Distance/ Direction
Fernando Alvarado y Adalberto Maurás	Soterrado de Líneas Eléctricas, Reforma Tejido Urbano y Paseo Ventana al Río del Municipio de Jayuya, PR	2005	-	Positive Historic remains	0.11 mi SW

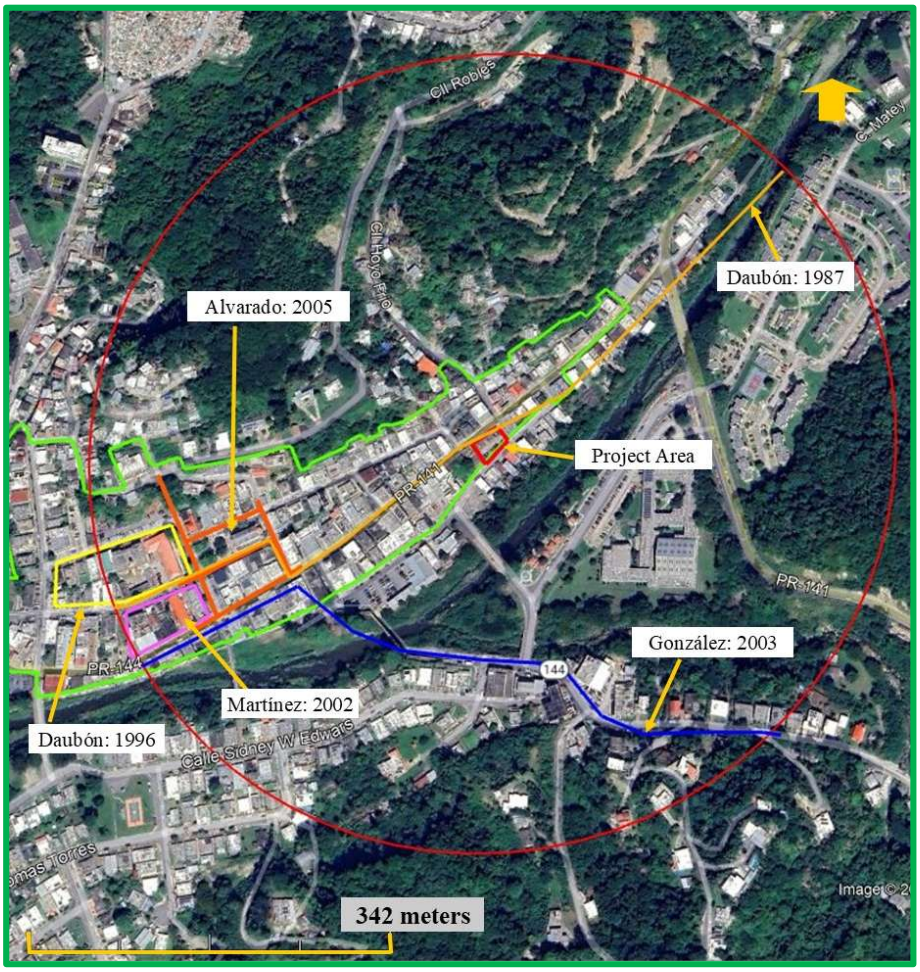


Figure 13. Location of archaeological studies located within the project area or within 0.25 miles of the project area

In the archives of the State Historic Preservation Office (SHPO) and the Institute of Puerto Rican Culture (ICP), two (2) archaeological sites were found within a 0.25 miles study radius of the project area (**Table 2**). Archaeological sites within the 0.25 miles radius are as follows: Finca Agricola de Don Manuel Rivera (JY0200023) located 0.21 miles northeast, founded in 1884, consisting of the ruins of a two-story wooden house and the ruins of Hacienda San Luis (JY0200031) located 0.12 miles south and founded in 1864.

Table 2. Table of archaeological sites, historic properties and historic districts located within the project area or within a 0.25-miles radius

Name	SHPO id #	IPRC id #	Distance/ Direction	Description	NRHP (listed, eligible, non-eligible, no data)
Finca Agrícola de Don Manuel Rivera	JY0200023	-	0.21 mi NE	This farm was founded in 1884. It consists of 36 "cuerdas" planted with small fruits. It contains the ruins of a two-story house, high and low, built in wood of the country, roofed with galvanized iron.	No data
Hacienda San Luis	JY0200031	-	0.12 mi S	Ruins of a hacienda founded in 1864 by Ledesma y Compañía.	No data

The APE is located within the Jayuya TUC. There are no historic properties within or adjacent to the area under study. The only archaeological survey conducted in the vicinity of the APE was negative. The environmental characteristics of the APE, specifically the unfertile soil, make it not ideal for prehistoric settlement. The absence of pre-Columbian sites in the area supports this premise. A map from 1897, when Jayuya was still a neighborhood of Utuado, shows some buildings that could be located within the APE. The 1937 aerial photo also shows buildings within the APE, although it is not possible to determine if they are the same as those shown in the 19th century map. In the topographic quadrangles of 1946 and 1960 and the aerial photo of 1993, two structures can be seen facing the road. These structures were demolished between 1993 and 2004, when the property began to be used as a parking lot, a use it still has today. It is understood that under the parking lot pavement there should be remnants of the

foundations of the 19th and 20th century buildings, as well as other associated features, such as latrines, cisterns, utilities, activity areas, and artifactual deposits. Considering the above discussed, it is proposed that the APE has a low potential for the presence of pre-Columbian resources and a high potential for the presence of colonial resources that may date from the end of the 19th century and the first half of the 20th century. Therefore, the implementation of an archaeological monitoring plan is recommended.

References

Alvarado, Fernando y Adalberto Maurás

2005 *Soterrado de Líneas Eléctricas, Reforma Tejido Urbano y Paseo Ventana al Río del Municipio de Jayuya, PR.* Informe disponible en Oficina del Programa de Arqueología y Etnohistoria del ICP.

Armstrong, William

1910 *Progressive Military Map of Porto Rico*, (Vol. 3, pp. 54-56). https://issuu.com/coleccionpuertorriquena/docs/3v_libro.

Daubón, Antonio

1987 *Improvements to the water supply system, 589.00 L.M. of 12" Distribution Force Line to be installed.* Oficina del Programa de Arqueología e Etnohistoria del ICP.

Rodríguez Ramos, Reniel

2014 *La Ocupación Temprana del Interior Montañoso de Puerto Rico: Los Casos de Cueva Ventana y Salto Arriba.* Oficina Estatal de Conservación Histórica.

Sepúlveda, Anibal

2004 *Puerto Rico Urbano, Atlas Histórico de la Ciudad Puertorriqueña*, Vol. 3 (Entresiglos 1880s- 1910s). Carimar, San Juan, Puerto Rico.

Identification of Historic Properties – Architecture

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of the 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 NRHP eligible Jayuya TUC (**Figure 14**).

The project site consists of an existing surface parking lot of rectangular shape and 8,319 sf of area. It is accessed from Guillermo Estevez Street to the north and Libertad Street to the south. On Guillermo Estevez Street the site is flanked by two buildings of 20th century vernacular construction not eligible for inclusion in the NHRP. On Libertad Street the building is flanked by an abandoned structure on the left, and one of the buildings mentioned above. The abandoned structure is in a ruinous state and is not NHRP eligible. Photographs documenting existing conditions are attached.

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the direct or indirect APE and ¼ mile research radius. 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 /listed Jayuya Traditional Urban Center Historic District (**Figure 14**).



Figure 14. Traditional urban center district delineation map (partial). Source: SHPO-PR Dec 16, 2020.

The guidelines set forth in National Register Bulletin: How to Apply the National Register Criteria for Evaluation (US Department of Interior, 1997) define the criteria for evaluation, criteria considerations, and categories of historic properties. Three categories of historic properties were identified within the visual APE: building, site, and district. Age alone has not been used as a criterium for eligibility as a historic property. For properties within these categories to be deemed eligible, they must be associated with an important historic context, and they must retain the historic integrity of those features necessary to convey its significance.

The **Building** category includes properties that embody distinctive characteristics of a type and period when evaluated as part of a historic context. This category includes properties numbered **4** and **8** in Table 3, previously identified by PR-SHPO, and other properties numbered **3, 5, 6** and **7** that afford a sample of 19th and early to mid-20th century vernacular architecture associated with historic building patterns of traditional urban centers, recognizable by the relationship of form, scale, symmetry, repetition, opening proportions, finishes, ornamentation, and other salient features, such as

balconies. These buildings show a higher level of architectural integrity that differentiates them from other buildings of the same period. From the latter group, building 5 distinguishes itself by sharing mid-20th century art deco design with public buildings from the early 20th century that may have influenced a number of vernacular buildings in the district that display certain art deco forms and decorations.



Figure 15. Historic properties location map. Source Catastro Digital CRIM, 2014.

Table 3. Historic Properties within the visual APE

ID	Image	Parcel Number/ Coordinates	Address	Historic Name/ Other Name	Date	NRHP Eligible
1		216-096-033-17 Nad83 x: 183282.3082, y: 242645.2355	Calle Guillermo Esteves, Jayuya, 00664, Puerto Rico	N/A N/A	Early 20th century	Y Criteria A
		TYPE: Site USE: Store/office NOTE: Site related to the 1950 Nationalist uprising.				
2		216-096-025-02 Nad83 x: 183321.3251, y: 242673.9775	6C94+C43, PR-532, Jayuya, 00664, Puerto Rico	N/A N/A	Mid-20th century	Y Criteria C
		TYPE: Site USE: Post office, historic NOTE: Site related to the 1950 Nationalist uprising.				
3		216-096-024-09 Nad83 x: 183311.5187, y: 242704.8991	72 Calle Guillermo Esteves, Jayuya, 00664, Puerto Rico	N/A N/A	Early 20th century	Y Criteria C
		TYPE: Building USE: N/A NOTE:				
4		216-096-024-08 Nad83 x: 183320.7236, y: 242721.5516 TYPE: Site USE: Store/office NOTE: Site related to the 1950 Nationalist uprising.	6C94+C43, PR-532, Jayuya, 00664, Puerto Rico	N/A N/A	Mid-20th century	Y Criteria C
		TYPE: Building USE: Church NOTE: Oldest concrete building in Jayuya, in accordance with field interviews.				

Table 3. Historic Properties within the visual APE (continued)

ID	Image	Parcel Number/ Coordinates	Address	Historic Name/ Other Name	Date	NRHP Eligible
5		216-096-025-04 Nad83 x: 183343.5717, y: 242700.7418	Calle Guillermo Esteves, Jayuya, 00664, Puerto Rico	Jayuya Market Provision N/A	Early 20th century	Y Criteria C
		TYPE: Building USE: Store NOTE:				
6		216-086-005-07 Nad83 x: 183417.8232, y: 242793.6171	Calle Guillermo Esteves, Jayuya, 00664, Puerto Rico	N/A N/A	1939	Y Criteria C
		TYPE: Building USE: Store NOTE:				
7		216-086-008-10 Nad83 x: 183458.5354, y: 242825.4075	Calle Guillermo Esteves, Jayuya, 00664, Puerto Rico	N/A N/A	Early 20th century	Y Criteria C
		TYPE: Building USE: N/A NOTE:				
8		216-086-012-01 Nad83 x: 183523.3511, y: 242832.7439	Calle Guillermo Esteves, Jayuya, 00664, Puerto Rico	N/A N/A	1939	Y Criteria C
		TYPE: Building USE: House NOTE:				

The **Site** category includes properties that served as the location of significant events. Specifically, it includes properties **1** and **2**, which correspond to the location of events from the 1950 Puerto Rican Nationalist Uprising.

The **District** category includes a geographical area that possesses a significant concentration of sites and buildings united historically by the design or development of a location. Originally established as an *hato* (cattle-raising district) of Utuado in 1760, Jayuya developed into a parish by 1883 (R. Campos), and by 1911 separated to form an independent municipality. Founded at valley north of the confluence of the Río Grande and Caricaboa rivers, along the road connecting the population centers of Jayuya and Barros (currently part of Orocovis). Military road itineraries from the late 19th century provide maps (**Figure 16**) and schedules describing the settlement's main geographical features, which include terrain, roads, and location of salient buildings and structures. This documentation shows that the settlement was originally organized in a linear pattern, forming a street along the Jayuya-Barros Road and a secondary street to the south, later named Libertad. From this inception the settlement took the form of a typical 19th century town following development principles set forth in the Laws the of Indies. Historians suggest that most river valleys in the island were populated by indigenous people (Brau, 1907), and that some of the valleys across the central mountain range were connected by footpaths to form a cross-island trail later known as the *Camino de Puerto Rico* (Tió, 1982), so pre-Hispanic settlement of the area cannot be discarded.

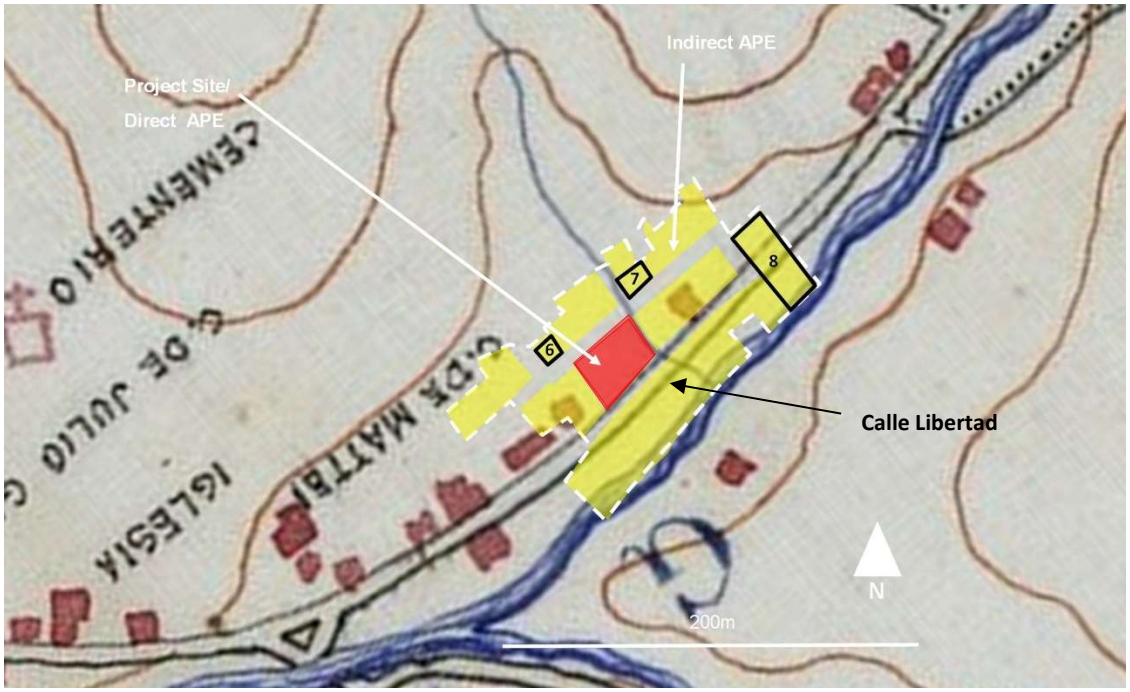


Figure 16. Composite overlay of project site and APE on road itinerary plan. Source: Utuado-Barros Itinerary, Spanish Military (1887).

Other elements that influenced the district's morphology were Río Grande, Caonabo watersheds to the south, terrain inclination to the north and agricultural lands and a creek to the west, and significant modifications to the foundational settlement due to floods, fires, and expansion (*ensanches*) typical to early 20th century urban growth. The boundaries delineated by PR-SHPO (see attached) distinguish the district from later urban sprawl that presents no relationship to the town's historic environment.

During the second half of the 19th century Puerto Rico experienced significant population, economic and urban growth resulting from political reforms that incentivized immigration, boosted agricultural production in the island's mountain region, and, in turn, revitalized its commerce. This period is at the heart of contemporary Puerto Rican identity (Picó, 1979), since the events of the time played an important role in shaping long standing political and cultural ideas, and bringing into being urban populations like Jayuya that wouldn't have existed otherwise.

Identification and evaluation of properties having a relationship to this historic context involved field-surveys, consultation with municipal staff and members of the community, and documentary research that includes books, articles, aerial photography, maps, and drawings as listed below.

Sources

Brau, Salvador. 1907. *La colonización de Puerto Rico, desde el descubrimiento de la isla hasta la reversión á la corona española de los privilegios de Colón.* San Juan : El Heraldo Español, 1907.

Campos, Ramón Morel. 1896. *El Porvenir de Utuado: estudio histórico, descriptivo y estadistico.* Ponce : El Vapor, 1896.

Centro de Recaudaciones Municipales. Catastro Digital. [En línea] https://catastro.crimpr.net/cdprpc/.

Colom, Jorge Ortiz. 2003. *The Essence of Puerto Rican Architecture.* [Article] Guayama/Ponce : Instituto de Cultura Puertorriqueña, 2003.

Colomer, Jesús. 1963. Reseña histórica de Jayuya. *Album de Jayuya.* 1962-1963, 1963.

Comisión Topográfica de 1887-1888. 1887. *Itinerario de Barros a Utuado por los barrios de Cacao, Recodo y Jayuya.* [Military Map] s.l. : Cuerpo de E.M. del Ejército, Sección de Puerto Rico, 1887.

Junta de Planificación de Puerto Rico. Mapa Interactivo de Puerto Rico. [En línea] https://gis.jp.pr.gov/mipr.

La Correspondencia de Puerto Rico. 1896. Noticias Generales. *La Correspondencia de Puerto Rico.* 1896, 1886.

OECH. 2020. *Mapas de delimitación de los cascos urbanos, Jayuya.* [Aerial Photograph] San Juan : s.n., 2020.

—. 2016. *Resumen arqueológico del municipio de Jayuya.* San Juan : Oficina Estatal de Conservación Historica de Puerto Rico, 2016.

Pabón, Arleen. 2010. *La arquitectura patrimonial puertorriqueña y sus estilos.* San Juan : Oficina Estatal de Conservación Histórica de Puerto Rico, 2010.

Pérez-Chanis, Efraín. 1976. "Génesis y ruta de la arquitectura en Puerto Rico.". *La gran enciclopedia de Puerto Rico.* 1976, Vol. 9.

Picó, Fernando. 1981. *Amargo café.* Río Piedras : Ediciones Huracán, 1981.

—. 1979. Deshumanización del trabajo, cosificación de la naturaleza: Los comienzos de café en el Utuado de siglo XIX. *Cuadernos de la Facultad de Humanidades.* 1979.

—. 1986. Los jornaleros de Jayuya de siglo XIX. *Boletín de la Academia Puertorriqueña de la Historia.* 1 de July de 1986.

Tió, Aurelio. 1982. La ruta de Juan González. *Boletín de la Academia Puertorriqueña de la Historia.* 1 de January de 1982.

U.S. Air Force. 1958. *Jayuya.* [Aerial Photograph] 1958.

U.S. Geological Survey. 1946. *Jayuya Quadrangle.* [Topographic Map] Jayuya, PR : s.n., 1946.

Determination

Direct Effects: The proposed project entails excavations for foundation construction and utility installation to a maximum depth of 8 feet. This has the potential to adversely affect significant buried archaeological deposits located under the parking lot pavement. It is recommended that archaeological monitoring be implemented to mitigate this potential adverse effect.

Indirect Effects:

Archeology: No adverse indirect effect is expected.

Architecture:

The Program has determined that project actions will not adversely affect the historic properties within the Area of Potential Effects. This determination is based on field surveys of existing conditions and the evaluation of the documentation cited above, project drawings and renderings, which resulted in these key findings:

1. The existing construction (**Figure 17**) is not eligible as a historic building, structure, or site. Demolition of existing construction shall not affect the historic character of any architectural property within the direct APE.
2. No adverse effects on the indirect APE are expected. The effect of the existing condition on the character of the historic district shall be mitigated by the undertaking. The demolition of three structures occupying the project site to allow for the construction of the existing parking lot adversely affected the historic character of the traditional urban center district by disrupting the integrity of the scale and continuity of the urban façade on both Guillermo Estevez and Libertad streets. This integrity is key to retaining some of the district's historic character throughout time and allowing buildings of different styles to fit into its fabric. The proposed action reverses the disruption caused by the demolition of these structures by restoring the scale and continuity of the urban façade. An urban façade study of the existing condition (**Figure 28**) highlights some architectural features that are typical to the urban district's urban façade. The proposed design shall mitigate the effects of the existing condition by restoring the scale, continuity, and some architectural features to the affected area. An urban façade study of the proposed design (**Figure 29 & Figure 30**) indicates some of the architectural features of the design that provide scale and continuity to the urban façade. The mitigation of the existing condition shall affect the historic properties within the viewshed in a positive way by restoring the scale and continuity of the urban context of which they take part.

3. No direct or indirect effects are expected to buildings adjacent to the project site (**Figure 18-Figure 23**). Adjacent buildings shall not be directly impacted by the undertaking and are not NRHP-eligible.
4. Audible effects are not expected, apart from temporary typical construction noise.

Recommendation

The Puerto Rico Department of Housing requests that the Puerto Rico SHPO concur that the following determination is appropriate for the undertaking:

☐ **No Historic Properties Affected**

☒ **No Adverse Effect**

Condition: Archaeological monitoring by an archaeologist will be required during all excavations required for this project.

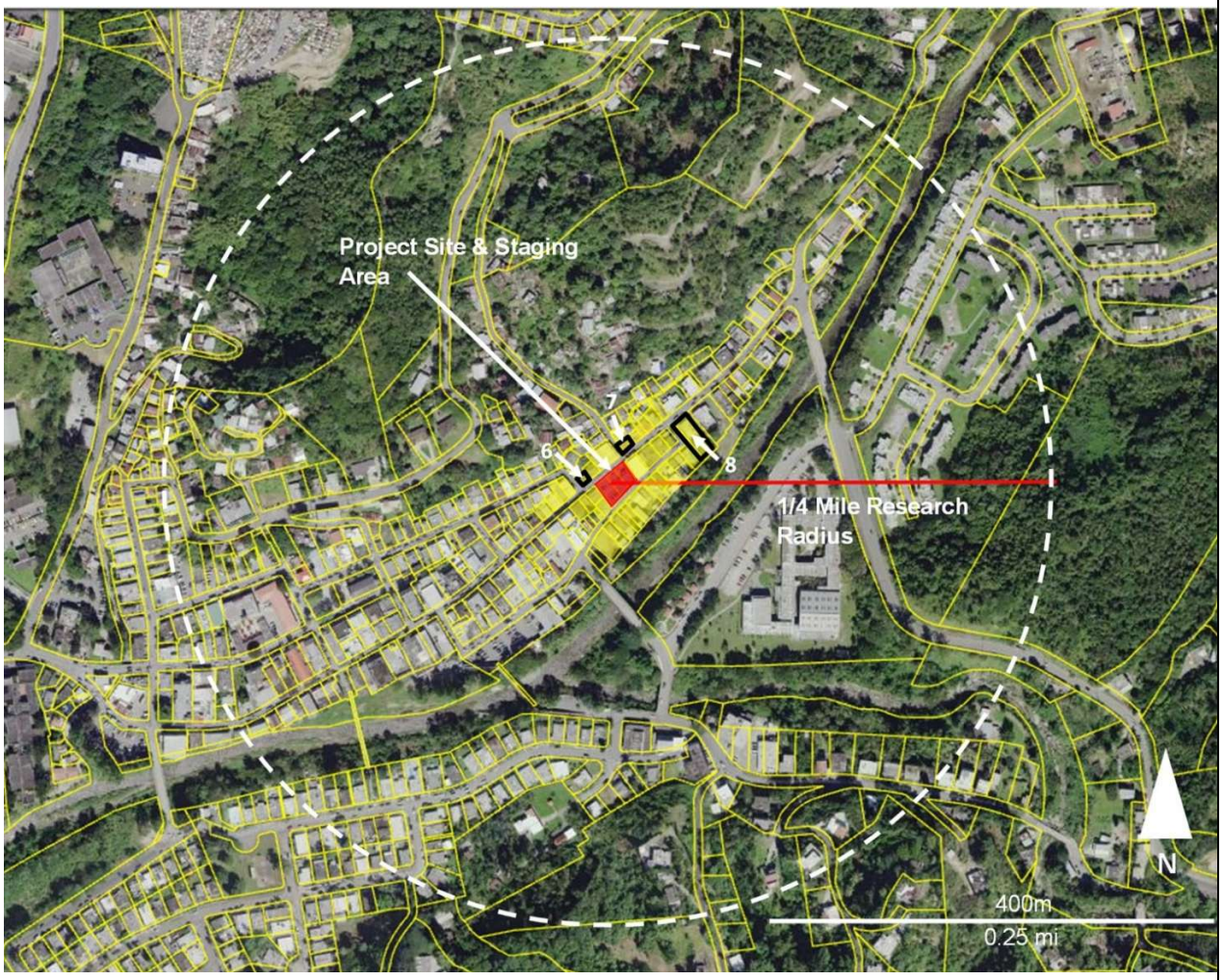
☐ **Adverse Effect**

Proposed Resolution: N/A

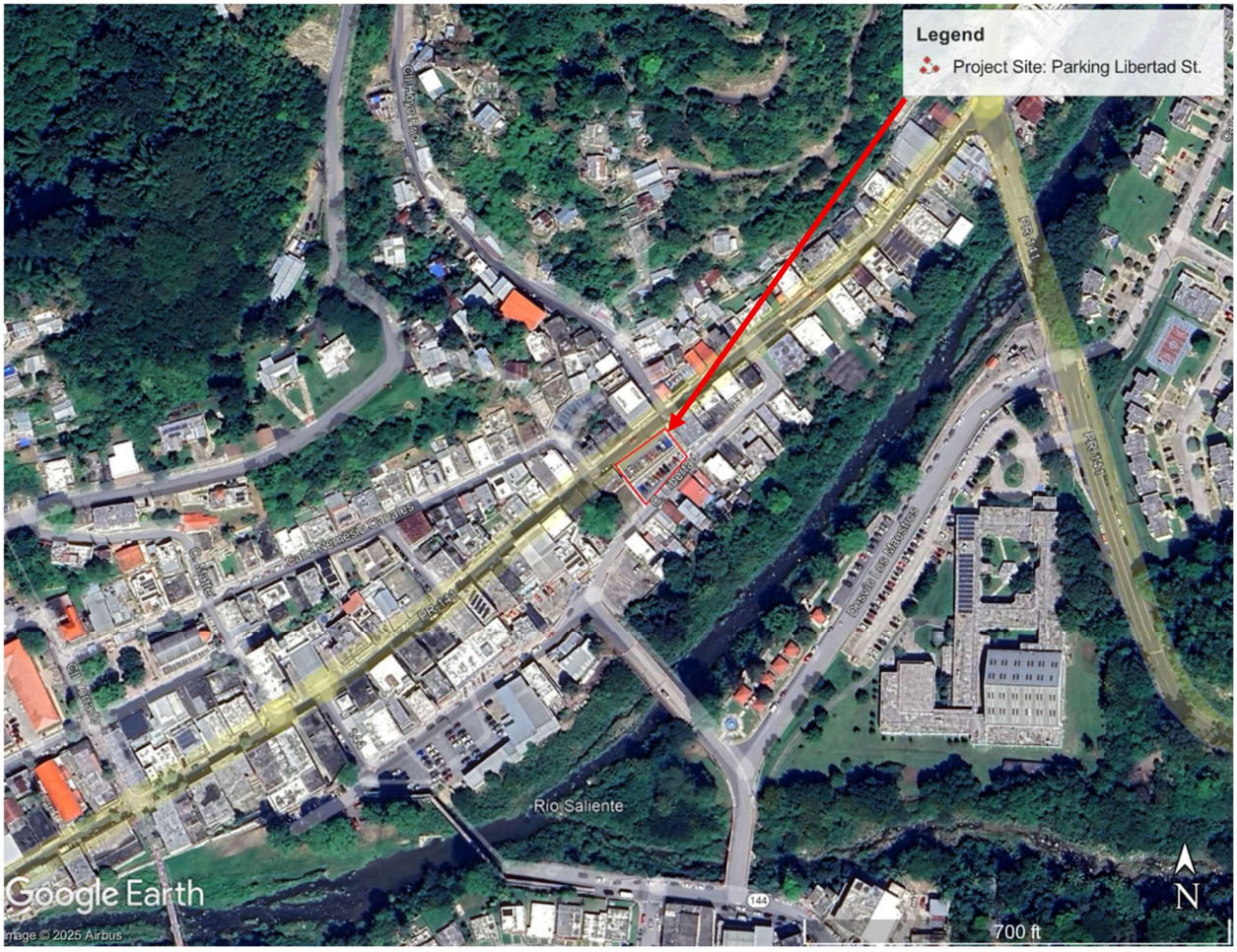
This Section is to be Completed by SHPO Staff Only

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:

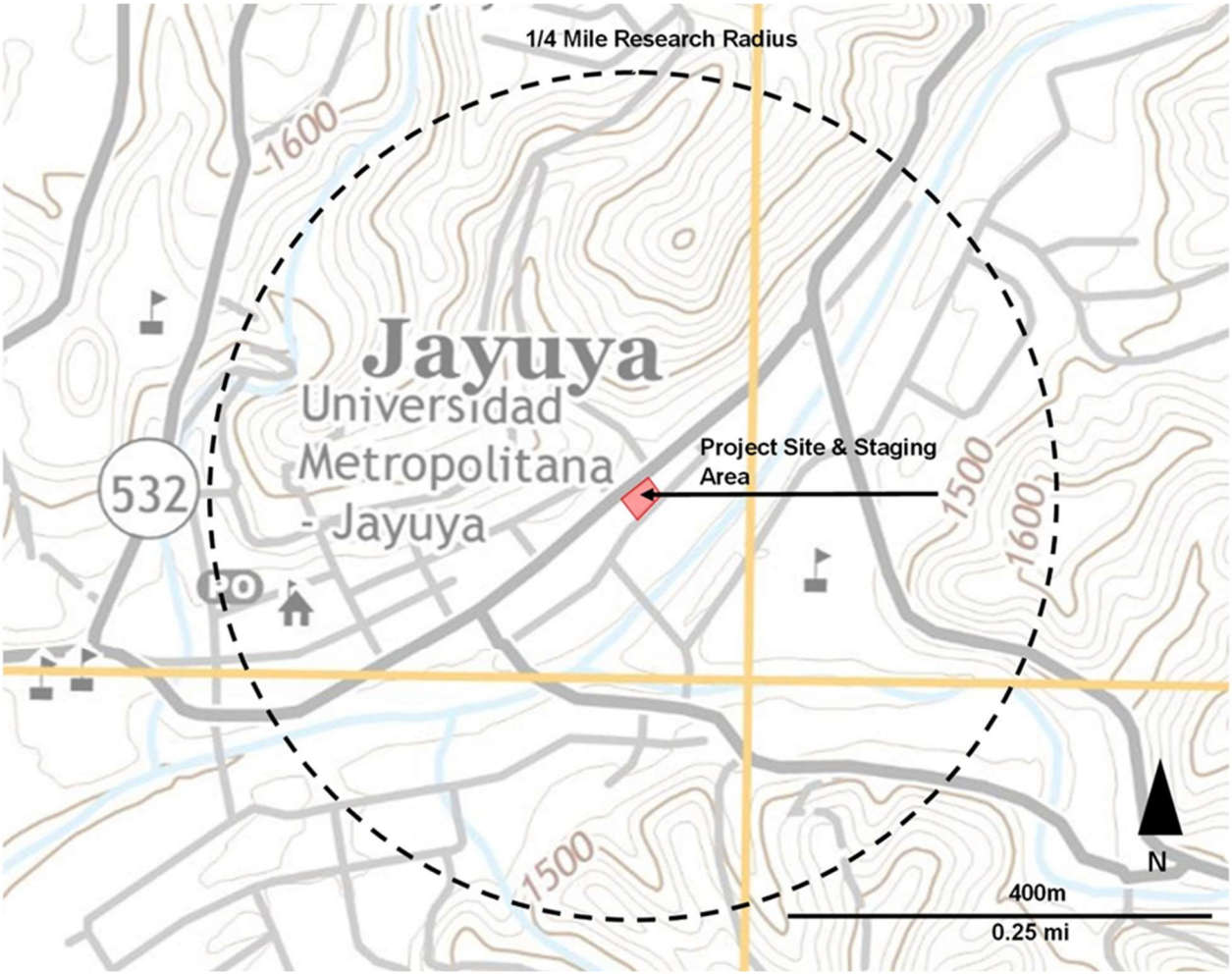
Project (Parcel) Location - Area of Potential Effect Aerial Map



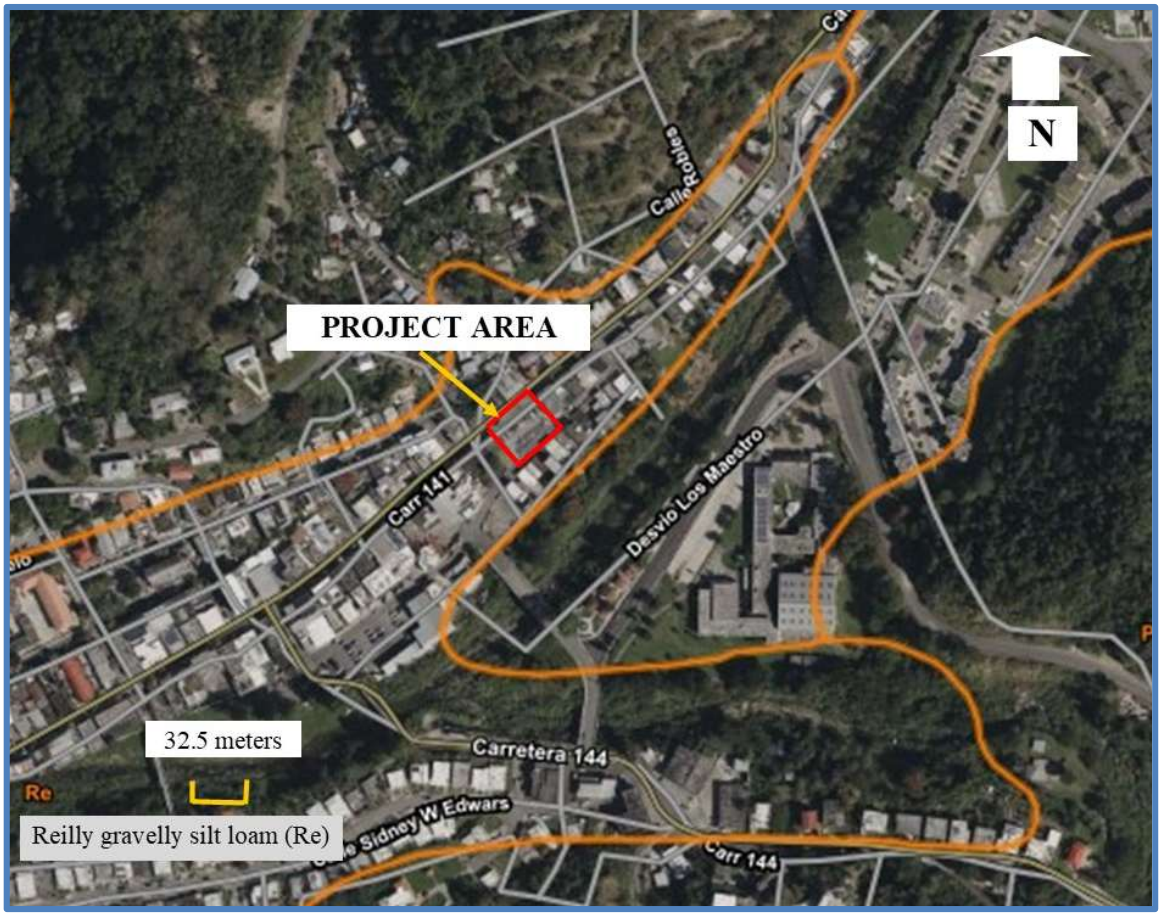
Project (Parcel) Location – Aerial Map



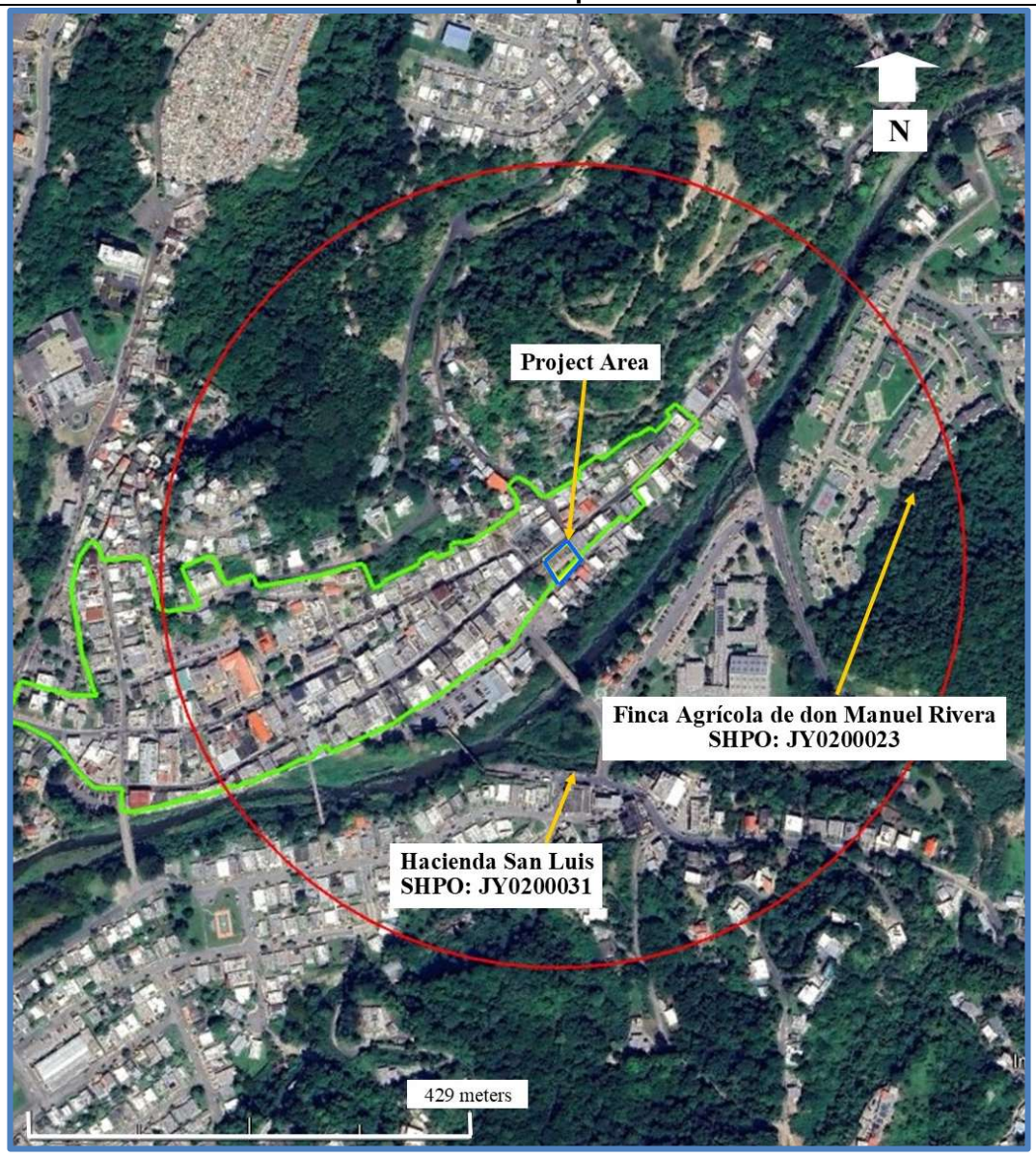
Project (Parcel) Location – USGS Topographic Map



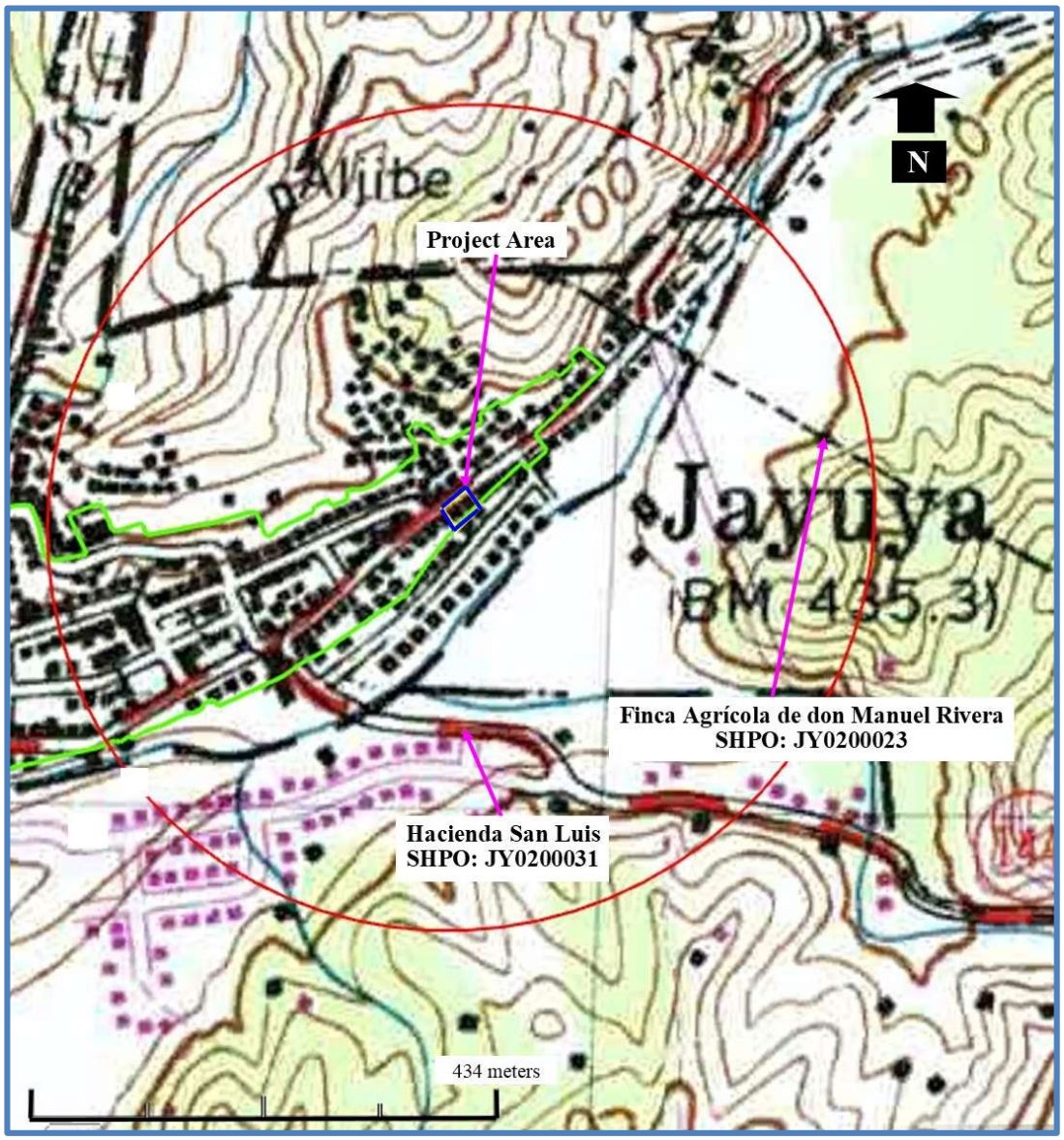
Project (Parcel) Location – Soils Map



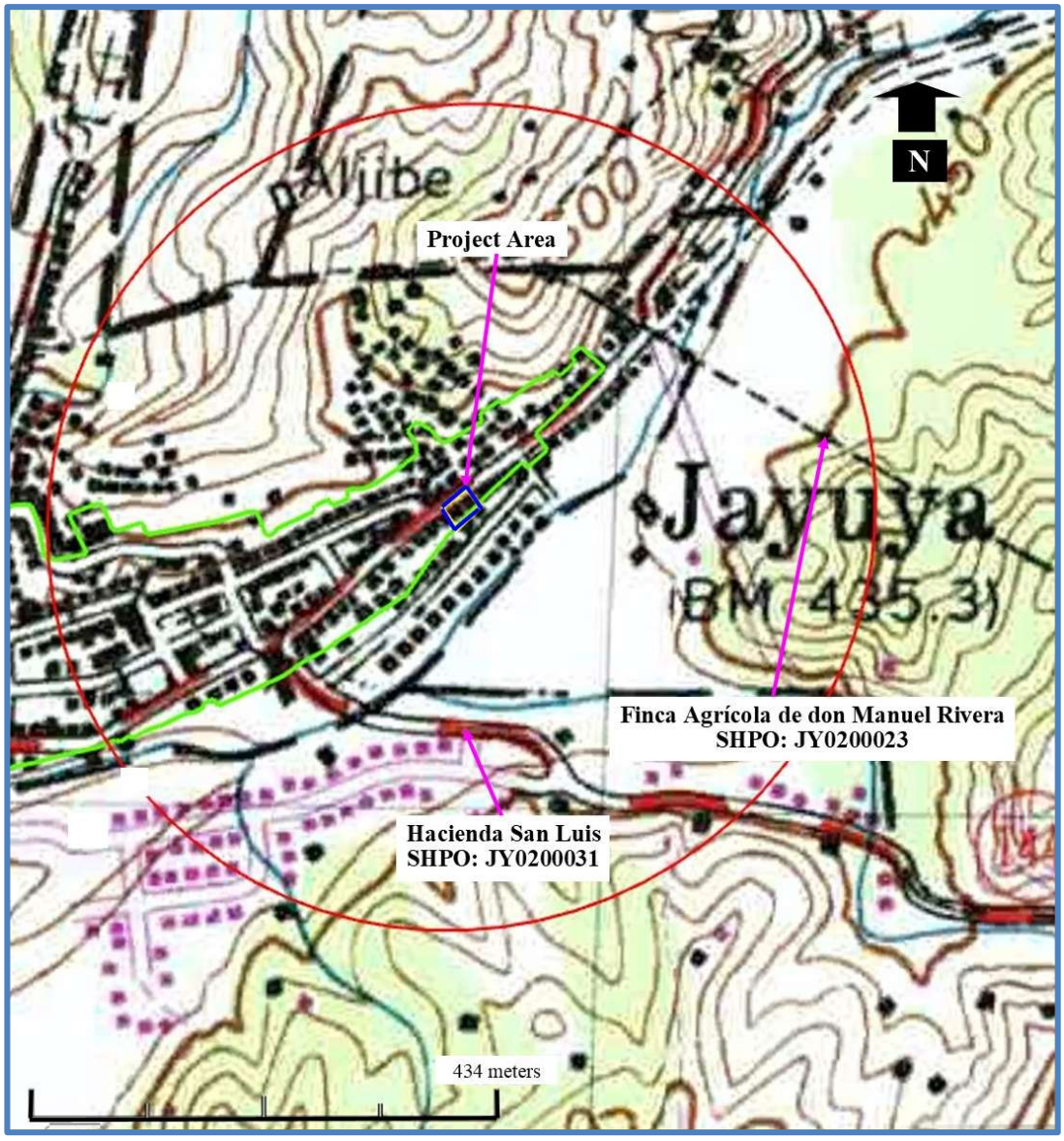
Project (Parcel) Location with Previously Recorded Cultural Resources Aerial Map



Location with Previously Recorded Cultural Resources
USGS Topographic Map



Location of archaeological studies located within the project area or within 0.25 miles of the project area



Project Site Photographs

Source: By architect Date:June 24, 2024



Figure 17. Project site photograph showing existing conditions. North view from Libertad Street.



Figure 18. Project site photograph showing existing conditions and adjacent construction. Southwest view from Guillermo Estevez Street.



Figure 19. Project site photograph showing existing conditions and adjacent construction. Northeast view from Guillermo Estevez Street.



Figure 20. Project site photograph showing existing conditions and adjacent construction. Southwest view from Libertad Street.



Figure 21. Project site photograph showing existing conditions and adjacent construction. Northeast view from Libertad Street.



Figure 22. Photograph of buildings adjacent to the project site. North view from Guillermo Estevez Street.



Figure 23. Photograph of buildings adjacent to the project site. North view from Guillermo Estevez Street.



Figure 24. Guillermo Estevez Street Viewshed photograph looking northeast. Project site visible on the right.



Figure 25. Libertad Street Viewshed photograph looking northeast. Project site visible on the left.

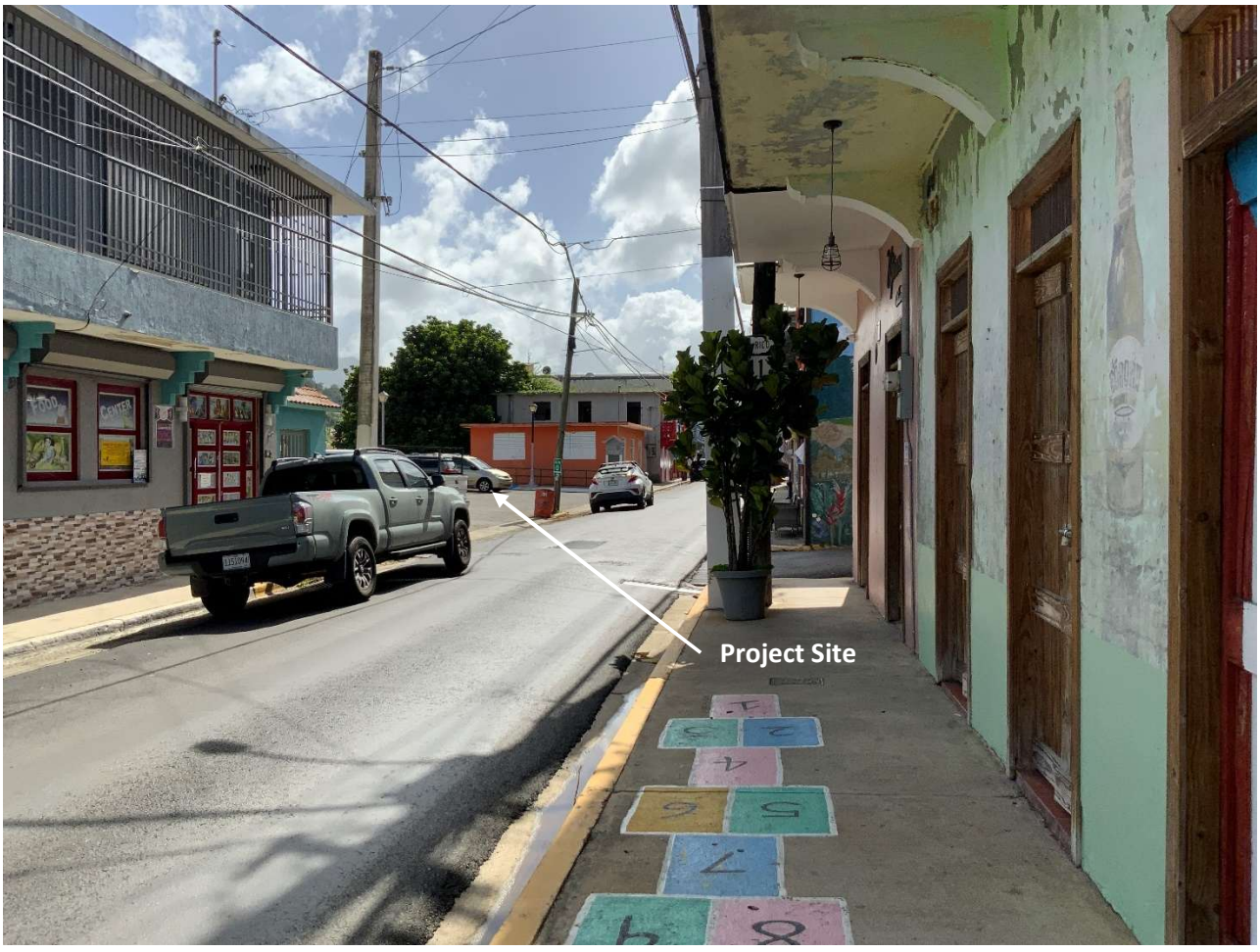


Figure 26. Guillermo Estevez Street Viewshed photograph looking southwest. Project site visible on the left.



Figure 27. Photograph of abandoned structure adjacent to project site. North view from Libertad Street.

Urban Facade Studies

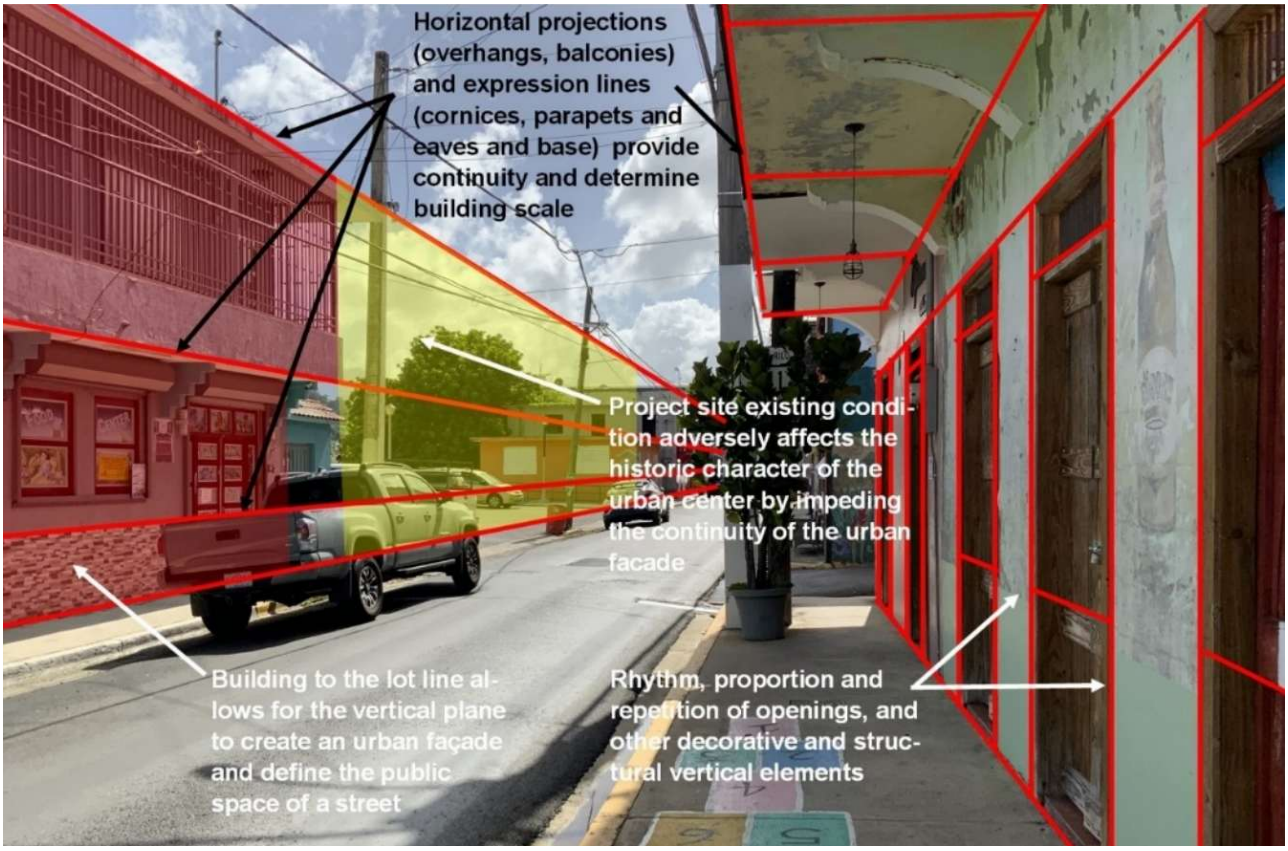


Figure 28. View of the existing condition from Guillermo Estevez Street, and its relation to the elements of the district's urban facade. Guillermo Estevez street looking southwest. Photograph by architect (10/07/2023).

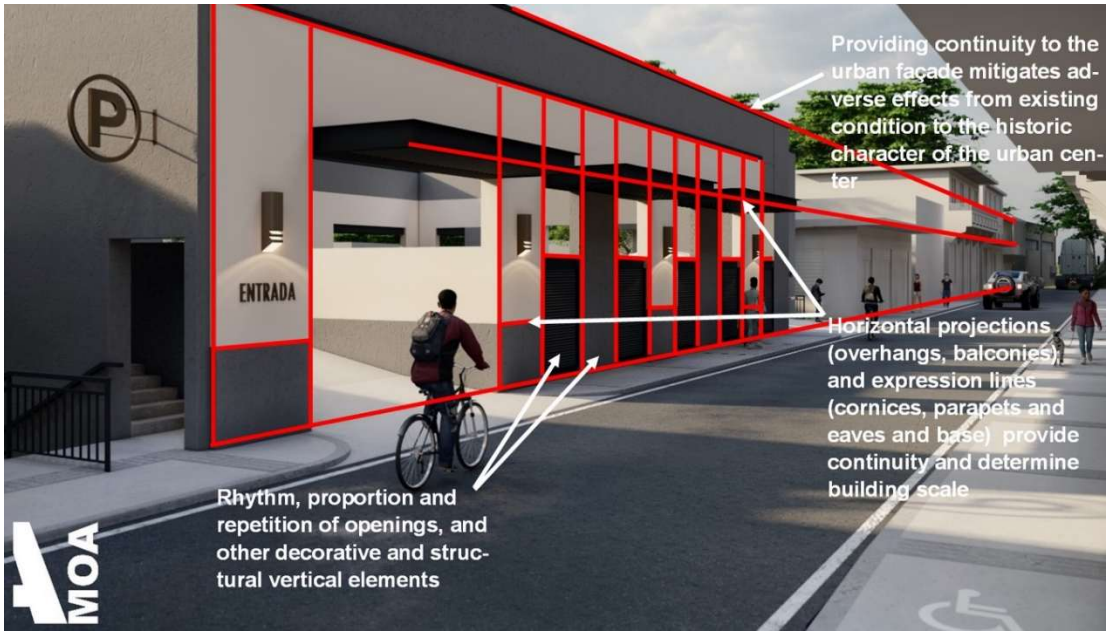


Figure 29. Architectural features of the project in relation to the Guillermo Estevez St. urban façade. View looking southwest. Rendering by architect.

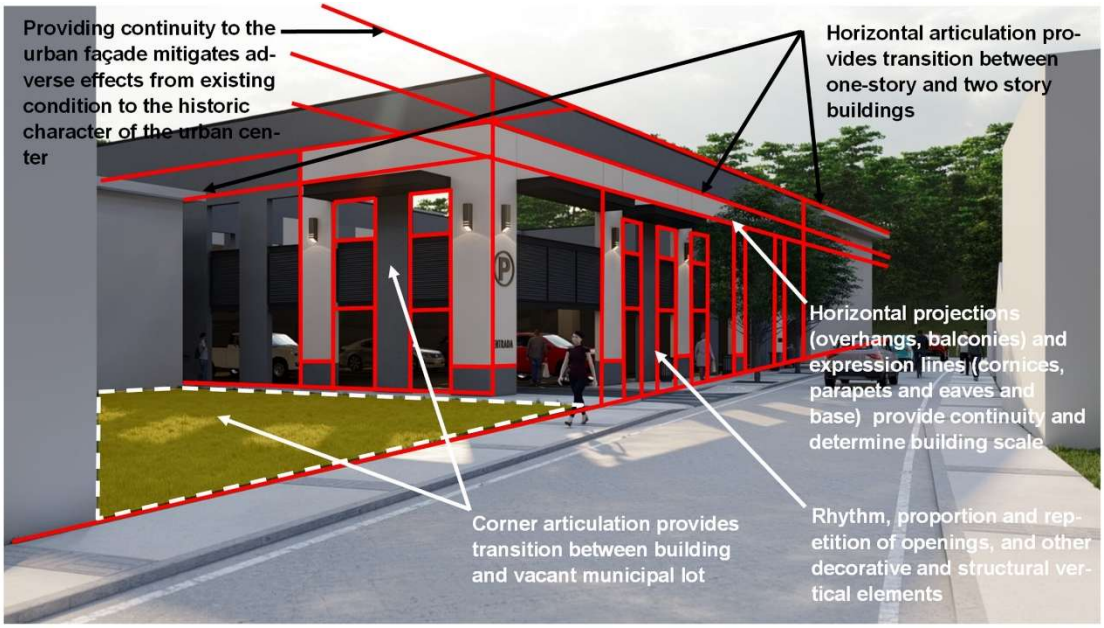


Figure 30. Architectural features of the project in relation to the Libertad St. urban façade. View looking northeast. Rendering by architect.

Preliminary Project Drawings

Source: By architect Date: February 22, 2024



Figure 31. North (Guillermo Estevez – PR-141) and west elevations.



Figure 32. South (Libertad Street) and east elevations.

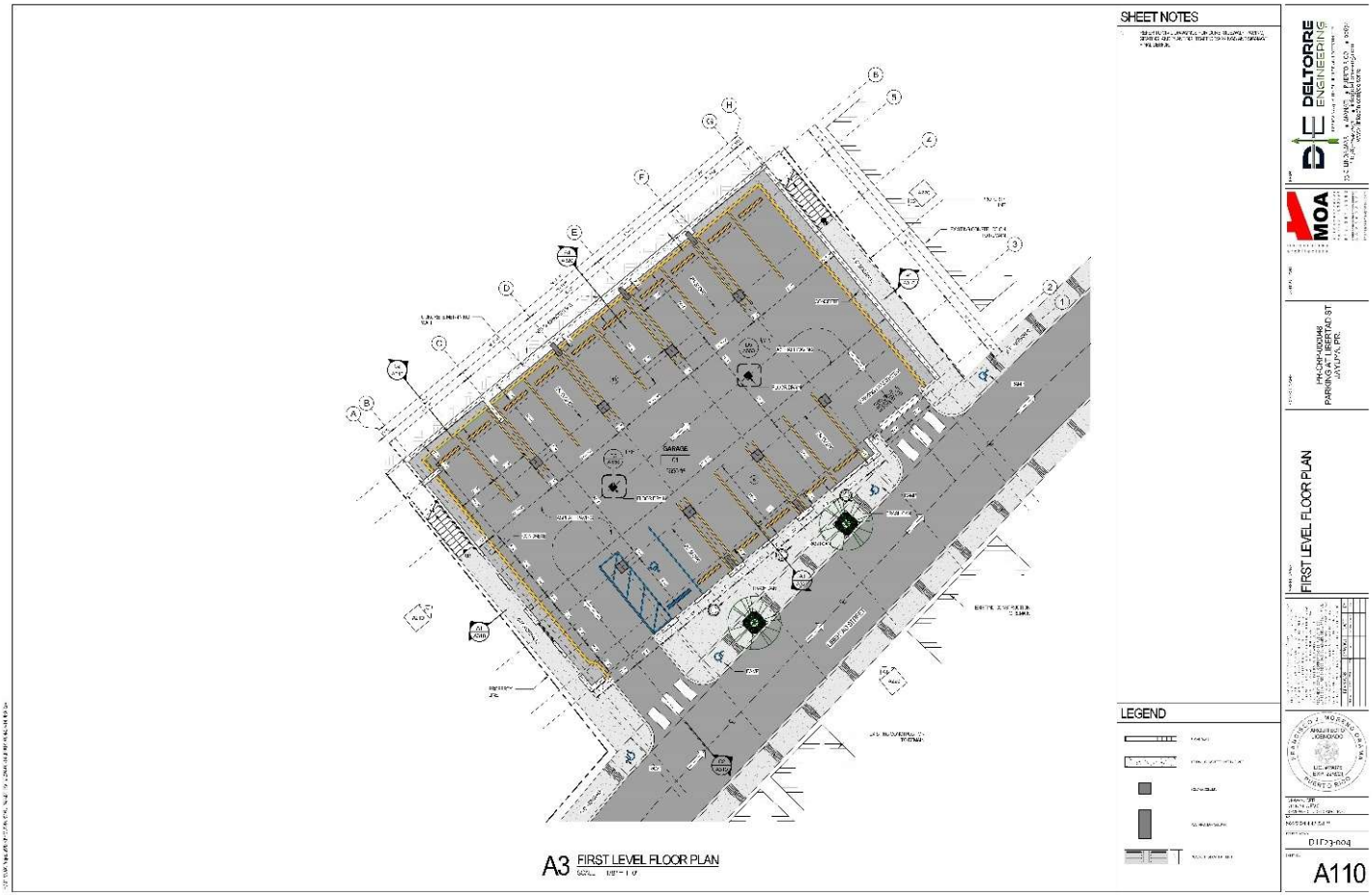


Figure 33. Floor plan.

Preliminary Project Drawings

Source: By architect Date: February 22, 2024



Figure 34. Project rendering. Guillermo Estevez Street, looking southwest.



Figure 35. Project rendering. Guillermo Estevez Street, looking southeast.



Figure 36. Project rendering. Guillermo Estevez Street, looking southwest.



Figure 37. Project rendering. Libertad Street, looking northeast.



Figure 38. Project rendering. Libertad Street, looking northwest.

PR-CRP-000048

Nuevo Estacionamiento Público en la Calle Libertad Project

Jayuya, Puerto Rico

90% Design Drawings



SCALE: 1:20000

SATELLITE MAP

SCALE: 1:20,000

LAMBERT COORDINATES: X=183,333.357 Y=242,231.231 NAD 83



FLOOD MAP

SCALE: 1:5,000

MAP NUMBER: 72000C1105H ZONE X

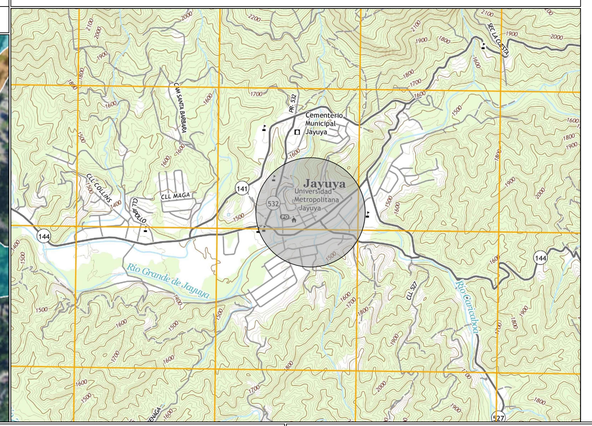
REVISION DATE: APRIL 19, 2005



USGS TOPOGRAPHIC MAP

SCALE: 1:20,000

LAMBERT COORDINATES: X=183,333.357 Y=242,231.231 NAD 83


Cementerio Municipal Jayuya
Jayuya
Universidad Metropolitana Jayuya
CLL MAGA
CLL CALMA
CLL CALMA
CLL LAUREL
CLL LAUREL
CLL LAUREL

GENERAL NOTES:

1. Prior to any construction, the Contractor shall familiarize himself with the Contract Documents and Specifications, the Plans, including all notes, the PRDOT Standard Details and Specifications and any other applicable standards or specifications relevant to the proper completion of the work specified. Failure on the part of the Contractor to familiarize himself with all Standards and Specifications pertaining to this work shall in no way relieve the Contractor of responsibility for performing the work in accordance with all such applicable Standards and Specifications.

2. The Contractor shall have in his possession, prior to construction, all necessary permits, licenses, etc. The Contractor shall have at least one set of approved Engineering Plans and Specifications on-site at all times. The Contractor shall notify the Municipality of Jayuya 48 hours prior to the commencement of any work.

3. All materials and construction shall conform to the PRDOT Standard Construction Details for Paving, Drainage, Water and Sanitary Sewer Facilities and be installed in accordance with the City Specifications and the Puerto Rico Department of Transportation. These specifications shall be made part of these plans.

4. In the event an item of work is not covered in the sheets provided in this set, Construction Standards, Specifications and Details; or the Puerto Rico Department of Transportation (PRDOT); the City Engineer or the Engineer of records shall have the final decision on all materials, methods and procedures.

5. Construction inspection may be performed by representatives of the Owner, Engineer, City, Geotechnical Engineer and Reviewing Authorities and Agencies. Unrestricted access shall be provided to them at all times. The Contractor is responsible for understanding and scheduling required inspections.

6. All contractors must confine their activities to the work area. No encroachments outside of the defined work area will be allowed, unless specifically noted on the plans. Any damage resulting therefrom shall be the Contractor's responsibility to repair.

7. It will be the responsibility of each contractor to protect all existing public and private utilities throughout the construction of this project. The Contractor shall contact the appropriate utility companies for line locations prior to commencement of construction and shall assume full liability to those companies for any damages caused to their facilities.

8. The Contractor shall be responsible for providing the required construction staking necessary to complete the construction in accordance with the plans and specifications.

9. The Contractor shall be responsible for providing and maintaining all necessary barricading and all other warning and safety devices to protect the public safety and health until all work has been completed and accepted.

10. If unforseen problems or conflicts are encountered in the course of construction, for which an immediate solution is not apparent, the Engineer and Owner shall be notified immediately.

11. The Contractor shall be responsible for field locating existing utilities and improvements prior to construction. The Contractor is responsible to obtain all endorsement and shall contact DTOP or any local utility company to locate all existing underground utilities before the commencement of any work.

12. The Contractor shall employ an Owner approved engineering testing laboratory for all required density, construction and materials testing and water bacteria testing. The testing laboratory shall make tests necessary to insure that construction is in accordance with the approved plans and specifications. Any retesting necessary to insure that a prior failing test meets the plan requirements, shall be at the Contractor's expense. The testing laboratory shall submit testing reports to the Engineer, the Owner and the Municipality.

13. The existing utilities shown on these plans have been located from reference information obtained from the respective owner of the utility. The Engineer and Owner do not accept responsibility for the utility locations as shown. It shall be the responsibility of the Contractor to verify the location of all existing utilities prior to construction, to take necessary precautions to protect all facilities encountered and to notify the Engineer promptly of any conflicts with existing facilities.

14. The Contractor shall be responsible for removing any existing structures, fences, debris or trees that are located within the boundaries of this project, unless otherwise noted on the plans.

15. The Contractor shall remove and dispose of all unsuitable excavated materials and construction debris at no additional cost to the Owner.

16. The Contractor shall be solely responsible for maintaining trench safety requirements in accordance with the trench safety plan prepared by others and in accordance with City Standards, PR State Law and the Occupational Safety and Health Administration Standards.

17. All concrete shall meet the minimum compressive strengths as noted and specified on the plans or other specifications. As a minimum, no concrete shall have a compressive strength less than 3,000 psi at 28 days.

18. Refer to the architectural plans for building and foundation dimensions.

19. The Contractor shall be responsible for providing a two (2) year, 100% maintenance bond to the Owner for all improvements associated with the approved plans.

20. The Contractor must replace and/or reconstruct as the existing condition, all damages structure like curbs, sidewalks, guard rails, signing, green areas and trees.

21. Attention is called to all bidders that there are utilities installed in the construction area of this project, which are the property of the fallowing entities P.R. Telephone Co. Puerto Rico Electric & Power Authority and the Puerto Rico Aqueduct Sewer Authority. Although these utilities were shown on the plans using the information obtained from the respective owners, The Contractor shall exercise utmost care not to cause any damage to these utilities and shall coordinate with the owners of such utilities for the exact location of the same or any other that might be in the area prior to the commencement of any work in the vicinity of these utilities.

22. The lateral offset of the signs to be installed shall be according to the standards, recommendations and options indicated in chapter 2a of the MUTCD 2009 Edition.

GRADING NOTES:

1. All grading shall be performed in accordance with these plans and the geotechnical report prepared by others.

2. New finished contours shown are top of paving in areas to receive pavement and top of soil in areas to be seeded.

3. Areas outside of parking lot perimeter shown to be seeded shall receive a minimum of four (4) inches of top soil (or to depth identified on the Landscaping Plans). This topsoil to be placed and leveled by the grading contractor. This material may be stockpiled during stripping operations.

4. Rough grading elevations shall be as follows:
   A. Four (4) inches below finished contours in seeded areas.
   B. Six (6) inches below finished contours in paved areas, unless noted otherwise.

5. Dimensions on buildings are for grading purposes only and are not intended for use in laying out the building foundation.

6. Contractor shall pay all costs associated with raising or lowering existing utility appurtenances as required to match finished grades in conformance with all governmental agencies and these plans.

7. The Contractor shall use whatever measures are required to prevent silt and construction debris from leaving the site. Contractor shall comply with all Federal, State and Local erosion, conservation and siltation regulations. Contractor shall remove all temporary erosion control devices upon completion of permanent drainage facilities and the establishment of vegetation sufficient to prevent erosion. Any damage to adjacent properties; downstream channels, ponds or lakes; or wildlife shall be corrected by the Contractor at his expense.

8. The Contractor shall take all available precautions to control dust at no additional cost to owner.

9. All excavation is unclassified and shall include all materials encountered.

10. All areas not covered by the building, paving or proposed landscaping shall be grassed on this lot including adjacent street parkways.

11. Prior to the commencement of construction activities, the Contractor shall stake out and mark the items established by the site plan.

12. Temporary erosion control devices shall be installed prior to the commencement of grading activities. Contractor shall inspect and maintain all temporary erosion control devices as required.

13. All disturbed areas shall be seeded with hydromulch unless otherwise noted. The Contractor shall maintain as much existing vegetation as possible. Grass buffer strips shall remain around the perimeter of the property to aid in the filtering of sedimentation. Sufficient temporary or permanent groundcover shall be established on all slopes, berms and swales to prevent erosion.

14. All site grading and earthwork shall comply to the geotechnical report recommendations.

15. These specifications do not include grading and preparation of the building foundation area. The Contractor shall confirm the foundation compaction, moisture control, select fill and/or treatment with the Owner, the project geotechnical engineer and structural engineer.

16. Areas within five (5) feet horizontally of the parking pavement and/or embankment slopes adjacent to the parking area shall be constructed as per the project geotechnical engineer's recommendations. The specifications identified below are minimum requirements and shall be superseded by the project geotechnical engineer's recommendations if in conflict. The specifications are as follows:

    A. The area shall be stripped of vegetation a minimum of six (6) inches or as directed by the project geotechnical engineer and proofrolled. Proofrolling consists of rolling the entire area of prepared subgrade with a heavy (25 ton or greater total weight) pneumatic tired roller. The roller shall make several passes over the area. Any soft, wet or weak areas which do not compact by proofrolling shall be removed and recompacted as outlined herein. The proofrolling operation must be performed under the observation of a qualified geotechnical engineer or his representative and density control tested.

    B. On-site soils with a plasticity index (PI) anticipated to be greater than 15 and less than 20, which includes any dark colored surface clay soils, can be used as grade raise fill outside the proposed building area. These clay soils shall be compacted to a dry density of at least 95 percent of standard proctor density. The compacted moisture content of the clays during placement shall be between optimum and four (4) percentage points above optimum.

    C. Compaction shall be accomplished by placing the fill in six (6) to eight (8) inch thick lifts and compacting each lift to at least the minimum specified dry density. It is imperative that the fill particle sizes be less than six (6) inches in diameter. If larger clods are encountered during grading, these clods must be broken down or removed prior to final placement of the fill.

    D. In order for the fill materials to perform as intended, the fill material must be placed in a manner which produces a good uniform fill that is compacted within the density and moisture ranges outlined above. Field density tests shall be performed to confirm this performance as construction progresses. For the proposed parking and driveway areas, testing at a frequency of no less than one (1) test per each lift per each 5,000 square feet shall be provided.

17. All underground work shall be completed prior to subgrade preparation and placement of paving.

PAVING NOTES:

1. All dimensions are to the face of curb unless shown otherwise.
2. All proposed curb radii are 2.0 feet unless shown otherwise.
3. The Contractor shall remove and replace any concrete pavement within five (5) days of saw cutting the existing pavement.
4. The use of fly ash is not allowed in the concrete mix design.
5. All subgrade shall be tested for sulfates prior to the placement of concrete pavement. If sulfates are found, any treatments shall be in accordance with the recommendations of the geotechnical engineer.
6. All concrete shall meet the minimum compressive strengths as noted and specified on the plans or other specifications. Unless noted otherwise, the concrete pavement shall have a minimum compressive strength of 3,600 psi at 28 days.
7. It is the Contractor's responsibility to ensure compliance with all handicapped accessibility requirements, including signage, textures, colorings, markings and slopes of ADA accessible routes and parking spaces.
8. All signs, pavement markings and other traffic control devices shall conform to the Manual on Uniform Traffic Control Devices latest version.
9. All existing signs within the limits of the proposed pavement shall be relocated a minimum of five (5) feet from the proposed back of curb.
10. The contractor shall submit a pavement jointing plan to the Engineer for approval prior to the placement of concrete paving.
11. Saw joints shall be made as soon as the new concrete can support the weight of the machine and operator without tracking.

STORM DRAINAGE NOTES:

1. Drainage improvements to the existing system is not included in this project unless directed by the Engineer.
2. All storm drainage pipe shall be HDPE pipe, unless shown otherwise.
3. Use pre-fabricated Wyes at all pipe intersections and concrete collars at pipe size changes if a junction device (manhole, junction box, inlet, etc.) is not used.
4. Open ends of storm drainage pipes shall be adequately protected at the end of each day by the contractor.
5. Water jetting is not allowed.
6. All embedment and backfill shall be wetted to approximate optimum moisture and compacted in 8 inch lifts to 95% Standard Proctor Density or as directed by the Geotechnical Engineer. Density tests shall be obtained for each lift and for each 150 lineal feet of trench or increment thereof or as directed by the Geotechnical Engineer.
7. All excavation is unclassified and shall include all materials encountered.

EROSION CONTROL NOTES:

1. Erosion control design and specifications are included in these drawings in accordance with the minimum requirements of the DTOP or JCA. Responsibility for compliance with State and Federal Best Management Practices (BMPs), the implementation of erosion control BMP measures and/or the filing of permits or notices shall solely rest with the Contractor(s) and Owner(s). The Junta de Calidad Ambiental (JCA) requires permits for both small and large construction sites under the authority of the Environmental Protection Agency (EPA) General Permit, if required. General Permit requirements will require the developer/owner and responsible Contractor(s) to complete the following:

   Small Construction Sites – will disturb (alone or as part of a larger development) between 1 acre and 5 acres of land.
   A. Must develop and implement a Storm Water Pollution Prevention Plan (SWPPP)
   B. Must post copy of the Construction Site Notice at the project site.
   C. Must submit a copy of the JCA Construction Site Notice to the overseer Governmental Agency, if required.

   Delgado Torres Eng. LLC., assumes no responsibility or liability for failure to do so by the Owner, Developer or Contractor.

2. The Contractor shall obtain a General Permit in compliance with Governmental Agency and implement a SWPPP according to permit requirements and applicable laws.
3. The Contractor shall preserve existing vegetation when possible and must stabilize any disturbed area where construction activity has temporarily or permanently ceased. The stabilization must take place within 14 days of the end of activities unless construction will resume within 21 days.
4. All of the erosion control devices shown on the erosion control plan for the project shall be installed prior to the start of land disturbing activities.
5. If the erosion control plan as approved cannot control erosion and off-site sedimentation from the project, then the erosion control plan will be required to be revised and/or additional erosion control devices will be required on-site.
6. The Contractor shall use whatever measures are required to prevent silt and construction debris from leaving the site. Contractor shall comply with all Federal, State and Local erosion, conservation and siltation regulations. Contractor shall remove all temporary erosion control devices upon completion of permanent drainage facilities and the establishment of vegetation sufficient to prevent erosion. Any damage to adjacent properties; downstream channels, ponds or lakes; or wildlife shall be corrected by the Contractor at his expense.
7. The Contractor shall take all available precautions to control dust at no additional cost to owner.

DRAWING GENERAL NOTES:

1. Metric system has been used throughout the project unless otherwise specified.
2. All elevations are referred to mean sea level and given in meters.
3. All horizontal coordinates used are meters, NAD83 (rev. 1993) system.
4. North indication points to true north.
5. New construction shall meet horizontal and vertical alignments of existing facilities.
6. For standard models drawings, refer to the standard drawings book adopted by the Puerto Rico Highway and Transportation Authority.
7. The lateral offset of the signs to be installed shall be according to the standards, recommendations and options indicated in chapter 2a of the MUTCD 2009 edition.
8. Historical buildings are identified (from the Oficina Estatal de Conservacion Historica de PR) in the plans, although is the sole responsibility of the contractor to obtain any permits to perform any work adjacent to these buildings. the contractor shall not impact in any way these historical buildings to complete the construction shown here.

.

ABBREVIATIONS

ABUT.	ABUTMENT	EXP.	EXPANSION	P.T.	POINT OF TANGENCY
AGG.	AGGREGATE	EXT.	EXTERNAL	P.C.C.	PORTLAND CEMENT CONCRETE
AH.	AHEAD	EGL	ENERGY GRADE LINE	PWR.	POWER
AL.	ALUMINUM	EOP	EDGE OF PAVEMENT	P.P	POWER POLE
ASB.	ASBESTOS	F. TO F.	FACE TO FACE	P.L.	PROPERTY LINE
ASPH.	ASPHALT	F.A.	FEDERAL AID	PROP.	PROPOSED
B.C.	BACK OF CURB	F.A.P.	FEDERAL AID PRIMARY	P.G.	PROPOSED GRADE
B.L.	BASE LINE	F.A.S.	FEDERAL AID SECONDARY	P.V.I.	POINT OF VERTICAL INTERSECTION
B.W.F.	BARBED WIRE FENCE	F.	FILL	R.	RADIUS OF CURVATURE
B.V.	BALL VALVE	F.L.	FLOW LINE	RR.	RAILROAD
B. & S.	BELL & SPIGOT	FWD.	FORWARD	R.C.P.	REINFORCED CONCRETE PIPE
BM.	BENCH MARK	G.I.	GALVANIZED IRON	RET.	RETAINING
BIT. CONC.	BITUMINOUS CONCRETE	G.	GAS	RT.	RIGHT
BLDG.	BUILDING	G.V.	GAS VALVE	R.O.W.	RIGHT OF WAY
BW	BOTTOM OF WALL	GRAV.	GRAVEL	RD.	ROAD
C.I.	CAST IRON	GRD.	GROUND	RDWAY.	ROADWAY
C.I.P.	CAST IRON PIPE	HW.	HEADWALL	SAN. S.	SANITARY SEWER
C.B.	CATCH BASIN	HWL.	HIGH WATER LEVEL	S.M.H.	SANITARY SEWER MANHOLE
C.L.	CENTER LINE	HGL	HYDRAULIC GRADE LINE	SHDR.	SHOULDER
C. TO C.	CENTER TO CENTER	HYD.	HYDRANT	SW.	SIDEWALK
CTD.	COATED	INV.	INVERT	S.C.	SPIRAL TO CURVE
COL.	COLUMN	I.E.	INVERT ELEVATION	S.T.	SPIRAL TO TANGENT
COM.	COMMUNICATION	J.B.	JUNCTION BOX	SQ.M.	SQUARE METER
CONC.	CONCRETE	L.T.	LEFT	STA.	STATION
C.O.A.	CONTROL OF ACCESS	L.	LENGTH OF CURVE	S.S.	STORM SEWER
COORD.	COORDINATES	L.P.	LIGHT POLE	STR.	STRUCTURE
C.M.	CORRUGATED METAL	M.B.	MAIN BOX	SG.	SUBGRADE
C.M.P.	CORRUGATED METAL PIPE	M.L.	MAIN LINE	S.L.	SURVEY LINE
CU.M.	CUBIC METER	MH.	MANHOLE	TW	TOP OF WALL
CUL.V.	CULVERT	MAX.	MAXIMUM	T.S.	TANGENT TO SPIRAL
C.S.	CURVED TO SPIRAL	M.H.W.	MEAN HIGH WATER	TEL.	TELEPHONE
C.	CUT	M.S.L.	MEAN SEA LEVEL	TY	TYPE (MATERIAL TYPE)
DEG.	DEGREE	MED.	MEDIAN	T.E.	TOP ELEVATION
DIA.	DIAMETER	MIN.	MINIMUM	T.G.	TOP OF GRATE
DIM.	DIMENSION	MON.	MONUMENT	TOC	TOP OF CURB
DWG.	DRAWING	D.C.	ON CENTER	UG.	UNDERGROUND
DWY.	DRIVEWAY	O.D.	OUTSIDE DIAMETER	V.C.	VERTICAL CURVE
ELEV.	ELEVATION	OFF.	OFFSET	VERT.	VERTICAL
E. TO E.	END TO END	O. TO O.	OUTSIDE TO OUTSIDE	W.M.	WATER MAIN
ENGR.	ENGINEER	PVMT.	PAVEMENT	W. MTR.	WATER METER
EST.	ESTIMATE	PCC.	POINT OF COMPOUND CURVATURE	W.V.	WATER VALVE
EXC.	EXCAVATIION	P.C.	POINT OF CURVATURE	W.W.	WING WALL
EXIST.	EXISTING	P.I.	POINT OF INTERSECTION	W.M.F.	WIRE MESH FENCE
E.G.	EXISTING GROUND	P.R.C.	POINT OF REVERSE CURVE	W.I.	WROUGHT IRON
				W/F	WATER FAUCET BOX

PRELIMINARY PLANS

THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
PLANS PREPARED UNDER THE DIRECT SUPERVISION OF J.A.DELGADO VELEZ, PE. CIAPR REGISTRATION # 28436
DATE: May 30, 2024

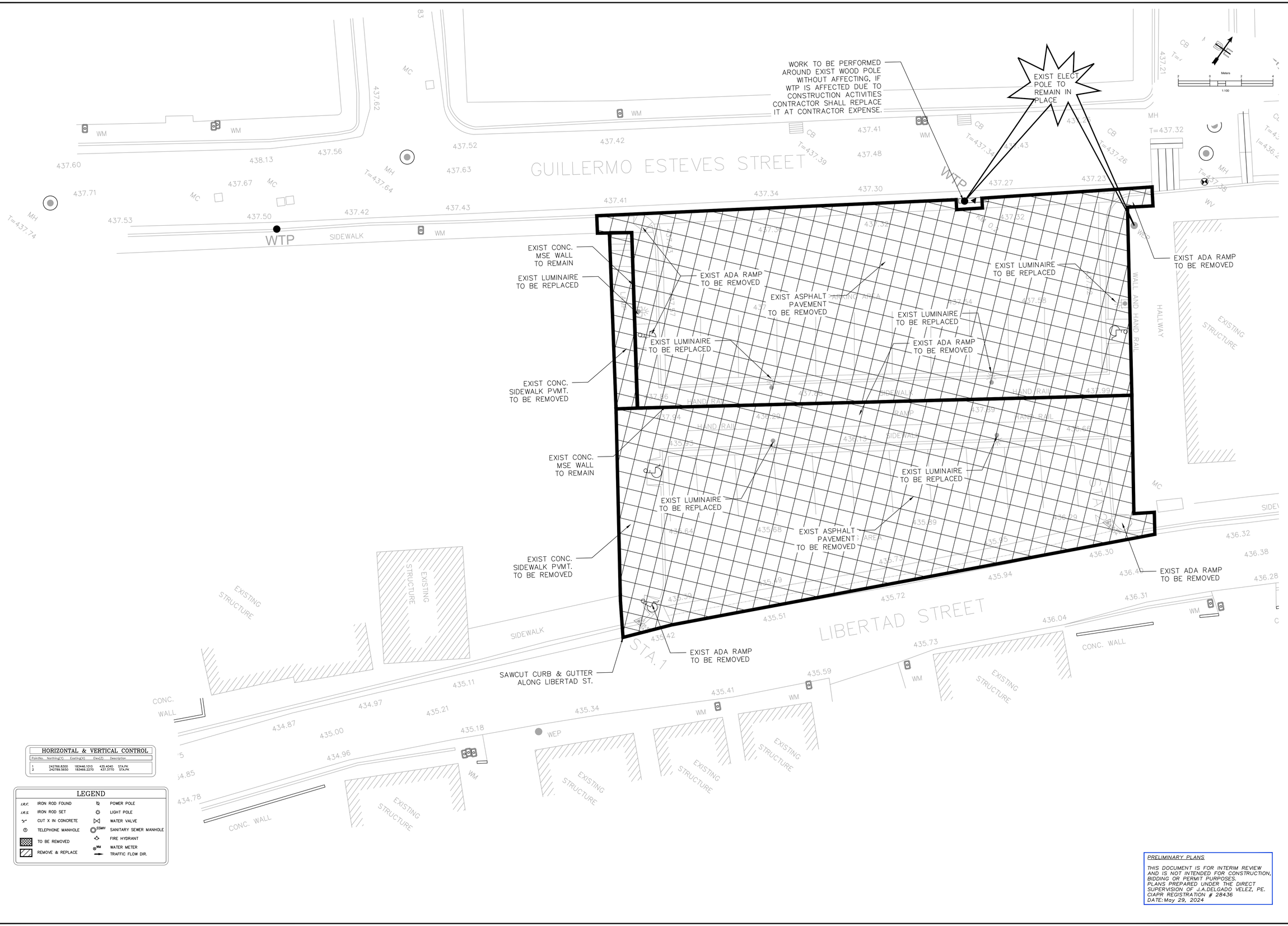
DELTORRE ENGINEERING
PLANNING SMART FOR A BETTER FUTURE
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

PARKING LIBERTAD STREET
JAYUYA, P.R.

GENERAL NOTES

REVISIONS	SYMBOL	DATE	BY
NOT FOR CONSTRUCTION	A	2024-05-28	JAD			

EN CASO A DECIDO SEA PARTE DE LOS PLANOS SELLADOS POR EL PROFESIONAL DE LA INGENIERIA Y/O PREPARE ESTOS PLANOS Y LAS ESPECIFICACIONES, CONFORMANDO LOS MISMOS SELLADOS POR EL MISMO, NINGUNA PERSONA QUE NO SEA EL PROFESIONAL DE LA INGENIERIA QUE LOS SELLO, PREPARO O SUPERVISO, PODRA HACER CAMBIOS A LOS MISMOS. EN EL CASO DE QUE LOS MISMOS SEAN UTILIZADOS POR CORPORACIONES FORMADAS CON PERSONAL PROFESIONAL DE LA INGENIERIA, DICHAS CORPORACIONES TENDRAN QUE DESIGNAR UN PROFESIONAL DE LA INGENIERIA QUE SEA EL RESPONSABLE DE CUALQUIER CAMBIO QUE SE HAGA A LOS MISMOS, POR OTRA PERSONA QUE NO SEA EL MISMO, SIN LA AUTORIZACION POR ESCRITO DEL PROFESIONAL DE LA INGENIERIA QUE LOS SELLO, PREPARO O SUPERVISO.



HORIZONTAL & VERTICAL CONTROL					
Point No.	Northing(Y)	Easting(X)	Elev(Z)	Description	
1	242766.8300	183446.1010	435.4040	STA.PK	
2	242789.5650	183466.2270	437.3770	STA.PK	

LEGEND			
I.R.F.	IRON ROD FOUND		POWER POLE
I.R.S.	IRON ROD SET		LIGHT POLE
	CUT X IN CONCRETE		WATER VALVE
	TELEPHONE MANHOLE	SSMH	SANITARY SEWER MANHOLE
	TO BE REMOVED		FIRE HYDRANT
	REMOVE & REPLACE	WM	WATER METER
			TRAFFIC FLOW DIR.

PRELIMINARY PLANS

THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
PLANS PREPARED UNDER THE DIRECT SUPERVISION OF J.A.DELGADO VELEZ, PE. CIAPR REGISTRATION # 28436
DATE: May 29, 2024

DELTORRE ENGINEERING LLC
IMPROVING QUALITY OF LIFE TO OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

PROJECT NAME
PARKING LIBERTAD STREET
JAYUYA, P.R.

SHEET NAME
C200 DEMOLITION PLAN

REVISIONS	SYMBOL	DATE	BY

YO, JOSÉ A. DELGADO VÉLEZ, NUMERO DE LICENCIA 28436 CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONO Y/O DISEÑO Y/O PREPARÉ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, LOS CUALES CUMPLEN CON LAS DISPOSICIONES CONTENIDAS EN LA LEY NÚM. 173 DE 12 DE AGOSTO DE 1988, SEGÚN ENMENDADA, Y LAS DISPOSICIONES REGLAMENTO CONJUNTO Y LAS DISPOSICIONES ARTICULADAS DE LOS REGLAMENTOS VIGENTES DE LA OFICINA DE GERENCIA DE PERMISOS (OGPE) Y LA JUNTA DE PLANIFICACIÓN. ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS FUERON PREPARADOS BAJO MI SUPERVISIÓN PERSONAL O EN COLABORACIÓN CON PERSONAS PÚBLICAS CON JURISDICCIÓN. RECONOZCO QUE CUALQUIER DESLAMACIÓN FALSA O ENGAÑOSA DE LOS HECHOS ANTES MENCIONADOS PODRÍA RESULTAR EN LA REVOCACIÓN DE MI LICENCIA. ESTA DECLARACIÓN ES HECHA POR MÍ, BAJO JURAMENTO Y BAJO LAS PENAS DE PERJURIO. ENTIENDO QUE LOS PLANOS Y ESPECIFICACIONES QUE NO HAYAN SIDO PREPARADOS POR MÍ, O BAJO MI SUPERVISIÓN DIRECTA, NO SERÁN ACEPTADOS A MENOS QUE VENGAN ACOMPAÑADOS DE UNA CARTA DE RESPONSABILIDAD PROFESIONAL FIRMADA POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HAGO RESPONSABLE DE LOS MISMOS ANTE LA OGPE Y LA JUNTA DE PLANIFICACIÓN.

DRAWN: JAD
DESIGNED: JAD
REVIEWED: ITI
DATE:
May 29, 2024
PROJECT NO.:
DTE23-003
SHEET NO.:
C200

c:\users\josedelgado\onedrive - delgado torres engineering, llc\documents - projects\dte-2023-003 parking libertad street crp-048 jayuya\dte23-003 c3d\production drawings\c200 demolition plan.dwg

PR 141/GUILLERMO ESTEVES ST.

LEVEL ABOVE
FFE=439.02
16

LEVEL BELOW
FFE=436.00
16

LIBERTAD ST.

7.6MT

3.8MT

EXISTING STRUCTURE

PARE

CONC. WALL

WM

WEP

WV

MC

Meters
2 0 2 4
1:100

SITE DATA SUMMARY TABLE
CRP-000048 PARKING AT LIBERTAD ST.
JAYUYA, PUERTO RICO
LOT 1, BLOCK A
URBAN CENTER JAYUYA, PR
MUNICIPALITY OF JAYUYA
ZONED: COMMERCIAL (C-1)

SITE DATA		
GROSS SITE AREA	808.35 SQ. MT (0.183 ACRES)	
DETENTION AREA	0 SQ. MT (0.00 ACRES)	
ZONING DATA		
ZONING DISTRICT:	COMMERCIAL	
CURRENT USE:	PARKING	
PROPOSED USE:	PARKING	
LOT COVERAGE DATA:		
BUILDING COVERAGE (PROPOSED)	0.00%	0.00 MT
IMPERVIOUS AREA	91.96%	743.36 MT
PERVIOUS AREA	8.04%	64.99 MT
PARKING SUMMARY:	REQUIRED	PROVIDED
HANDICAP (1/25 SPACES)	2	2
PROPOSED PARKING AREA		
8 NEW SPACES PROVIDED		
TOTAL REQUIRED (EXIST)		– 22 REQUIRED
PARKING PROVIDED		– 32 PROVIDED
DEVIATION (22/32)		– 68.75%
TOTAL PARKING		–32 SPACES

HORIZONTAL & VERTICAL CONTROL

PointNo.	Northing(Y)	Easting(X)	Elev(Z)	Description
1	242766.8300	183446.1010	435.4040	STA.PK
2	242789.5650	183466.2270	436.2960	STA.PK

LEGEND

CUT X IN CONCRETE		POWER POLE	
EXIST ELECTRIC LINE		LIGHT POLE	
EXIST TELEPHONE LINE		WATER VALVE	
EXIST STORM DRAIN	MH	UTILITY MANHOLE	
EXIST WATER LINE		EX. CATCH BASIN	
EXIST SANITARY LINE		FIRE HYDRANT	
EX FLOOD PLAIN ELEV	WM	WATER METER	
CONST. IMPACTED AREA		TRAFFIC FLOW DIR.	

PRELIMINARY PLANS

THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
PLANS PREPARED UNDER THE DIRECT SUPERVISION OF J.A.DELGADO VELEZ, PE.
CIAPR REGISTRATION # 28436
DATE: May 29, 2024

DELTORRE ENGINEERING LLC
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

PROJECT NAME
PARKING LIBERTAD STREET
JAYUYA, P.R.

SHEET NAME
SITE PLAN

REVISIONS	SYMBOL	DATE	BY

YO, JOSE A. DELGADO VELEZ, MIEMBRO DE LA LOGIA, JAIME, CERTIFICO QUE SOY EL PROFESIONAL QUE PREPARO Y/O DISEÑO Y/O PREPARE ESTOS PLANOS Y LAS ESPECIFICACIONES CONTENIDAS EN LOS MISMOS Y QUE LOS MISMOS CUMPLEN CON LAS ESPECIFICACIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS ESPECIFICACIONES APLICABLES DE LOS REGLAMENTOS Y NORMAS DE CONSTRUCCION APLICABLES DE LA AUTORIDAD CORRESPONDIENTE. TODO USO, USO DE INTERVENCION, RECONSTRUCCION, DE CUALQUIER FORMA DE ESTOS PLANOS O ESPECIFICACIONES SIN MI CONSENTIMIENTO ESCRITO, O POR OTRAS PERSONAS QUE NO SEA POR MI, ME LIBERA O EXIMIRA DE CUALQUIER RESPONSABILIDAD Y ME RESERVO EL DERECHO DE ACCION LEGAL QUE PUEDA PROCEDER CON MI CONOCIMIENTO, NO HAGAN REVISIONES NI ADICIONES A ESTOS PLANOS SIN MI CONSENTIMIENTO POR ESCRITO.

DRAWN: JAD
DESIGNED: J. Delgado, PE
REVIEWED: I. Torres, PE
DATE:
May 29, 2024
PROJECT NO.:
DTE23-003
SHEET NO.:
C300

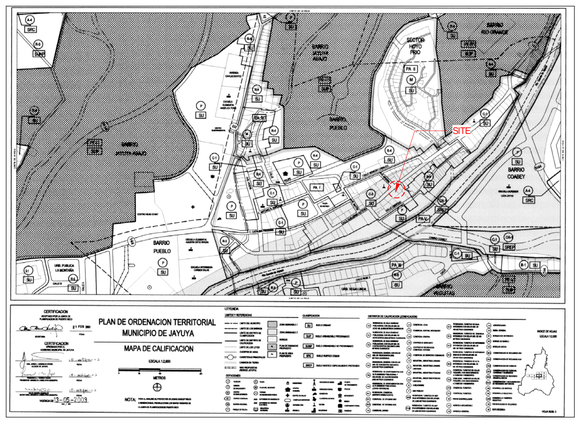
c:\users\josedelgado\onedrive - delgado torres engineering, llc\documents - proyectos\dte-2023-003 parking libertad street crp-048 jayuya\dte23-003 c3d\production drawings\c300 overall site plan.dwg

CONSTRUCTION DRAWINGS FOR:

PARKING LIBERTAD STREET

STATE ROAD P.R. No 144 LIBERTAD STREET JAYUYA,
PUERTO RICO





LOCATION MAP

NOT TO SCALE

LEGAL DESCRIPTION:

PARCEL ID:

NOTE:

THE INTENT OF THIS PERSPECTIVE IS TO SHOW THE GENERAL ARCHITECTURAL CONCEPT. SOME BUILDING OR SITE FEATURES MAY DIFFER FROM WHAT IS SHOWN ON THE PLANS. REFER TO ARCHITECTURAL AND CIVIL PLANS FOR A DESCRIPTION OF ACTUAL DESIGN.

DESIGNERS OF RECORD

WE HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED, TO THE BEST OF OUR KNOWLEDGE, IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

ARCHITECTURAL

FRANCISCO J. MORENO-ORAMA, AIA
LICENSED ARCHITECT #19875

MORENO ORAMA ARCHITECTURE, INC.

3012 AMBER OAK DR
VALRICO, FL 33594
(813) 381-3382
FMORENORAMA@GMAIL.COM

DATE: 5/28/2024 5:21:40 PM

LIST OF SHEETS

Sheet Number	Sheet Name	Sheet Issue Date	Current Revision	Current Revision Date
G	GENERAL			
G000	COVER SHEET	06/02/22		
AS	ARCHITECTURAL SITE			
ASD110	EXISTING ARCHITECTURAL SITE PLAN	02/18/22		
A	ARCHITECTURAL			
A110	FIRST LEVEL FLOOR PLAN	06/02/22		
A111	REFLECTED CEILING FIRST LEVEL	06/02/22		
A120	SECOND LEVEL FLOOR PLAN	06/27/22		
A210	EAST AND NORTH BUILDING ELEVATION VIEWS	12/18/23		
A220	WEST AND SOUTH BUILDING ELEVATION VIEWS	12/18/23		
A310	BUILDING SECTION	06/07/23		
A320	WALL SECTIONS	06/07/23		
A410	STAIRS BLOW-UP PLANS AND SECTIONS	06/07/23		
A510	CORRUGATED WALL PANESL DETAILS	02/22/24		
A520	METAL CANOPY DETAILS	02/22/24		
A530	METAL CANOPY SHOP DRAWING DETAILS	02/22/24		
A540	SIGN DETAIL AND METAL CAP FLASHING DETAILS	02/22/24		
A550	TYPICAL DETAILS	02/22/24		
A560	PAVEMENT STAMP PATTERN DETAILS	02/22/24		

BUILDING AREA SCHEDULE

NAME	TYPE	AREA	LEVEL
Area	GROSS BUILDING	5938 ft²	LEVEL 1 F.F.E.L.
Area	GROSS BUILDING	5895 ft²	LEVEL 2
TOTAL: 2		11833 ft²	

PROJECT SUMMARY

PROJECT NAME	PARKING LIBERTAD STREET
PROJECT ADDRESS	STATE ROAD P.R. No 144 LIBERTAD STREET JAYUYA, PUERTO RICO
OWNER	JAYUYA
OWNER ADDRESS	STATE ROAD P.R. No 144 LIBERTAD STREET JAYUYA, PUERTO RICO
OWNER PHONE NO	
OWNER EMAIL	
AUTHORIZED AGENT	R

CODE COMPLIANCE

PATH OF COMPLIANCE	NEW CONSTRUCTION	
CODE ENFORCEMENT JURISDICTION	OFICINA DE GERENCIA DE PERMISOS (OGPe)	
MODEL CODES	ARCHITECTURAL	2018 BUILDING CODE OF PUERTO RICO
	STRUCTURAL	2018 BUILDING CODE OF PUERTO RICO
	MECHANICAL	2018 RESIDENTIAL CODE OF PUERTO RICO
	ELECTRICAL	2018 RESIDENTIAL CODE OF PUERTO RICO
	PLUMBING	2018 RESIDENTIAL CODE OF PUERTO RICO
	ENERGY	2018 ENERGY CODE OF PUERTO RICO

SITE DATA

ZONING DISTRICT	(C-3) AND (R-4)	SU (SUELO URBANO)
FLOOD ZONE	X	
SITE PARAMETERS	REQUIRED	PROPOSED
PARKING/ LOADING		32
MAXIMUM HEIGHT		26'-5"
LOT COVERAGE %		8,218.98 SQ. FT. = 763.57 SQ. MTS.
PERVIOUS AREA %		0
GROSS BUILDING AREA		33%
SETBACKS/ YARDS: FRONT REAR SIDE		N/A 0 0 0

BUILDING DATA

USE AND OCCUPANCY CLASSIFICATION	GROUP S-2 STORAGE	
CLASSIFICATION OF WORK	GARAGE	
CONSTRUCTION TYPE	IIB NS (NOT SPRINKLERED)	
CONSTRUCTION MATERIALS:	ALLOWED	PROPOSED
PRIMARY STRUCTURAL FRAME	NONCOMBUSTIBLE	NONCOMBUSTIBLE
EXTERIOR WALLS	NONCOMBUSTIBLE	NONCOMBUSTIBLE
INTERIOR WALLS	NONCOMBUSTIBLE	NONCOMBUSTIBLE
OTHERS	COMBUSTIBLE MATERIALS PER FBC SECTION 603	2,3,5,6,7,14,15,16,18,2,2324,25, 603.1.1, 603.1.2, 603.1.3
BUILDING HEIGHT IN STORIES	2 STORIES	2 STORY
BUILDING HEIGHT IN FEET	26'-5"	26'-5"
GROSS BUILDING AREA	UNLIMITED	11,833 SQ FT (1,099.32 SQ. MTS.)

GENERAL FIRE PROTECTION

SPRINKLERS	NOT SPRINKLERED	
STANDPIPES	NO	
OCCUPANCY LOAD	SEE G001	
EXITS	2	
EMERGENCY LIGHTING	YES	
EXIT SIGNS	YES	
FIRE ALARM	NO	
SMOKE DETECTION SYSTEMS	YES	
CARBON MONOXIDE DETECTION	NO	
FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:	REQUIRED	PROPOSED
PRIMARY STRUCTURAL FRAME	0 HR	0 HR
BEARING WALLS EXTERIOR INTERIOR		 0 HR 0 HR
NONBEARING WALLS AND PARTITION CORRIDORS SEPARATION OF OCCUPANCY	0 HR PER FBC 1020.1.4 (LESS THAN 30 OCCUPANTS)	0 HR 0 HR 0 HR
FLOOR CONSTRUCTION	0 HR	0 HR
ROOF CONSTRUCTION	0 HR	0 HR

MOA
moreno orama architecture
3012 amber oak dr valrico, FL 33594
813.381.3382
architectural business license AA26003981
fmorenorama@gmail.com

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

5/28/2024 5:21:40 PM

DATE

FRANCISCO J. MORENO-ORAMA
LICENSED ARCHITECT
#19875

I, FRANCISCO J. MORENO-ORAMA, LICENSED ARCHITECT NO. 19875, I CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED THESE DRAWINGS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT TO MY UNDERSTANDING, SUCH DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND CODES OF THE AGENCIES, REGULATORY BOARDS, OR PUBLIC CORPORATIONS. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR FALSIFICATION OF FACTS THAT HAS BEEN PRODUCED BY NEGLIGENCE, WHETHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHER PEOPLE WITH MY KNOWLEDGE, MAKE ME RESPONSIBLE FOR ANY AUTHORITY AND DISTRIBUTION OF JUDICIARY OR LEGAL ACTION COMPETENT, INCLUDING BUT NOT LIMITED TO THE COMPLETION OF PARTICIPATION IN THE OIGPE PROFESSIONAL CERTIFICATION PROCEDURES.

CONSTRUCTION DRAWINGS FOR:

PARKING LIBERTAD STREET

STATE ROAD P.R. No 144 LIBERTAD STREET JAYUYA, PUERTO RICO

OWNER: JAYUYA

ADDRESS: STATE ROAD P.R. No 144 LIBERTAD STREET JAYUYA, PUERTO RICO

TELEPHONE:

EMAIL:

OWNER'S REPRESENTATIVE:

R

ISSUE/ REVISIONS:

NUM.	DATE	DESCRIPTION

PROJECT NO:

FILE:

DRAWN BY: CPB CHK'D BY: FMO

© 2024 MORENO ORAMA ARCHITECTURE,INC

SHEET TITLE:

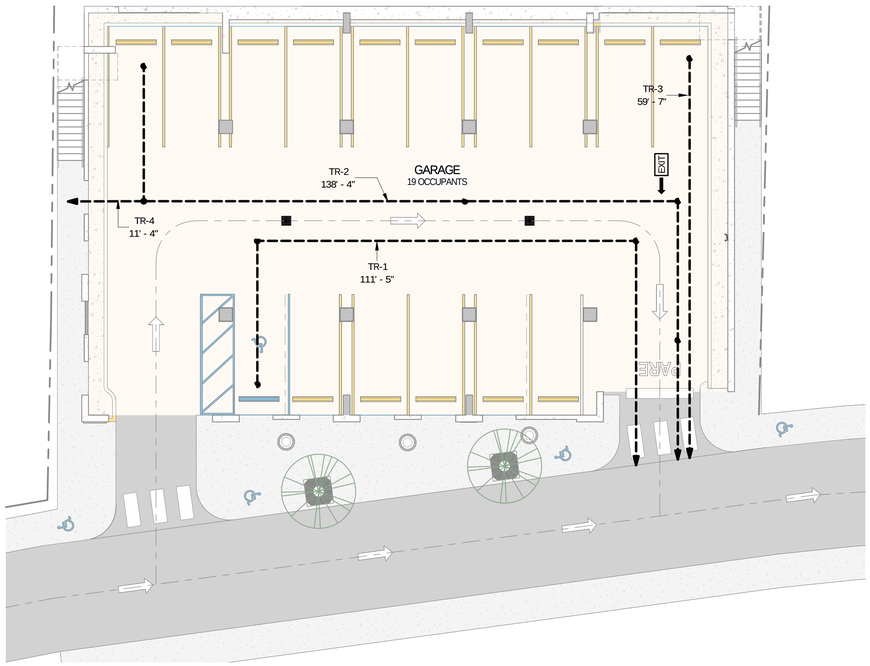
COVER SHEET

SHEET COUNT: of

SHEET IDENTIFICATION:

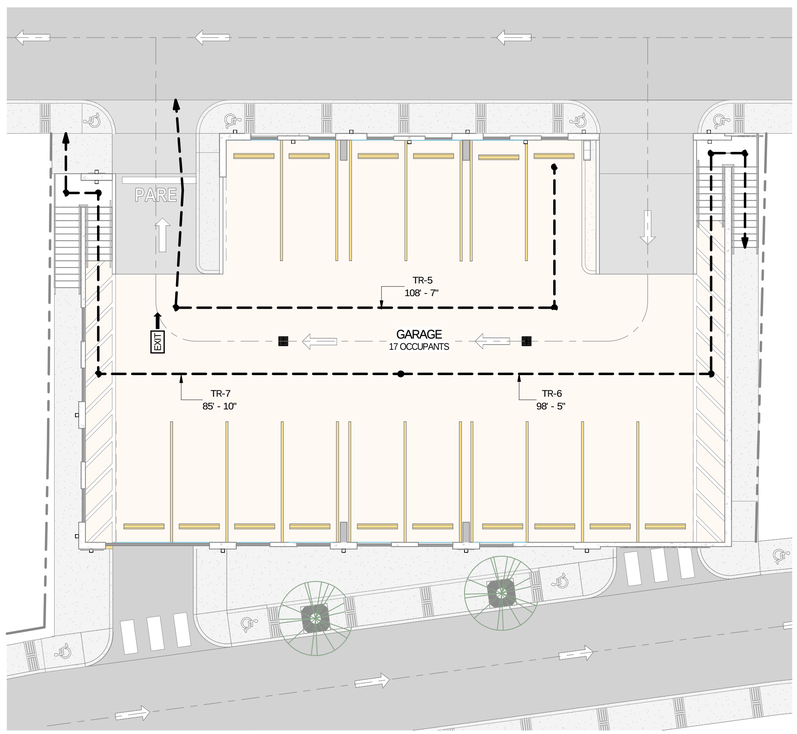
G000

E:\01 MOA\Projects\2022\FMO\2022316 JPAR\01 RVT\2024-02-14 JPAR2024-02-14 JPAR.rvt



C1 LIFE SAFETY PLAN FIRST LEVEL FLOOR

SCALE: 3/32" = 1'-0"



A1 SECOND LEVEL FLOOR PLAN

SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. CODES REFERENCED IN THE DRAWINGS REFER TO THE EDITION INDICATED ON THE CODE COMPLIANCE INFORMATION SHOWN ON THIS SHEET.
2. DRAWINGS ARE DRAWN TO SCALE, UNLESS OTHERWISE NOTED.
3. COPYING ORIGIAL PLANS AND PRINTING FROM DIGITAL FORMATS MAY CAUSE THE SCALE OF THE DRAWINGS TO BE ALTERED. IF DISCREPANCIES IN MEASUREMENTS ARE ENCOUNTERED, DISCARD PLANS AND REQUEST ORIGINAL PRINTS FROM DESIGN PROFESSIONAL.
4. GENERAL NOTES APPLY TO ALL CONTRACTORS OF ALL TRADES.
5. IT WILL BE ASSUMED THAT THE CONTRACTOR IN SUBMITTING HIS/HER BID COVERS ALL WORK NECESSARY TO COMPLETE THE PROJECT AS INTENDED BY THESE DOCUMENTS.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY. THE CONTRACTOR IS TO INITIATE, OBSERVE AND MAINTAIN ALL SAFETY PRECAUTIONS. REQUIRED BY STATE, LOCAL AND FEDERAL LAWS INCLUDING OSHA.
7. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS/HER WORK OR THROUGH THE NEGLECT OF HIS/HER WORKERS.
8. THE CONTRACTOR SHALL SECURELY BRACE ALL PARTITIONS AS REQUIRED UNTIL THEY ARE FULLY SECURED ON A PERMANENT BASIS.
9. STAGING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF ALL MATERIALS. MINIMAL ON SITE STORAGE AND STAGING WILL BE DESIGNATED; HOWEVER IT WILL BE LIMITED TO THE IMMEDIATE WORK AES. OFF SITE STORAGE WILL BE REQUIRED FOR SECURITY REASONS, THE COST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. SUB-CONTRACTOR SHALL OBTAIN REQUIRED TRADE PERMITS PRIOR TO COMMENCING WORK AND PROVIDE COPIES OF ALL PERMITS TO GENERAL CONTRACTOR
11. THE CONCRACTOR SHALL BE RESPONSIBLE FOR APPLICATION AND FEES ASSOCIATED FOR THE SIDEWALK/STREET CLOSURE REQUIRED TO PERFORM THE SCOPE OF WORK HEREIN. THIS IS TO INCLUDE AND NOT BE LIMITED TO: SAFETY BARRICADES, FLASHRS, SIGNAGE, ETC. TO ENSURE THE SAFETY OF THE GENERAL PUBLIC AND THE WORKERS.
12. CONTRACTOR AND SUB-CONTRACTORS SHALL VISIT THE SITE PRIOR TO COMMENCING CONSTRUCTION AND FIELD VERIFY CONDITIONS. SHOULD THERE BE DISCREPANCIES BETWEEN FIELD CONDITIONS AND REPRESENTATIONS SHOWN ON DRAWINGS, CONTRACTOR SHALL RESOLVE ISSUES AND REPORT ANY NECESSARY CHANGES TO THE CONSTRUCTION COSULTANT PRIOR TO CONSTRUCTION.
13. DOOR HARDWARE SHALL BE LEVER TYPE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND ACCESSIBILITY REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
14. PROVIDE CONTINUOUS BLOCKING, CONCEALED IN ALL PARTITIONS WHERE ITEMS ARE TO BE WALL MOUNTED. THIS INCLUDES BUT IS NOT LIMITED TO LOCATIONS OF ALL COUNTER TOPS, CABINETS AND FIXTURES.
15. ALL LUMBER/TIMBER USED WITHIN THIS CONTRACT IS TO BE THEATED FOR FIRE RESISTANCE USING A PRESSURE PROCESS AS SPECIFIED IN THE FLORIDA BUILDING CODE.
16. AT THE COMPLETION OF THE WORK AND PRIOR TO THE OWNERS ACCEPTANCE, THE GENERAL CONTRACTOR IS REQUIRED TO: CLEAN ALL WALLS, FLOORS AND BASES. VACUUM ALL CARPETS, WASH, CLEAN AND POLISH ALL GLASS. DUST AND VACUUM ALL SURFACES AND LEAVE ALL IN A CLEAN AND ACCEPTABLE CONDITION.

PATH OF TRAVEL SCHEDULE

MARK	LEVEL	LENGTH	FROM ROOM
TR-1	LEVEL 1 F.F.E.L.	111' - 4 3/4"	GARAGE 01
TR-2	LEVEL 1 F.F.E.L.	138' - 4 1/4"	GARAGE 01
TR-3	LEVEL 1 F.F.E.L.	59' - 7"	GARAGE 01
TR-4	LEVEL 1 F.F.E.L.	11' - 3 1/2"	GARAGE 01
TR-5	INTERMEDIATE LEVEL	108' - 6 3/4"	GARAGE 02
TR-6	INTERMEDIATE LEVEL	98' - 4 1/2"	GARAGE 02
TR-7	INTERMEDIATE LEVEL	85' - 10"	GARAGE 02

LEGEND

- PATH OF EGRESS (DIRECTION OF TRAVEL)
- FIRE-RATED WALL OR PARTITION (NUMBER OF DIAMONDS INDICATED NUMBER OF HOURS OF FIRE RATING
- EXIT — ILLUMINATED EXIT SIGN
- MANUALLY ACTUATED FIRE EXTINGUISHER
- S — S — SMOKE BARRIER
- S-2

GROUND FLOOR OCCUPANT LOAD

ROOM NO	ROOM NAME	AREA	OCC GROUP	FUNCTION OF SPACE	OCC LOAD FACTOR	AREA TYPE	OCCUPANT LOAD	EXIT FACTOR	EXIT WIDTH	STAIRS FACTOR	STAIRS WIDTH
01	GARAGE	5650 ft²	S-2	PARKING	300 ft²	GROSS	18.83	3/16"	3 3/4"	5/16"	0' - 5 5/8"
02	GARAGE	5001 ft²	S-2	PARKING	300 ft²	GROSS	16.67	3/16"	3 1/4"	5/16"	0' - 5"
Grand total		10651 ft²					35.50		7"		0' - 10 5/8"

SYMBOLS LEGEND

- DETAIL INDICATOR (DRAWING NUMBER, SIM, MODIFIER, SHEET NUMBER)
- ELEVATION INDICATOR (DRAWING NUMBER, SHEET NUMBER)
- SECTION INDICATOR (DRAWING NUMBER, SIM, MODIFIER, SHEET NUMBER)
- WALL SECTION INDICATOR (DRAWING NUMBER, SIM, MODIFIER, SHEET NUMBER)
- NORTH ARROW
- DOOR TAG (01)
- SPOT ELEVATION INDICATOR
- REVISION TAG AND CLOUD (1)
- WALL TAG (1i)
- WINDOW TAG (1t)
- ROOF PITCH (12 / 4)
- SURFACE SLOPE (%)
- BREAK LINE
- CENTERLINE
- CENTERLINE (℄)
- LEVEL INDICATOR (Name, Elevation)
- STRUCTURAL GRID (0)
- T- SHAPED TURNING SPACE
- 5 FOOT DIAMETER TURNING SPACE
- 48 X 30 INCH CLEAR FLOOR SPACE
- 60 X 58 INCH CLEAR FLOOR SPACE

ABBREVIATIONS

A		GLZ	GLAZING
A/C	AIR CONDITIONING	GR	GROSS
ACC	ACCESSIBLE	GR FL	GROUND FLOOR
ACT	ACOUSTIC CEILING TILE	GYP BD	GYPSUM BOARD
ACI	AMERICAN CONCRETE INSTITUTE	H	HIGH
ADA	AMERICAN WITH DISABILITIES ACT	HC	HOLLOW CORE
ADMIN	ADMINISTRATION	HDR	HEADER
AFF	ABOVE FINISHED FLOOR	HDW	HARDWARE
AFG	ABOVE FINISH GRADE	HM	HOLLOW METAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	HNDRL	HANDRAIL
AHJ	AUTHORITIES HAVING JURISDICTION	HSKPG	HOUSEKEEPING
AHU	AIR HANDLING UNIT	HT	HEIGHT
ALM	ALARM	HVAC	HEATING VENTILATING AND AIR-CONDITIONING
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HW	HOLLOW WOOD
APA	AMERICAN PLYWOOD ASSOCIATION	ICC	INTERNATIONAL CODE COUNCIL
APC	ACOUSTICAL PANEL CEILING	IN	INCHES
AR	AS REQUIRED	INCL	INCLUDED
ARCH	ARCHITECT	INSUL	INSULATION
ASC	ABOVE SUSPENDED CEILING	INT	INTERIOR
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	JAL	JALOUSIE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS	JAN	JANITOR
		KIT	KITCHEN
		L CL	LINEN CLOSET
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	LAM GL	LAMINATED GLASS
ASSY	ASSEMBLY	LAU	LAUNDRY
AVG	AVERAGE	LAV	LAVATORY
AW	AMERICAN WOODWORKING INSTITUTE	LBS	POUNDS
B		LC	LAUNDRY CHUTE
B PL	BASE PLATE	LD BRG	LOAD-BEARING
BALC	BALCONY	LDR	LEADER
BD	BOARD	LKR RM	LOCKER ROOM
BDRY	BOUNDARY	LR	LIVING ROOM
BEV	BEVEL	LT	LIGHT
BF	BOTH FACES	LTG	LIGHTING
BHMA	BUILDING HARDWARE MANUFACTURERS ASSOCIATION	LVD	LOUVERED
		MAINT	MAINTENENCE
BI FLD DR	BI FOLD DOORS	MGT	MANAGEMENT
BK BD	BACKBOARD	MAX	MAXIMUM
BKG	BACKING	MBR	MASTER BEDROOM
BLDG	BUILDING	MD	METAL DECK
BLT IN	BUILT-IN	MECH	MECHANICAL
BLW	BELOW	MEMB	MEMBRANE
BOS	BOTTOM OF STEEL	MFR	MANUFACTURER
BOT	BOTTOM	MID	MIDDLE
BR	BEDROOM	MIN	MINUTE
BRG	BEARING	MIT	MITERED
BRKT	BRACKET	ML	METAL LATH
BS	BOTH SIDES	MTD	MOUNTED
BT	BATH TUB	MTL	METAL
BTU	BRITISH THERMAL UNIT	N	NORTH
BTWN	BETWEEN	NA	NOT APPLICABLE
BUR	BUILT-UP ROOF	NAT	NATURAL
BW	BOTH WAYS	NE	NOT EXCEEDING
C		NEC	NATIONAL ELECTRICAL CODE
C	CHANNEL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
C TO C	CENTER TO CENTER	NIC	NOT IN CONTRACT
CAB	CABINET	NO	NUMBER
CAN	CANOPY	NOA	NOTICE OF APPROVAL
CAV	CAVITY	NOM	NOMINAL
CEM	CEMENT	NR	NOT RATED
CFMF	COLD-FORMED METAL FRAMING	NTS	NOT TO SCALE
CG	CORNER GUARD	OC	ON CENTER
CIR	CIRCLE	OCC	OCCUPANT, OCCUPANCY
CIRC	CIRCULAR	OD	OUTSIDE DIMENSION
CJ	CONTROL JOINT	OFF	OFFICE
CL	CENTER LINE	OPNG	OPENING
CLDG	CLADDING	OPP	OPPOSITE
CLG	CEILING	OPT	OPTIONAL
CLO	CLOSET	PAT	PATTERN
CLR	CLEAR	PERP	PERPENDICULAR
CLR	COLOR	PLAS	PLASTIC
CLRM	CLASSROOM	PLYWD	PLYWOOD
CMPST	COMPOSITE	PROP	PROPERTY
CMU	CONCRETE MASONRY UNIT	PUR	PURLINS
CNCL	CONCEALED	PT	PRESSURE TREATED
CNTR	COUNTER	PTN	PARTITION
CO	CLEANOUT	R	RISER
COL	COLUMN	RCPTN	RECEPTION
CONC	CONCRETE	RD	ROOF DRAIN
CONSTR	CONSTRUCTION	RDG INS	RIGID INSULATION
COORD	COORDINATE	REBAR	REINFORCING STEEL BAR
COP	COPING	REC	RECESSED
CORR	CORRIDOR	REF	REFERENCE
CPT	CARPET	REP	REPAIR
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE	REPL	REPLACE
CT	CERAMIC TILE	REQD	REQUIRED
CTR	CENTER	REST	RESTROOM
CURT	CURTAIN	REV	REVISION
D		RFG	ROOFING
DBL	DOUBLE	RL	ROOF LEADER
DEG	DEGREE	RM	ROOM
DEMO	DEMOLITION	ROW	RIGHT OF WAY
DET	DETAIL	RVL	REVEAL
DF	DRINKING FOUNTAIN	S	SOUTH
DH	DOUBLE HUNG WINDOW	SCHED	SCHEDULE
DIFF	DIFFUSER	SCP	SCUPPER
DIM	DIMENSION	SCR	SHOWER CURTAIN ROD
DIST	DISTANCE	SCRN	SCREEN
DIV	DIVIDE	SD	SMOKE DETECTOR
DR	DR	SDG	SIDING
E		SECT	SECTION
E	EAST	SHFT	SHAFT
EE	EACH END	SHV	SHELVING
EF	EXTERIOR FINISH	SIM	SIMILAR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	SLDG	SLIDING
EL	ELEVATION	SQ	SQUARE
ELEV	ELEVATOR	ST	STAIRS
EOS	EDGE OF SLAB	STC	SOUND TRANSMISSION CLASS
EP	EDGE OF PAVEMENT	STD	STANDARD
EQ	EQUAL	STOR	STORAGE
EQUIP	EQUIPMENT	STRUCT	STRUCTURAL
ESMT	EASEMENT	T	TREAD
EW	EACH WAY	TE	TOP ELEVATION
EXST	EXISTING	THK	THICKNESS
EXT	EXTERIOR	TMPD	TEMPERED
F		TO	TOP OF
F	FEMALE	TOB	TOP OF BEAM
F1S	FINISH ONE SIDE	TOP	TOP OF PARAPET
F2S	FINISH TWO SIDES	TOS	TOP OF SLAB
F3S	FINISH THREE SIDES	TOW	TOP OF WALL
F4S	FINISH FOUR SIDES	TYP	TYPICAL
FA	FIRE ALARM	U	
FAR	FLOOR AREA RATIO	UL	UNDERWRITERS LABORATORY
FBC	FLORIDA BUILDING CODE	UP	UNPROTECTED
FD	FLOOR DRAIN	VAR	VARIES
FE	FIRE EXTINGUISHER	VERT	VERTICAL
FF	FINISH FACE	VES	VESTIBULE
FF&E	FURNITURE, FIXTURE AND EQUIPMET	VNR	VENEER
FF EL	FINISHED FLOOR ELEVATION	VOC	VOLATILE ORGANIC COMPOUND
FHC	FIRE HOSE CABINET	W	WEST, WIDE
FIN	FINISH	W/	WITHA
FIN GR	FINISH GRADE	W/O	WITHOUT
FIXT	FIXTURE	WC	WATER CLOSET
FLASH	FLASHING	WD	WOOD
FLR	FLOOR	WDW	WINDOW
FLUOR	FLUORESCENT	WM	WIRE MESH
FOM	FACE OF MASONRY	WP	WATERPROOFING
FR	FIRE RATING	WWF	WELDED WIRE FABRIC
FRMG	FRAMING	XPS	EXTRUDED POLYSTYRENE BOARD
FT	FEET		
FURN	FURNISHING		
G			
GALV	GALVANIZED		
GB	GRAB BAR		
GD	GUARD		

PRIME
DELTORRE ENGINEERING LLC
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591
info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MOA moreno orama architecture
3012 ameroosa/ verde pr 33984
e 139 - 3 9 0 - 3 3 8 2
moreno orama@gmail.com
A A 2 6 0 0 3 9 8 1

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
ABBREVIATIONS AND SYMBOLS LEGEND

REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE: 5/29/2024 4:44:49 PM
DTE PROJECT NO.: DTE23-004
SHEET NO.: G001

E:\01 MOA\Projects\2020\FMO\20023\16 JPAR\01 RVT\20234-02-14 JPAR2024-02-14 JPAR.rvt



A2 EXISTING ARCHITECTURAL SITE PLAN

SCALE: 3/32" = 1'-0"

SHEET NOTES

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
moreno orama architecture
301 zambrana blvd.
vanico, pl 33904
787.398.3302
architecturemoreno@gmail.com
AA26009985
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
EXISTING ARCHITECTURAL SITE PLAN

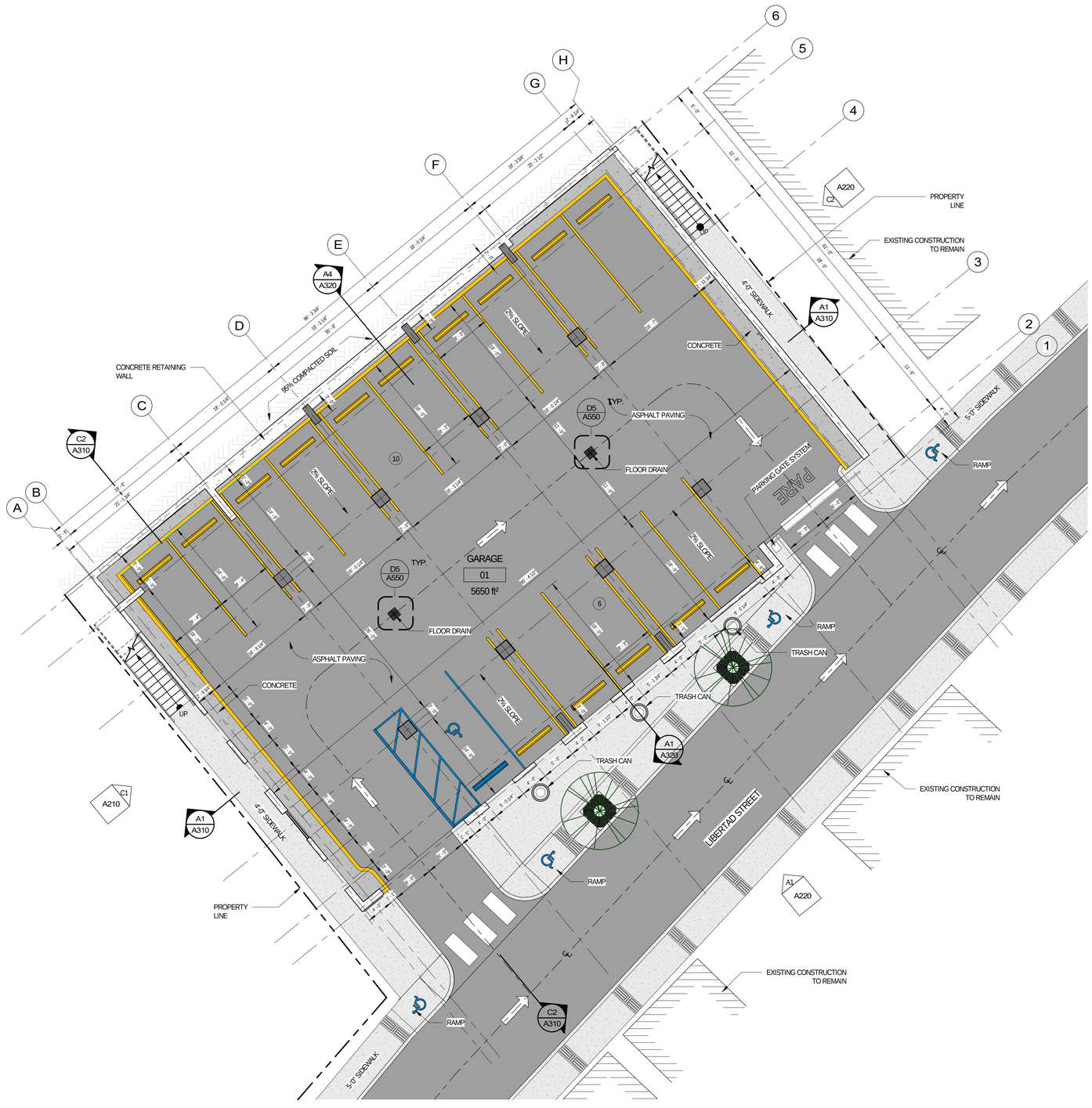
REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:44:42 PM
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
AS110

E:\01 MOA\Projects\2020\FMO\20231116-JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt



A3 FIRST LEVEL FLOOR PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO CIVIL DRAWINGS FOR CURB, SIDEWALK, PAVING, GRATING, AND PLANTING, TRAFFIC MARKINGS AND SIGNAGE FINAL DESIGN.

LEGEND

- 6" CMU WALL
- 12" WALL CONCRETE CAST-IN-PLACE
- SQUARE COLUMN
- RECTANGULAR COLUMN
- PAVEMENT STAMP PATTERN

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MOA moreno orama architecture
301 zambrana dr. ponce, pr 00716
787.848.3662
architecturemoa@gmail.com
A-A 2600 9985
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
FIRST LEVEL FLOOR PLAN

REVISIONS	SYMBOL	DATE	BY

THESE DOCUMENTS, SUCH AS BUT NOT LIMITED TO, DRAWINGS, SPECIFICATIONS, AND COMPUTER DISKS, ARE THE PROPERTY OF DELTORRE ENGINEERING, LLC. AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF DELTORRE ENGINEERING, LLC. ANY UNAUTHORIZED USE OF THESE DOCUMENTS WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO DELTORRE ENGINEERING, LLC. THE USER OF THESE DOCUMENTS AGREES TO INDEMNIFY AND HOLD HARMLESS DELTORRE ENGINEERING, LLC. FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING FROM THE UNAUTHORIZED USE OF THESE DOCUMENTS.

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE: 5/29/2024 4:42:23 PM
DTE PROJECT NO.: DTE23-004
SHEET NO.: A110

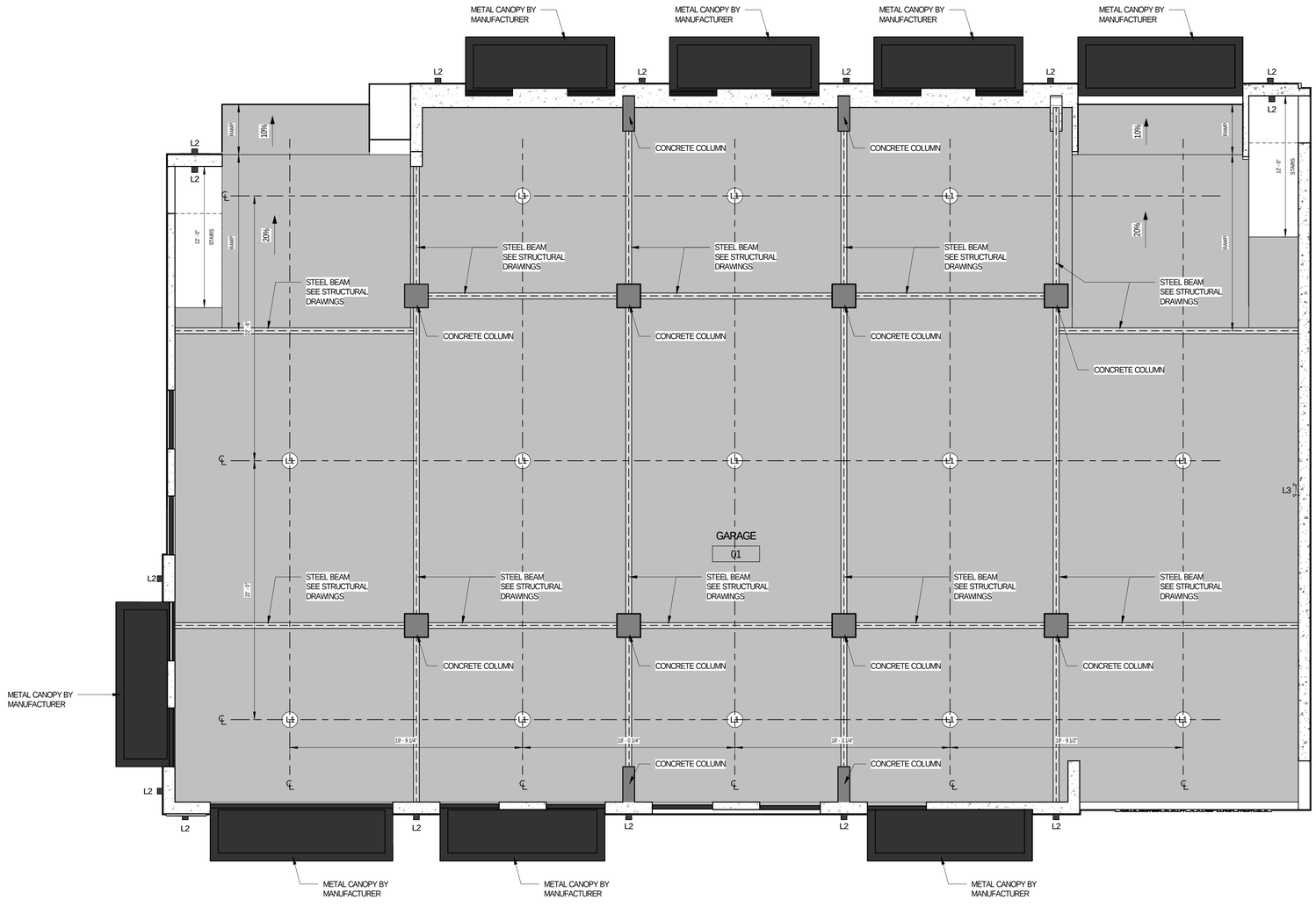
E:\01 MOA\Projects\2020\FMO\2023\16 JPARR01 RVT\2024-02-14 JPARR2024-02-14 JPARR.rvt

LIGHTING FIXTURE SCHEDULE

Mark	Family	Model	Manufacturer	Count
L1	LED GARAGE LIGHT	XPGD S LED 50 CW UE BLK	LIGHTING SOLUTION	13
L2	MINI WALLPACK SERIES	DMWP 70 HPS PC 120 BRZ OTHER	LIGHTING SOLUTION	19
L3	Emergency Wall Light	HPM 6 25 WH SD2	LIGHTING SOLUTION	1
TOTAL: 33				33

SHEET NOTES

LIGHTING FIXTURE
MINI WALLPACK SERIES
LUMINARIE ORDERING INFORMATION (DMWP 70 HPS PC 120 BRZ OTHER)
MANUFACTURER (LIGHTING SOLUTION)



A2 REFLECTED CEILING FIRST LEVEL

SCALE: 3/16" = 1'-0"

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MORENO ORAMA ARCHITECTURE
301 zambrana dr. varios pl 3194
mayaguez, puerto rico 00682
architectural services
A A 2 6 0 0 5 9 8 5
fmoreneorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
REFLECTED CEILING FIRST LEVEL

REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:42:32 PM
DTE PROJECT NO:
DTE23-004

SHEET NO.:
A111

E:\01 MOA\Projects\2020\FMO\202316 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt



A2 SECOND LEVEL FLOOR PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO CIVIL DRAWINGS FOR CURB, SIDEWALK, PAVING, GRATING, AND PLANTING, TRAFFIC MARKINGS AND SIGNAGE FINAL DESIGN.

LEGEND

- 6" CMU WALL
- 12" WALL CONCRETE CAST-IN-PLACE
- SQUARE COLUMN
- RECTANGULAR COLUMN
- PAVEMENT STAMP PATTERN

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
moreno orama architecture
301 zambrana ave. suite 1330
san juan, pr 00918
787.758.3662
architecture@gmail.com
fmorenorama@gmail.com
AA 260 0598

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
SECOND LEVEL FLOOR PLAN

REVISIONS	SYMBOL	DATE	BY

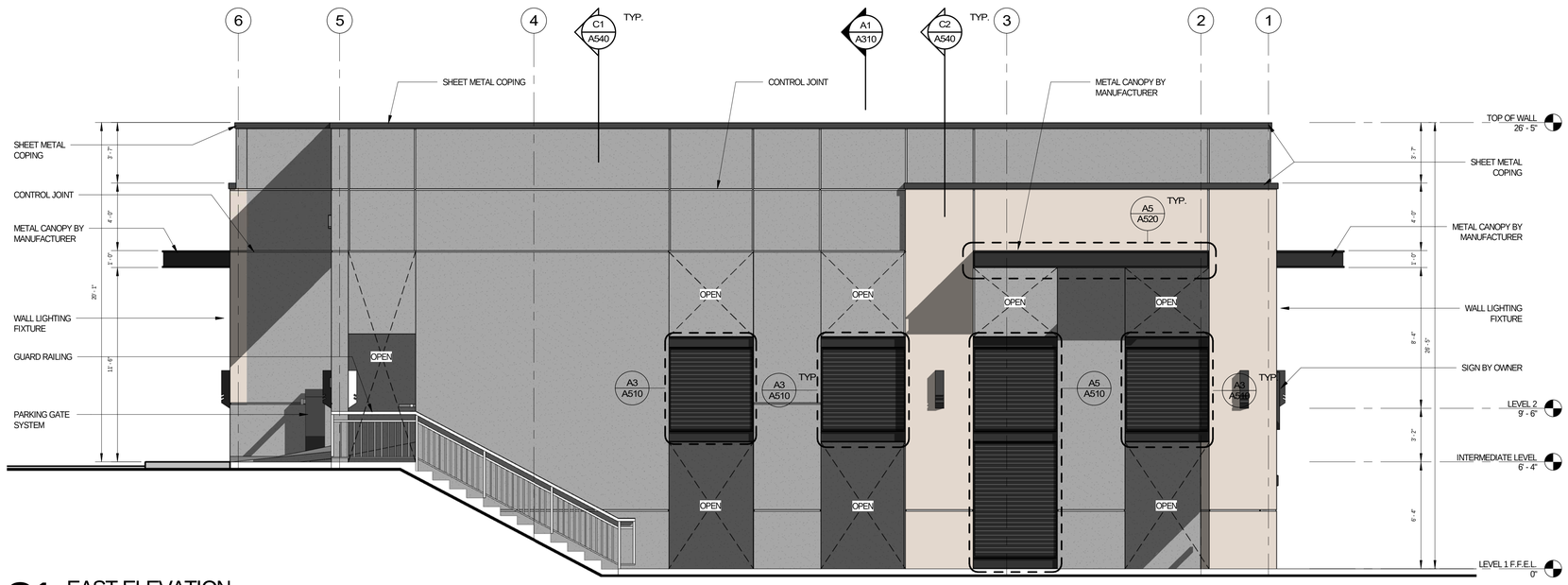
FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:42:58 PM
DTE PROJECT NO.:
DTE23-004
SHEET NO.:
A120

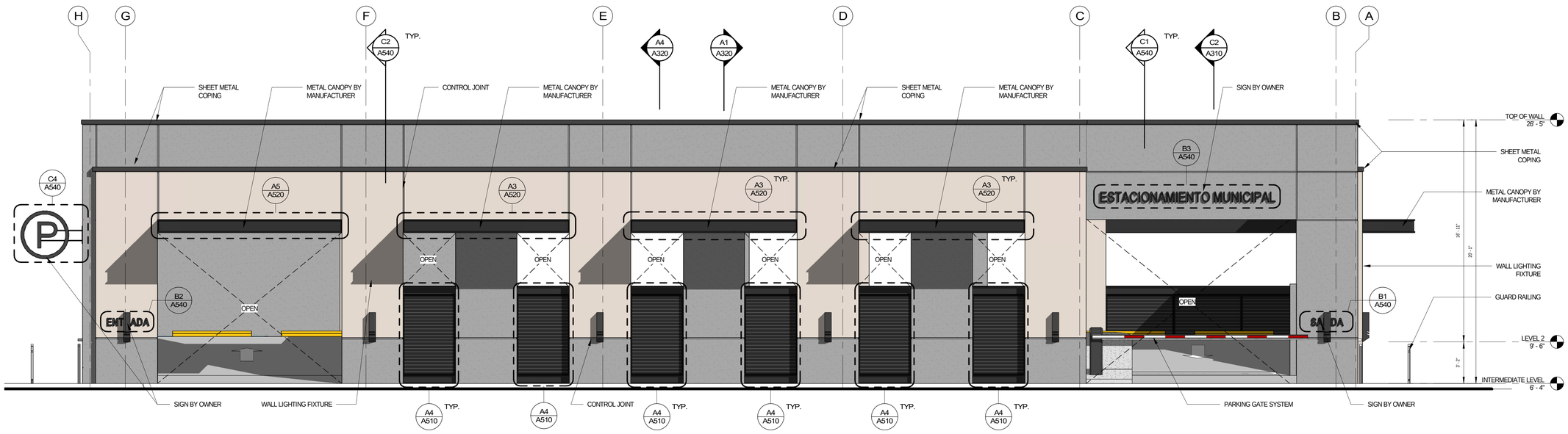
E:\01 MOA\Projects\2020\FMO\2023\16 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt

SHEET NOTES

LIGHTTING FIXTURE
MINI WALLPACK SERIES
LUMINARIE ORDERING INFORMATION (DMWP 70 HPS PC 120 BRZ OTHER)
MANUFACTURER (LIGHTING SOLUTION)



C1 EAST ELEVATION
SCALE: 1/4" = 1'-0"



A1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
PRIME
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

MOA moreno orama architecture
CONSULTANT
301 zambrana dr. valrico, fl 33594
813 838 3262
architecture license no. AA 26005985
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
EAST AND NORTH BUILDING ELEVATION VIEWS

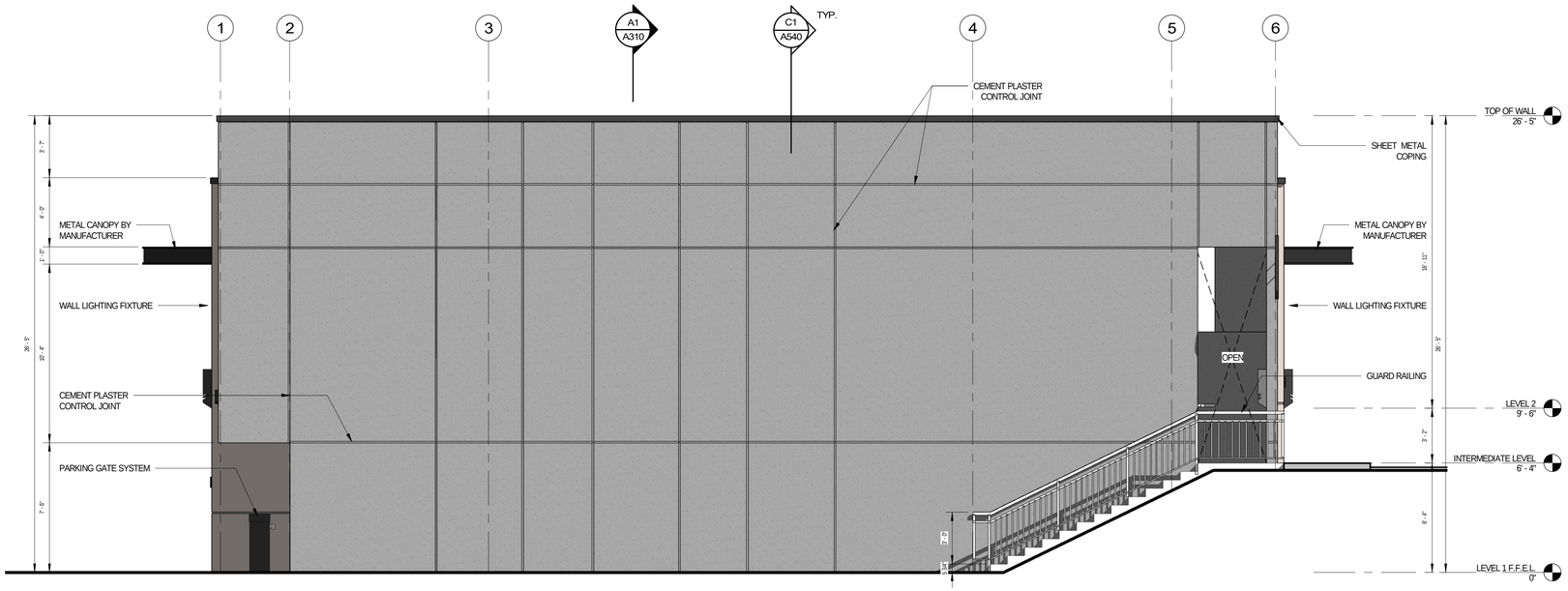
REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:43:12 PM
DTE PROJECT NO.:
DTE23-004

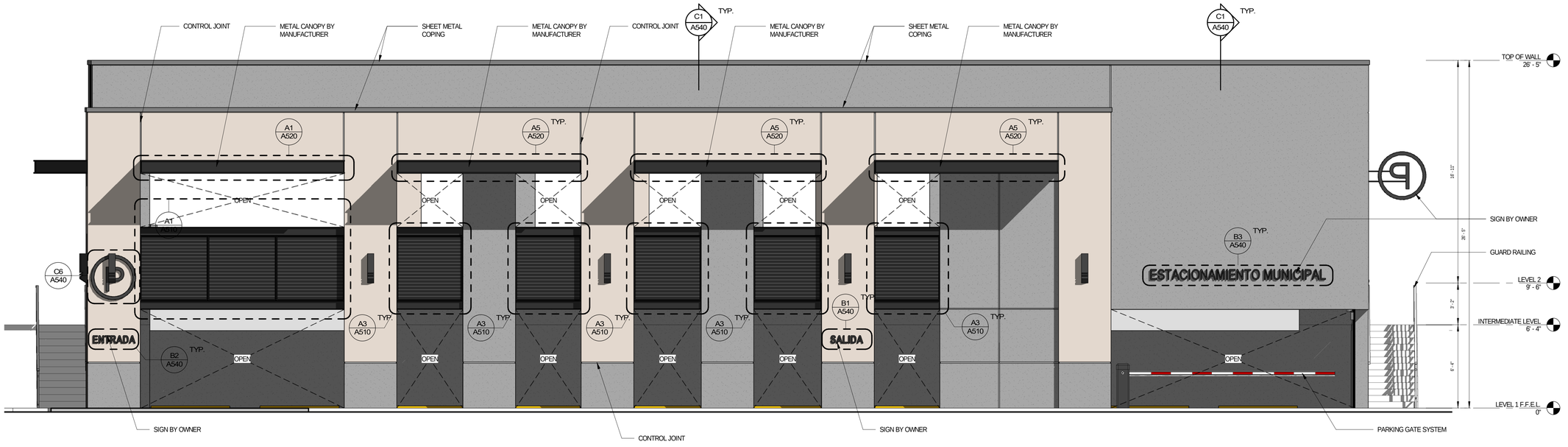
SHEET NO.:
A210

E:\01 MOA\Projects\2020\FMO\023116 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt



C2 WEST ELEVATION

SCALE: 1/4" = 1'-0"



A1 SOUTH ELEVATION

SCALE: 1/4" = 1'-0"

SHEET NOTES

LIGHTTING FIXTURE
MINI WALLPACK SERIES
LUMINARIE ORDERING INFORMATION (DMWP 70 HPS PC 120 BRZ OTHER)
MANUFACTURER (LIGHTING SOLUTION)

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MOA
moreno orama architecture
301 zambrana str. viejo, pr 1390
787 8 3 3 3 2
architecture.moa@gmail.com
AA 2600 998
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
WEST AND SOUTH BUILDING
ELEVATION VIEWS

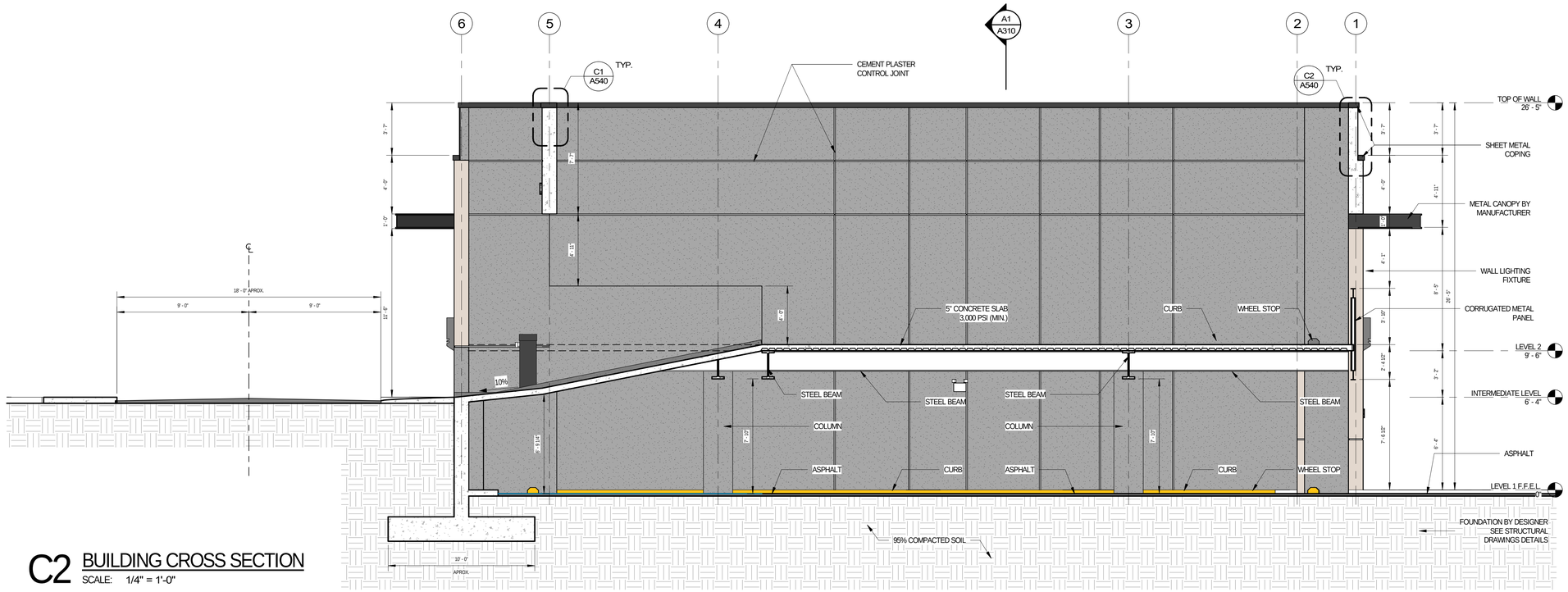
REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO
LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:43:21 PM
DTE PROJECT NO.:
DTE23-004

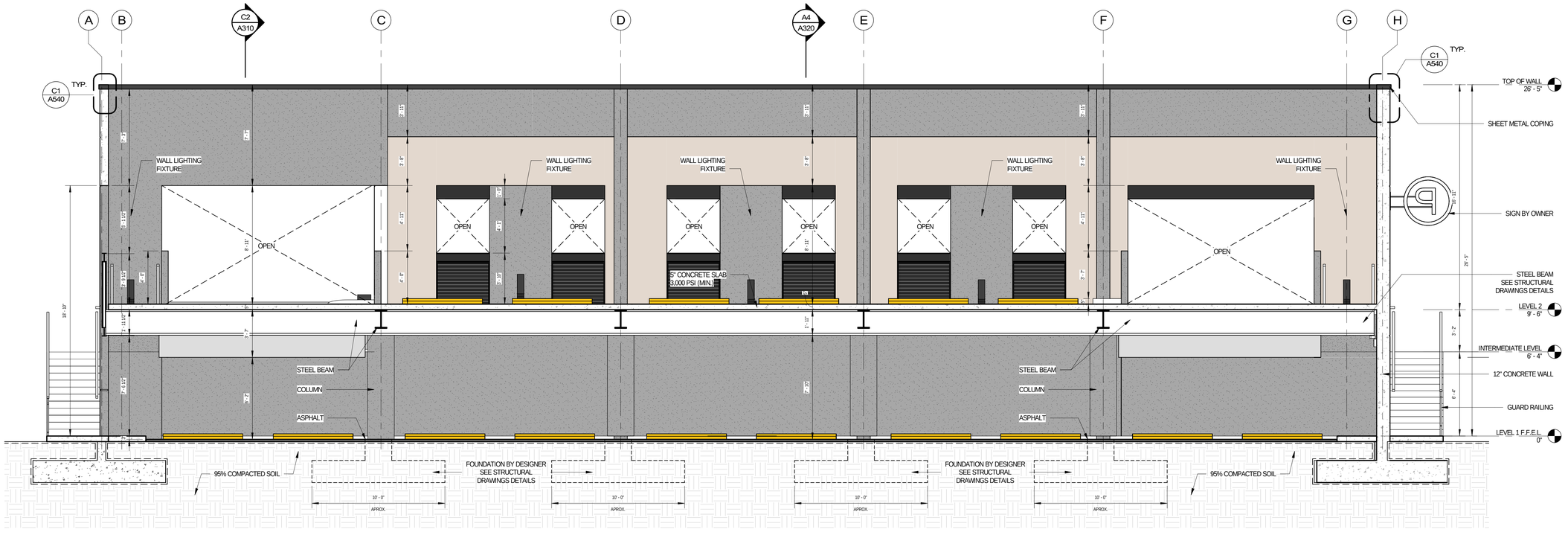
SHEET NO.:
A220

E:\01 MOA\Projects\2020\FMO\20231116 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt



C2 BUILDING CROSS SECTION

SCALE: 1/4" = 1'-0"



A1 BUILDING LONGITUDINAL SECTION

SCALE: 1/4" = 1'-0"

E:\01 MOA\Projects\2020\FMO\2023\16 JPARR01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7391 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MOA moreno orama architecture
301 zambrana ave. suite 1304
san juan, pr 00918
787-365-3362
fmorenorama@gmail.com
LICENSE NO. A-A 2 6 0 0 5 9 8 5

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
BUILDING SECTION

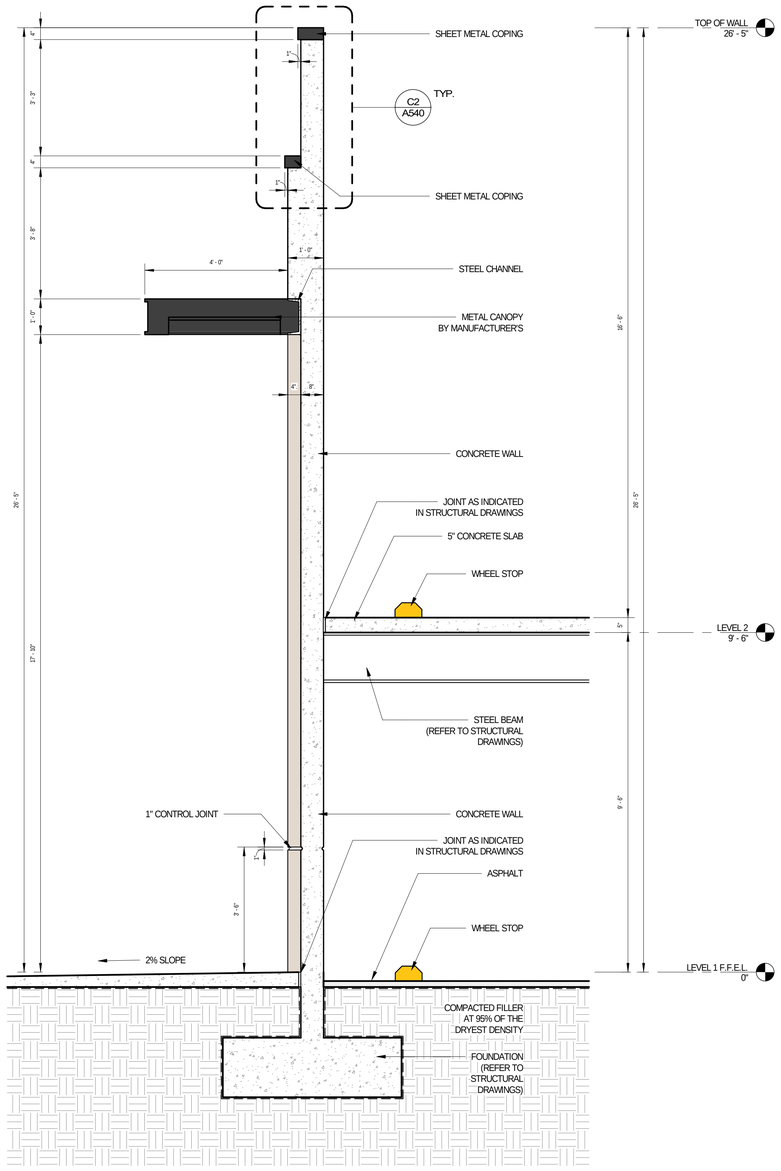
REVISIONS	SYMBOL	DATE	BY

THESE DOCUMENTS, PLANS OR SPECIFICATIONS ARE THE PROPERTY OF MORENO ORAMA ARCHITECTURE (MOA) AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF MOA. ANY UNAUTHORIZED USE OF THESE DOCUMENTS SHALL BE AT THE SOLE RISK OF THE USER AND WITHOUT LIABILITY TO MOA. ANY REPRODUCTION OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF MOA IS PROHIBITED.

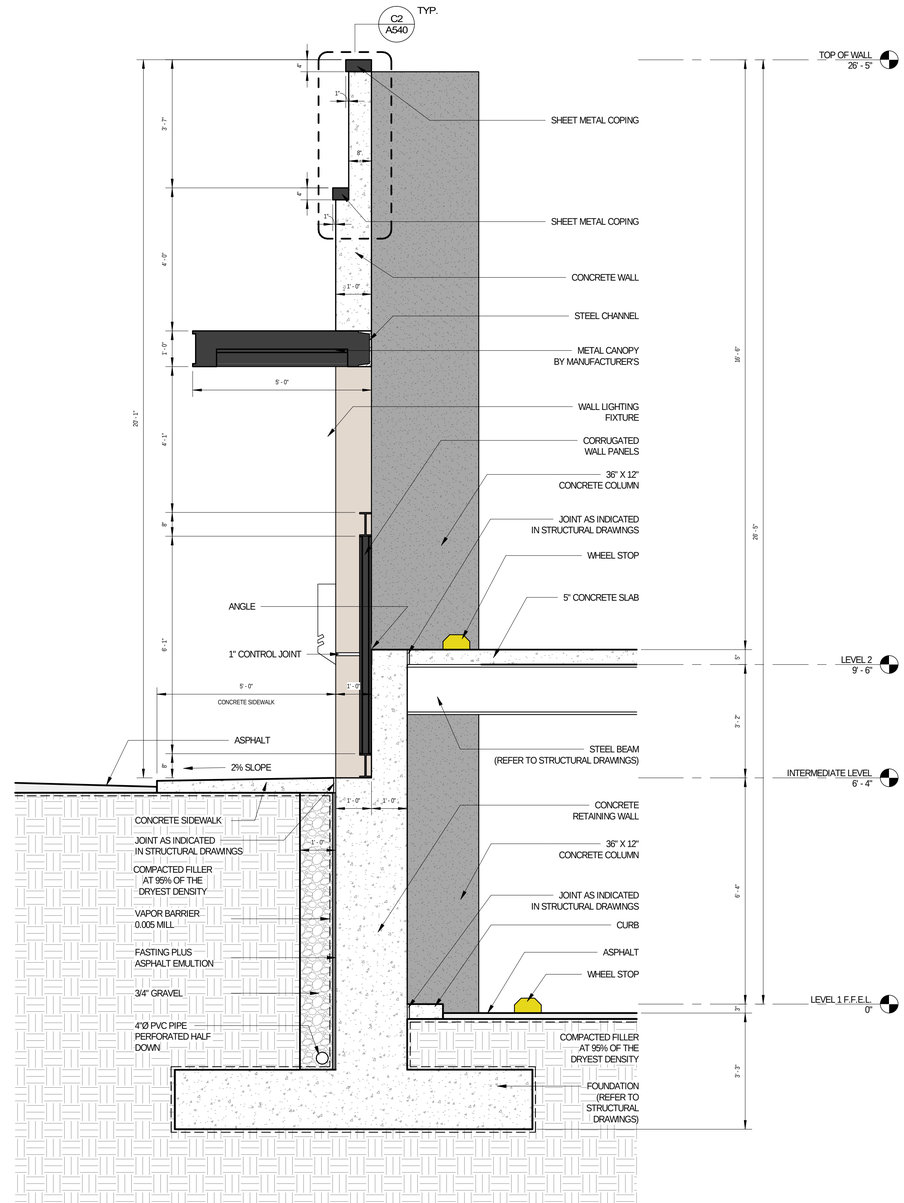
FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:43:28 PM
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
A310



A1 WALL SECTION
SCALE: 1/2" = 1'-0"



A4 WALL SECTION
SCALE: 1/2" = 1'-0"

SHEET NOTE

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
moreno orama architecture
301 zambrana ave.
viejo, pr 33 04
787 8 3 3 3 3 2
architecturemoa@gmail.com
AA 2 6 0 0 9 8 5
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
WALL SECTIONS

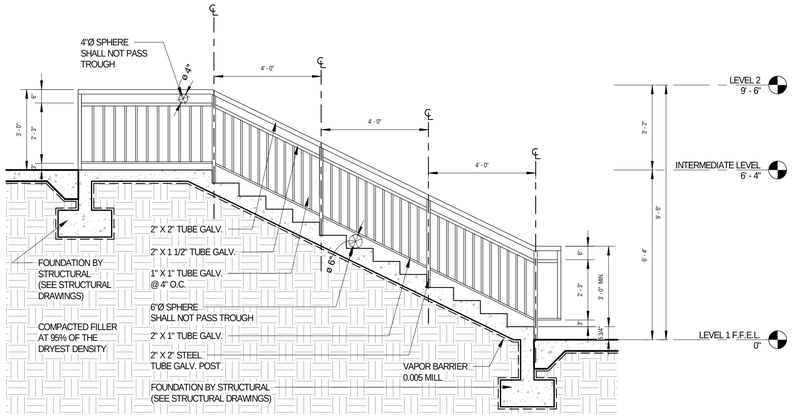
REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO
LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

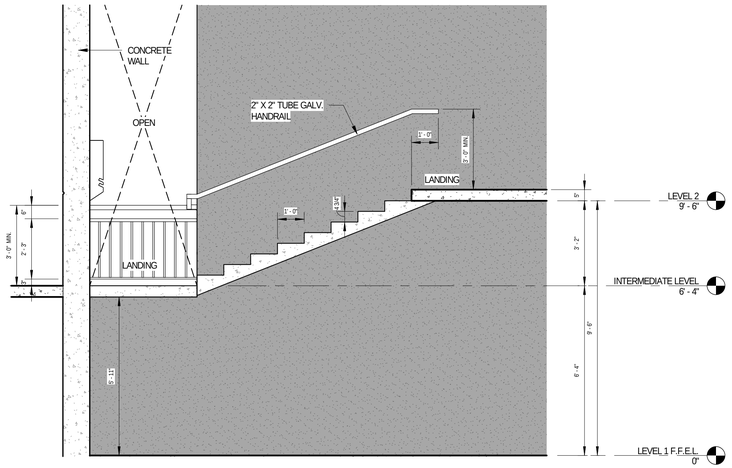
DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:43:36 PM
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
A320

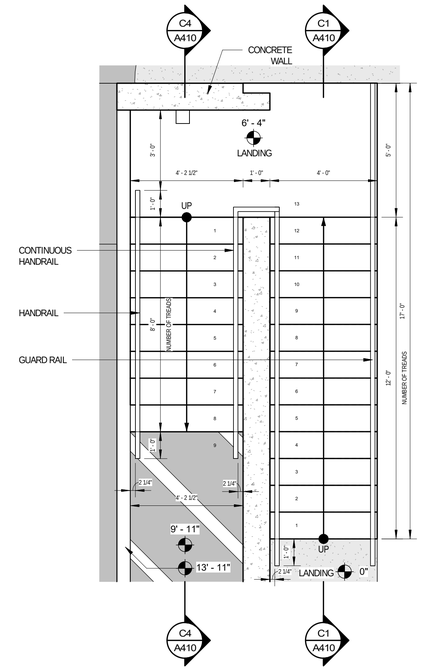
E:\01 MOA\Projects\2020\FMO\2023\16 JPARR01 RVT\2024-02-14 JPARR01 RVT\2024-02-14 JPAR2024-02-14 JPAR.rvt



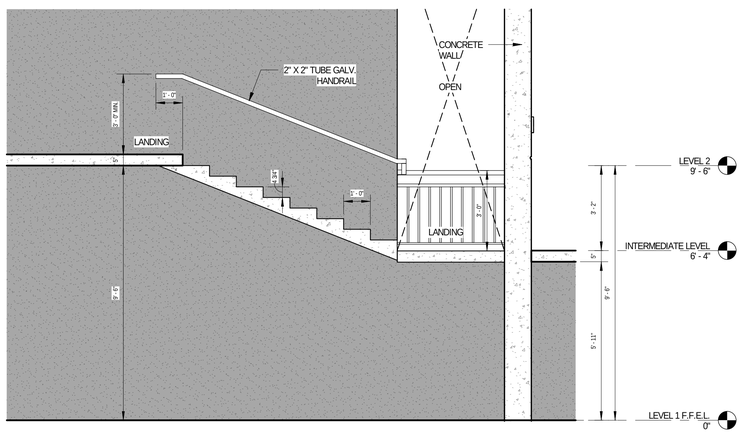
C1 STAIR SECTION
SCALE: 3/8" = 1'-0"



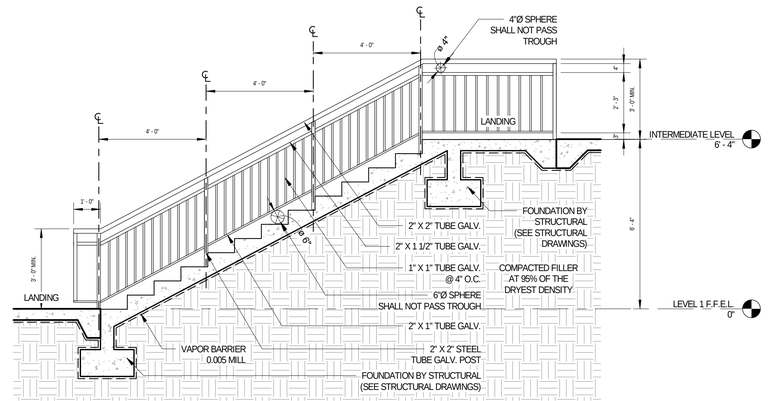
C4 STAIR SECTION
SCALE: 3/8" = 1'-0"



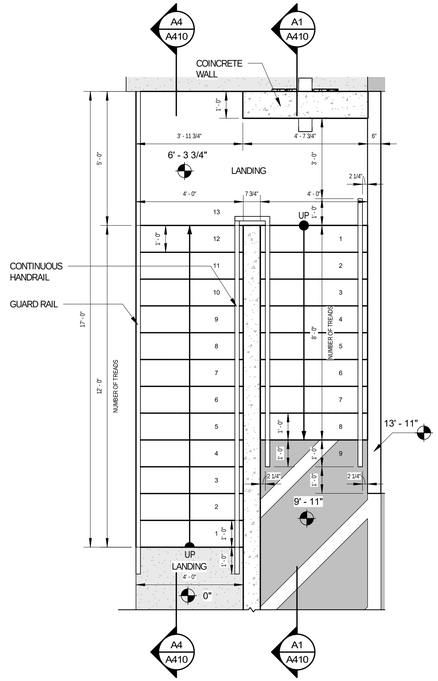
C6 WEST STAIRS BLOW-UP PLAN
SCALE: 3/8" = 1'-0"



A1 STAIR SECTION
SCALE: 3/8" = 1'-0"



A4 STAIR SECTION
SCALE: 3/8" = 1'-0"



A6 EAST STAIRS BLOW-UP PLAN
SCALE: 3/8" = 1'-0"

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MOA
moreno orama architecture
301 zambrana ave.
valrico, fl 33594
813 818 1399
fmorenorama@gmail.com
AA 26009985

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
STAIRS BLOW-UP PLANS AND SECTIONS

REVISIONS	SYMBOL	DATE	BY

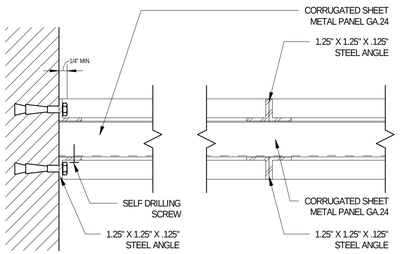
THIS SET OF DOCUMENTS, INCLUDING BUT NOT EXCLUSIVE TO, ALL DRAWINGS, SPECIFICATIONS, AND ELECTRONIC FILES, ARE PROPRIETARY AND CONFIDENTIAL. THEY ARE PREPARED FOR THE EXCLUSIVE USE OF THE CLIENT NAMED HEREIN AND ARE NOT TO BE DISCLOSED TO ANY OTHER PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF DELTORRE ENGINEERING, LLC. THEY ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF DELTORRE ENGINEERING, LLC. THE CLIENT AND ALL OTHERS ACCEPTING THESE DOCUMENTS AGREE TO INDEMNIFY AND HOLD HARMLESS DELTORRE ENGINEERING, LLC FOR ANY INJURIES, LOSSES, OR CLAIMS ARISING FROM ANY UNAUTHORIZED USE.

FRANCISCO J. MORENO ORAMA
ARQUITECTO
LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:43:48 PM
DTE PROJECT NO.:
DTE23-004

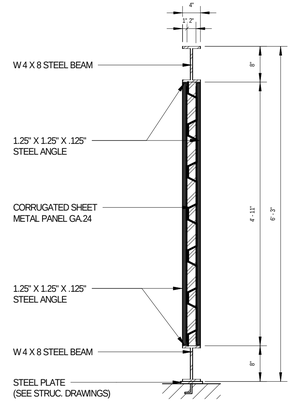
SHEET NO.:
A410

E:\01 MOA\Projects\2020\FMO\0023\16 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt



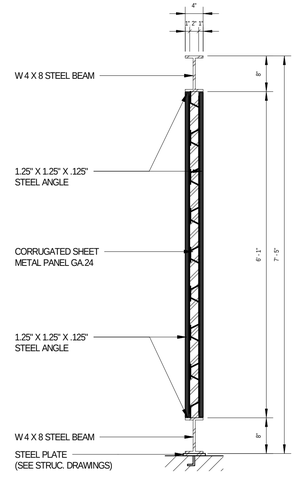
C1 CORRUGATED WALL PANEL PLAN VIEW

SCALE: 3" = 1'-0"



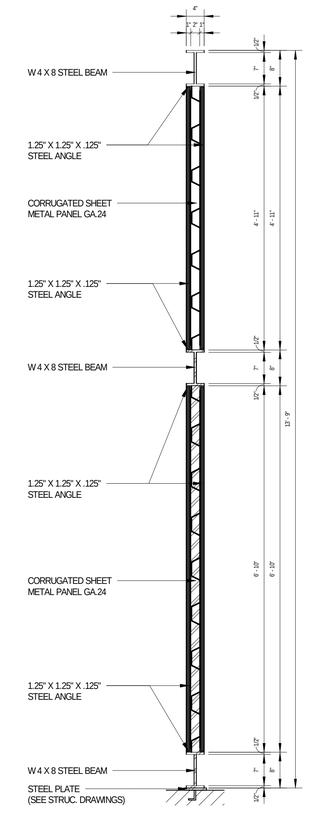
C3 CORR. WALL PANEL SECTION

SCALE: 3/4" = 1'-0"



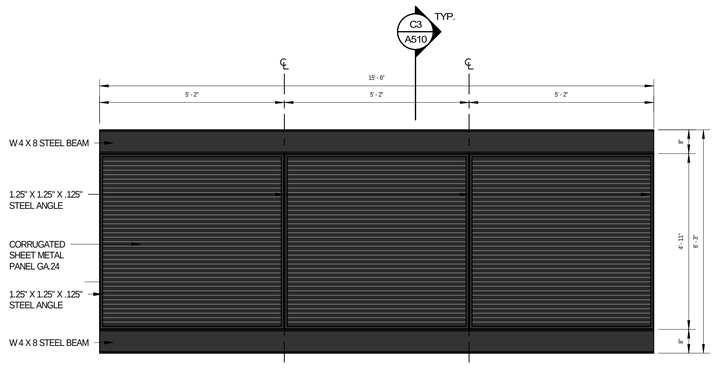
C4 CORR. WALL PANEL SECTION

SCALE: 3/4" = 1'-0"



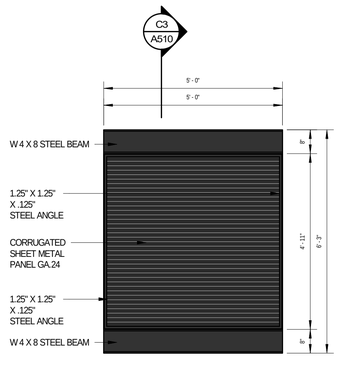
C6 CORR. WALL PANEL SECTION

SCALE: 3/4" = 1'-0"



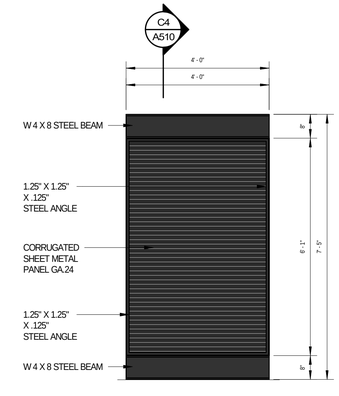
A1 CORRUGATED WALL PANEL

SCALE: 1/2" = 1'-0"



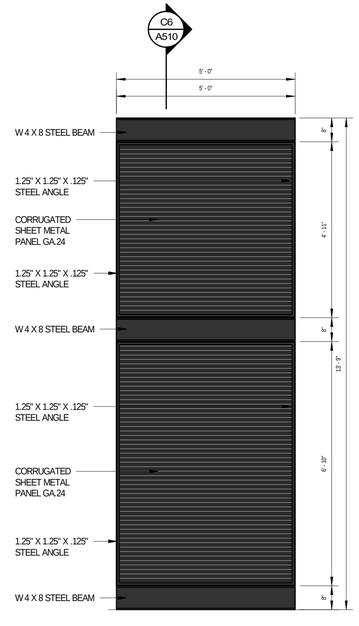
A3 CORRUGATED WALL PANEL

SCALE: 1/2" = 1'-0"



A4 CORRUGATED WALL PANEL

SCALE: 1/2" = 1'-0"



A5 CORRUGATED WALL PANEL

SCALE: 1/2" = 1'-0"

SHEET NOTE

1. HOT ROLLED STEEL SECTIONS SHALL BE A36 CARBON STEEL, UNLESS OTHERWISE NOTED.
2. SHOP PRIME STEEL SURFACES EXCEPT SURFACES TO BE FIELD WELDED AND GALVANIZED SURFACES.
3. CLEAN STEE SURFACES TO BE PAINTED AND PRIME IMMEDIATLY THEREAFTER.
4. APPLY FINISHES TO STEEL SURFACES IN CONFORMANCE TO SSPC-GUDE. GUDE FOR USE AND SELECTION OF POWDER COATING SYSTEMS FOR PROTECTIVE SURFACES.
5. SUBMIT STEEL SURFACE FINISH SCHEDULE PRODUCT DATA AND SURFACE PREPARATION GUDE FOR APPROVAL.

PRIME
DELTORRE ENGINEERING LLC
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorreeng.com
www.linkedin.com/in/deltorre

CONSULTANT
MORENO ORAMA ARCHITECTURE
3012 amberlook ct
wellington fl 33414
ph: 787.381.3372
AA 2003984
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
CORRUGATED WALL PANESL DETAILS

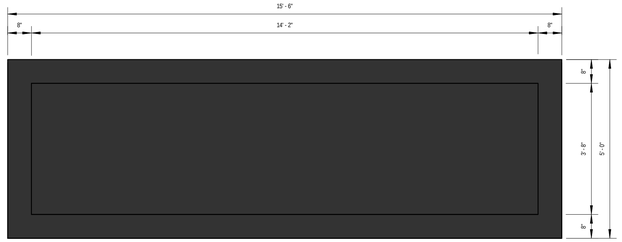
REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

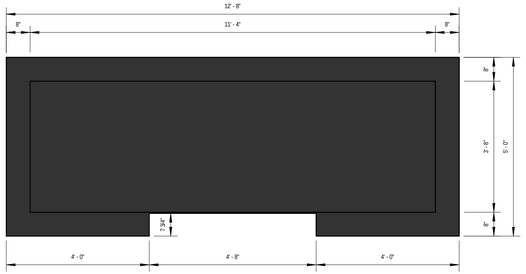
DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE: 5/29/2024 4:43:54 PM
DTE PROJECT NO.: DTE23-004
SHEET NO.: A510

E:\01 MOA\Projects\2020\FMO\2023\16 JPAR\01 RVT\2024-02-14 JPAR(2024-02-14 JPAR.rvt

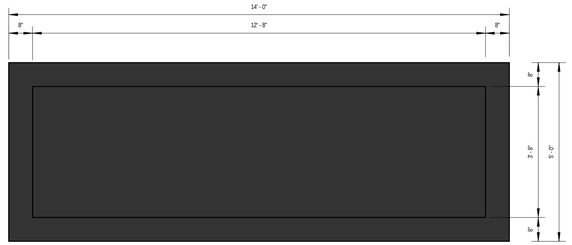
SHEET NOTES



C1 METAL CANOPY "C" BOTTOM VIEW
SCALE: 1/2" = 1'-0"



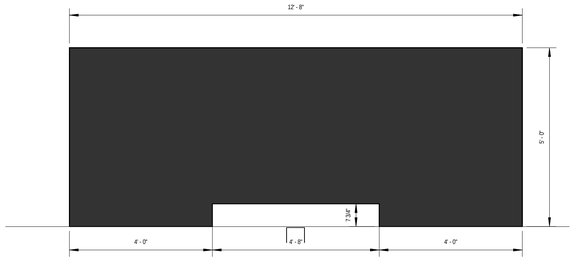
C3 METAL CANOPY "B" BOTTOM VIEW
SCALE: 1/2" = 1'-0"



C5 METAL CANOPY "A" BOTTOM VIEW
SCALE: 1/2" = 1'-0"



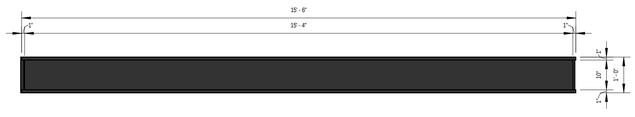
B1 METAL CANOPY "C" TOP VIEW
SCALE: 1/2" = 1'-0"



B3 METAL CANOPY "B" TOP VIEW
SCALE: 1/2" = 1'-0"



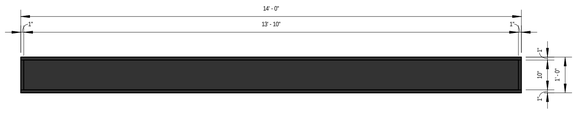
B5 METAL CANOPY "A" TOP VIEW
SCALE: 1/2" = 1'-0"



A1 METAL CANOPY "C"
SCALE: 1/2" = 1'-0"



A3 METAL CANOPY "B"
SCALE: 1/2" = 1'-0"



A5 METAL CANOPY "A"
SCALE: 1/2" = 1'-0"

E:\01 MOA\Projects\2020\FMO\2023\16 JPARR01 RVT\2024-02-14 JPARR2024-02-14 JPARR.rvt

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/in/deltorre

CONSULTANT
moreno orama architecture
301 Zambrana St.
Ponce, PR 00730
787.638.3302
architecturemoa@gmail.com
A A 2 6 0 0 9 9 8
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
METAL CANOPY DETAILS

REVISIONS	SYMBOL	DATE	BY

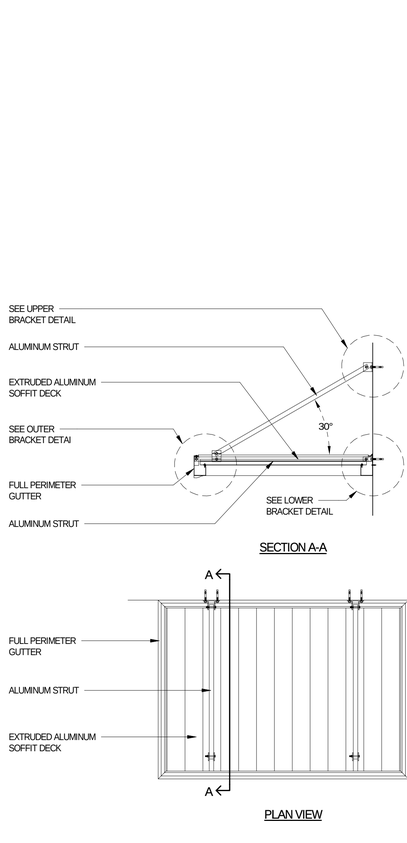
FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:44:02 PM
DTE PROJECT NO.:
DTE23-004

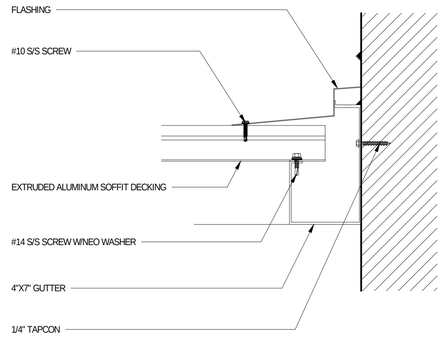
SHEET NO.:
A520

SHEET NOTES

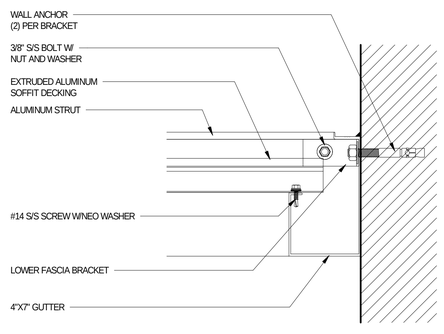
1. FINAL CANOPY DESIGN SHALL BE BY MANUFACTURER. SUBMIT FINAL SHOP DRAWINGS FOR APPROVAL.
2. ANY AND ALL SIGNAGE DEPICTED WITHIN THESE DRAWINGS ARE SCHEMATIC IN NATURE. ANY APPROVAL RECEIVED FOR THIS PLAN DOES NOT CONSTITUTE APPROVAL FOR THE CONSTRUCTION OF ANY SIGN/SIGN STRUCTURE COVERED WITHIN ORANGE COUNTY CODE SECTION 31.5. ALL PROPOSED SIGNAGE, INCLUDING SIGNAGE STRUCTURES, ARE REQUIRED TO SUBMIT A SEPARATE APPLICATION.



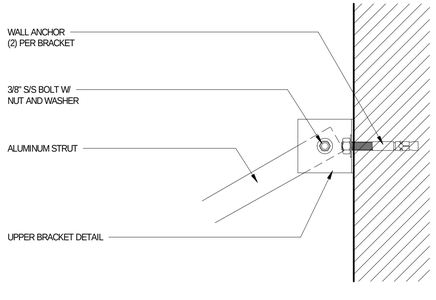
A2 SUSPENDED CANOPY
SCALE: 1/2" = 1'-0"



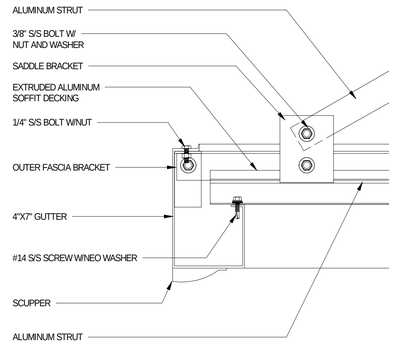
B4 FRAME-WALL CONNECTION
SCALE: 3" = 1'-0"



B5 LOWER BRACKET DETAIL
SCALE: 3" = 1'-0"



A4 UPPER BRACKET DETAIL
SCALE: 3" = 1'-0"



A5 OUTER BRACKET DETAIL
SCALE: 3" = 1'-0"

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
MORENO ORAMA ARCHITECTURE
301 Zambrana Dr.
Vanrio, PR 3304
787-438-3302
morenoramaarchitecture
AA 2600398
fmoreno rama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
METAL CANOPY SHOP
DRAWING DETAILS

REVISIONS	SYMBOL	DATE	BY

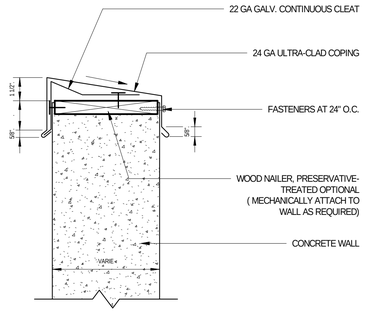
FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:44:09 PM
DTE PROJECT NO.:
DTE23-004
SHEET NO.:
A530

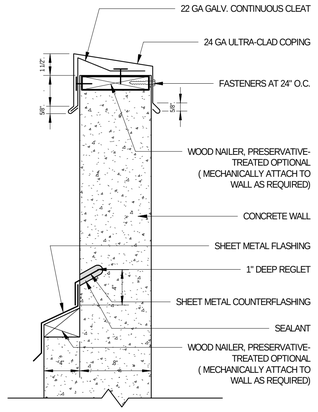
E:\01 MOA\Projects\2020\FMO\20231116 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt

SHEET NOTES

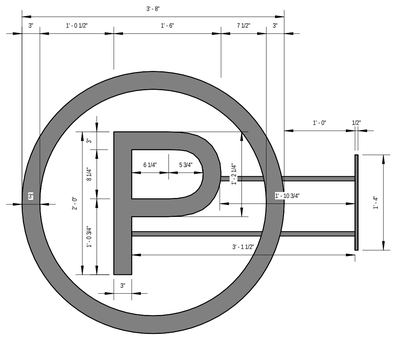
1. SIGNAGE DRAWINGS INDICATED GENERAL DESIGN FEATURE AND DIMENSIONS. SUBMIT SHOP DRAWINGS INDICATING FINAL DESIGN, CONNECTIONS, ANCHORING AND FINISHES.



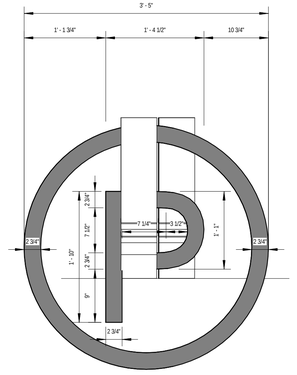
C1 SHEET METAL COPING DETAIL
SCALE: 1 1/2" = 1'-0"



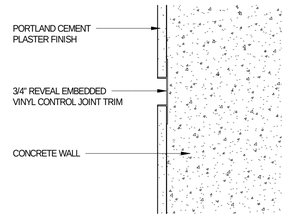
C2 SHEET METAL COPING DETAIL
SCALE: 1 1/2" = 1'-0"



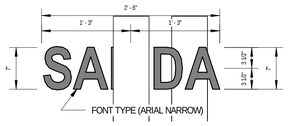
C4 SIGN DETAIL
SCALE: 1" = 1'-0"



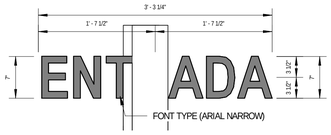
C6 SIGN DETAIL
SCALE: 1" = 1'-0"



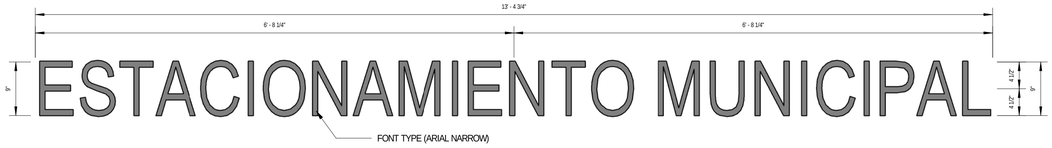
D6 TYP. CONTROL JOINT DETAIL
SCALE: 6" = 1'-0"



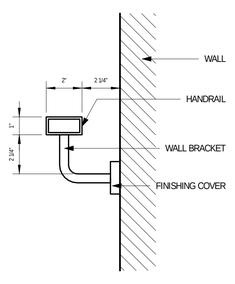
B1 SIGN DETAIL
SCALE: 1" = 1'-0"



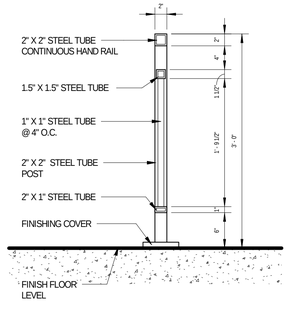
B2 SIGN DETAIL
SCALE: 1" = 1'-0"



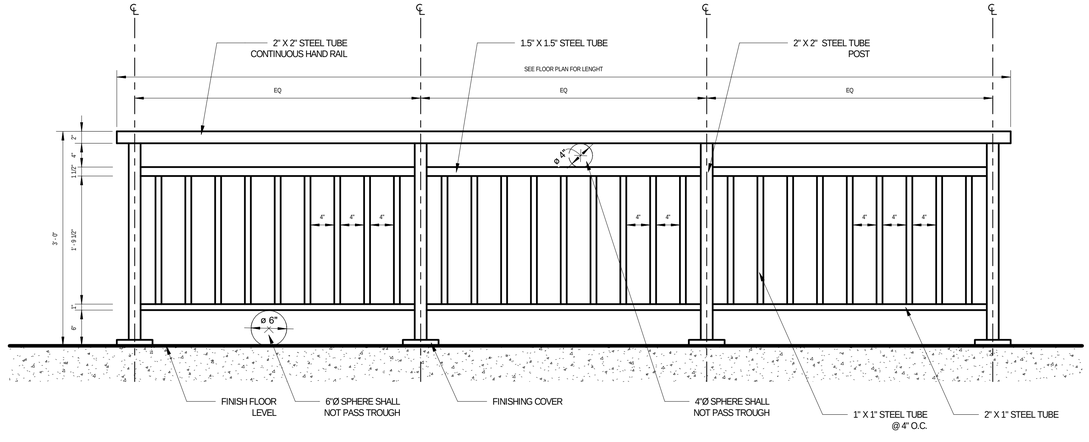
B3 SIGN DETAIL
SCALE: 1" = 1'-0"



A1 TYP. HANDRAIL DETAIL
SCALE: 3" = 1'-0"



A2 GUARD RAILING SECTION
SCALE: 1" = 1'-0"



A3 GUARD RAILING VIEW ELEVATION
SCALE: 1" = 1'-0"

DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
PRIME
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

MOA
moreno orama architecture
CONSULTANT
301 zambrana ave.
suite 1310
san juan, pr 00918
787 758 3302
architecturemoa@gmail.com
A A 2 6 0 0 9 9 8 5
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
SIGN DETAIL AND METAL CAP FLASHING DETAILS

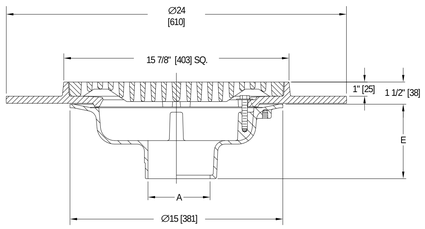
REVISIONS	SYMBOL	DATE	BY
1			
2			
3			
4			
5			

ESTOS PLANOS, ESPECIFICACIONES, DISEÑOS Y OTRO MATERIAL PREPARADO POR EL ARQUITECTO Y SUS CONSULTORES, INCLUYENDO LOS DISEÑOS ASISTIDOS POR COMPUTADORAS, SON INSTRUMENTOS DE SERVICIO PROFESIONAL PREPARADOS PARA USO EXCLUSIVO EN EL PROYECTO DESCRITO EN ESTOS PLANOS. EL ARQUITECTO RETIENE TODOS LOS DERECHOS DE AUTOR Y OTROS DERECHOS DE PROPIEDAD INTELECTUAL SOBRE ESTOS PLANOS, ESPECIFICACIONES, DISEÑOS Y MATERIAL. NO SE PERMITE EL USO, REPRODUCCIÓN, ALTERACIÓN O DISTRIBUCIÓN DE ESTOS PLANOS, ESPECIFICACIONES, DISEÑOS Y MATERIAL SIN EL CONSENTIMIENTO ESCRITO DEL ARQUITECTO. CUALQUIER USO NO AUTORIZADO, ALTERACIÓN O DISTRIBUCIÓN DE ESTOS PLANOS, ESPECIFICACIONES, DISEÑOS Y MATERIAL SERÁ EXCLUSIVAMENTE BAJO EL RIESGO DEL USUARIO Y SIN RESPONSABILIDAD PARA EL ARQUITECTO. EL USUARIO ACUERDA INDEMNIZAR Y EXIMIR AL ARQUITECTO DE TODAS LAS RECLAMACIONES, DAÑOS Y PÉRDIDAS (INCLUYENDO HONORARIOS DE ABOGADOS) QUE SURJAN DE O SEAN ATRIBUIBLES A DICHO USO NO AUTORIZADO, ALTERACIÓN O DISTRIBUCIÓN.

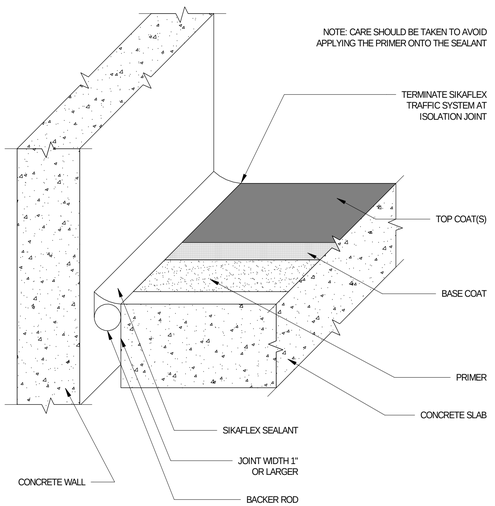
FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE: 5/29/2024 4:44:19 PM
DTE PROJECT NO.: DTE23-004
SHEET NO.: A540

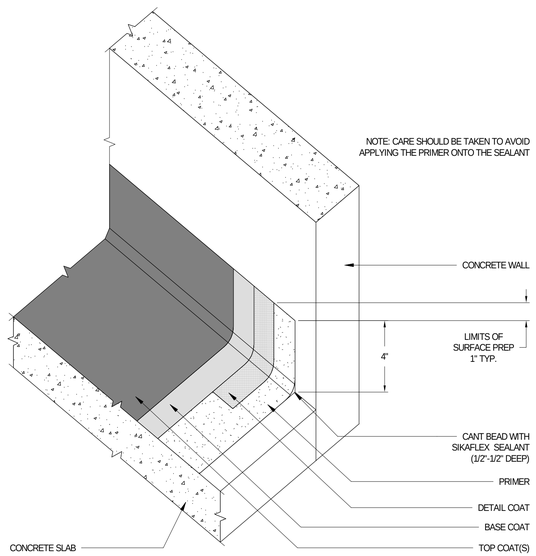
E:\01 MOA\Projects\2020\FMO\20231116 JPAR\01 RVT\2024-02-14 JPAR\2024-02-14 JPAR.rvt



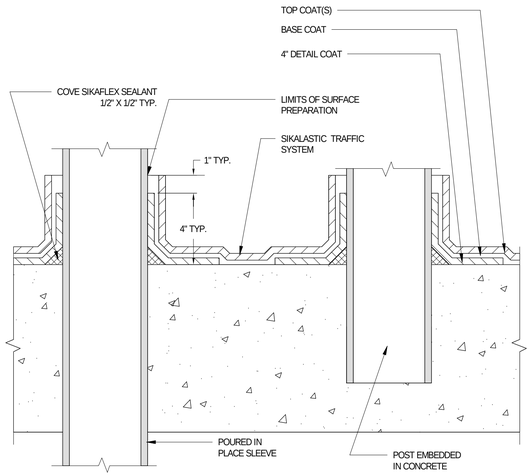
D1 DECK DRAIN DETAIL
SCALE: 3/32" = 1'-0"



C1 WALL OR SLAB ISOLATION JOINT DETAIL TYPE 2
SCALE: 3" = 1'-0"



A1 WALL OR SLAB JOINT DETAIL
SCALE: 3" = 1'-0"

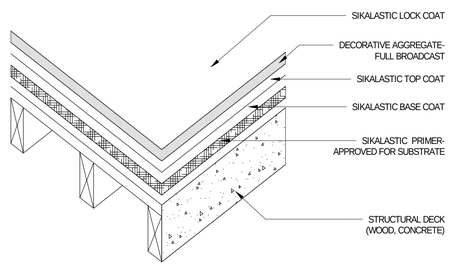


NOTE:
PROVIDE 4" DETAIL COAT AT COVE SEALANT.

C3 VERTICAL PROJECTION DETAIL
SCALE: 3" = 1'-0"

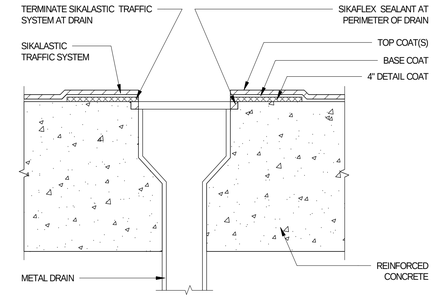
NOTES:
1) INTENDED FOR NON-REINFORCED SINGLE-COMPONENT AND TWO-COMPONENT URETHANE COATING SYSTEMS

B3 WATERPROOFING ASSEMBLY WITH UTILITY FINISH
SCALE: 3" = 1'-0"



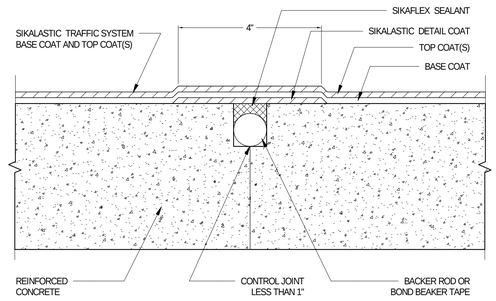
NOTES:
1) INTENDED FOR NON-REINFORCED SINGLE-COMPONENT AND TWO-COMPONENT URETHANE COATING SYSTEMS

A3 WATERPROOFING ASSEMBLY WITH AGGREGATE FINISH
SCALE: 3" = 1'-0"

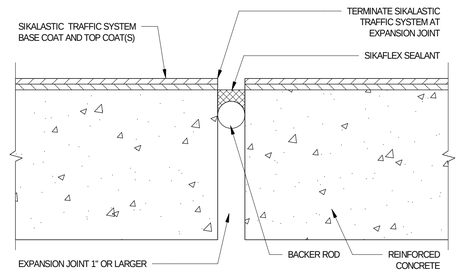


NOTE:
PROVIDE 4" DETAIL COAT AT DRAIN PERIMETER.

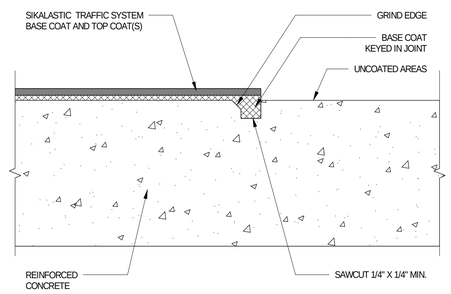
D5 DRAIN DETAIL
SCALE: 3" = 1'-0"



C5 CONTROL JOINT DETAIL
SCALE: 6" = 1'-0"



B5 EXPANSION JOINT DETAIL
SCALE: 6" = 1'-0"



A5 TERMINATION DETAIL
SCALE: 6" = 1'-0"

SHEET NOTE

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH.: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
moreno orama architecture
301 zambrana ave.
viejo, pr 00794
787.438.3262
architecturemoreno@gmail.com
fmorenorama@gmail.com
AAA 2600 9985

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
TYPICAL DETAILS

REVISIONS	SYMBOL	DATE	BY

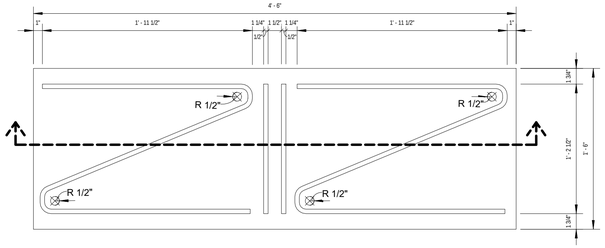
FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:44:27 PM
DTE PROJECT NO.:
DTE23-004

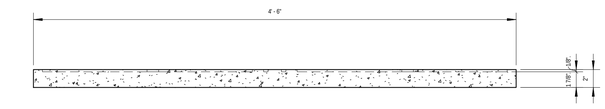
SHEET NO.:
A550

E:\01 MOA\Projects\2020\FMO\2023\16 JPPAR\01 RVT\2024-02-14 JPPAR2024-02-14 JPAR.rvt

SHEET NOTE

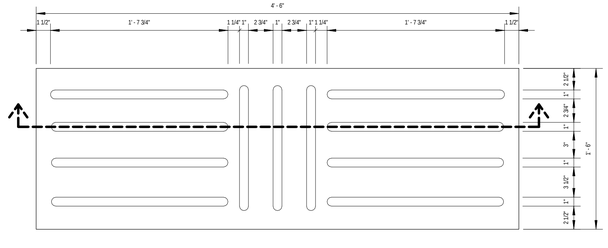


TOP VIEW

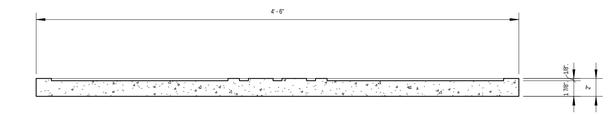


SECTION

PAVEMENT STAMP PATTERN #3

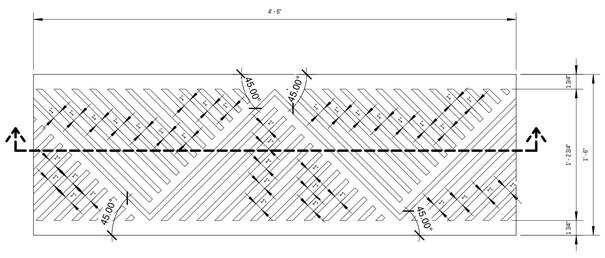


TOP VIEW

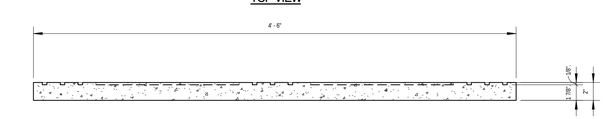


SECTION

PAVEMENT STAMP PATTERN #1

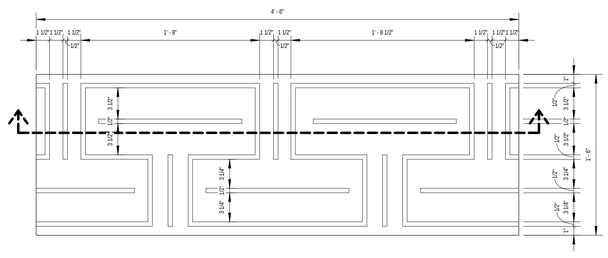


TOP VIEW

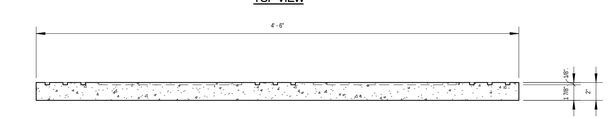


SECTION

PAVEMENT STAMP PATTERN #4



TOP VIEW



SECTION

PAVEMENT STAMP PATTERN #2

E:\01 MOA\Projects\2020\FMO\20231116 JPAR\01 RVT\20224-02-14 JPAR\20224-02-14 JPAR.rvt

PRIME

DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorreeng.com
www.linkedin.com/jdeltorre

CONSULTANT

moreno orama architecture
3012 ambercloak cr
valrico fl 33594
m: 787.381.3902
AA2003898
fmorenorama@gmail.com

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
PAVEMENT STAMP PATTERN DETAILS

REVISIONS	SYMBOL	DATE	BY

FRANCISCO J. MORENO ORAMA
ARQUITECTO LICENCIADO
LIC. #19875
EXP. 22/8/21
PUERTO RICO

DRAWN: CPB
DESIGNED: FMO
REVIEWED: J. DELGADO, P.E.
DATE:
5/29/2024 4:44:33 PM
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
A560

GENERAL NOTES:

1. CODES NOTED ON THESE DRAWINGS SHALL BE OF THE LATEST REVISION.
2. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
4. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
5. 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 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.
6. WHERE "OWNER" IS MENTIONED IN PLANS IT IS TO BE UNDERSTOOD EITHER OWNER OR HIS AUTHORIZED REPRESENTATIVE.
7. CONTRACTOR SHALL SUBMIT FOR OWNERS APPROVAL LOCATION AND DETAILS OF CONSTRUCTION JOINTS IN SLABS AND BEAMS, AND IN ANY OTHER STRUCTURAL MEMBERS.
8. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON STRUCTURAL PLANS AGAINST THE DIMENSIONS ON ARCHITECTURAL PLANS BEFORE LAYING OUT THE WORK.
9. 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.
10. 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 BEFORE THE CONCRETE IS POURED.
11. PROVISIONS FOR DETAILS NOT SPECIFICALLY DRAWN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACI-318 BUILDING CODE AND CLARIFIED WITH THE STRUCTURAL ENGINEER.
12. ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS AND INTENDED TO BY TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OTHERWISE.
13. IN CASE OF DOUBT IN THE INTERPRETATION OF ANY ASPECT OF THESE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS, THE STRUCTURAL ENGINEER SHALL BE CONSULTED.
14. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN OR OMITTED ON THE DRAWINGS.
15. NO OPENINGS, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
16. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
17. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
18. 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.
19. HORIZONTAL MOVEMENT OF ANY HEAVY EQUIPMENT OVER STRUCTURAL FLOORS OR ROOF AND ITS TEMPORARY AND/OR DEFINITE LOCATIONS MUST BE PREVIOUSLY APPROVED BY THE ENGINEER 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 MATERIALS.
20. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT 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. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
21. 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 CONDITIONS HAVE BEEN MET. IF THERE IS ANY DOUBT DURING ANY PHASE OF THE CONSTRUCTION, PLEASE CONSULT AND/OR NOTIFY THE STRUCTURAL ENGINEER.

REFERENCES:

DESIGN, FABRICATION & CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS AND PROVISIONS OF THE FOLLOWING CODES AND SPECIFICATIONS THEIR COMMENTARIES AND THE STANDARDS REFERENCED THEREIN:

1. PUERTO RICO BUILDING CODE, (PRBC)
2. AMERICAN CONCRETE INSTITUTE (ACI)
3. CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
4. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

DESIGN LOADS:

1. LIVE LOADS:
   1.1. PARKING: 100 PSF

MATERIALS:

1. READY MIXED CONCRETE SHALL HAVE A MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH, CONFORMING TO ASTM C-94, AS FOLLOWS:
   1.1. 5,000 PSI FOR FOUNDATIONS AND COLUMNS
   1.2. 4,000 PSI FOR PARKING SLAB
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II.
3. NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C-33.
4. FLY ASH SHALL CONFORM TO ASTM C-618, CLASS F AND IT'S ADDITION SHALL NOT EXCEED 15% OF THE CEMENT WEIGHT.
5. ALL REINFORCING BARS SHALL BE HIGH TENSILE DEFORMED MEETING ASTM A-615 GRADE 60, UNLESS NOTED OTHERWISE ON SPECS AND/OR DRAWINGS.
6. MORTAR SHALL CONFORM TO ASTM C-270.

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.
2. THE TESTING AGENCY SHALL BE LICENSED IN PUERTO RICO AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN PUERTO RICO.
3. 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.
4. SEE TECHNICAL SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR QUALITY ASSURANCE TESTING AND INSPECTION OF:
   CONCRETE ACI-318
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 SCHEDULING 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 OWNER & BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND FOR TEN YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT TESTING AGENCY.

CAST IN PLACE REINFORCED CONCRETE:

1. CONTRACTOR SHALL SUBMIT, PRIOR TO INSTALLATION ALL REINFORCING STEEL SHOP DRAWINGS. SHOP DRAWINGS SHALL BE SEALED & SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN PUERTO RICO.
2. CONCRETE ITEMS AND REINFORCEMENT SHALL BE ERECTED IN STRICT ACCORDANCE WITH OWNER APPROVED SHOP AND ERECTION DRAWINGS FOLLOWING THE DETAILS SHOWN ON PLANS.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PRODUCE CORRECTLY ALIGNED CONCRETE CONSIDERING AMONG OTHER THINGS, THE ELASTIC DEFORMATION OF THE STRUCTURAL MEMBERS.
4. AT HORIZONTAL JOINTS IN WALLS AND COLUMNS, THE LOWER SURFACE SHALL BE THROUGHLY 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.
5. NO DEFECTIVE CONCRETE SHALL BE CORRECTED OR COVERED WITH MORTAR, PLASTER ETC. WITHOUT THE INSPECTORS' APPROVAL.
6. SLUMP OF CONCRETE SHALL NOT EXCEED 4" UNLESS A HIGHRANCE 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".
7. THE NOMINAL MAXIMUM AGGREGATE SIZE SHALL BE A MINIMUM OF 3/4".
8. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH 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 CERTIFIED BY A REGISTERED ENGINEER.
9. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:
   9.1. UNFORMED SURFACE IN CONTACT WITH THE GROUND 3 IN.
   9.2. FORMED SURFACES EXPOSED TO EARTH OR WEATHER:
   9.2.1. #6 BARS AND LARGER 2 IN.
   9.2.2. #5 BARS AND SMALLER 1½ IN.
   9.3. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
   9.3.1. BEAMS, GIRDERS, AND COLUMNS 1½ IN.
   9.3.2. SLABS, WALLS AND JOISTS:
   9.3.2.1. #11 BARS AND SMALLER ¾ IN.
   9.3.2.2. #14 AND #18 BARS 1½ IN.
10. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH ACI DETAILING MANUAL (SP-66) AND "THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" BY THE CRSI.
11. 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 STANDARD PRACTICE".
12. CONCRETE WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES.
13. ALL SYMBOLS AND STRESSES AS WELL AS CONCRETE WORK SHALL CONFORM TO THE STANDARD OF THE AMERICAN CONCRETE INSTITUTE (ACI-318).
14. ALL SLAB AND CORRESPONDING BEAMS, CURBS, OR APRONS SHALL BE POURED MONOLITHICALLY.
15. ALL REINFORCING, SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE WELL SECURED AND IN PLACE BEFORE CONCRETE IS POURED.
16. TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN ALL ONE WAY SLAB NORMAL TO THE PRINCIPAL REINFORCEMENT IN ACCORDANCE WITH ACI-318 BUILDING CODE.
17. TEMPERATURE REINFORCEMENT SHALL BE AS FOLLOWS:(UNLESS NOTED OTHERWISE)
   17.1. t = 4" #3 @ 12"
   17.2. t = 5" #3 @ 12"
   17.3. t = 6" #3 @ 10"
18. FOR CONCRETE FORMWORK, SURFACE FINISHING, BEVELED CORNERS AND DRIPS, SEE ARCHITECTURAL PLANS.
19. CONCRETE FORMWORK SHALL CONFORM TO ACI 347.
20. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARDS 304 & 305.
21. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL 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.
22. 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.
23. ALL CAST IN PLACE REINFORCED CONCRETE STRUCTURAL MEMBERS SHALL BE PROPERLY CURED IN ACCORDANCE WITH ACI-318 CHAPTER V AND ACI 308.
24. ALL LAPPING, BENDING AND PLACING OR REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH ACI-318 BUILDING CODE.
25. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
26. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED..
27. NO JOINT, OPENING, SLOT OR GROOVE OTHER THAN THAT SHOWN ON DRAWINGS SHALL BE PERMITTED WITHOUT PREVIOUS APPROVAL BY THE ENGINEER. ALL CONSTRUCTION JOINT SURFACES SHALL BE CLEANED AND ROUGHENED IMMEDIATELY BEFORE CONCRETING AND TREATED AS INSTRUCTED IN THE "ACI MANUAL OF CONCRETE PRACTICE".
28. CONDUIT OF PIPE SIZE (O.D.) SHALL NOT EXCEED 30 PERCENT OF TOTAL SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP & BOTTOM REINFORCEMENT, UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.
29. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCEMENT BAR WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED U.N.O.
30. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, U.N.O.; WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICE.

SPLICES TABLE (GRADE 60)

BAR SIZE	f'c (psi)	TENSION: TOP BARS SPLICE CLASS A	TENSION: TOP BARS SPLICE CLASS B	TENSION: OTHER BARS SPLICE CLASS A	TENSION: OTHER BARS SPLICE CLASS B	COMPRESSION: SPLICE
#4	3,000	29"	38"	22"	29"	12"
	4,000	25"	33"	19"	25"	12"
	5,000	23"	29"	17"	23"	12"
#5	3,000	36"	47"	28"	36"	14"
	4,000	31"	41"	24"	31"	12"
	5,000	28"	36"	22"	28"	12"
#6	3,000	43"	56"	33"	43"	17"
	4,000	37"	49"	29"	37"	15"
	5,000	34"	43"	26"	34"	14"

COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS LAP
WELDED WIRE FABRIC: ONE SPACING OF CROSS WIRES PLUS 2"

f'c (psi) @ 28 DAYS	WATER-CEMENT RATIO BY WEIGHT: NON-AIR ENTRAINED CONCRETE	AIR ENTRAINED CONCRETE
4,000	0.55	0.45
3,500	0.58	0.50
3,000	0.62	0.56
2,500	0.72	0.66

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
AJQ ENGINEERS, P S C
CONSULTING ENGINEERS
CEL (787) 568-8215
ajq@caribe.net
209 URB. LA SERRANIA
CAGUAS, PR 00725

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

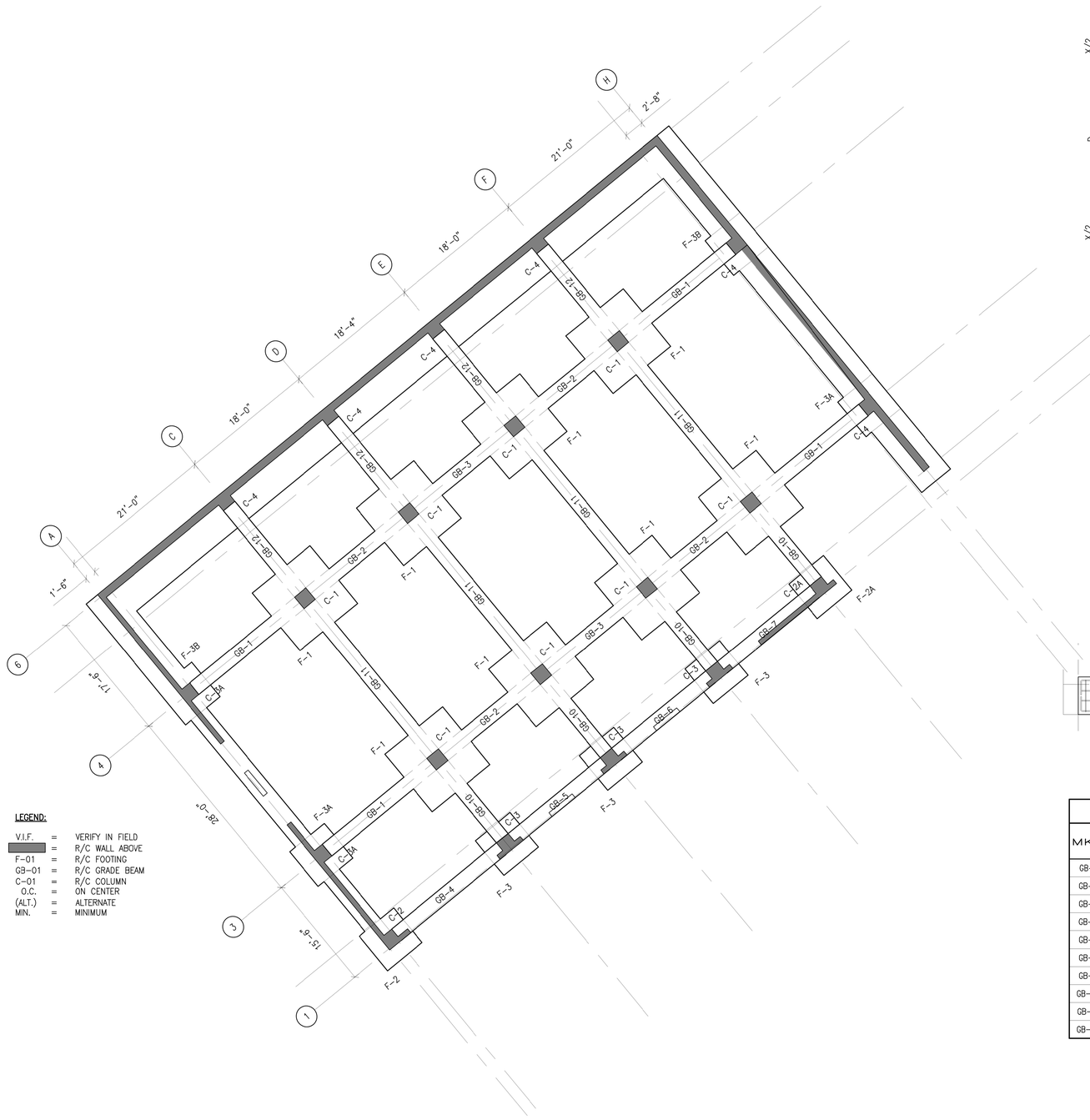
SHEET NAME
GENERAL & STRUCTURAL NOTES, MISCELLANEOUS SECTIONS AND DETAILS

EL DISEÑO Y DIBUJOS, DISEÑOS DE LOSADA, MAPA, DISEÑOS QUE SON EL PROPIEDAD DE CONSULTORES Y LOS DERECHOS AJQ ENGINEERS, PSC, ESTÁN PROTEGIDOS POR LAS LEYES DE DERECHOS DE AUTOR Y OTRAS LEYES APLICABLES. PARTE ELECTRICO, DISEÑO INTERIOR, LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN, LAS NORMAS DE LA INDUSTRIA Y LAS RECOMENDACIONES DE LOS FABRICANTES. EL USO O REPRODUCCIÓN NO AUTORIZADA DE ESTOS DISEÑOS, DIBUJOS Y ESPECIFICACIONES, O CUALQUIERA DE LAS IDEAS EN ELLOS INCORPORADAS, CONSTITUIRÁ UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR DEL AUTOR Y DE LOS DERECHOS DE PROPIEDAD INTELECTUAL DE LOS CONSULTORES. EL USO NO AUTORIZADO DE ESTOS DISEÑOS, DIBUJOS Y ESPECIFICACIONES, O CUALQUIERA DE LAS IDEAS EN ELLOS INCORPORADAS, CONSTITUIRÁ UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR DEL AUTOR Y DE LOS DERECHOS DE PROPIEDAD INTELECTUAL DE LOS CONSULTORES. EL USO NO AUTORIZADO DE ESTOS DISEÑOS, DIBUJOS Y ESPECIFICACIONES, O CUALQUIERA DE LAS IDEAS EN ELLOS INCORPORADAS, CONSTITUIRÁ UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR DEL AUTOR Y DE LOS DERECHOS DE PROPIEDAD INTELECTUAL DE LOS CONSULTORES.

SYMBOL	DATE	BY
REVISIONS		
-	2024-05-28	AJQ
DFE - NOT FOR CONSTRUCTION		

DRAWN: AJQ
DESIGNED: A. JIMENEZ, P.E.
REVIEWED: J. DELGADO, P.E.
DATE: May 28, 2024
DTE PROJECT NO.: DTE23-004
SHEET NO.: S-000

G:\Full Backup\Administrative\Clients\DelTorre Engineering LLC\CRP-000048 Estacionamiento Calle Libertad - Jayuya\2024 New Layout\Dwgs\STR-NEW-2.dwg, 5/28/2024 3:38:47 PM
G:\Full Backup\Administrative\Clients\deltorre engineering llc\crp-000048 estacionamiento calle libertad - jayuya\2024 new layout\dwgs\str-new-2.dwg

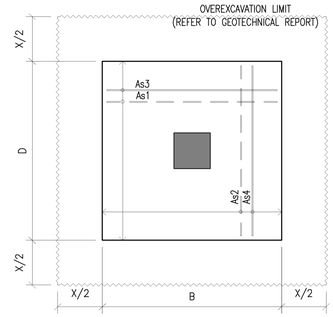


LEGEND:

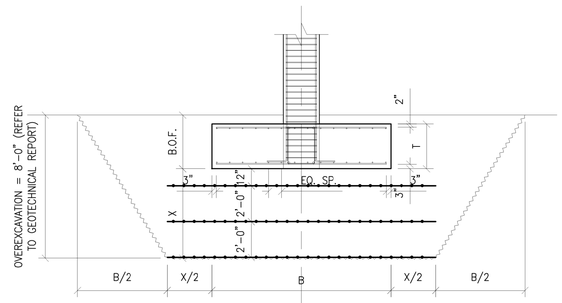
V.I.F.	=	VERIFY IN FIELD
	=	R/C WALL ABOVE
F-01	=	R/C FOOTING
GB-01	=	R/C GRADE BEAM
C-01	=	R/C COLUMN
O.C.	=	ON CENTER
(ALT.)	=	ALTERNATE
MIN.	=	MINIMUM

FOUNDATION LAYOUT PLAN
SCALE: 1/8" = 1'-0"

NORTH



PLAN



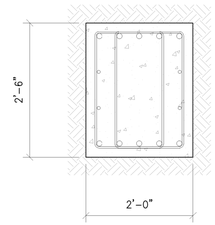
ELEVATION

FOOTING SCHEDULE

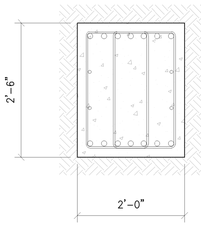
MKD	B.O.F.	SIZE			f'c (psi)	REINFORCEMENT			
						BOTTOM		TOP	
		B	D	T		As1	As2	As3	As4
F-1	3'-0"	10'-0"	10'-0"	2'-6"	6,000	(14) #8	(14) #8	(14) #8	(14) #8
F-2	3'-0"	6'-0"	6'-0"	2'-0"	6,000	(9) #8	(9) #8	(9) #8	(9) #8
F-2A	3'-0"	6'-0"	6'-0"	2'-0"	6,000	(9) #8	(9) #8	(9) #8	(9) #8
F-3	3'-0"	6'-0"	6'-0"	2'-0"	6,000	(9) #8	(9) #8	(9) #8	(9) #8
F-3A	3'-0"	6'-0"	6'-0"	2'-0"	6,000	(9) #8	(9) #8	(9) #8	(9) #8
F-3B	3'-0"	6'-0"	6'-0"	2'-0"	6,000	(9) #8	(9) #8	(9) #8	(9) #8

GRADE—BEAM REINFORCEMENT SCHEDULE

MKD	REINFORCEMENT BARS					HOOPS			REMARKS
	"A"	"B"	"C"	"D"	"E"	S1	S2	S3	
GB-1	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(2) #10	(2) #10 x 20'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-2	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-3	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-4	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(2) #10	(2) #10 x 20'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-5	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-6	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-7	(3) #10 CONT.	(3) #10 CONT.		(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-10	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100
GB-11	(3) #10 CONT.	(3) #10 CONT.	–	(4) #10	(4) #10 x 20'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 2/S-100
GB-12	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-100



SECTION 1/S-100
SCALE: 3/4" = 1'-0"



SECTION 2/S-100
SCALE: 3/4" = 1'-0"

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
AJQ ENGINEERS, P S C
CONSULTING ENGINEERS
CEL (787) 568-8215
ajq@caribe.net
209 URB. LA SERRANIA
CAGUAS, PR 00725

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
FOUNDATIONS LAYOUT PLAN, SCHEDULES, SECTIONS AND DETAILS

EL MISMO, A MENOS, QUE SEA LICENCIA PARA USO ESPECIFICO POR ESCRITO POR EL PROFESIONAL QUE CONTRATO LOS SERVICIOS PARA ESTE PROYECTO. ESTE DOCUMENTO ES PROPIEDAD INTELECTUAL DEL PROFESIONAL QUE LO PREPARO Y SE PROTEGE BAJO LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE PROPIEDAD INTELECTUAL VIGENTES EN PUERTO RICO Y LOS ESTADOS UNIDOS. ESTE DOCUMENTO NO PUEDE SER REPRODUCIDO, PUBLICADO O DISTRIBUIDO POR CUALQUIER MEDIO, TOTAL O PARCIALMENTE, SIN EL CONSENTIMIENTO ESCRITO DEL PROFESIONAL QUE LO PREPARO. EL USO NO AUTORIZADO Y/O LA REPRODUCCION TOTAL O PARCIAL DE ESTE DOCUMENTO, SIN LA AUTORIZACION ESCRITA DEL PROFESIONAL QUE LO PREPARO, CONSTITUYE UNA VIOLACION A LOS DERECHOS DE AUTOR Y OTRAS LEYES APLICABLES.

REVISIONS	SYMBOL	DATE	BY
1.	1	2024-05-28	AJQ
DATE - NOT FOR CONSTRUCTION			

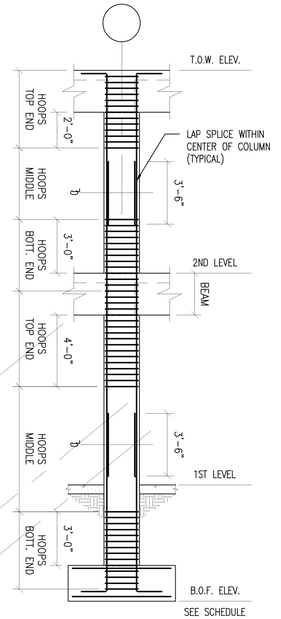
DRAWN: AJQ
DESIGNED: A. JIMENEZ, P.E.
REVIEWED: J. DELGADO, P.E.
DATE:
May 28, 2024
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
S-100

G:\Full Backup\Administrative\Clients\DelTorre Engineering LLC\CRP-000048 Estacionamiento Calle Libertad - Jayuya\2024 New Layout\Dwgs\STR-NEW-2.dwg, 5/28/2024 3:38:53 PM
G:\Full Backup\Administrative\Clients\DelTorre engineering llc\crp-000048 estacionamiento calle libertad - jayuya\2024 new layout\dwgs\str-new-2.dwg

TYPICAL SIDEWALK DETAIL
SCALE: 3/4"=1'-0"

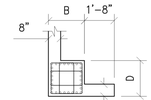




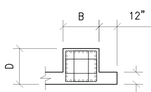
PARTIAL COLUMN ELEVATION
SCLAE:1/4"=1'-0"



C-1



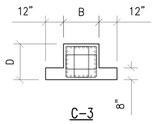
C-2



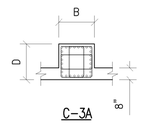
C-2A

COLUMN SCHEDULE

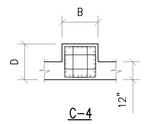
MK'D.	SIZE		REINFORCEMENT				LEVEL	f'c (psi)
			VERT. REINF.	HOOPS				
	B	D		BOTT. END	AT MIDDLE	TOP END		
C-1	2'-0"	2'-0"	(28) #8	(30) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	FDN. TO 2nd LEVEL	6,000
	–	–	–	–	–	–	2nd TO T.O.W.	–
C-2	2'-0"	2'-0"	(28) #7	(30) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	FDN. TO 2nd LEVEL	6,000
	2'-0"	2'-0"	(28) #7	(20) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	2nd TO T.O.W.	5,000
C-2A	2'-0"	2'-0"	(28) #7	(30) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	FDN. TO 2nd LEVEL	6,000
	2'-0"	2'-0"	(28) #7	(20) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	2nd TO T.O.W.	5,000
C-3	2'-0"	2'-0"	(28) #8	(30) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	FDN. TO 2nd LEVEL	6,000
	2'-0"	2'-0"	(28) #8	(20) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	2nd TO T.O.W.	5,000
C-3A	2'-0"	2'-0"	(28) #7	(30) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	FDN. TO 2nd LEVEL	6,000
	2'-0"	2'-0"	(28) #7	(20) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	2nd TO T.O.W.	5,000
C-4	2'-0"	2'-0"	(28) #6	(30) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	FDN. TO 2nd LEVEL	6,000
	2'-0"	2'-0"	(28) #6	(20) #3 @ 4"	#3 @ 8" THROUGH	(20) #3 @ 4"	2nd TO T.O.W.	5,000



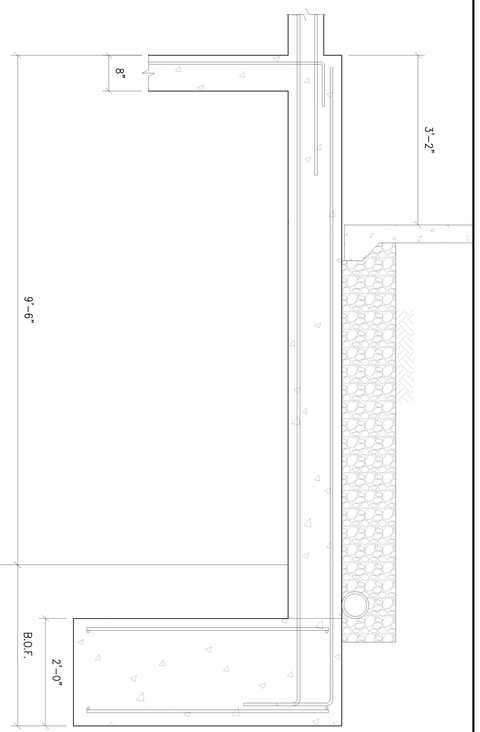
C-3



C-3A



C-4

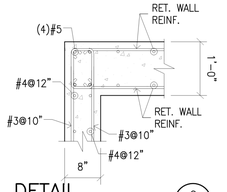


SECTION
SCALE: 3/4" = 1'-0"
1 S-110

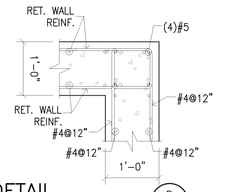
SLAB-ON-GRADE LAYOUT PLAN
SCALE: 1/8" = 1'-0"

DETAIL
SCALE: 3/4" = 1'-0"
A S-110

DETAIL
SCALE: 3/4" = 1'-0"
B S-110



DETAIL
SCALE: 3/4" = 1'-0"
C S-110



DETAIL
SCALE: 3/4" = 1'-0"
D S-110

SECTION
SCALE: 3/4" = 1'-0"
1 S-110

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH:787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
AJQ ENGINEERS, P S C
CONSULTING ENGINEERS
CEL (787) 568-8215 209 URB. LA SERRANIA
ajq@caribe.net CAGUAS, PR 00725

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
SLAB-ON-GRADE LAYOUT PLAN,
SCHEDULES, SECTIONS AND DETAILS

A. AYUSO, A. JIMENEZ, A. OLIVERA, A. RIOS, ESTADO MAS SOY EL PROFESIONAL QUE CONFECCIONO Y/O DISEÑO Y/O SUPERVISO LOS PLANOS, ESPECIFICACIONES, INFORMES Y/O MEMORIAL DESCRIPTIVO SOMETIDOS POR ESTE MEDIO Y QUE LOS MISMOS CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTES EN PUERTO RICO Y LAS REGLAMENTACIONES PROMULGADAS POR LAS CORPORACIONES PUBLICAS Y/O AGENCIAS GUBERNAMENTALES QUE TENGAN JURISDICCION SOBRE ESTA CLASIFICACION DE LOS MISMOS QUE SE HAYA PRODUCIDO POR CUALQUIER CAMBIO, ALTERACION O MODIFICACION REALIZADA A DICHOS PLANOS, ESPECIFICACIONES, INFORMES Y/O MEMORIAL DESCRIPTIVO SIN MI CONSENTIMIENTO Y APROBACION POR ESCRITO.

REVISIONS	SYMBOL	DATE	BY
PER - ADT FOR CONSTRUCTION	A	2024-05-28	AJQ

DRAWN: AJQ
DESIGNED: A. JIMENEZ, P.E.
REVIEWED: J. DELGADO, P.E.
DATE:
May 28, 2024
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
S-110

G:\Full Backup\Administrative\Clients\DelTorre Engineering LLC\CRP-000048 Estacionamiento Calle Libertad - Jayuya\2024 New Layout\Dwgs\STR-NEW-2.dwg, 5/28/2024 3:38:58 PM
p:\Full Backup\Administrative\Clients\deltorre engineering pr\crp-000048 estacionamiento calle libertad - jayuya\2024 new layout\dwgs\str-new-2.dwg



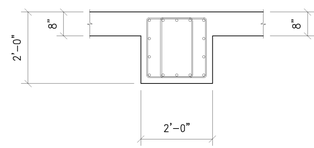
LEGEND:

V.I.F.	=	VERIFY IN FIELD
	=	BOTTOM BAR
	=	TOP BAR
	=	R/C WALL BELOW
	=	R/C WALL ABOVE & BELOW
BM-01	=	R/C BEAM
O.C.	=	ON CENTER
(ALT.)	=	ALTERNATE
MIN.	=	MINIMUM

2ND LEVEL FRAMING PLAN

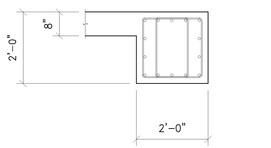
SCALE: 1/8" = 1'-0"

NORTH



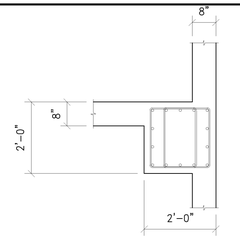
SECTION 1 S-120

SCALE: 1/2" = 1'-0"



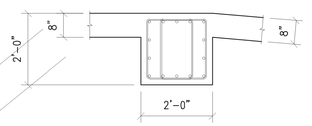
SECTION 2 S-120

SCALE: 1/2" = 1'-0"



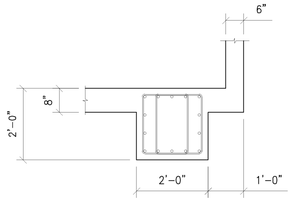
SECTION 3 S-120

SCALE: 1/2" = 1'-0"



SECTION 4 S-120

SCALE: 1/2" = 1'-0"

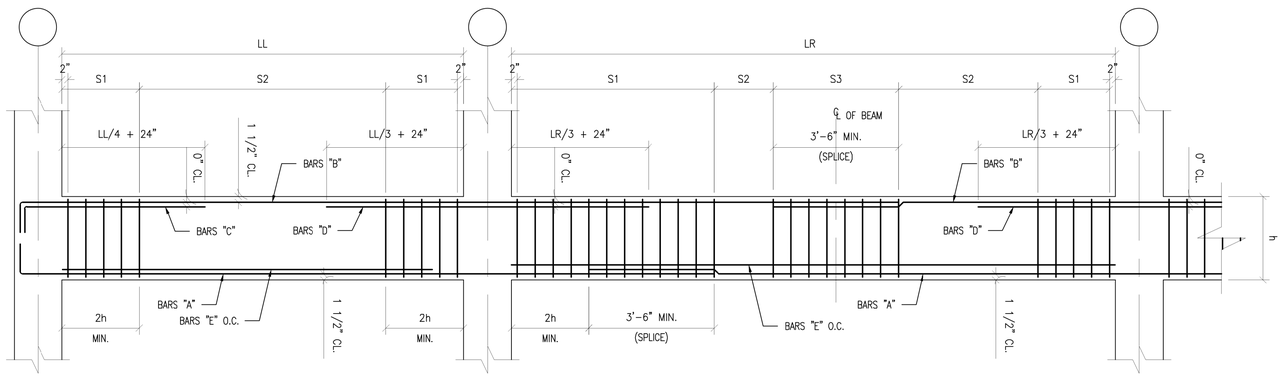


SECTION 5 S-120

SCALE: 1/2" = 1'-0"

BEAM REINFORCEMENT SCHEDULE

MKD	REINFORCEMENT BARS					HOOPS			REMARKS
	"A"	"B"	"C"	"D"	"E"	S1	S2	S3	
BM-1	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(2) #10	(2) #10 x 20'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-120
BM-2	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-120
BM-3	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-120
BM-4	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(2) #10	(2) #10 x 20'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 4/S-120
BM-5	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-120
BM-6	(3) #10 CONT.	(3) #10 CONT.	–	(2) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-120
BM-7	(3) #9 CONT.	(3) #9 CONT.	(2) #9	(2) #9	(2) #9 x 20'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 2/S-120
BM-8	(3) #9 CONT.	(3) #9 CONT.	–	(2) #9	(2) #9 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 2/S-120
BM-9	(3) #9 CONT.	(3) #9 CONT.	–	(2) #9	(2) #9 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 2/S-120
BM-10	(3) #9 CONT.	(3) #9 CONT.	–	(2) #9	(2) #9 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 2/S-120 & 3/S-120
BM-11	(3) #8 CONT.	(3) #8 CONT.	(2) #8	(2) #8	(2) #8 x 20'-0"	(15) #3 @ 6"	#3 @ 12"	#3 @ 6"	SECTION 3/S-120
BM-20	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(4) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-3
BM-21	(3) #10 CONT.	(3) #10 CONT.	(4) #10	(4) #10	(4) #10 x 25'-0"	(15) #4 @ 4"	#4 @ 8"	#3 @ 4"	SECTION 1/S-3
BM-22	(3) #10 CONT.	(3) #10 CONT.	(2) #10	(4) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 5/S-3
BM-23	(3) #10 CONT.	(3) #10 CONT.	(3) #10	(4) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-3
BM-24	(3) #10 CONT.	(3) #10 CONT.	(4) #10	(4) #10	(4) #10 x 25'-0"	(15) #4 @ 4"	#4 @ 8"	#3 @ 4"	SECTION 1/S-3
BM-25	(3) #10 CONT.	(3) #10 CONT.	(3) #10	(4) #10	(2) #10 x 15'-0"	(15) #3 @ 4"	#3 @ 8"	#3 @ 4"	SECTION 1/S-3



ELEVATION

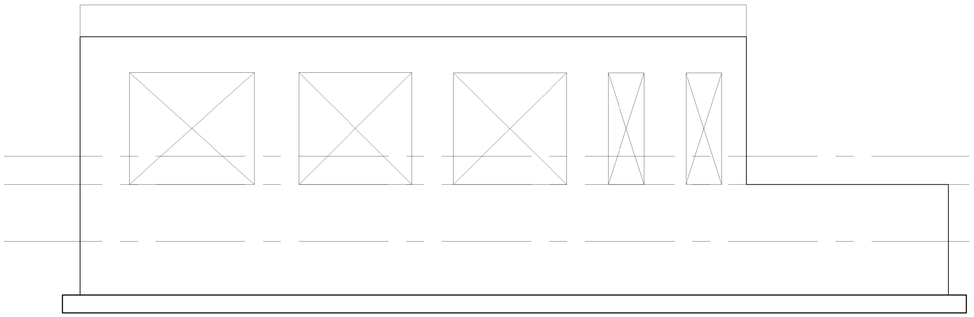
PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
AJQ ENGINEERS, P S C
CONSULTING ENGINEERS
CEL (787) 568-8215
ajq@caribe.net
209 URB. LA SERRANIA
CAGUAS, PR 00725

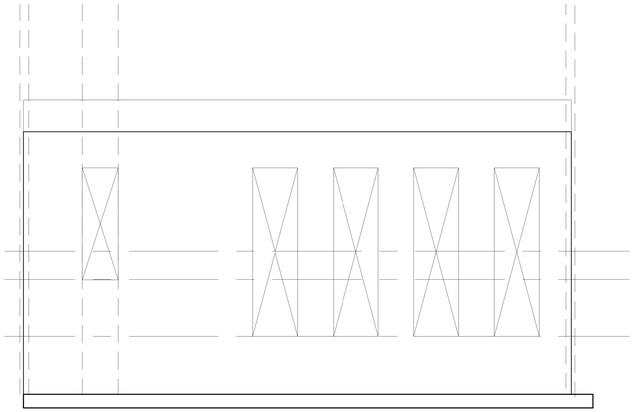
PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
2nd LEVEL FRAMING PLAN, SCHEDULES, SECTIONS AND DETAILS

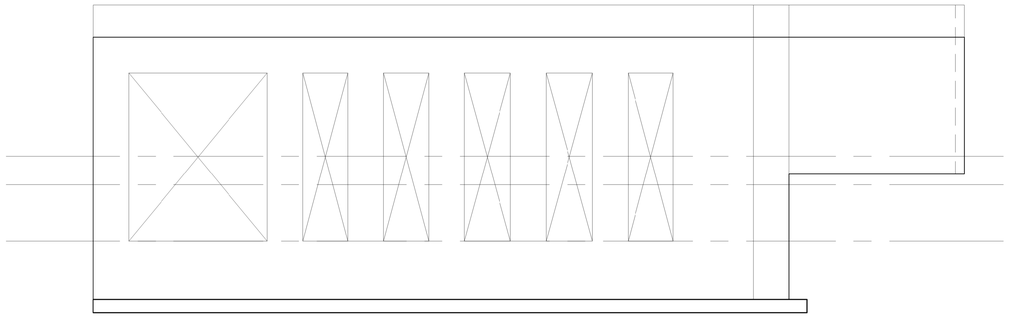
AJQ ENG. A. JIMENEZ, DJAQUA JE, DJAQUA, KEVIN DEPOO HAS SIDO EL PROFESIONAL QUE COMPLICHAN LOS GRADOS TOMADOS EN ESTOS PLANOS Y REPORTE, ESTANDO DE ACUERDO CON LOS MISMOS. Y REPORTE, ESTANDO DE ACUERDO CON LOS MISMOS. LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE CONSTRUCCION VIGENTES EN PUERTO RICO. LOS PLANOS Y REGLAMENTACIONES DE CORPORACIONES PUBLICAS Y PRIVADAS. ESTOS PLANOS



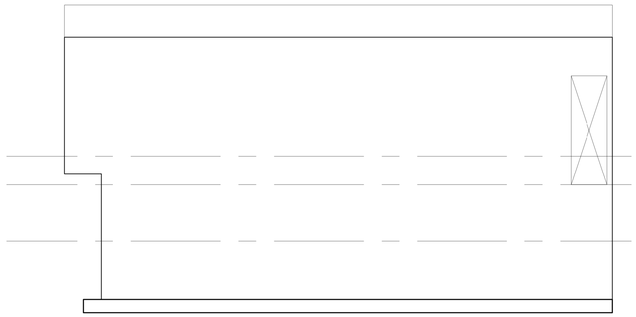
SHEARWALL ELEVATION ALONG AXIS 6
SCALE: 1/8" = 1'-0"



SHEARWALL ELEVATION ALONG AXIS A
SCALE: 1/8" = 1'-0"



SHEARWALL ELEVATION ALONG AXIS 1
SCALE: 1/8" = 1'-0"



SHEARWALL ELEVATION ALONG AXIS H
SCALE: 1/8" = 1'-0"

PRIME
DELTORRE ENGINEERING
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CONSULTANT
AJQ ENGINEERS, P S C
CONSULTING ENGINEERS
CEL (787) 568-8215 209 URB. LA SERRANIA
ajq@caribe.net CAGUAS, PR 00725

PROJECT NAME
PR-CRP-000048
PARKING AT LIBERTAD ST.
JAYUYA, PR.

SHEET NAME
WALL ELEVATIONS, SECTIONS AND DETAILS

REVISIONS	SYMBOL	DATE	BY
1ST SUBMITTAL	1	2024-05-28	AJQ
IFR - NOT FOR CONSTRUCTION			

DRAWN: AJQ
DESIGNED: A. JIMENEZ, P.E.
REVIEWED: J. DELGADO, P.E.
DATE:
May 28, 2024
DTE PROJECT NO.:
DTE23-004

SHEET NO.:
S-200

G:\Full Backup\Administrative\Clients\DelTorre Engineering LLC\CRP-000048 Estacionamiento Calle Libertad - Jayuya\2024 New Layout\Dwgs\STR-NEW-2.dwg, 5/28/2024 3:39:07 PM

G:\Full Backup\Administrative\Clients\Deltorre engineering llc\crp-000048 estacionamiento calle libertad - jayuya\2024 new layout\dwgs\str-new-2.dwg

PR 141/GUILLERMO ESTEVES ST.

PROP BIODEGRADABLE LOGS, 40 MTS LONG AS SHOWN

LEVEL ABOVE
FFE=439.02
16

LEVEL BELOW
FFE=436.00
16

PROP SILT FENCE
16 MTS LONG

PROP BIODEGRADABLE LOGS, 35 MTS LONG AS SHOWN

LIBERTAD ST.

EXISTING STRUCTURE

CONC. WALL

WM

WV

WEP

PAVE

Meters
2 0 2 4
1:100

HORIZONTAL & VERTICAL CONTROL

Point No.	Northing(Y)	Easting(X)	Elev(Z)	Description
1	242766.8300	183446.1010	435.4040	STA.PK
2	242789.5650	183466.2270	436.2960	STA.PK

SWPPP LEGEND

T.C.	TOP OF CURB	N.G.	NATURAL GROUND
G	GUTTER	xxx	EXISTING ELEVATIONS
T.P.	TOP OF PAVEMENT	xxx	PROPOSED ELEVATIONS
	CONSTRUCTION ENTRANCE		PROPOSED SILT FENCE
	BIODEGRADABLE LOGS		EX FLOOD PLAIN ELEV

SWPPP NOTES:

1. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE SITE AND ALL RUNOFF EXITING THE SITE MUST BE PROTECTED FOR REACHING NEIGHBORS.
2. THE TECHNICS PRESENTED IN THESE PLANS ARE SUGGESTIONS BY THE ENGINEER. LOCATIONS AND QUANTITY MAY VARY DEPENDING ON THE PROJECT. CHANGES TO THE PLANS MUST BE APPROVED IN WRITING BY THE ENGINEER.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SWPPP DEVICES IN THEIR OPTIMAL CONDITION.

PRELIMINARY PLANS

THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES. PLANS PREPARED UNDER THE DIRECT SUPERVISION OF J.A.DELGADO VELEZ, PE. CIAPR REGISTRATION # 28436 DATE:May 29, 2024

DELTORRE ENGINEERING LLC
IMPROVING QUALITY OF LIFE FOR OUR COMMUNITIES
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

PROJECT NAME
PARKING LIBERTAD STREET
JAYUYA, P.R.

SHEET NAME
STORMWATER POLLUTION PREVENTION PLAN

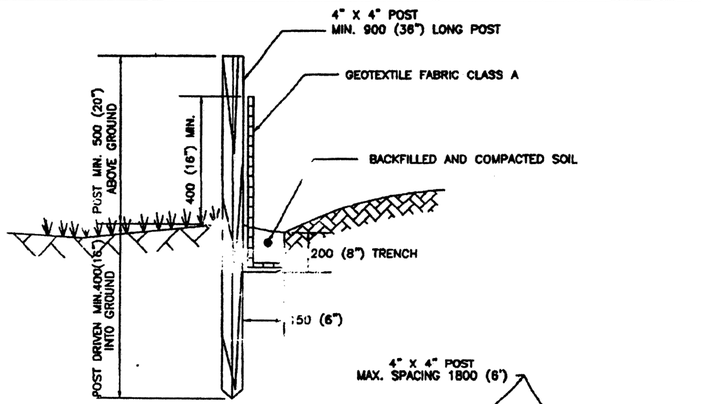
REVISIONS	SYMBOL	DATE	BY

YO, JOSE A. DELGADO VELEZ, UNICO DE LICENCIA 28436, CERTIFICO QUE SOY EL PROFESIONAL QUE COMPUTO Y/O DISEÑO Y/O PREPARO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, ASUMIENDO LA TOTAL RESPONSABILIDAD POR LOS MISMOS. QUE LOS MISMOS CUMPLEN CON LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS VIGENTES EN EL MOMENTO CONSIENTO Y LAS ESPECIFICACIONES APLICABLES EN LOS MISMOS. QUE LOS MISMOS NO SON COPIAS O DERIVADOS DE OTROS PLANOS Y ESPECIFICACIONES PREPARADOS POR TERCEROS SIN SU AUTORIZACIÓN. RECONOZCO QUE CUALQUIER OMISIÓN PALSA O INCORRECTA EN LOS PLANOS Y ESPECIFICACIONES PUEDE RESULTAR EN LA REVOCACIÓN DE MI LICENCIA. ASIMISMO, RECONOZCO QUE CUALQUIER USO NO AUTORIZADO DE ESTOS PLANOS Y ESPECIFICACIONES, INCLUYENDO SU COPIA O DERIVACIÓN PARA LA PREPARACIÓN O COMPLETACIÓN PARCIAL O TOTAL DE OTRO PROYECTO SIN MI CONSENTIMIENTO ESCRITO, ES PROHIBIDO Y PUEDE RESULTAR EN LA REVOCACIÓN DE MI LICENCIA. POR LA PRESENTE, ME LIBERO Y EXIMO DE CUALQUIER RESPONSABILIDAD QUE PUEDA SURGIR POR EL USO NO AUTORIZADO DE ESTOS PLANOS Y ESPECIFICACIONES. ESTOS PLANOS Y ESPECIFICACIONES NO PODRÁN SER UTILIZADOS, COPIADOS O DERIVADOS PARA OTRO PROYECTO SIN MI CONSENTIMIENTO POR ESCRITO. ESTOS PLANOS Y ESPECIFICACIONES SON PROPIEDAD INTELECTUAL DE LA FIRMA PROFESIONAL QUE REPRESENTO. ME RESERVO TODOS LOS DERECHOS DE PROPIEDAD INTELECTUAL SOBRE ESTOS PLANOS Y ESPECIFICACIONES.

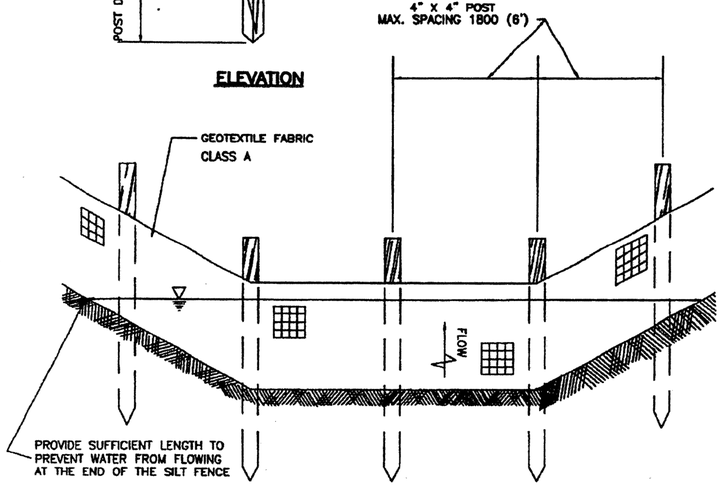
DRAWN: JAD
DESIGNED: J. Delgado, P.E.
REVIEWED: I. Torres, P.E.
DATE:
May 29, 2024
PROJECT NO.:
DTE23-003

SHEET NO.:
C400

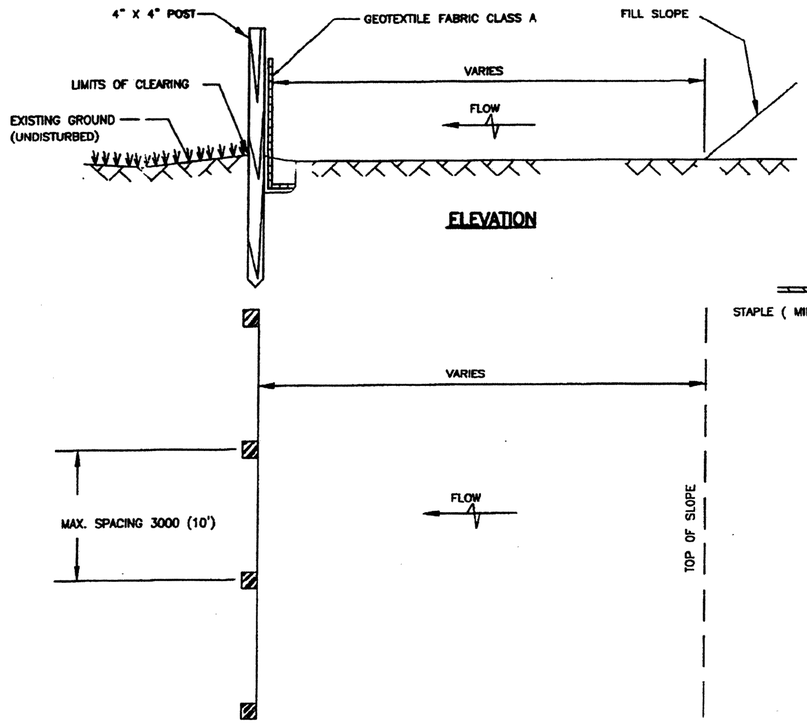
g:\users\joseadelgado\onedrive - delgado torres engineering, llc\documents - projects\dte-2023-003 parking libertad street cpr-048 jayuya\site23-003 c3d\production drawings\c600 swppp.dwg



ELEVATION

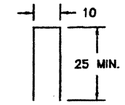


INSTALLATION IN A DRAINAGE DITCH

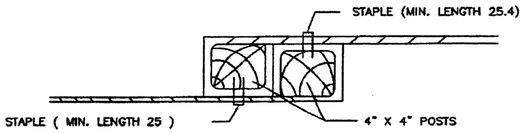


ELEVATION

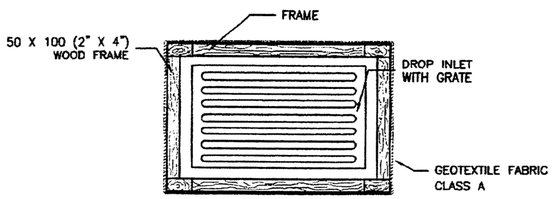
INSTALLATION AT TOE OF FILL



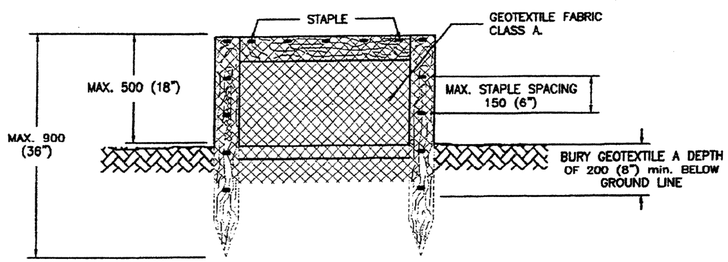
STAPLE DETAIL



TOP VIEW



TOP VIEW



FRONT VIEW

DROP INLET PROTECTION

NOTES:

1– SILT FENCES SHALL BE CONSTRUCTED AT THE LOCATION INDICATED IN THE CONSTRUCTIONS PLANS.

2– ALTERNATE PRE–ASSEMBLED SILT FENCE OPTIONS WILL BE ALLOWED AS LONG AS SPECIFIED MINIMUMS ARE SATISFIED. FOLLOW MANUFACTURER'S INFORMATION FOR INSTALLATION PROCEDURES.

3– EXCAVATION, BACKFILL, STAPLES AND POSTS ARE SUBSIDIARY OBLIGATIONS.

4– THE SILT FENCE GEOTEXTILE FABRIC SHALL COMPLY WITH AASHTO M266.

5– SILT FENCE SHALL BE INSPECTED FOR DAMAGE WEEKLY. AFTER RAINFALL ANY DAMAGE FENCE SHALL BE REPAIRED IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAINFALL EVENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH MAINTENANCE WORK.

6– WHEN THE DISTRIBUTED AREA HAVE BEEN PROPERLY STABILIZED THE FENCE MAY BE REMOVED AND ANY REMAINING AREAS STABILIZED. THIS WORK WILL BE PERFORMED AS DIRECTED BY THE ENGENEER AS A SUBSIDIARY OBLIGATION.

7– 'TOP VIEW' AND 'STAPLE DETAIL' APPLY TO ALL APPLICATIONS SHOWN IN THIS SHEET.

8– FOR ALL APPLICATIONS, THE MAXIMUM STAPLE SPACING SHALL BE 150 MM (6")

9– ALL DIMENSIONS SHOWN ARE IN MILIMETERS UNLESS OTHERWISE SPECIFIED.

EFFECTIVE DATE: OCTOBER 1998

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

EROSION CONTROL
DEVICES
SILT FENCE

RECOMMENDED BY: DESIGN AREA DIRECTOR DATE: Dec. 2, 98
APPROVED BY: EXECUTIVE DIRECTOR DATE: 8-XII-98
APPROVED BY: DIV. ADM. FHWA–PR DIVISION DATE: 12-9-98

DATE	REVISION	BY
09-24-1997	GENERAL REVISION	LV.
05-07-1998	GENERAL REVISION	LV.

STD. DWG. ER 1 OF 20

DELTORRE ENGINEERING
PLANNING SMART FOR A BETTER FUTURE
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

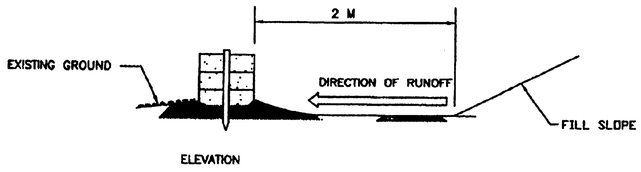
CRP-000048 PARKING
LIBERTAD STREET
JAYUYA, P.R.

EROSION CONTROL
STANDARD

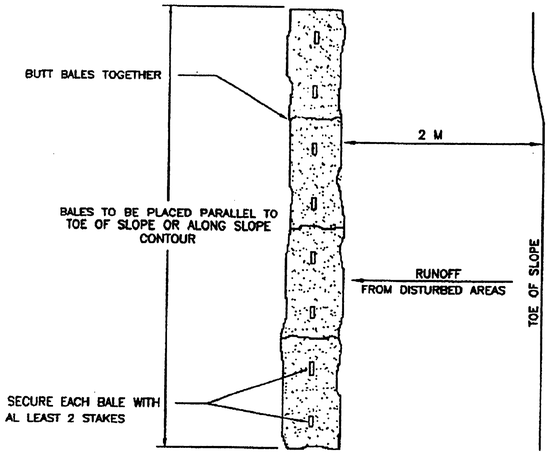
REVISIONS	SYMBOL	DATE	BY

DRAWN: JAD
DESIGNED: JAD
REVIEWED: ITI
DATE: May 30, 2024
PROJECT NO.: DTE23-003
SHEET NO.: SW3P-01

C:\Users_joseadelgado\onedrive - delgado torres engineering, llc\documents - projects\dte-2023-003 parking libertad street crp-048 jayuya\dte23-003 c3d\production drawings\sw3p-erosion control standards.dwg

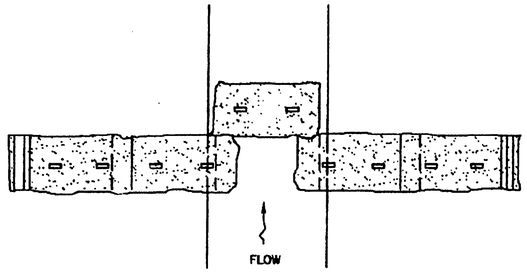


ELEVATION

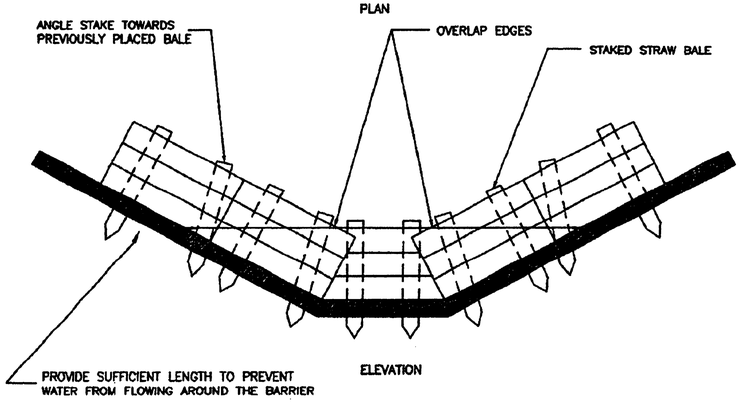


PLAN

INSTALLATION AT TOE OF FILL

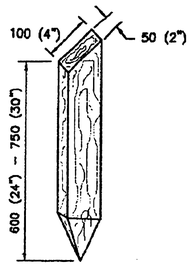


PLAN

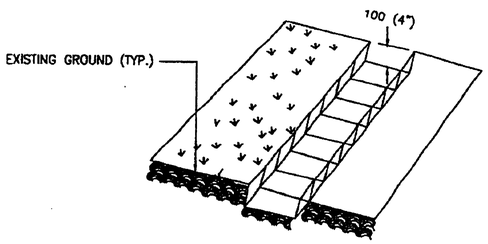


ELEVATION

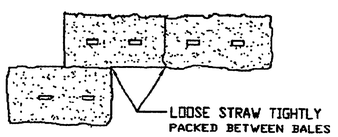
INSTALLATION IN A DRAINAGE DITCH



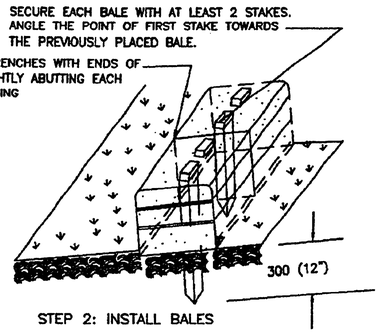
WOOD STAKE DETAIL



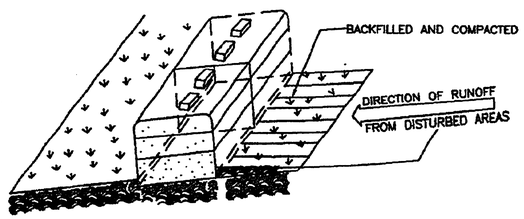
STEP 1: EXCAVATE TRENCH



STEP 3 : TIGHTLY PACK STRAW BETWEEN BALES
(PLAN VIEW OF BALES)



STEP 2: INSTALL BALES



STEP 4: BACKFILL SOIL AGAINST AREAS

STRAW BALE INSTALLATION

NOTES:

1- STRAW BALES SHALL BE CONSTRUCTED AT THE LOCATION INDICATED IN THE CONSTRUCTION PLANS.

2- USE STRAW BALES IN DRAINAGE DITCHES ONLY FOR LOW FLOW CONDITIONS AND WHEN SPECIFIED ON THE EROSION CONTROL PLANS.

3- INSTALL STRAW BALES ALONG THE CONTOUR LINE

4- EXCAVATION, BACKFILL AND STAKES ARE A SUBSIDIARY OBLIGATION.

5- STRAW BALES SHALL BE ENBEDDED IN THE SOIL AND WHERE POSSIBLE ONE-HALF THE HEIGHT OF THE BALE.

6- STRAW OR HAY BALES SHALL BE SECURELY ANCHORED IN PLACE WITH 4"X1" (100mmX25mm) WOOD STAKES, DRIVEN THROUGH THE BALES. THE FIRST STAKE SHALL BE ANGLED TOWARD THE PREVIOSLY LAID BALE TO FORCE THE BALES TOGETHER.

7- STRAW OR HAY BALES SHALL BE PLACED PARALLEL TO THE TOE OF SLOPE OR ALONG THE SLOPE CONTOUR.

8- EXCAVATION, BACKFILL AND STAKES ARE A SUBSIDIARY OBLIGATION.

9- STAKES SHALL PENETRATE AT LEAST 300 MM (12") INTO THE SOIL.

10- STRAW OR HAY BALES SHALL BE INSPECTED FOR DAMAGE WEEKLY AND AFTER RAINFALL. ANY DAMAGE OR DISPLACED BALES SHALL BE REPLACED IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAINFALL. NO ADDITIONAL PAYMENTS WILL BE MADE FOR SUCH MAINTENANCE WORK.

11- WHEN THE DISTURBED AREAS HAVE BEEN PROPERLY STABILIZED, THE BALES MAY BE REMOVED AND ANY REMAINING AREAS STABILIZED. THIS WORK WILL BE PERFORMED AS DIRECTED BY THE ENGINEER AS A SUBSIDIARY OBLIGATION.

12- ALL DIMENSIONS SHOWN ARE IN MILLIMITERS UNLESS OTHERWISE SPECIFIED.

EFFECTIVE DATE: OCTOBER 1998

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

EROSION CONTROL DEVICES
STRAW BALES

RECOMMENDED BY: _____
DESIGN AREA DIRECTOR
DATE : 12-7-98

APPROVED BY: _____
EXECUTIVE DIRECTOR
DATE : 12-9-98

APPROVED BY: _____
FHWA, ADM. FHWA-PR DIVISION
DATE : 12-9-98

DATE	REVISION	BY
08-24-1997	GENERAL REVISION	I.V.
05-07-1998	GENERAL REVISION	I.V.

STD. DWG. ER 2 OF 20

DELTORRE ENGINEERING
PLANNING SMART FOR A BETTER FUTURE
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

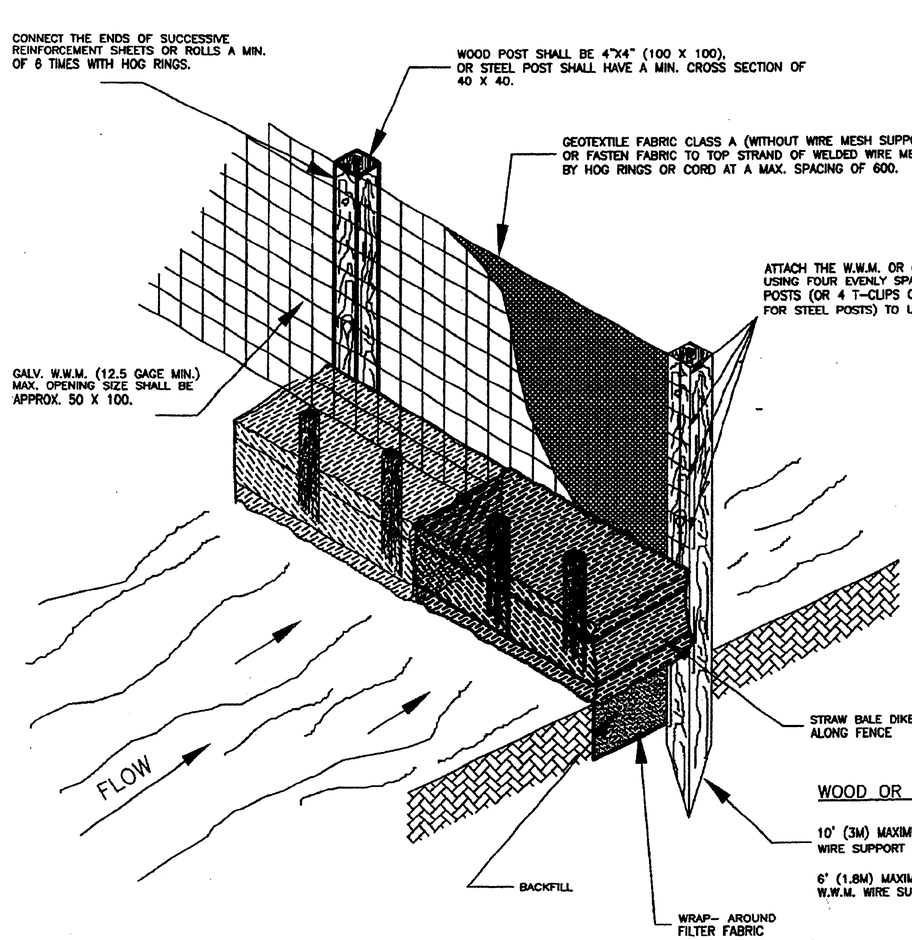
CRP-000048 PARKING
LIBERTAD STREET
JAYUYA, P.R.

EROSION CONTROL
STANDARD

REVISIONS	SYMBOL	DATE	BY

DRAWN: JAD
DESIGNED: JAD
REVIEWED: ITI
DATE: May 30, 2024
PROJECT NO.: DTE23-003
SHEET NO.: SW3P-02

C:\Users\JoseDelgado\OneDrive - delgado torres engineering, llc\Documents - Projects\dte-2023-003 parking libertad street crp-048 jayuya\dte23-003 c3d\production drawings\sw3p-erosion control standards.dwg



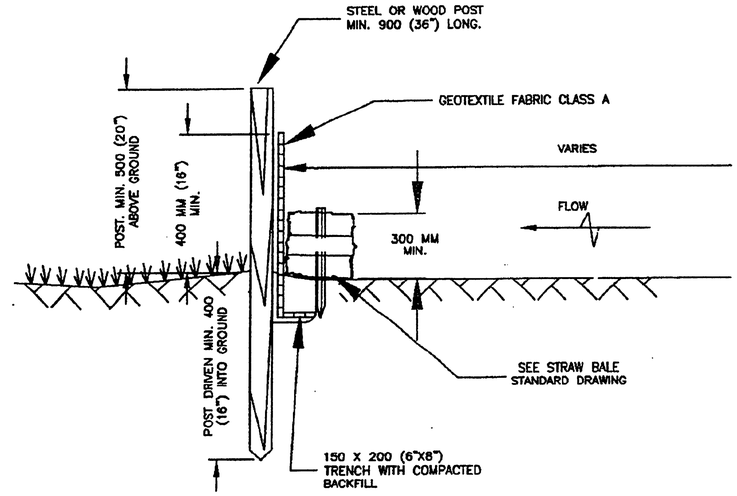
WOOD OR POST SPACING

10' (3M) MAXIMUM SPACING WITH W.W.M. WIRE SUPPORT FENCE

6' (1.8M) MAXIMUM SPACING WITHOUT W.W.M. WIRE SUPPORT FENCE

TEMPORARY SEDIMENT CONTROL FENCE

NOT TO SCALE



ELEVATION

NOT TO SCALE

NOTES

1- THIS DEVICE SHALL BE CONSTRUCTED AT THE LOCATION INDICATED IN THE CONSTRUCTION PLANS.

2- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE POUNDING EFFICIENCY.

3- THE CONTRACTOR SHALL BE RESPONSIBLE TO INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. MAXIMUM STORAGE HEIGHT SHALL NOT EXCED 255mm (9").

4- REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

5- SILT FENCE AND STRAWS BALES WILL BE PAID IN CONFORMANCE WITH STANDARD SPECIFICATION 210.

6- EXCAVATION, BACKFILL, STAKES STEEL OR WOOD POST, STAPLES, WELDED WIRE MESH AND INCIDENTALS ARE ARE SUBSIDIARY OBLIGATION.

7- STRAW OR HAY BALES SHALL BE INSPECTED FOR DAMAGE WEEKLY AND AFTER RAIFALL ANY DAMAGE OR DISPLACED BALES SHALL BE REPLACED INMEDIATELY. ACCUMULATE SEDIMENT SHLL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAINFALL. NO ADDITIONAL PAYMENTS SHALL BE MADE FOR SUCH MAINTENANCE WORK.

8- WHEN THE DISTURBED AREAS HAVE BEEN PROPERLY STABILIZED, THE BALE MAY BE REMOVED AND ANY REMAINING AREAS STABILIZED. THIS WORK WILL BE PERFORMED AS DIRECTED BY THE ENGINEER AS A SUBSIDISRY OBLIGATION.

9- ALL DIMENSION SHOWN ARE IN MILIMETERS UNLESS OTHERWISE SPECIFIED.

LEGEND:
W.W.M.= WELDED WIRE MESH

EFECTIVE DATE: OCTOBER 1998

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

EROSION CONTROL DEVICE
SILT FENCE WITH STRAW BALE DIKE

RECOMMENDED BY: DESIGN AREA DIRECTOR DATE: 12-1-98

APPROVED BY: EXECUTIVE DIRECTOR DATE: 12-11-98

APPROVED BY: DIV. ADM. FHWA-PR DIVISION DATE: 12-9-98

DATE	REVISION	BY
05-07-1998	GENERAL REVISION	LV.
08-31-1998	ADD NOTES	LV.

STD. DWG. ER 3 OF 20

DELTORRE ENGINEERING
PLANNING SMART FOR A BETTER FUTURE
53 C. LINDA MAR ♦ MANATI ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

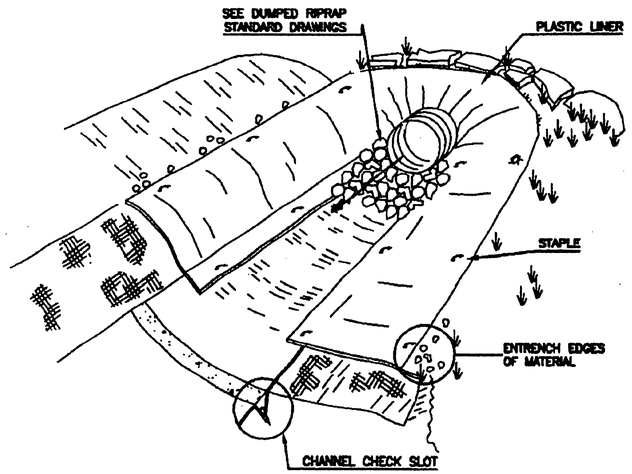
CRP-000048 PARKING
LIBERTAD STREET
JAYUYA, P.R.

EROSION CONTROL STANDARD

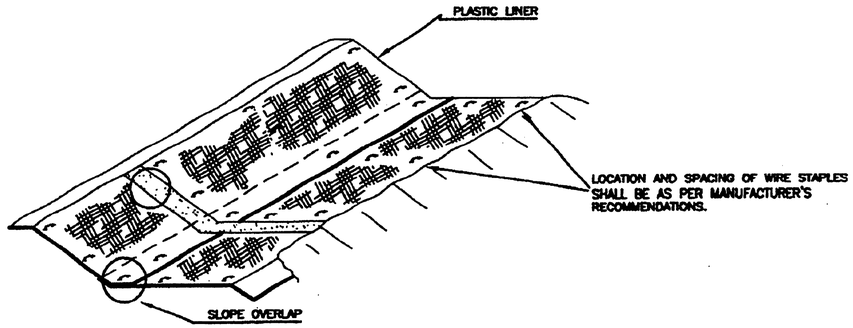
REVISIONS	SYMBOL	DATE	BY

DRAWN: JAD
DESIGNED: JAD
REVIEWED: ITI
DATE: May 30, 2024
PROJECT NO.: DTE23-003
SHEET NO.: SW3P-03

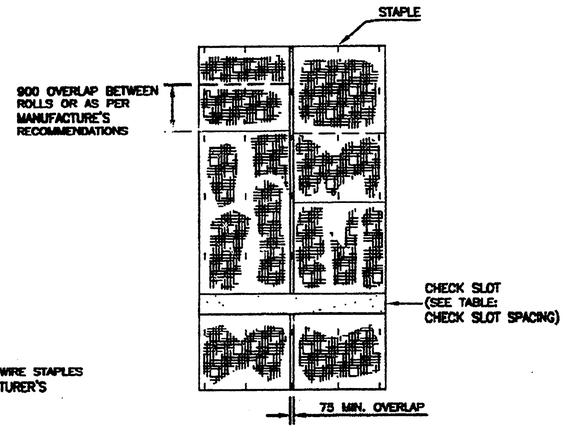
C:\Users\Jose\delgado\OneDrive - delgado torres engineering, llc\documents - projects\dte2023-003 parking libertad street crp-048 jayuya\dte23-003 c3d\production drawings\sw3p-erosion control standards.dwg



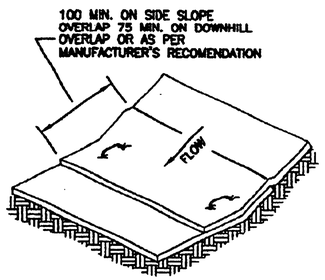
PIPE OUTLET INSTALLATION



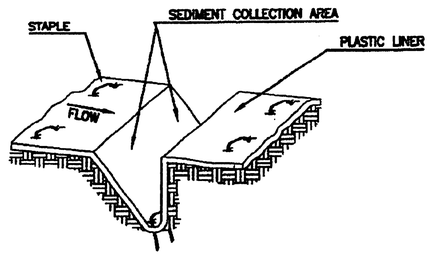
V DITCH INSTALLATION



PLAN VIEW
STAPLING DIAGRAM

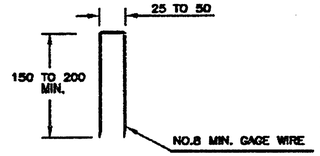


SLOPE OVERLAP



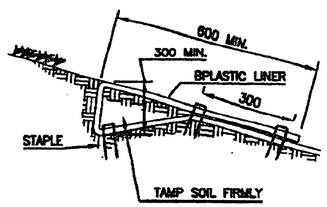
CHECK SLOT

CHECK SLOT SPACING	
SLOPE	SPACING
LESS THAN 4%	30 M
4% OR MORE	15 M

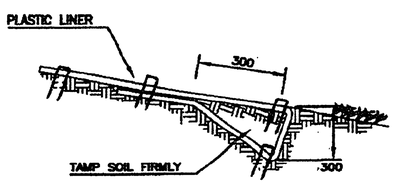


200 STAPLE MINIMUM LENGTH FOR SANDY SOIL.
150 STAPLE MINIMUM LENGTH FOR OTHER SOIL.

WIRE STAPLE DETAIL



UPPER TERMINAL ANCHOR



LOWER TERMINAL ANCHOR

NOTE:

1. PLASTIC LINER SHALL CONFORM TO THE REQUIREMENTS OF STANDARD SPECIFICATION 210 – SOIL EROSION AND WATER POLLUTION CONTROL.
2. CHECK SLOT TO BE CONSTRUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION FOR PREFERRED INSTALLATION.
3. ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

EFFECTIVE DATE: OCTOBER 1998

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

EROSION CONTROL
SLOPE PROTECTION
PLASTIC LINER INSTALLATION

RECOMMENDED BY: [signature]
DESIGN AREA DIRECTOR
DATE: Dec. 1, 98

APPROVED BY: [signature]
EXECUTIVE DIRECTOR
DATE: 8-XII-98

APPROVED BY: [signature]
ENV. ADM. FHWA-PR DIVISION
DATE: 12-8-98

DATE	REVISION	BY

STD. DWG. ER 17 OF 20

DELTORRE ENGINEERING
PLANNING SMART FOR A BETTER FUTURE
53 C. LINDA MAR ♦ MANATÍ ♦ PUERTO RICO ♦ 00674
PH: 787-854-7591 ♦ info@deltorre-eng.com
www.linkedin.com/deltorre

CRP-000048 PARKING
LIBERTAD STREET
JAYUYA, P.R.

EROSION CONTROL STANDARD

REVISIONS	SYMBOL	DATE	BY

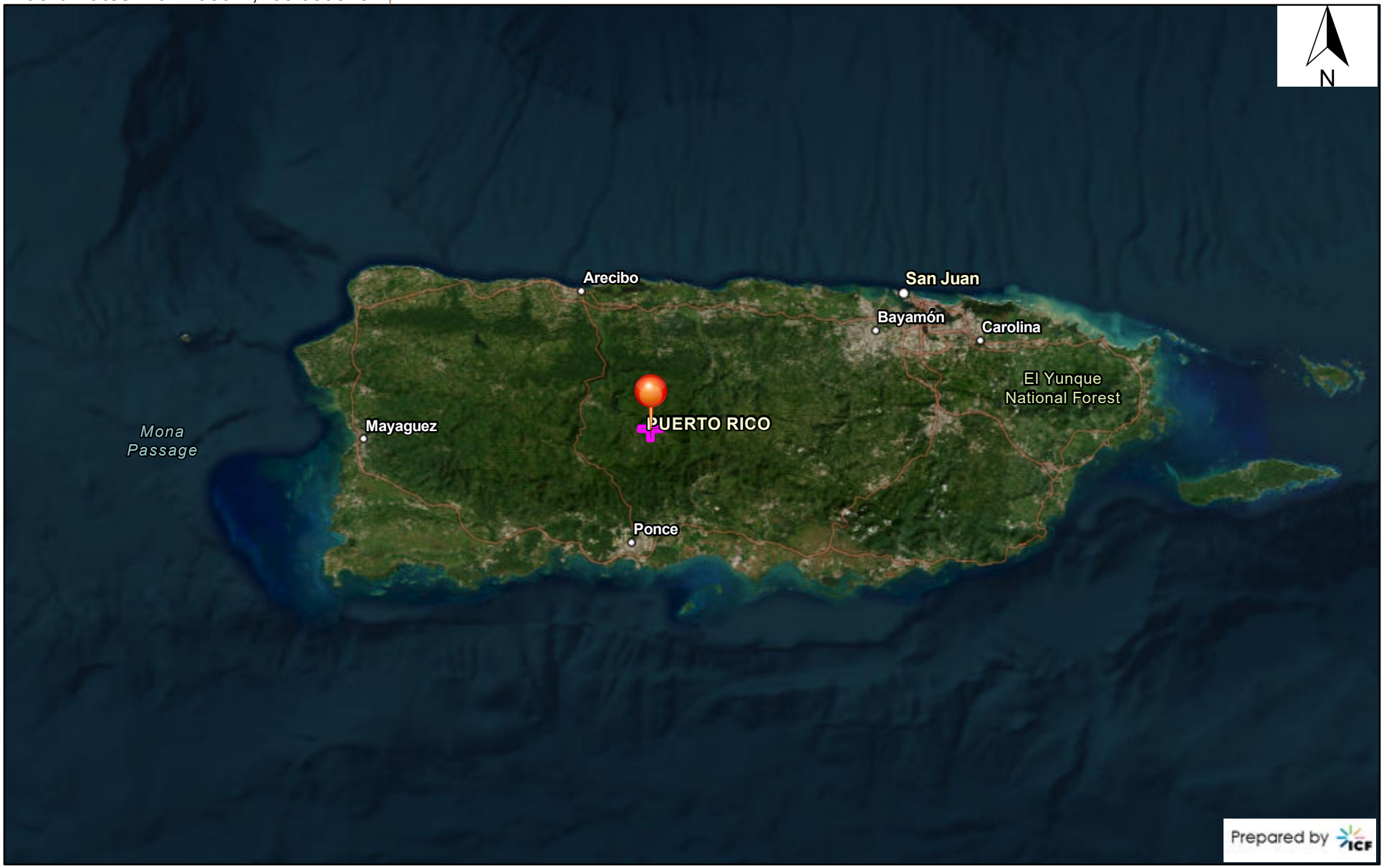
DRAWN: JAD
DESIGNED: JAD
REVIEWED: ITI
DATE: May 30, 2024
PROJECT NO.: DTE23-003
SHEET NO.: SW3P-04

C:\Users\joseadelgado\Onedrive - delgado torres engineering, llc\documents - projects\dte-2023-003 parking libertad street crp-048 jayuya\dte23-003 c3d\production drawings\sw3p-erosion control standards.dwg

Attachment 15: Sole Source Aquifers

PR-CRP-000048 Sole Source Aquifer Map

Address: Libertad Street and PR-141, Jayuya, PR 00664
Coordinates: 18.219837°, -66.589825°



August 22, 2025

Search Result (point)

Source: EPA NEPAssist

1:1,155,581

0 5 10 20 mi

0 15 30 60 km

Earthstar Geographics, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

PR-CRP-000048 Sole Source Aquifer Map

Address: Libertad Street and PR-141, Jayuya, PR 00664
Coordinates: 18.219837°, -66.589825°



August 22, 2025

Search Result (point)

Source: EPA NEPAssist

1:9,244,649

0 70 140 280 mi

0 115 230 460 km

Earthstar Geographics, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

*Please note that the Sole Source Aquifer layer is not visible at the extent required to display both Puerto Rico and the nearest SSA location on the map.

Attachment 16:
Wetlands Protection

Wetlands Map - PR-CRP-000048

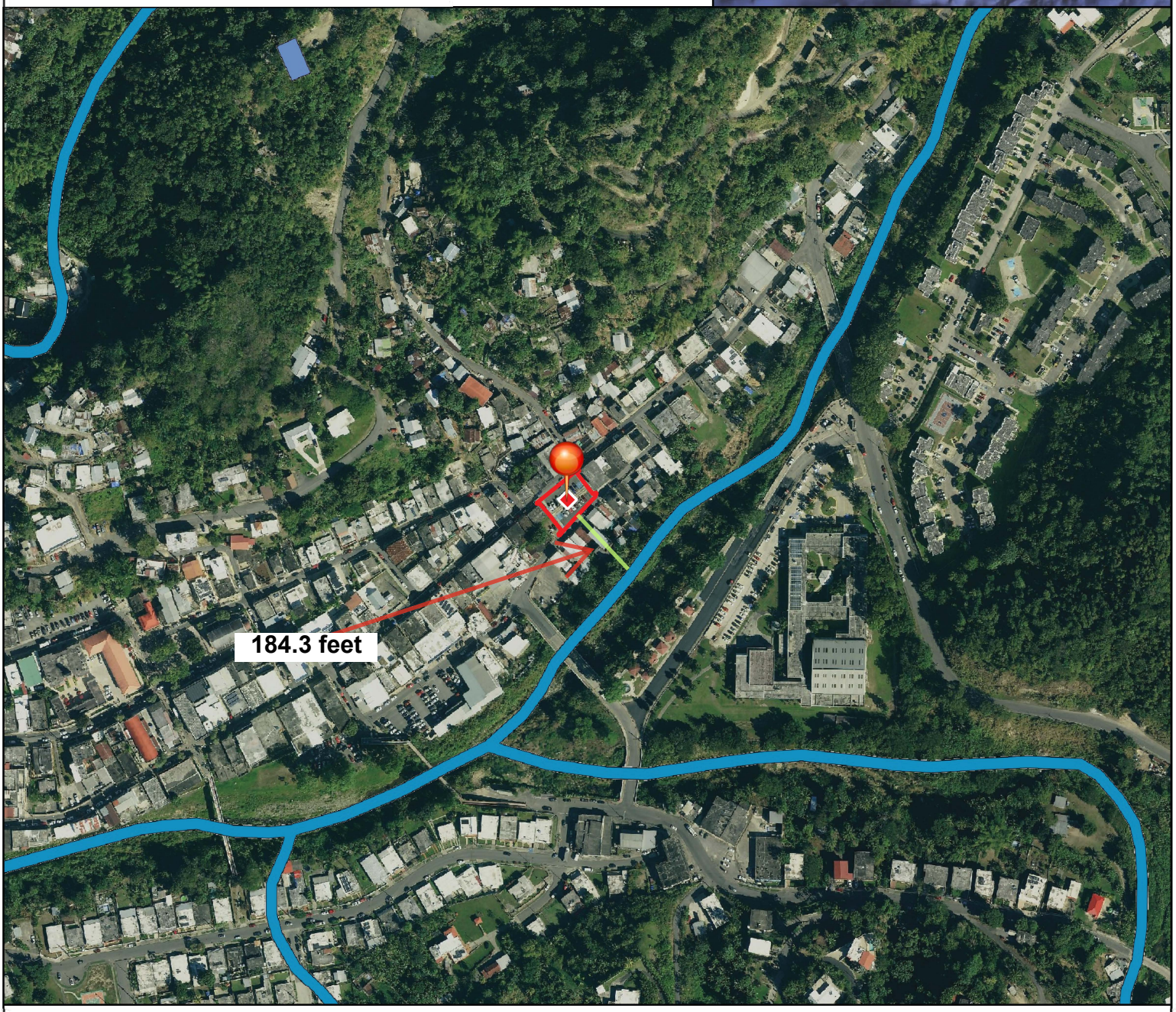
Project: Parking at Libertad Street

Address: Libertad Street and PR-141 (Guillermo Esteves Street)
Municipality of Jayuya, Puerto Rico

Coordinates: 18.219837°, -66.589825° (WGS 1984)

EES





Legend

- Project Location
- Project Footprint
- 18.219837, -66.589825
- Municipalities

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

N

Scale: 1: 4,000

1 inch equals 0.10 kilometers

0 75 150 m

Spatial Reference:
NAD 1983 State Plane Puerto Rico Virgin Islands FIPS 5200 meters

Sources:
PRITS WFS Server (http://geoserver2.pr.gov/geoserver/pr_geodata/wfs).
USFWS National Wetlands Inventory
(https://fwspublicservices.wim.usgs.gov/wetlandsmapservice/rest/services/Wetlands/MapServer).
2022 Hexagon AB Imagery Basemap Service.

Attachment 17:
Wild and Scenic Rivers

PR-CRP-000048 Wild and Scenic Rivers Map

Address: Libertad Street and PR-141, Jayuya, PR 00664
Coordinates: 18.219837°, -66.589825°



September 8, 2025

Search Result (point)

Wild and Scenic Rivers

1:577,791

0 4.75 9.5 19 mi

0 5 10 20 km

Earthstar Geographics, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

Attachment 18:
USDA-NRCS Custom Soil Resource Report

Soil Map—Arecibo Area, Puerto Rico Northern Part
(PR-CRP-000048 Soil Map Units)



Map Scale: 1:1,610 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Arecibo Area, Puerto Rico Northern Part
Survey Area Data: Version 20, Sep 10, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 23, 2022—Mar 1, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PeF	Pellejas clay loam, 40 to 60 percent slopes	1.7	14.2%
Re	Reilly gravelly silt loam	6.4	53.0%
Vm	Vivi loam	3.9	32.7%
Totals for Area of Interest		**12.0**	**100.0%**

Attachment 19:
Subsoil Exploration and Geotechnical Engineering Report

SUBSOIL EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT FOR MUNICIPAL PARKING BUILDING JAYUYA, PUERTO RICO

SUBSOIL EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT FOR MUNICIPAL PARKING BUILDING JAYUYA, PUERTO RICO

Deltorre Engineering, LLC
DESIGNERS

Geotechnical Engineering Services, PSC
GEOTECHNICAL CONSULTANTS

Submitted on September 19, 2023
Job No. 234157

TABLE OF CONTENT

1.0 INTRODUCTION . . . . . -1-

2.0 SITE LOCATION AND PROJECT DESCRIPTION . . . . . -1-

3.0 WORK PERFORMED . . . . . -2-

4.0 SUBSOIL CONDITIONS . . . . . -2-

5.0 GROUNDWATER . . . . . -3-

6.0 GENERAL . . . . . -3-

7.0 DISCUSSION . . . . . -3-

8.0 ENGINEERING RECOMMENDATIONS . . . . . -4-

8.1 Temporary Excavations . . . . . -5-

9.0 ADDITIONAL COMMENTS . . . . . -8-

Appendixes

Figures

Boring Logs

Geotechnical Engineering Services, PSC

SUBSOIL EXPLORATION AND
GEOTECHNICAL ENGINEERING REPORT FOR
MUNICIPAL PARKING BUILDING
JAYUYA, PUERTO RICO

1.0 INTRODUCTION

The existing municipal on ground parking lot will be redeveloped as a two-story parking building, located at Libertad Street, in the town of Jayuya, Puerto Rico. As per the request of the office of Deltorre Engineering, LLC designers of the project, GEOTECHNICAL ENGINEERING SERVICES, PSC, performed a subsoil exploration at the site of the reference project.

The prime purpose of this investigation was to evaluate and recommend the soil parameters required for the design of the foundation system for the proposed structure. This report presents the results of the subsurface exploration performed at the site, following the terms and conditions contained in our proposal, dated June 9, 2023.

2.0 SITE LOCATION AND PROJECT DESCRIPTION

The existing parking lot is located between State Road PR-141 and Libertad Street, in the municipality of Jayuya, Puerto Rico. **Figure 1**, included on an appendix to this report, shows a portion of a Google Earth aerial photo, with the site depicted on it. The proposed project consists in the construction of a two-story concrete building supported over ten columns. The existing parking lot will be expanded toward the southwest using an abandon house lot, to be demolished as part of this project. Topography at the area is relatively leveled.

3.0 WORK PERFORMED

Three (3) borings to a depth of 10 feet, until obtaining practical refusal, were drilled to cover the general area of the proposed structure. **Figure 1**, also shows the location of the borings in the Google Earth photo. Likewise, **Figure 2**, shows photos of the site, with the drilling equipment positioned at each borehole location. Routine laboratory tests were conducted on most of the soil samples secured, according the applicable ASTM Designations. The data was then evaluated in order to prepare the foundations recommendations for the proposed structures.

4.0 SUBSOIL CONDITIONS

Boring 3, revealed an old fill layer sampled as; Clayey sand, fine grained, with some gravel. Concrete and asphalt fragments, and decayed pieces of wood, were found within the fill matrix. Colors of samples varied from yellowish brown and light gray to gray. Standard Penetration Test N-values varied from 7 to 20 blows per foot, which represent a loose to medium dense state of relative density. This poor bearing deposit extends to a depth of 8 feet.

At Borings 1 and 2, what it seems to be an in-situ layer, consisting of fine-grained clayey sand with trace gravel, was encountered. Colors of samples varied from yellowish brown to dark yellowish brown, dark gray, and white. Standard Penetration Test N-values varied from 4 to 6 blows per foot, which represent a loose state of relative density. This layer extends to a depth of 2 feet at Boring 2, and to a depth of 6 feet at Boring 1.

Underlaying the clayey sand at the location of Boring 2, from 2 to 8 feet, a layer of silty sand was encountered. Color of samples was also yellowish brown. Standard Penetration Test N-values varied from 7 to 8 blows per foot, which represent a loose state of relative density.

Underlaying the in-situ upper clayey sand at the location of Boring 1, from 6 to 8 feet, a layer of dark yellowish brown, sandy silt, was encountered. Standard Penetration Test N-value was 5 blows per foot with a natural moisture content of 31 percent.

From 8 to 10 feet, at the three borings performed, a horizon consisting of silty gravel with little sand, was encountered. Color of samples was dark yellowish brown. All the Standard Penetration Test N-values obtained practical refusal (more than 100 blows per foot), which represent a very dense state of relative density.

5.0 GROUNDWATER

Groundwater level was not observed within the range of depth drilled. However, it is not possible to properly determine the groundwater level within the normal scope of the test holes' exploration. Observation wells are needed in order to determine the presence of groundwater within a reasonable setting time. Therefore, the water levels observed during drilling activities or the absent of water at one of the borings, may not indicate the true position of the existing groundwater table.

6.0 GENERAL

The above information is a general description of the subsoil conditions at the site. For detailed information on the soil characteristics at and along the boreholes, at the time and under the conditions these were drilled, refer to the boring logs which are included on an Appendix to this report. The depths mentioned in this report, unless otherwise specified, are referred to the existing ground surface elevations prevailing during the drilling phase of this project.

7.0 DISCUSSION

Borings revealed a loose fill mixed with deleterious material at the area of Boring 3, and loose in-situ soils at the area of Borings 2 and 3, both materials extending to a depth of 8 feet. This scenario will bring differential settlements between the proposed columns, which will cause aesthetic, architectonic, and/or structural damages to the proposed parking building. In the event, there is any upgrading fill to create an access ramp to the second level, this will provoke also settlements that might endanger the structural integrity of the proposed structure or any underline pipe (if any).

Hence, two alternatives might be considered to cast the footings of the columns of the proposed building. The first one is to cast the footings at a depth of 8 feet below existing grade, or, the second alternative, is to over excavate to a depth of 8 feet to remove loose in-situ soils and old fills mixed with deleterious material at each footing's location and replace it with selected fill, properly compacted until reaching a higher depth of footing cast. For the second alternative a lower allowable bearing capacity shall be used.

8.0 ENGINEERING RECOMMENDATIONS

The proposed parking building can be cast over isolated footings, over competent in-situ soils found at a depth of 8 feet, or over properly compacted fill, at a depth of 3 feet, after the corresponding subsurface improvement.

For footings cast over competent in-situ soils, depth of foundation shall not be shallower than 8 feet, measured from existing ground surface at the date of our drilling activities, designed for an allowable soil bearing pressure of 5,000 psf.

For footings over new fills, for a depth of foundation of 3 feet, measured from existing ground surface at the date of our drilling activities, shall be designed for an allowable soil bearing pressure of 2,500 psf. However, in order to control total and differential settlements, a subsurface improvement shall be performed at each footing's location. The improvements shall consist of an over excavation of the about five (5) feet under the proposed depth of footings' cast (3') to remove the loose in-situ soils and/or old fills, and replace it with A-1-a, A-1-b, A-2-4, or A-2-6 selected material. This material should be compacted in layers (12" thick) to at least 95% (Modified Proctor) of their maximum dry density.

Once the bottom of each excavation (total depth of excavation about 8 feet) has been reached, the soil inspector, shall perform a series of test pits to corroborate depth of removal. If no more removal is necessary then backfilling can be started with the selected fill.

The excavation shall be planned so that run-off is controlled via a sump pit at its end.

The excavation shall be made following the criteria presented on **Figure 3**.

For loads of short duration, such as seismic or wind loads, the recommended soil bearing pressures can be increased by 33 percent.

All foundation excavation bases shall be inspected and released by a geotechnical technician prior to the actual cast of the concrete.

It is important, that the foundation bottom not be disturbed or softened due to poor excavation procedures, because this could lead to an unanticipated source of significant settlement.

A differential settlement in the order of 0.5 of an inch between nearby footings, should be considered in the design. Under the alternative of over-excavation and replacement, tie beams should be considered to control differential settlements.

8.1 Temporary Excavations

Excavations of about 8 feet are expected at the site. Our calculations indicate that a slope ratio of 1:1 (H:V) up to a depth of 10 feet should be used to reach an adequate factor of safety (FS) for the temporary slopes (one week or less). A buffer zone of at least five (5) feet shall be left between the crest of the temporary slopes and any nearby structure.

However, it seems that there is no lateral space available for the implementation of safe provisional slopes (access road, sidewalks, retaining wall, utilities, structures). There is need to use a braced excavations. The design of the bracing system shall be performed by experts in this field. Also, open sloped excavations will bring large amounts of excavations and difficulty to access thru the site.

It is a well-known fact that excavations cause a change in the state of stress in the soil beside and beneath the excavated space. Such changes in stress are associated with movements of the adjacent soils and usually they have the character of settlement. If these settlements become excessive, damage to adjacent structures can be provoked.

Therefore, the design and construction of the retaining structure shall be properly performed in order to reduce settlements to a tolerable value.

Several reference points shall be established at the existing structure adjacent to the braced cuts, to indicate the trend of any movement which might affect the stability of such structures.

Lateral pressures on braced cuts cannot be calculated by the classical theories because of differences in behavior of the structure during construction. Therefore, proper technics must be used in the design of the temporary retaining structures, considering how construction is carried out. Once again, it is important that the shoring system be properly designed as a temporary retaining structure. This shall be responsibility of the General Contractor.

Pressures resulting from uniform surcharge loads such as stockpiled earth, concentrated surface loads as cranes, trucks or other construction vehicles, and hydrostatic pressures shall be considered in the design.

The excavations shall be started only after the contractor has thoroughly planned the final alternative to be chosen so that delay periods are diminished, thus reducing the time the excavations remain open.

Before the excavations or undercut start, the contractor shall to submit the designer (in writing) a logical order of construction procedures and sequences to be employed, verified by his Geotechnical consultant.

Once the bottom of each excavation has been reached, the soil inspector, shall perform an inspection of the bearing surface and recommends any additional remotion if there is presence of soft and/or loose deposits. The bracing system shall be deepened considering the possibility of additional depth of excavation.

A meeting shall be held with the selected contractor prior to construction to discuss (Owner, Geotechnical Consultant, Inspection and Contractor) the construction techniques, the selected braced alternative design of system presented by contractor, the loss prevention documentation, the monitoring program, and any doubts there may be on this project. This meeting in itself is a loss prevention tool where not appropriate design or construction techniques can be singled out and eradicated prior to the construction of the temporary retention system.

Establishing reference points on adjacent structures prior to starting any excavation operation will permit measuring of any settlement that may start to occur, thus allowing to take the necessary measures to prevent such problems.

After footings are cast, backfilling of the excavation shall be performed on a controlled way. The fill should be compacted that the dry unit weight of the compacted material is equal to or greater than ninety-five (95) percent of the maximum unit dry weight of material compacted in the laboratory under Modified Proctor Compaction Test. It should be the responsibility of the Resident Engineer to instruct the Soils Engineer retained by the owner on a consultative basis to determine the optimum moisture and corresponding dry density of every type of fill material to be used by the contractor in order to properly evaluate the percentage of compaction of the fill material.

The contractor should employ suitable equipment, to obtain the required percentage of compaction. The number of passes of the equipment over each section of the work surface shall be determined in the field. However, the Soils Engineer shall determine the density of the fill material after the compaction of each eight (8) inch layer, and the contractor shall not place any additional fill until the preceding compacted layer has been found to fulfill the aforementioned requirements. Each successive pass should overlap the preceding adjacent pass by ten (10) percent. Roller passes made on material in unsuitable condition will not be considered in judging compliance with our recommendations. In case the Contractor fails to obtain the required compaction energy, he must get the appropriate type of equipment to comply with this compaction criterion.

The acceptability of the compaction will be established by tests (state weathered at Contractor's or Owner's expense). The unit weight of compacted material will be established by nuclear testing procedures, in accordance to ASTM requirements. Additional tests to establish or confirm maximum Proctor Density, optimum moisture content and percentage stone content will be performed as required by working conditions.

Samples of all potential sources of fill must be submitted to the soil laboratory to establish their adequacy. Borrow materials for fill should consist of essentially granular material (GW, GM, SW, SP, or SM, Unified Soil Classification System; or A-2-6 to A-1-a AASHTO Classification System), as approved by the Geotechnical Engineer. These should be free from vegetable matter and should not contain rocks having a dimension greater than six (6) inches. The in-situ soils shall not be used as backfill.

9.0 ADDITIONAL COMMENTS

The services of a P.R. licensed Soils Engineer should be retained during the excavation and foundation phases of the work. This is to observed compliance with the specifications or recommendations and to allow design changes in the event that sub-surface conditions differ from that anticipated prior to starting the construction program. The Soils Engineer selected for this purpose, should receive copy of all plans and report, evaluate them and recommend variations or additional studies, as the deems necessary for thus assuming technical responsibilities of the solutions herein recommended. Copies of this report are furnished only to provide the factual data which were gathered and which were summarized in the report.

The analysis and recommendations submitted in this report are based in part upon the data obtained from the soil borings made. The nature and extent of variations between the borings may not become evident until construction. If variations then appear evident, it will be necessary to re-evaluate the recommendations of this report.

In the event that any changes in the nature, design or location of the facilities planned, the conclusions and recommendations contained in this report shall not be considered valid, unless the changes are reviewed and conclusions of this report modified or confirmed in writing.

The soil and foundation engineering report has been prepared for this project by Geotechnical Engineering Services, PSC. This report was for design purposes only and may not be sufficient to prepare an accurate bid. Contractors wishing copies of the report may secure them from owner with the understanding that its scope is limited to design consideration. It is recommended that the soil foundation engineer be provided the opportunity for a general review of final design and specifications in order to verify that the earthwork and foundation recommendations were

properly interpreted and implemented in the design and specifications. If the soil and foundation engineer is not allowed the opportunity of making this recommended review, he can assume no responsibility for misinterpretation of his recommendations. The standard procedure followed during the drilling of the test borings are discussed in detail in the appendix to this soil report.

This report has been prepared taking into consideration the design factors presently known to us. The project designers should be alert of any item that might have been overlooked, that could require clarification or that may need additional recommendations to those discussed herein.

Respectfully submitted,





ANIEL GRILLASCA RODRÍGUEZ, M.E.C.E., P.E.
GEOTECHNICAL ENGINEER

AGR\
Reference No. 234157
September 19, 2023

APPENDIXES

APPENDIX NO. 1
GENERAL

Comprised in this report is a description of the project as made known to GES, Geotechnical Engineering Services, PSC and details of the project with pertinent recommendations for the design of foundations and other earth related structures. It should be considered that the design recommendations are relative to the project aspects discussed and subject to the limitations imposed by all practical considerations in the determination of subsoil conditions.

The field and laboratory data shown in boring logs represent subsoil conditions encountered at the borehole proper. The analysis and conclusions herein presented and discussed are based on such results and on a reasonable interpolation of subsoil characteristics. Whenever cross-sections with a schematic representation of the interpreted subsoil stratification between borings are included, the same should not be taken to represent true intermediate conditions but are rather given for general comparison purposes only.

Copy of this report should be made available to the Project Designers for their information and guidance, as well as to the Contractor and Resident Engineer, in order to secure maximum protection in the case of possible unexpected variations. Any such variations as well as any changes or modifications to the scope of project described after submittance of this report shall be notified by writing to these Consultants in order to evaluate same and decide upon the need to alter or modify the recommendations given.

APPENDIX NO. 2

FIELD AND LABORATORY WORK

The field work consisted of a visual observation of the area and existing structures at the site, if any, and of performance of test borings as indicated.

Test borings were made in accordance to the "Standard Penetration Test and Split-Spoon Sampling of Soils Method" as proposed by the Standards of the American Society for testing and Materials Designation ASTM D-1586, Latest Revision.

The testing hole is bored either by manual and mechanical augers or by driving a 2.5 inch inside diameter casing into the ground which is washed clean internally each time a soil sample is to be secured below its reach. While sampling, the Standard Penetration Test is performed and the "N" values recorded. This is the number of blows required to drive the split-spoon sampler 12 inches into the ground using a 140 lbs. hammer with a free fall of 30 inches.

The value gives an indication of the consistency of cohesive soils and the relative density of granular soils as shown in the following table:

COHESIVE SOILS

"N" VALUES	CONSISTENCY	UNCONFINED COMP. STRENGTH (TSF)
less than 2	Very soft	less than 0.25
2 - 4	soft	0.25 - 0.50
4 - 8	medium	0.50 - 1.00
8 - 15	stiff	1.00 - 2.00
15 - 30	very stiff	2.00 - 4.00
over 30	hard	over 4.00

GRANULAR SOILS

"N" VALUES	RELATIVE DENSITY
0 - 5	very loose
5 - 10	loose
10 - 30	medium
30 - 50	dense
over 50	very dense

Depth of water surface shown on logs indicate the phreatic level found either prior to use of any casing and water or taken 24 hours after the test borings was completed and the casing, if any, is pulled out. The information given, unless otherwise indicated, is not a adequate for study of deep excavations and is only to be used as an approximate level in the study of a normal foundation of the project. Phreatic or underground water levels may vary with seasonal rainshower variations thus water may appear where none is shown and the reader of this report should be aware of this fact. For excavations where ground water levels are of utmost importance special studies consisting of long range observations on installed wellpoint-type devices should be performed. Where deep excavations are contemplated, as in pumping stations, study of artesian or sub-artesian aquifers should be made by means of deep test borings and pumping tests.

DIAMOND CORE DRILLING

Whenever drilling through rock is necessary the same is made following the "Diamond Core Drilling for Site Investigation" method as proposed by the standards of the American Society for Testing and Materials Designation ASTM D-2113-L.R. In general a double tube core barrel with diamond bit is rotated under pressure into the rock. The drilled rock enters into the barrel using circulating water as cooling agent. At intervals of 2 to 5 feet the barrel is lifted and the core is removed. The length of each core run as well as the length of the core recovered is noted.

LABORATORY WORK

Water Contents

The natural moisture content was determined for all samples, except for those with high percentage of gravel or coarse sand.

The tests follow standards of the American Society for Testing and Materials ASTM Designation D-2216, Latest Revision. The water or moisture content of a given soil mass is by definition the ratio of the weight of water to the oven dry weight of the soil, expressed as a percentage.

Unconfined Compression Tests

All suitable samples of cohesive soil recovered from the split-spoon sampler were tested in unconfined compression. The ratio of the maximum load required for failure to the corrected cross sectional area of the sample expressed in tons per square foot is defined as the unconfined compressive strength.

Examination and Description

Soil samples are classified according to their constituents, the following terminology used to denote the approximate percentage by weight of each component.

DESCRIPTION TERM	PERCENT BY WEIGHT
Trace	1 - 10
Little to some	10 - 20
Sandy, silty clayey	20 - 35
And	35 - 50

The examined samples are related into one of the following main groups; boulders, gravel, sand, clay, and silt. On peat, the presence of the decomposed and partly decomposed vegetable matter, is used for identification. The differentiation between a clay and a silt is based on the presence or lack of plasticity, dilatancy and dry strength rather than on grain size. The description of the soil includes: color, odor, minerals, presence of foreign matter, geological history, etc. These descriptions as well as the results of the laboratory testing are used in grouping similar samples into a stratigraphic unit as shown on the final boring logs. Therefore, the data on subsurface exploration logs represent subsoil conditions at the precise locations of the boreholes only.

FIGURES



FIGURE 1 - SITE LOCATION ON GOOGLE EARTH PHOTO
MUNICIPAL PARKING BUILDING
AT LIBERTAD STREET, JAYUYA, PUERTO RICO

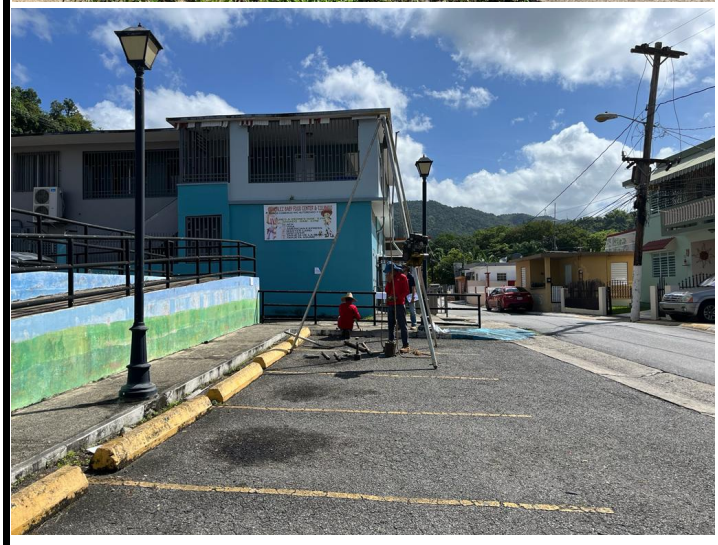
GES
Geotechnical Engineering Services, PSC



BORING # 1



BORING # 2



BORING # 3

FIGURE 2 - BORINGS LOCATION PHOTOS
MUNICIPAL PARKING BUILDING
JAYUYA, PUERTO RICO

GES
Geotechnical Engineering Services, PSC

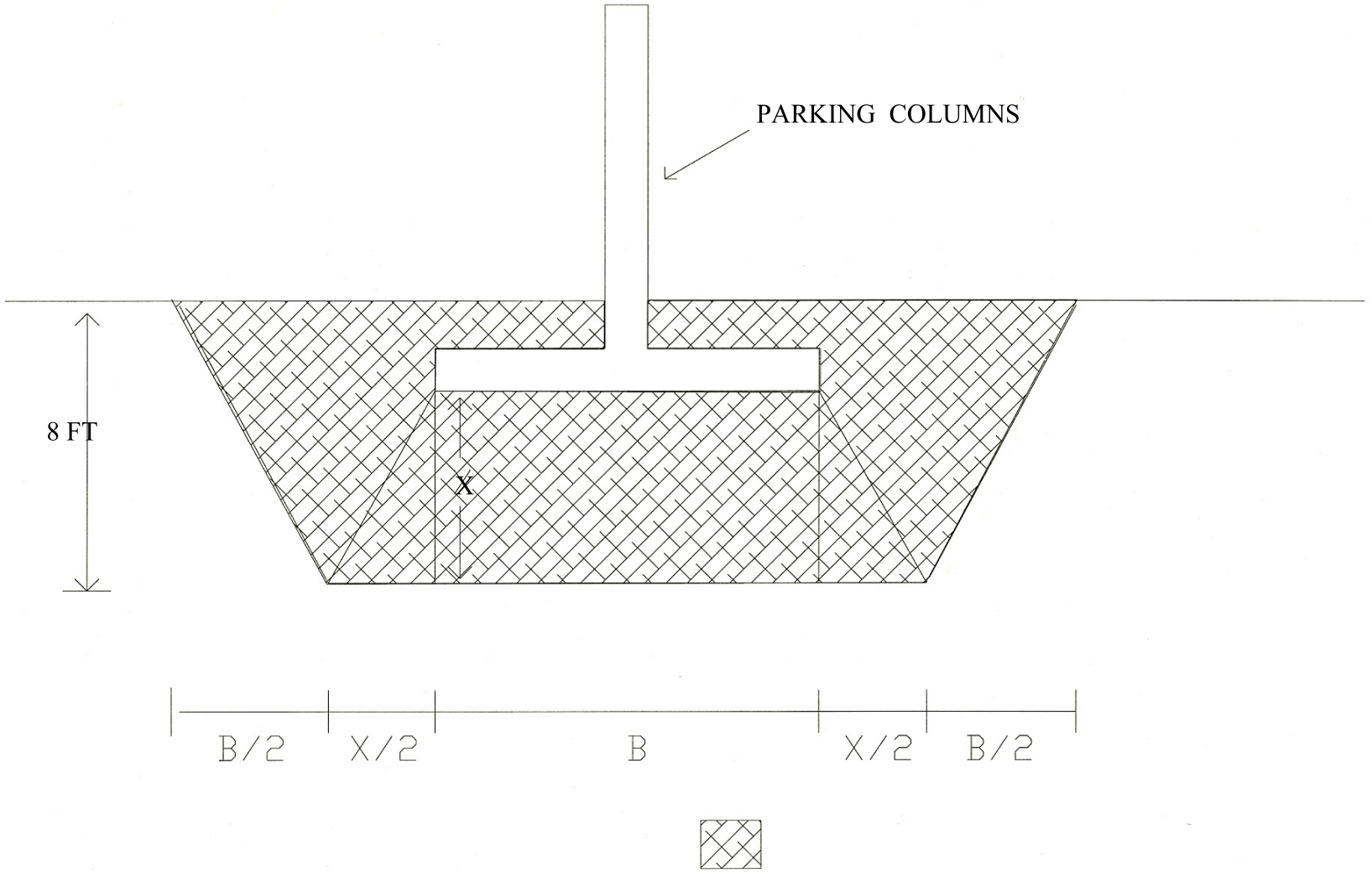


FIGURE 3 - OVER EXCAVATION TREATMENT FOR ISOLATED FOOTINGS
MUNICIPAL GARAGE BUILDING
AT LIBERTAD STREET, JAYUYA, PUERTO RICO

GES
Geotechnical Engineering Services, PSC

BORING LOGS

BORING LOGS

The description of subsurface profile and results of field and laboratory tests, as enclosed, pertain to conditions actually encountered at the borings location proper and at the depths indicated. Profile tracings between borings, when given, represent a reasonable interpolation of subsoil characteristics and should not be taken to indicate true intermediate conditions.

Notes:

N -	***Number of blows required to drive the sampling spoon a distance of 12" with a 140 lbs hammer falling 30"***
NW -	***No water***
WH -	***Weight of hammer***
WR -	***Weight of Rods***
W -	***Natural moisture content in % of dry weight***
qu -	***Unconfined compressive strength in tons/sq ft***
**** -***	***penetrometer value***

Geotechnical Engineering Services, PSC

Geotechnical Engineering Services, PSC

Geotechnical Engineering Services, PSC	Date: 8/30/2023	Elevation:
	Boring No.: 1	Code No.:
Project Name: Municipal Parking Building Jayuya, Puerto Rico	Location: Calle Libertad	Water Table: N.D.
	Drill Machine: Acker	Our Job No.: 234157

Depth (ft.)	Sampler Type	Sample No.	Sample Length (in.)	Sample Recovery (in.)	Blows/6"	SPT N-Value	RQD %	W_n %	W_p %	W_l %	I_p %	USCS Class.	Soil Pattern	Description	Qu (tsf)
	*	1	24		3-3-3-3	6		27						Clayey fine grained sand, few roots, dark yellowish brown.	
	*	2	24		4-2-2-3	4		24						Same as above, trace to little clay.	
5	*	3	24		4-3-2-3	5		24						Same as above, trace clay, yellowish brown.	
	*	4	24		3-3-2-8	5		31						Sandy silt, dark yellowish brown.	
10	*	5	24		17-50/5"	50/5"		15						Gravel, little sand, bluish gray, dark yellowish brown.	
														End of boring at 10 feet.	
15															
20															
25															
30															
35															
40															
45															

Comments: * Split Spoon Sampler
N.D. - Not Detected

Hammer Weight:	Page 1 of 1	Sampler Size:	Foreman:
140 lb		2' x 2" O.D.	J.L. Rodriguez

Geotechnical Engineering Services, PSC

Geotechnical Engineering Services, PSC

Geotechnical Engineering Services, PSC	Date: 8/30/2023	Elevation:
	Boring No.: 2	Code No.:
Project Name: Municipal Parking Building Jayuya, Puerto Rico	Location: Calle Libertad	Water Table: N.D.
	Drill Machine: Acker	Our Job No.: 234157

Depth (ft.)	Sampler Type	Sample No.	Sample Length (in.)	Sample Recovery (in.)	Blows/6"	SPT N-Value	RQD %	W_n %	W_p %	W_l %	I_p %	USCS Class.	Soil Pattern	Description	Qu (tsf)
	*	1	24		4-2-3-3	5		21						Clayey fine grained sand, trace gravel, yellowish brown, dark gray, white.	
	*	2	24		4-5-3-5	8		25						Silty sand, trace clay, trace gravel, yellowish brown.	
5	*	3	24		4-4-4-4	8		30						Same as above, no gravel.	
	*	4	24		3-4-3-3	7		36						Same as above, trace gravel.	
10	*	5	24		50/0"	50/1"								Silty gravel, dark yellowish brown.	
														End of boring at 10 feet.	
15															
20															
25															
30															
35															
40															
45															

Comments: * Split Spoon Sampler
N.D. - Not Detected

Hammer Weight:	Page 1 of 1	Sampler Size:	Foreman:
140 lb		2' x 2" O.D.	J.L. Rodriguez

Geotechnical Engineering Services, PSC

Geotechnical Engineering Services, PSC

Geotechnical Engineering Services, PSC	Date: 8/30/2023	Elevation:
	Boring No.: 3	Code No.:
Project Name: Municipal Parking Building Jayuya, Puerto Rico	Location: Calle Libertad	Water Table: N.D.
	Drill Machine: Acker	Our Job No.: 234157

Depth (ft.)	Sampler Type	Sample No.	Sample Length (in.)	Sample Recovery (in.)	Blows/6"	SPT N-Value	RQD %	W_n %	W_p %	W_l %	I_p %	USCS Class.	Soil Pattern	Description	Qu (tsf)
	*	1	24		9-6-3-3	9		23						Fill: Clayey fine grained sand, some gravel, trace concrete and asphalt fragments, trace decayed wood pieces, yellowish brown, dark gray, light gray.	
	*	2	24		4-4-3-2	7		26						Same as above, no concrete or asphalt fragments, no wood pieces, trace to little gravel, yellowish brown.	
5	*	3	24		5-6-14-14	20		35						Same as above, little to some gravel, trace concrete fragments.	
	*	4	24		8-4-6-3	10		26						Same as above, no concrete fragments.	
10	*	5	24		16-50/4"	50/4"		16						Silty gravel, little sand, yellowish brown.	
														End of boring at 10 feet.	
15															
20															
25															
30															
35															
40															
45															

Comments: * Split Spoon Sampler
N.D. - Not Detected

Hammer Weight:	Page 1 of 1	Sampler Size:	Foreman:
140 lb		2' x 2" O.D.	J.L. Rodriguez