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

Project Information

Project Name: Construction of New Public Parking (PR-CRP-000988)

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

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

State/Local Identifier: Puerto Rico/Barranquitas

Preparer: Eng. Carlos Gonzalez Morales, Environmental Consultant

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Consultant (if applicable): Ing. Carlos Gonzalez Morales - Consultor Ambiental

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

Project Location:

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranquitas, PR 00794 Cadastral No.: 247-092-020-12 / 247-092-020-11 / 247-092-020-10-901

Coordinates: 18.185505, -66.305029

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

The Municipality of Barranquitas proposes the construction of a public parking facility facing PR-156 at kilometer 16.3. To increase parking capacity, a two-level parking structure will be built on the existing parking lot within the project area (Figure 1). Site photos are included in the *Field Inspection* section of this EA. The new structure will be constructed of reinforced concrete and will include solar panels to provide energy. It will feature an access ramp connecting to PR-156 for vehicle access. Stairs will be built to access the second level for visitors, and parking spaces will be designated for people with disabilities. Interior and exterior landscaping will be included, and the water distribution, electricity, and sanitary sewage system infrastructure will be connected to the existing infrastructure on PR-156. The proposed project will provide parking for users of the adjacent businesses.

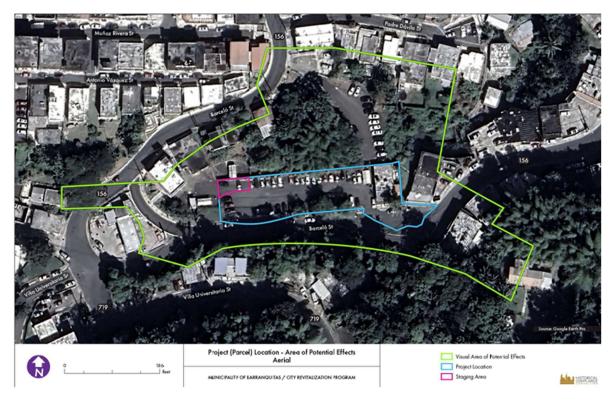


Figure 1. PR-CRP-000988 Barranquitas Project Area

Source: Attachment 10. 106 NHPA Effect Determination

Construction of the new public parking facility will require ground disturbance for structural foundations and utility installation. Excavation activities will include the building foundations, footings, underground electrical distribution system, stormwater drainage system, and potable water system connections. All excavation and grading work will occur within the project footprint, which is approximately 0.41 acres. The construction staging area will be located within the project site (Figure 1). Table 1 summarizes the estimated excavation areas, depths, and volumes by component.

Table 1. Excavation Area, Depth, and Volume by Component

Component	Excavation Area	Depth	Volume
Foundations	72.7 m ² (782.25 ft ²)	9.14 m (30 ft)	664.48 m³ (23,467.5 ft³)
Footings	435.83 m ² (1,429.91 ft ²)	0.99 m (3.25 ft)	131.63 m³ (4,647.21 ft³)
Underground electrical system	8.36 m ² (90 ft ²)	1.22 m (4 ft)	10.19 m³ (360 ft³)
Stormwater drainage system	32.81 m ² (353 ft ²)	0.60 m (2 ft)	20.0 m ³ (706 ft ³)
Drinking water system	0.736 m ² (7.92 ft ²)	0.30 m (1 ft)	0.22 m³ (7.92 ft³)

Source: Attachment 10. 106 NHPA Effect Determination

Statement of Purpose and Need for the Proposal:

In September 2017, Hurricanes Irma and María made landfall in Puerto Rico, causing catastrophic damage across all 78 municipalities. To address these impacts, the U.S. Department of Housing and Urban Development (HUD) allocated Community Development Block Grant—Disaster Recovery (CDBG-DR) funding to support long-term recovery, including programs designed to increase resilience and reduce future vulnerability. The purpose of the proposed project is to expand and improve public parking capacity in the urban center of Barranquitas to support community revitalization and enhance accessibility for residents and visitors. The need for the project arises from inadequate parking in the downtown area, which forces residents and visitors to rely on street parking along narrow roads, contributing to traffic congestion and reduced pedestrian safety. The shortage of safe and accessible parking limits access to the Town Plaza, museums, and businesses. The project will provide a modern, resilient parking facility that addresses these deficiencies, improves circulation and accessibility, and supports the long-term recovery and vitality of Barranquitas.

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

The project site and its surroundings have been substantially altered by urban development, including the construction of commercial and office buildings and the paving of surfaces with asphalt, resulting in soil impermeabilization. Vegetation is limited to ornamental trees planted in strips for landscaping and shade. Local fauna consists primarily of common urban-tolerant species, such as birds and reptiles (e.g., lizards and iguanas).

The site is within the urban center of the Municipality of Barranquitas, an area that has experienced substantial development and land use transformation over time. Natural disasters have further affected the built environment, contributing to the deterioration of some structures. In response, the Municipality has pursued ongoing efforts to preserve and revitalize the cultural heritage of its historic center.

If the proposed project does not proceed, the existing surface parking lot would remain in its current condition and continue to provide limited parking capacity. No new infrastructure would be installed, and no additional parking demand would be met. The site would remain vulnerable to further surface wear, inefficient stormwater management associated with the existing impervious cover, and progressive deterioration. The broader trend of urbanization and incremental redevelopment in the area would likely continue, but without the added parking capacity and site improvements that the project is intended to provide.

Funding Information

Grant Number	HUD Program	Funding Amount
B-17-DM-72-0001	Community David and and Plack Count	\$1,507,179,000
B-18-DP-72-0001	Community Development Block Grant – Disaster Recovery (CDBG-DR)	\$8,220,783,000
B-19-DP-78-0002	Disaster necovery (CDDG-DN)	\$277,853,230

Estimated Total HUD Funded Amount: \$1,703,289.56

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$1,703,289.56

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, A	ND REGULATION	NS 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 a Federal Aviation Administration (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 Merceditas Regional Airport (PSE) approximately 20.64 mi (108,979.20 ft) 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 25.54 mi (134,851.20 ft) measured from the project boundary to the runway.
		Therefore, the project is in compliance with 24 C.F.R. Part 51, Subpart D.
Coastal Barrier Resources		Refer to Attachment 1: Airports Hazards Map
Coastal Barrier Resources Act, as amended by the Coastal Barrier	Yes No	The proposed project is not located within a Coastal Barrier Resources Unit (CBRS). The CBRS Unit closest to the project is PR-47 located to the south of the project site at an approximate distance of 14.28 miles

Improvement Act of 1990 [16 USC 3501]		(75,379 feet). Therefore, the Project is in compliance with the Coastal Barrier Resources Act (CBRA). Refer to Attachment 2: Coastal Barrier Resources Map
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001- 4128 and 42 USC 5154a]	Yes No	The FEMA Flood Insurance Rate Map (FIRM) for the project area, Panel Number 72000C1170H (effective April 19, 2005) shows that the project is not located within a FEMA Special Flood Hazard Area (SFHA)/100-year floodplain and is designated as Zone X, outside the SFHA. 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. Refer to Attachment 3: Flood Insurance Map
STATUTES, EXECUTIVE ORDERS, A	ND REGULATIO	NS 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	According to the US Environmental Protection Agency (EPA) List of Current Nonattainment Counties for all Criteria Pollutants, Barranquitas is in attainment for all pollutants. No new emission sources will be added. 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. Refer to Attachment 4a. Nonattainment Map and Attachment 4b. PR Green Book EPA List of Current Nonattainment Counties for all Criteria Pollutants
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes No	The project is not located within the coastal zone of Puerto Rico, as defined by the State's Coastal Zone Management Program (CZMP). The nearest coastal zone is 13.83 mi (73,031.50 ft) from the project boundary. Therefore, the project is in compliance with the Coastal Zone Management Act, sections 307(c) and (d). Refer to Attachment 5. Coastal Zone Boundary Map
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes No	Historical Use of the Property The project parcel has been extensively disturbed by past development and has long been part of the municipality's urban core. Aerial photographs and mapping show that by at least the mid-20th century the property was subdivided and built upon; five

buildings were constructed and later demolished, and the site transitioned to its current use as an open-air municipal parking area. The land is classified as Urban Soil with an Intermediate Commercial (C-I) zoning designation. No evidence was found of heavy industrial operations and fuel storage. Previous ground disturbance from building construction, demolition, and parking lot paving have likely removed or altered shallow soils.

EPA Facilities

The NEPAssist database was reviewed to identify EPA facilities within 3,000 feet of the project site. Fourteen facilities were identified, some of which are colocated:

- Eleven (11) Hazardous Waste (RCRAInfo) facilities
- Three (3) Air Pollution (ICIS-AIR) facilities

The closest facility is located approximately 0.05 miles from the project site; however, most are located more than 0.1 miles away. All identified facilities appear to be in regulatory compliance with no documented violations, enforcement actions, or unresolved compliance issues noted in available EPA records. Based on available environmental compliance data, no contamination concerns associated with these nearby facilities are anticipated to impact the proposed project. No adverse effects on the project site are expected due to the presence or proximity of these regulated facilities.

Underground Storage Tanks (UST)

Four UST sites were identified within one mile of the project site from the EPA's UST finder database (see Attachment 6d):

TALLER MECANICA AEE (PR_21211-23931), ESSO LA VEGA (PR_21247-23913), TAVIN SS (PR_21250-23937), SHELL SS (PR_21350-23896)

These locations were verified in the PR Planning Board's (PRPB) database (see Attachment 6e) and with the PR Department of Natural and Environmental (DNER)Resources Leaking Underground Storage List (LUST) and the information is found in Attachment 6f.

The evaluation for these 4 sites is as follows:

 Two of these sites, including the closest UST to the project site –located just 0.02 miles away–

- and another located 0.67 miles from the site are not included in any of the LUST database.
- Another site appears on the Active LUST 2024 list and is situated 0.64 miles from the project. Given this distance, any potential leaks are unlikely to impact the proposed project or its intended use.
- Additionally, a third site is located 0.88 miles from the project and is included in the Inactive Sites LUST 2020 list. Its distance and inactive status further suggest it poses no risk to the proposed project or its intended use.

Therefore, it is unlikely that these UST sites represent a significant concern for the proposed project's development or affect the intended use of the site.

Field Inspection Findings

A site visit conducted on July 9, 2023, confirmed that the project parcel is currently used as an open municipal parking lot and is free of debris or dumping. No evidence of USTs, aboveground storage tanks (ASTs), leaking electrical equipment, or hazardous operations was observed. No wastewater discharges, landfills, or disturbed soils indicating contamination were present. The field inspection concluded that no environmental conditions exist on or adjacent to the site that would pose limitations or constraints to the proposed project's development.

Asbestos and Lead-Based Paint

The site has not been subject to Lead-based Paint (LBP) or Asbestos Containing Material (ACM) studies. These will be conducted to any construction or demolition work. If necessary, any remediation must be completed prior to construction start.

Radon

Per HUD Notice CPD-23-103, dated January 11, 2024, the Responsible Entity (RE) must evaluate radon as part of the site contamination analysis for any project involving structures that are occupied or intended to be occupied for at least four (4) hours per day. Since this project involves the construction of a two-level open-air parking facility, which does not meet the occupancy criteria, it is exempt from radon contamination analysis and mitigation requirements.

Therefore, the Project is in compliance with 24 C.F.R. Part 50.3(i) and 58.5(i)(2).

		Refer to Attachment 6a. Contamination and Toxic Substances Map,
		Attachment 6b. Contamination and Toxic Substances Table,
		Attachment 6c. Facility Reports,
		Attachment 6d. Underground Storage Tank (UST) Map-EPA UST Finder,
		Attachment 6e. Underground Storage Tank (UST) Map-PRPB,
		Attachment 6f. UST sites Table,
		Attachment 6g. Active and Inactive Sites LUST Lists (selected pages),
		Attachment 6h. Field Inspection Checklist,
		Attachment 6i. Notice CPD-23-103: Departmental Policy for Addressing Radon in the Environmental Review Process,
		Attachment 10: 106 NHPA Effect Determination
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).
		The project site's IPaC species list included the Puerto Rican boa (<i>Chilabothrus inornatus</i>), which has an endangered status, and Palo de Rosa (<i>Ottoschulzia rhodoxylon</i>), which has a threatened status. However, no Palo de Rosa were identified within the project site (see list of Flora in Attachment 7d). The nearest designated critical habitat is located approximately 10.92 mi (57,647.26 ft) from the project boundary, and the NOAA Environmental Sensitivity ESI Map indicates no environmentally sensitive habitats within the project footprint.
		The proposed project site is located in a highly disturbed, urbanized setting currently used as a municipal parking lot, with no vegetation capable of supporting habitat for listed species. The field inspection confirmed that the property is fully impacted by prior development and lacks vegetation or features that could support sensitive wildlife.
		A Self-Certification under the Blanket Clearance Letter (BCL), dated June 12, 2024, was submitted to the U.S. Fish and Wildlife Service (USFWS) for review. In

		response, USFWS issued a determination on July 11, 2024, confirming that the project complies with applicable requirements and is not likely to adversely affect any federally listed species.
		The project will implement best management practices, including erosion and sediment control and minimization of vegetation disturbance, to avoid any incidental impacts off-site. If a Puerto Rican Boa is found on the project site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the Construction Manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask 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.
		Refer to Attachment 7a: Environmental Sensitivity (ESI) Map
		Attachment 7b: Critical Habitat Map,
		Attachment 7c: USFWS Package with IPaC, and
		Attachment 7d: Habitat Categorization Study and DRNA Certification
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes No	On-site assessment is not required because the activity will not increase residential, institutional, recreational, commercial or industrial densities or conversion. The project does not entail adding an AST. The project will expose neither people nor buildings to any aboveground explosive or flammable fuels or chemicals containers according to 24 C.F.R. §§ 51.201-51.205. Therefore, the project is in compliance with 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	The project sites do not include prime or unique farmland or other farmland of statewide or local importance as identified by the U.S. Department of Agriculture, Natural Resources Conservation Service (NRCS). The project does not include the conversion of agricultural land to other uses.
		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. Refer to Attachment 8: Farmlands Map
Floodplain Management	Yes No	The project is not located within the floodplain. According to the October 2024 Advisory Base Flood

Executive Order 11988, particularly section 2(a); 24 CFR Part 55		Elevation (ABFE), the project is located in Zone X. According to the FIRM Panel number 72000C1170H (effective 4/19/2005), the project is in Zone X Area of Minimal Flood. The Preliminary FIRM Map is not available for the project sites. The project will not undergo activities within a floodplain. Therefore, the Project is in compliance with Executive Order 11988. Refer to Attachment 3: Flood Insurance Map and and Attachment 9. ABFE Map
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes No	Through consultation with the Puerto Rico State Historic Preservation Office (PRSHPO), a finding of No Historic Properties Affected per 36 C.F.R. § 800.4(d)(1) has been received. The Section 106 Effect Determination (EDF) prepared for the project confirmed that the Area of Potential Effect (APE) is highly disturbed, with prior demolition of five buildings documented in 1956 aerial photography and continued use of the lot as paved parking. The project site is located within the Traditional Urban Center (TUC) of Barranquitas, an area with long-standing urban development and cultural resources. No archaeological sites, historic structures, or properties listed in or eligible for listing in the National Register of Historic Places (NRHP) are present within the direct or visual APE. In a letter dated June 5, 2025, State Historic Preservation Officer Carlos A. Rubio Cancela, indicates the following: Our records support your findings of no historic properties affected for this undertaking. Additionally, a No Objection letter was received from the Instituto de Cultura Puertorriqueña (ICP) on June 12, 2024. 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. Refer to Attachment 10: 106 NHPA Effect Determination Attachment 11. TUC Map, and
		Attachment 19: Permits and Approvals
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet	Yes No	The project involves the construction of a new two-level public parking facility. The proposed action is not a noise-sensitive use, as parking facilities are not considered residential, institutional, or other noise-sensitive land uses. Because the project does not

Communities Act of 1978; 24 CFR Part 51 Subpart B		involve a noise-sensitive use, a formal noise assessment is not required, and no attenuation measures are necessary. Temporary noise during construction will occur due to the use of heavy equipment and machinery, cranes, compressors, tools, and trucks hauling construction materials. To minimize noise impact, work will occur during the day. Regular equipment maintenance will occur to ensure optimal operating conditions and prevent unnecessary noise. 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. 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.
		Refer to Attachment 12: Sole Source Aquifers Map
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes No	According to the USFWS's National Wetlands Inventory (NWI), the project is not located within a wetland, and no wetlands are present within the project footprint. The nearest mapped wetland is located approximately 337.1 feet northeast of the project. A field inspection conducted on July 9, 2023 confirmed that the project site is a developed municipal parking lot with no evidence of wetlands within the project footprint. Because the project is located entirely outside of mapped wetlands and no wetland characteristics were observed during screening, no wetland avoidance, minimization, or mitigation measures are required. Therefore, the project complies with the requirements of Executive Order 11990, particularly sections 2 and
		5. Refer to Attachment 6g. Field Inspection Checklist, and
		Attachment 13. Wetlands Map
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, approximately 34 mi (179,580 ft) east of the project. These rivers include La Mina

Refer to Attachment 14. Wild and Scenic Rivers Map
Therefore, the project is in compliance with Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c).
River, Icacos River, and Mameyes River, with the La Mina River being the closest to the Project.

Environmental Assessment Factors [24 CFR 58.40] 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	1	Conformance with Plans The proposed project is located within the TUC of Barranquitas and is consistent with the municipality's comprehensive planning objectives to revitalize its urban center, improve mobility, and support cultural and economic activity. By providing modern parking infrastructure adjacent to the Town Plaza, the project reduces traffic congestion, enhances accessibility for residents and visitors, and complements ongoing revitalization efforts. The project does not conflict with existing land use policies or future planning initiatives and is fully compatible with the community's vision for an accessible town center. Compatible Land Use and Zoning
		The project site is zoned C-I (Intermediate Commercial), a designation that allows for municipal infrastructure such as parking facilities. The parcel is currently used as an informal open-air parking lot, and the

proposed project complies with existing zoning regulations.
Surrounding land uses include commercial, institutional, and residential development consistent with the downtown setting. The project represents infill development within an established urban center and will not contribute to urban sprawl or increase environmental risk relative to the community as a whole. The site is not located within Puerto Rico's karst region.

Scale and Urban Design

The project will not significantly alter the landform, as the site is already

The project will not significantly alter the landform, as the site is already a paved municipal parking lot with no natural vegetation or structures to clear. Construction of a two-level reinforced-concrete parking facility will represent infill development that is compatible in scale and mass with the surrounding commercial and institutional buildings in the TUC. The facility will not introduce elements out of character with the urban setting and will not inappropriately alter density or height relative to nearby structures. Instead, it will improve circulation, reduce congestion, and enhance access to downtown amenities, supporting street-level activity and community interaction. Landscaping will further integrate the project with its surroundings and mitigate heat island effects. Overall, the project conforms to the established urban context and municipal revitalization objectives.

Refer to Attachment 11. TUC Map and Attachment 15. Land Use Plan (PUT) Map

Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff 2 <u>Soil Suitability</u>

There is no evidence of ground subsidence, seismic activity, a highwater table, erosion, or other unusual conditions on the project site, nor any visible evidence of foundation cracking, heaving, settling, or basement flooding in the surrounding neighborhood. A Geotechnical Report was prepared for the site, which included borings that showed the top layers of the site are made up of mixed fill materials, including gravel, sand, clay, and pieces of wood and old construction debris. These materials vary across the site and extend as deep as 20–25 feet in some areas. Below the fill, stronger natural soils and dense decomposed rock were found. No groundwater or unusual soil problems such as subsidence, cracking, or flooding were observed. The land is flat and in an area with low susceptibility to landslides. The study found that if the building were placed directly on the existing fill, some uneven settlement could occur (about 2-3 inches). To avoid this, engineers recommend using rammed aggregate piers beneath certain areas of the structure. Because the property is already paved, relatively small in size, and connected to the municipal stormwater system, the project will not create erosion or runoff problems. The site is not farmland, forest, or a unique natural area, so the project will not displace soils better suited for natural resource uses. Overall, the soil

conditions can safely support the proposed project once the recommended engineering measures are applied.

Slope

The project site is mostly flat and is currently paved as a municipal parking lot. There is no evidence of slope instability, past slides, or slumps in the project area; the field inspection documented no indicators such as cracked retaining walls, tilted trees, or displaced ground. A Geotechnical Report confirmed stable subsoil conditions beneath the fill layer and noted that at the west side of the lot, the access ramp to the second floor will be constructed with upgrading fills in the order of 2.5 to 3.0 meters high. Therefore, a retaining wall will be required. The project does not involve development on or near a steep slope and will therefore not create erosion, slope stability, or runoff problems. Because the site is already developed, slope modification activities will not remove microclimatic conditions that could support unique natural habitats, nor will they affect social or cultural resources.

Erosion

The project site is fully paved and flat, with no evidence of existing erosion or sedimentation issues. The field inspection confirmed that the parcel has been used as a municipal parking lot and does not contain vegetation or soil exposures that could contribute to erosion. The site is not located on or near erosion-sensitive areas such as steep slopes, sandy soils, or surface waters.

The proposed project will involve localized excavation for foundations and utilities, temporarily exposing soils during construction. However, the total disturbance area is small (approximately 0.4 acres), and the site will be repaved and re-covered upon completion. The project will not involve steepening of slopes and is not expected to significantly affect, or be affected by, erosion or sedimentation conditions.

Drainage and Storm Water Runoff

The project site is fully paved and relatively flat, with no indication of cross-lot runoff, swales, rills, or gullies. The field inspection confirmed that the parcel has been used as a municipal parking lot, with filled ground but no evidence of erosion or drainage issues. Existing stormwater runoff from the site is captured by the municipal stormwater system, which will continue to serve the site after redevelopment.

The project will not generate an increase in impervious area, as the site is already asphalt-covered, and therefore no significant change in stormwater volume is anticipated. The municipal drainage infrastructure is expected to adequately service the proposed development. No safety hazards from nearby stormwater features such as open culverts or unprotected large drainage pipes were observed.

The project will not substantially contribute to off-site pollution by stormwater runoff, leaching of chemicals, or other pollutants. Given its

		location in a fully urbanized setting and reliance on municipal drainage, changes in rainfall intensity are not expected to result in adverse impacts. Refer to Attachment 6g. Field Inspection Checklist, Attachment 16. Geotechnical Report, and Attachment 20. Project Plans
Hazards and Nuisances including Site Safety and Noise	2	The field inspection confirmed that the parcel is free of dumping, abandoned vehicles, or evidence of vermin infestation, and no natural or man-made hazards such as USTs/ASTs, leaking equipment, or waste discharges were observed. The site is not located near heavy pollution generators, and there are no known hazards from adjacent land uses that could impact the project. The surrounding area consists of commercial, institutional, and residential development typical of a small urban center. No nuisances such as strong odors, gas, smoke, glare, or vibration were noted in the vicinity.
		Temporary impacts may occur during construction from the use of heavy machinery, cranes, compressors, trucks, and other equipment, which can generate combustion gases and fugitive dust during demolition and site preparation. Standard maintenance will be implemented to keep equipment in optimal operating condition and reduce emissions. Standard dust control measures will be implemented during construction such as watering exposed areas as needed and the use of tarps on hauling trucks to prevent dust from escaping loads per Department of Natural and Environmental Resources (DRNA) requirements.
		The proposed project is not a noise-sensitive use and will not create ongoing noise impacts. Construction will generate temporary noise from equipment and vehicles, but these activities will be short-term and managed through standard construction practices. Once operational, the parking facility will not significantly increase noise levels beyond existing downtown conditions.
		Refer to Attachment 6a. Contamination and Toxic Substances Map,
		Attachment 6b. Contamination and Toxic Substances Table,
		Attachment 6c. Facility Reports,
		Attachment 6d. Underground Storage Tank (UST) Map-EPA UST Finder
		Attachment 6e. Underground Storage Tank (UST) Map-PRPB,
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Assessment Factor	Code	Impact Evaluation
SOCIOECONOMIC	T	1
Employment and Income Patterns	1	The project will generate approximately 40 temporary construction jobs, including equipment operators, laborers, and truck drivers. These positions are expected to be filled primarily by contractors and subcontractors active in Puerto Rico's construction industry, with opportunities for local workers. In addition, the project will create five permanent jobs associated with the operation and maintenance of the parking facility.
		These jobs span a mix of skill sets, from general labor to facility management and maintenance, and align with the skills available within the community. While relatively small in scale, the project is expected to support local employment opportunities and provide a steady source of income for a small number of residents.
		Indirectly, the project will also benefit local businesses, cultural institutions, and municipal services by improving parking availability, reducing congestion, and increasing visitor access to the downtown area. These improvements are expected to create favorable conditions for commerce and tourism without displacing existing employment or income structures.
Demographic Character	2	Demographic Character Changes
Changes, Displacement		The project is located in the TUC of Barranquitas, characterized by a mix of residential, commercial, institutional, and cultural uses, with a majority low- to moderate-income (LMI) population.
		The proposed project will not alter the racial, ethnic, or income composition of the area's housing and does not contribute to segregation or concentration of disadvantaged groups. Instead, the project supports equitable access by providing improved parking capacity and accessibility features that enhance connections to the Town Plaza, municipal services, museums, and local businesses. The facility will not create physical barriers or limit mobility; rather, it will reduce congestion and improve circulation within the downtown area.
		The project does not violate HUD site and neighborhood standards, nor does it create a concentration of LMI households. Environmental impacts are temporary, limited to construction-phase emissions and noise, and will not disproportionately affect LMI or minority residents. Overall, the project will improve access to services, facilities, and cultural resources in downtown Barranquitas.
		<u>Displacement</u>
		The proposed project will not directly displace any individuals or families, as the site is already developed and used as a municipal parking lot with no housing units. The project will also not destroy or

relocate existing businesses, community facilities, or job centers.
Instead, it will expand parking capacity to support the surrounding
commercial and cultural uses. No identifiable groups including older
persons, women, single-parent households, racial or ethnic groups, or
LMI households will be adversely affected by the project.

Environmental Assessment Factor	Impact Code	Impact Evaluation		
COMMUNITY FACILITIE	S AND SERV	ICES		
Educational and Cultural Facilities	2	The proposed two-level public parking facility will not generate housing or increase school enrollment and therefore will not affect the capacity of educational facilities. By organizing parking and reducing congestion, the project will improve access to nearby cultural resources without creating safety concerns or requiring new access routes.		
Commercial Facilities	2	The project will enhance convenient access to retail and service establishments in the Barranquitas TUC. Essential shopping for food, medicine, banks, and other services is already located within a short walking distance from the proposed parking facility, including for older residents. Local retail services are affordable and provide an adequate range of goods and conveniences for area users. Ride share and taxi options are available in the town center, but because retail services are within easy walking distance, no additional transit or paratransit options are needed. The project will not displace or negatively affect existing commercial services; rather, by adding organized parking and reducing congestion, it will improve access to and support the viability of nearby businesses		
Health Care and Social Services	2	The proposed parking facility will not result in a population increase or new residents requiring health or social services, so no additional demand on hospitals, clinics, or skilled medical staff is anticipated. Nonemergency health care providers, including primary care, dental, and mental health services, are located within a short drive of the project site, and emergency services such as police, fire, and ambulances are available within approximately three to five minutes. The project will not require specialized medical services, such as geriatric care, nor will it place demands on social service programs. Social services are available in the downtown area and accessible by foot or local transit, and the project will not overtax these resources or create a concentration of disadvantaged populations in violation of HUD site and neighborhood standards. Refer to Attachment 17. Emergency Facilities Location Map		
Solid Waste Disposal / Recycling	2	During construction, the project will generate non-hazardous solid waste typical of demolition and building activities, including wood, concrete, metals, masonry blocks, cardboard, plastics, and domestic waste from construction workers. It is estimated that approximately 10		

		cubic yards of waste per week will be produced. The contractor will be responsible for estimating the quantities of waste at each construction stage, maintaining designated storage areas, and arranging for collection by an authorized carrier. Construction debris will be transported to the Barranquitas Municipal Landfill, located about 5,250 feet from the site. To promote recycling, the contractor will establish a clearly labeled "Separation and Recycling Area" where recyclable materials (e.g., metals, cardboard, plastics) will be collected and managed under the guidance of the Municipality of Barranquitas Recycling Office. A Recycling Plan will be submitted to the DRNA for review and approval, as required. Construction waste will be separated at the source to facilitate proper storage, transport, and disposal, ensuring that recyclable materials are diverted whenever possible. No hazardous waste is anticipated during construction; if small amounts of fuels, lubricants, or similar materials are used, they will be stored and disposed of by licensed providers following manufacturer specifications. During operation, the parking facility will generate only minor amounts of non-hazardous domestic waste, which will be managed through the Barranquitas Municipal Solid Waste Collection Program, while recyclable materials will be handled through the Municipality's Recycling Program. These provisions ensure that both construction and operational wastes are properly stored, transported, recycled, and disposed of, and that the project will not exceed the capacity of existing municipal solid waste or recycling systems. Refer to Attachment 18. Municipal Landfill Location Map and Attachment 19. Permits and Approvals
Waste Water / Sanitary Sewers	2	The proposed parking facility will be served by the Puerto Rico Aqueduct and Sewer Authority (PRASA) sanitary sewer system, which has sufficient capacity to handle the small volume of wastewater expected from the project. Wastewater generation has been estimated at approximately 1,000 gallons per day, an amount not considered significant relative to the capacity of the municipal infrastructure. Service can be provided by connecting to an existing 8-inch sanitary pipeline along PR-156, and the necessary connection permit can be arranged through PRASA's customer service process. No on-site septic or alternative disposal systems are required. The project area is not prone to flooding or combined sewer overflows, and changes in rainfall are not expected to affect the performance of the municipal sewer
		connection. Refer to Attachment 21. Project Plans

		supply the small quantity of water required for construction activities (primarily for dust control and worker needs) and the minimal operational demand is expected once the facility is complete. No onsite wells, purification systems, or alternative supplies are necessary. Water quality from the PRASA system is treated and monitored to meet U.S. EPA Safe Drinking Water Act standards. The project will not affect sole sources or other aquifers, as no groundwater extraction is planned. Consumption associated with the project will be negligible compared to the community's overall supply and will not degrade water quality or quantity. Refer to Attachment 19. Permits and Approvals and
		Attachment 21. Project Plans
Public Safety - Police, Fire and Emergency Medical	2	Police, fire, and emergency medical services are all located within 1335.3 ft (0.25 mi) of the site. These services are expected to provide response times of only a few minutes, which is adequate for an urban setting.
		The firefighting service is well positioned and equipped to meet the minimal needs of the project, which involves no hazardous materials storage and presents a low fire risk. The site is not in an area of wildfire intensification, so the project will not place additional strain on fire protection resources.
		Emergency health care services are also nearby, ensuring rapid access to first aid or ambulance transport if needed during construction or operation. Because the parking facility is a low-intensity use and will not substantially increase population or activity levels, it will not significantly burden local police, fire, or emergency medical providers in terms of staffing or equipment.
		Refer to Attachment 17. Emergency Facilities Location Map
Parks, Open Space and Recreation	2	Several recreational and cultural facilities are located within walking distance of the project site, including Casa Museo Luis Muñoz Rivera 804 ft (0.15 mi), Mausoleo Familia Muñoz Rivera 929 ft (0.18 mi), Centro Cultural Luis Muñoz Marín 735 ft (0.14 mi), and Escuela Pablo Berdecia 951 ft (0.18 mi). These resources are already served by the TUC's pedestrian network and local streets, providing convenient access for residents and visitors.
		The proposed parking facility will not overload or diminish the capacity of these open space and cultural assets. Instead, it will support their use by improving organized parking, reducing congestion, and enhancing access for visitors, including older adults and people with disabilities through designated accessible spaces.
Transportation and Accessibility	1	The project will improve access and circulation in the downtown area. Because the project is designed to organize existing parking demand rather than add significant new traffic, a formal traffic study is not required. The project will not reduce the level of service on surrounding

roadways, and no special actions to mitigate transportation impacts are necessary.

The facility will be directly accessible from PR-156, the primary corridor through Barranquitas. The design includes adequate vehicular circulation and parking, including accessible spaces and ramps for people with disabilities, as well as sufficient space for service vehicles or small moving trucks.

Pedestrian safety and circulation will be maintained through existing sidewalks, pavement markings, and nearby crosswalks that connect to civic and cultural facilities. Although there are no dedicated bicycle lanes on PR-156, the project will not impede bicycle use, and bicycles can be accommodated within the parking structure if needed. Emergency vehicles will have unobstructed access to the site from PR-156 and surrounding streets.

The parking facility will not expose LMI or minority populations to harmful air pollutants from highway traffic, as it is located in a small urban core with no adjacent high-volume roadways. Overall, existing and foreseeable transportation facilities and services are adequate to meet the project's needs, and the design improves accessibility for visitors, residents, older adults, and people with disabilities.

Temporary traffic management measures shown in project plans will guide vehicles and protect pedestrians during construction, while final signage, pavement markings, and other permanent traffic controls for the parking facility will be addressed in a Traffic Control Plan to be established in conjunction with the Municipal Police.

Refer to Attachment 21. Project Plans

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	Unique Natural Features The project is located within an urbanized area and there are no known unique natural features on or adjacent to the project sites. The proposed construction will occur on previously developed or disturbed urban lots.
		The project will not degrade or obstruct access to any natural or scenic features, nor will it impact viewsheds or visual corridors to notable natural landmarks. No introduction of non-indigenous or invasive species is anticipated as part of project landscaping or construction.
		Runoff from the project will be managed in accordance with best practices for stormwater and erosion control, and no degradation of off-site natural resources is expected. As a result, the project will not

adversely affect any unique natural features or ecosystem services in the surrounding area. **Water Resources** A site visit and review of desktop data from the U.S. Geological Survey data, NOAA, and the Planning Board confirm that the proposed project will not impact surface waters or other sensitive resources. No unique riparian or aquatic habitats occur on or near the parcel. The site is not subject to rapid water withdrawal or aquifer drawdown concerns. Geotechnical borings did not detect groundwater within the depth explored. There is no evidence of a shallow or problematic groundwater level, and there are no large-capacity wells pumping significant volumes nearby. The closest drinking water well, Pozo Tres Caminos, is located approximately 5,709 ft (1.08 mi) from the site and is owned by PRASA/AAA. The project will not affect this or other water supply sources. The project will not involve septic systems or other on-site wastewater disposal and will not introduce pollutants to surface or groundwater. Because the parcel is already paved, construction will not increase impervious cover, and runoff will continue to be handled by the municipal stormwater system with standard erosion and sediment controls. No special measures are required to protect groundwater recharge or downstream water users, as the project's small scale and urban setting are not expected to significantly impact water resource conditions. Refer to Attachment 6g. Field Inspection Checklist, Attachment 7a. Environmental Sensitivity Map (ESI), Attachment 20. Water Well Extraction Map, and **Attachment 21. Project Plans** 2 Vegetation, Wildlife Vegetation Vegetation on the project site is limited to a few ornamental trees planted in narrow strips along sidewalks and streets. No remnant or endemic plant communities, agricultural lands, or habitats containing rare, threatened, or protected species occur on or adjacent to the site. The USFWS' IPaC species list identified that the endangered Palo de Rosa (Ottoschulzia rhodoxylon) may be present at the site. However, the species inventory did not identify it at the project site (see Attachment 7d). The proposed parking facility will not introduce non-native or invasive vegetation, nor will it require landscape maintenance practices that could threaten nearby habitats or agricultural activities. The limited removal of any existing ornamental trees or shrubs will be offset by planned landscaping and green areas described in the project scope, which include interior and perimeter gardens to improve aesthetics and provide shade.

Wildlife

Wildlife use is minimal and limited to common urban-adapted species. No riparian corridors, wetlands, or natural habitats occur on or adjacent to the site, and no fish spawning grounds, or game species habitat will be affected. Consultation with the USFWS identified no designated critical habitat within the project footprint or nearby areas. The project site's IPaC species list included only the Puerto Rican boa (*Chilabothrus inornatus*), which has an endangered status. The RE has adopted the following strategy to address encounters with the Puerto Rican boa: If a Puerto Rican Boa is found on the project site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the Construction Manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask them to relocate the Boa.

The project will not alter groundwater levels; damage tree covers essential for wildlife or create barriers to wildlife movement. Landscaping will include ornamental plantings compatible with the urban setting, which may provide limited cover or perching habitat but will not encourage pest species. No excessive grading, noise, pesticide use, or runoff is expected to harm wildlife or sensitive habitats.

A habitat categorization ("Categorización de Hábitat") was prepared for the project to comply with the DRNA requirements. In the report, the site is described as a property that "has been previously impacted by the construction of structures and soil impermeabilization. The dominant vegetation consists of trees planted as part of a landscaping design, arranged in planting strips that provide shade. The local fauna is limited to several species of birds and reptiles, such as lizards and iguanas, typically found in urban areas." Per project drawings, some trees in the site will be removed. The habitat categorization indicates that to improve aesthetics and existing conditions, native trees, shrubs, and palms will be planted. For this, a planting plan will be developed and authorized under the Tree Cutting, Planting, and Reforestation Permit. The resulting vegetation to be included in the project is expected to provide equal or improved habitat for wildlife compared to current conditions, through the use of species that offer food sources. The tree species to be planted will be selected from the list provided under Act No. 97 of June 24, 1998 – Law to Promote the Planting of Trees Whose Fruits or Seeds Provide Food for Wild Bird Species of Puerto Rico.

After evaluation, DRNA issued the following determination: "We have categorized the site as Natural Habitat with Low Potential to Become Critical Habitat, High Ecological Value Habitat, or Ecological Value Habitat."

Overall, the project will have no adverse effect on native vegetation, wildlife, protected species, or broader ecosystem functions.

		Refer to Attachment 6g. Field Inspection Checklist, Attachment 7a. Environmental Sensitivity Map (ESI), Attachment 7c. USFWS Package with IPaC, Attachment 7d. Habitat Categorization Study and DRNA Certification, and Attachment 21. Project Plans
Other Factors	2	N/A

Environmental Assessment Factor	Impact Code	Impact Evaluation		
ENERGY	Code	Impact Evaluation		
Energy Efficiency	2	The proposed public parking facility is located in the TUC of Barranquitas within walking distance of shops, cultural centers, schools, and municipal services. Its location supports compact land use, reducing vehicle circulation and idling compared to informal on-street parking. The design includes interior and perimeter landscaping that will provide shade for parked cars and reduce pavement heat gain. No south-facing façade optimization is needed because the structure is primarily open-air and does not include enclosed conditioned spaces.		
		The project is not a residential or conditioned commercial building, so Energy Star appliances and green building certifications do not directly apply. Lighting for the parking decks will use efficient fixtures, and solar panels are planned to supply part of the facility's electrical demand.		
		The facility's estimated energy load is 25 kVA, as approved in LUMA's Endoso Final, a negligible increase in demand relative to the capacity of the local grid. No significant greenhouse gas emissions are expected beyond temporary construction equipment use and minimal operational lighting demand. Solar energy integration will further offset indirect emissions from grid electricity. Water use will be minimal and limited to construction and landscape irrigation and maintenance during operations.		
		Because of its small size and non-residential nature, the project is not expected to pursue LEED-ND or other green-building certifications. However, the inclusion of photovoltaic panels may qualify for Puerto Rico or federal renewable energy incentives, which can be evaluated during final design and procurement.		
		Refer to Attachment 19. Permits and Approvals and		
		Attachment 21. Project Plans		

Additional Studies Performed:

- Attachment 7d. Habitat Categorization Study and DRNA Certification
- Attachment 16. Geotechnical Report

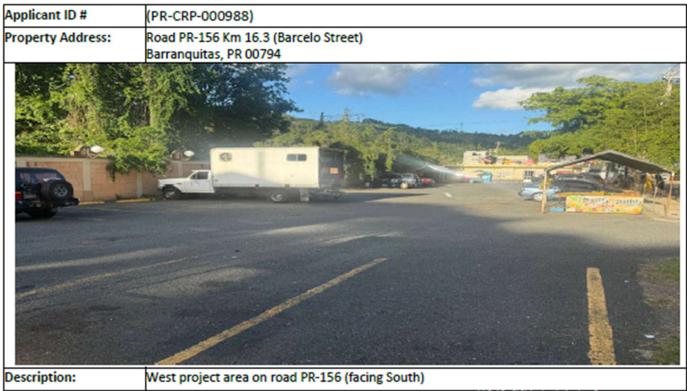
Field Inspection (Date and completed by):

The field inspection was conducted by Eng. Carlos González Morales, Environmental Specialist on July 9,2023 and included as Attachment 6g.

Site Photo 1:



Site Photo 2:



List of Sources, Agencies and Persons Consulted:

Data Sources:

- Esri Imagery Basemap service
- Flood zone data obtained from Federal Emergency Management Agency (FEMA) web viewer
- Coastal Zone Management Act files obtained from the National Oceanic and Atmospheric Administration (NOAA)
- Wetlands, Coastal Barrier Resource Zone and Critical Habitat data (USFWS)
- Wild and Scenic River data from US Forest Service (USFS)
- Hazardous site, UST, Sole Source Aquifer, and air quality data from Environmental Protection Agency (EPA)
- Puerto Rico Planning Board website.
- Land use data obtained from the Puerto Rico Planning Board (PRPB)
- TUC map obtained from Puerto Rico SHPO (PRSHPO)
- USDA-NRCS (Natural Resources Conservation Service) Farmland Classification Map
- Google Earth Various Distance and Location Maps
- State Historic Preservation Office (SHPO)
- Puerto Rico Culture Institute (ICP)
- Permits Management Office (OGPe)
- Federal Communications Commission (FCC)
- Department of Natural and Environmental Resources (DRNA)
- LUMA Energy

- Puerto Rico Aqueduct and Sewer Authority (AAA)
- Department of Transportation (DOT)
- Highway and Transportation Authority (ACT)
- Telecommunications Bureau of Puerto Rico (NET)

Agencies Consulted:

- United States Fish & Wildlife Service (USFWS)
- State Historic Preservation Office (SHPO)
- Department of Natural and Environmental Resources (DRNA)

List of Permits Obtained (Attachment 19):

- DRNA (Certification of compliance with PR Environmental Public Policy, Law 416)
- ICP
- LUMA Energy
- A Construction Permit must be submitted to the Puerto Rico Permit Management Office (OGPe) for approval.
 - As part of the permit application, a sign will be installed at the project site to inform the public about the project and provide contact information if any comment arises.

Public Outreach [24 CFR 50.23 & 58.43]:

The Finding of No Significant Impact (FONSI) will be published in Spanish and English languages after the approval of this Environmental Review Record. This approval signifies that, after careful analysis, the project will not cause significant adverse environmental effects. The FONSI determination will be publicly available and published in a newspaper, providing the community with full transparency regarding the project's environmental impact.

Cumulative Impact Analysis [24 CFR 58.32]:

The proposed project will provide organized parking to support nearby businesses, cultural institutions, and public services. Socially, the project is expected to have a positive impact by improving access to community resources such as museums, cultural centers, and municipal offices, while reducing traffic congestion and improving pedestrian safety in the downtown area. These benefits complement broader municipal revitalization initiatives supported by CDBG-DR funds, which aim to restore economic activity and enhance the quality of life in town centers.

From an environmental perspective, the project's incremental impact is minimal because the site is already developed and paved. Construction will generate only short-term emissions, noise, and solid waste, which will be mitigated through good housekeeping practices, dust suppression, and proper debris management as required by DRNA. There are no wetlands, rivers, or other sensitive habitats in or near the project area, and no federally listed species or cultural resources will be affected. Landscaping will include small gardens and shade trees, improving visual quality and urban heat conditions without introducing invasive plants.

Infrastructure impacts will also be limited. The project will make use of existing water, sewer, drainage, and power systems, all of which have adequate capacity to serve the minor needs of the facility. It will not require expansion of roadways or major utilities. Other ongoing or foreseeable actions in the

vicinity such as streetscape improvements, cultural building maintenance, and small-scale commercial upgrades are consistent with the municipality's revitalization strategy and are not expected to collectively create significant adverse environmental effects.

Alternatives [24 CFR 58.40(e)]:

During project planning, relocating the proposed parking facility to another parcel was considered. However, no other site offered the same strategic advantages as the selected parcel in the TUC. Alternative locations would have been farther from existing businesses, cultural facilities, and municipal services, reducing their effectiveness in easing congestion and supporting downtown commerce. They also would have required additional infrastructure (e.g., roadway connections, drainage) and potentially increased environmental impacts by disturbing undeveloped land or encouraging sprawl beyond the historic center. For these reasons, alternative sites were dismissed.

Different design approaches such as expanding surface parking would require more impervious area, leaving less room for green space and potentially increasing stormwater runoff. The chosen two-level design efficiently uses the existing footprint, adds landscaped buffers and shade trees, and minimizes new impervious cover while meeting accessibility and safety requirements.

No Action Alternative [24 CFR 58.40(e)]:

Under the no action alternative, the project would not proceed, and the site would remain in its current condition, with inadequate capacity. Traffic issues would persist, limiting access to nearby businesses, museums, and cultural venues. Economic recovery goals for the downtown area, supported by CDBG-DR funding, would not be fully realized.

Summary of Findings and Conclusions:

The proposed project is not expected to result in significant adverse environmental impacts. Onsite assessments confirmed the absence of contamination and hazardous materials. Endangered species concerns have been cleared under the USFWS BCL. The project site consists of a previously developed urban lot with no critical habitats or unique ecological features present.

No historic or cultural resources are located within the APE, and SHPO concurrence has been received. In accordance with SHPO coordination, standard protocols will be followed to halt work and notify authorities if resources are discovered during construction. Stormwater runoff and erosion will be managed through best practices, and the project avoids floodplains and wetlands.

The project aligns with local land use plans, is compatible with surrounding residential development, and is fully supported by existing infrastructure. Waste, water, and energy needs will be managed through public utilities and in accordance with regulatory requirements. With these findings and mitigation measures in place, the project is compliant with applicable environmental laws and is anticipated to have a minimal environmental footprint. Overall, the project will not significantly impact the environment, and all permitting recommendations will be followed.

Mitigation Measures and Conditions

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
Contamination and Toxic Substances	Lead-based paint (LBP) and asbestos-containing materials (ACM) assessments will be conducted prior to the initiation of any demolition or construction activities associated with the proposed project. In the event that LBP or ACM are identified, appropriate remediation procedures will be implemented in accordance with applicable environmental and safety regulations to ensure compliance before construction begins.
Endangered Species	If a Puerto Rican Boa is found in the project sites, 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.
Hazards and Nuisances including Site Safety and Noise	Follow erosion and sediment control measures as specified by DRNA (Attachment 19).
Solid Waste Disposal / Recycling	A Recycling Plan will be submitted to the DRNA for review and approval (Attachment 19).
Historic Preservation	Follow historic resource protection standards including Reglamento Conjunto conservation provisions as specified in the ICP No Objection Determination (Attachment 19).
Vegetation, Wildlife	 Per project drawings, some trees in the site will be removed. The "Habitat Categorization" (Attachment 7d) document indicates that: A planting plan will be developed and authorized under the Tree Cutting, Planting, and Reforestation Permit. The vegetation to be included in the project plan is expected to provide equal or improved habitat for wildlife compared to current conditions, through the use of species that offer food sources. The tree species to be planted will be selected
Energy Efficiency	from the list provided under Act No. 97 of June 24, 1998 – Law to Promote the Planting of Trees Whose Fruits or Seeds Provide Food for Wild Bird Species of Puerto Rico. Construct electrical systems in accordance with approved plans and applicable technical standards as specified in the LUMA Electrical Endorsement (Attachment 19).

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 en	vironment.
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: Could Drugg Mrs.	Date: 10/03/2025
Name/Title/Organization: Carlos González Morales/CGM Environmental C	Consultants
Certifying Officer Signature:	Date: October 9, 2025
Name/Title: Santa D. Ramírez Lebrón / 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	Airport Hazards Map
2	Coastal Barrier Resources Map
3	Flood Insurance Map
4a	Nonattainment Map
4b	PR Green Book
5	Coastal Zone Boundary Map
6a	Contamination and Toxic Substances Map
6b	Contamination and Toxic Substances Table
6c	Facility Reports
6d	Underground Storage Tank (UST) Map – EPA UST Finder
6e	Underground Storage Tank (UST) Map – PRPB
6f	UST sites Table
6g	Active and Inactive Sites LUST Lists (selected pages)
6h	Field Inspection Checklist
6i	Notice CPD-23-103: Departmental Policy for Addressing
	Radon in the Environmental Review Process
7a	Environmental Sensitivity Map (ESI)
7b	Critical Habitat Map
7c	USFWS Package with IPaC
7d	Habitat Categorization Study and DRNA Certification
8	Farmland Classification Map and Legend
9	ABFE Map
10	106 NHPA Effect Determination
11	TUC Map
12	Sole Source Aquifers Map
13	Wetlands Map
14	Wild and Scenic Rivers Map
15	Land Use Plan (PUT) Map
16	Geotechnical Report
17	Emergency Facilities Location Map
18	Municipality Landfill Location Map
19	Permits and Approvals
20	Water Well Extraction Map
21	Project Plans

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranquitas, PR 00794

PR-CRP-000988 Barranquitas - Construction of New Public Parking



Source: Google Earth (Spatial Reference: WGS84) at URL https://earth.google.com/

Attachment 2. Coastal Barrier Resources Map

Address: State Road PR-156 Km 16.3, Pueblo Ward,

U.S. Fish and Wildlife Service

Barranquitas, PR 00794

Coordinates: 18.185505, -66.305029





CBR (Estacionamiento)



August 26, 2025 **CBRS** Units

Otherwise Protected Area



System Unit



PR-CRP-000988

This map is for general reference only. The Coastal Barrier Resources System (CBRS) boundaries depicted on this map are representations of the controlling CBRS boundaries, which are shown on the official maps, accessible at https://www.fms.gov/library/collections/official-coastal-barrier-resources-system-maps. All CBRS related data should be used in accordance with the layer metadata found on the CBRS Mapper

The CBRS Buffer Zone represents the area immediately adjacent to the CBRS boundary where users are advised to contact the Benice for an official determination (https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation) as to whether the property or project site is located "in" or "out" of the CBRS.

CBRS Units normally extend seaward out to the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward

Attachment 3. Flood Insurance Map

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranquitas,

PR 00794

Coordinates: 18.185505, -66.305029





FEMA FLOOD MAP

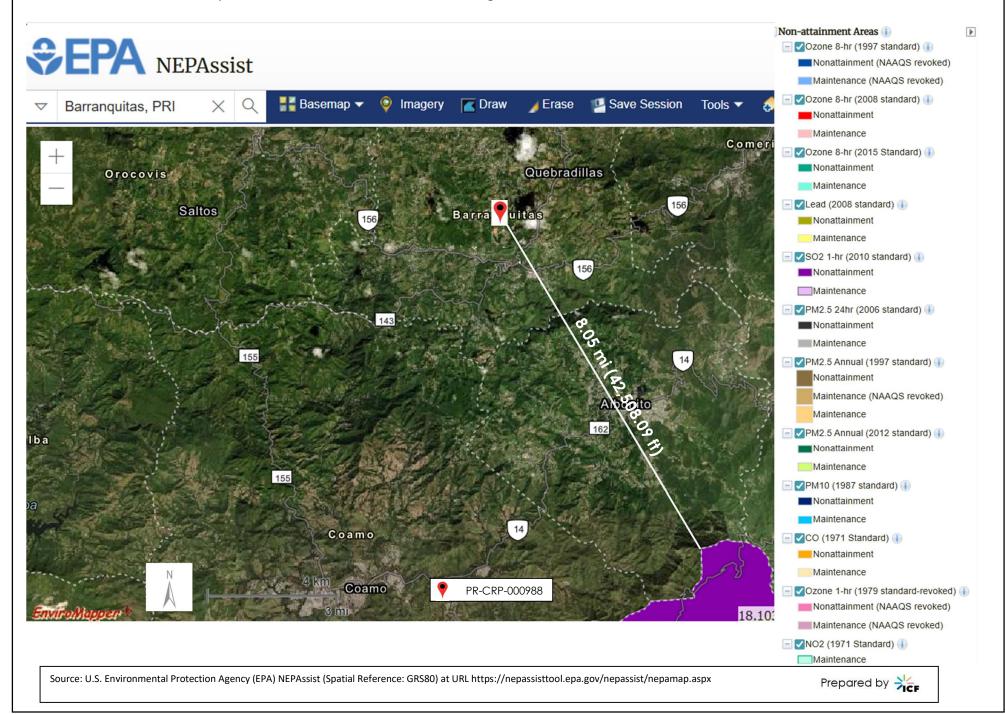




Source: FEMA FIRMette (Spatial Reference: NAVD88) at URL https://msc.fema.gov/portal/search

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranguitas, PR 00794

PR-CRP-000988 Barranquitas - Construction of New Public Parking



Attachment 4b

PR Green Book



You are here: EPA Home > Green Book > National Area and County-Level Multi-Pollutant Information > Puerto Rico Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants

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

Data is current as of August 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/m³) 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 Datas	et: dbf xls	Data	dictionary	(PDF)
		Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)	State/ County FIPS Codes
PUERTO	RICO							
Arecibo Municipio	Lead (2008)	Arecibo, PR	11 12 13 14 15 16 17 18 192021 22 23 24 25	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	1819202122232425	//		Part	22,921	72/021
Catano Municipio	Sulfur	San Juan, PR	1819202122232425	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	PR	929394959697989900010203040506070809	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	1819202122232425	//		Part	23,802	72/061
Salinas Municipio	Sulfur	Guayama-	1819202122232425	//		Part	23,401	72/123
C I	Sulfur	San Juan, PR	1819202122232425	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	1819202122232425	//		Part	52,441	72/137

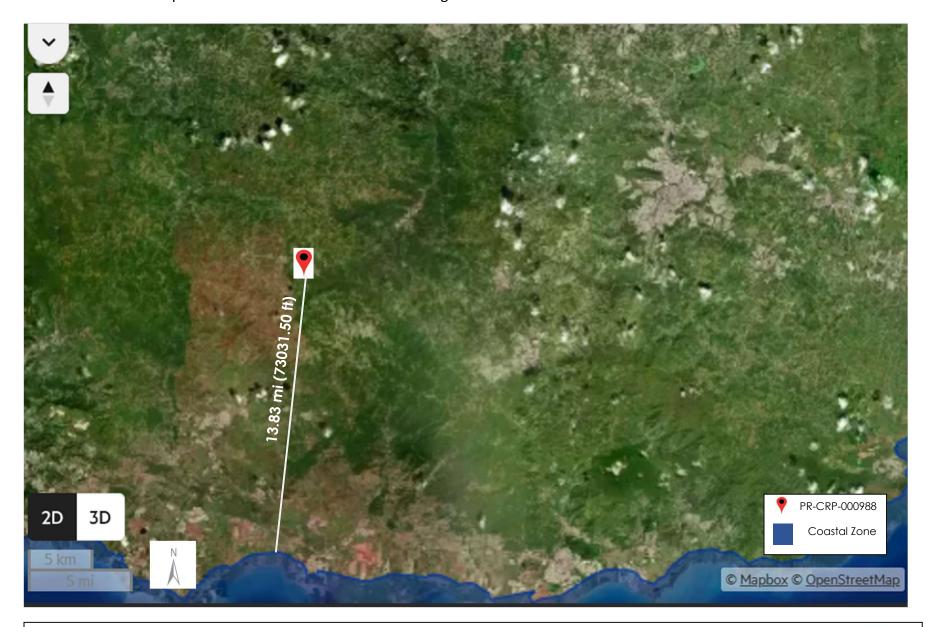
Important Notes

Discover. Connect. Ask.

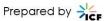
Follow.

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranquitas, PR 00794

PR-CRP-000988 Barranquitas - Construction of New Public Parking



Source: US National Oceanic and Atmospheric Administration (NOAA), US Coastal Zone Management Act boundary (Spatial Reference: WGS84) at URL https://koordinates.com/layer/20522-us-coastal-zone-management-act-boundary/



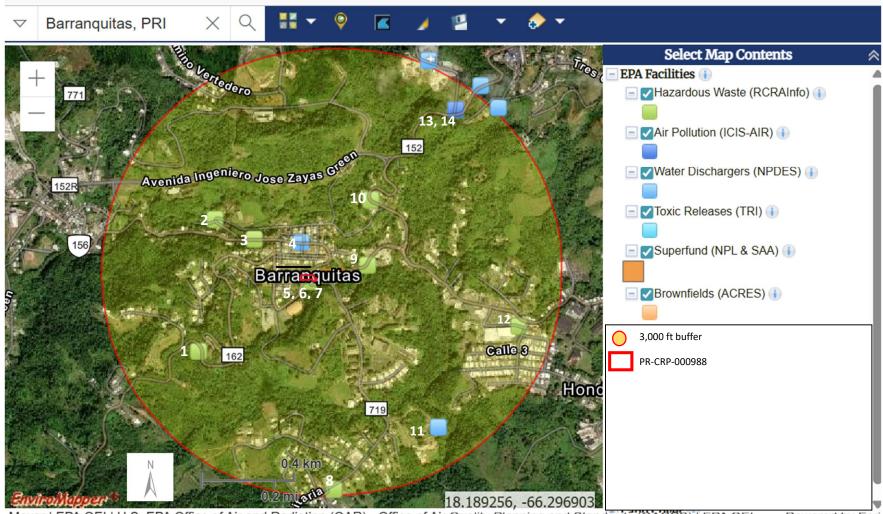
PR-CRP-000988 Barranguitas - Construction of New Public Parking

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranquitas, PR 00794



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Attachment 6b. Contamination and Toxic Substances Table

PR-CRP-000988 Barranquitas

ID	EPA Facility	Distance from Project Site	Direction from Project Site	Description
1	Hazardous Waste (RCRAInfo)	0.40 mi	SW	ESSO LA PELOTA - FORMER SS PR-162 KM 9.2 BO HELECHAL, BARRANQUITAS, PR 00794 FRS ID110007822311 EPA Region02 Latitude18.182564 Longitude-66.310307 Locational Data SourceRCRAINFO Industries Indian CountryN
2	Hazardous Waste (RCRAInfo)	0.32 mi	NW	DEPT OF ED - JOSE BERRIOS BERDECIA Handler ID: PR0000011205 CALLE MELITON PERELES - PUEBLO BARRANQUITAS, PR 00618 County Name: BARRANQUITAS Latitude: 18.18747 Longitude: -66.30964 Hazardous Waste Generator: Owner Name: DEPT OF EDUCATION
3	Hazardous Waste (RCRAInfo)	0.20 mi	NW	DEPT OF ED - PABLO COLON BERDECIA Handler ID: PR0000012666 AVE ANTONIO BARCELO 156 BARRANQUITAS, PR 00618 County Name: BARRANQUITAS Latitude: 18.186749 Longitude: -66.308099 Hazardous Waste Generator: Owner Name: DEPT OF EDUCATION
4	Air Pollution (ICIS-AIR)	0.07	NW	FACILITY NAME MUNICIPALITY OF BARRANQUITAS NPDES PRR040056 STREET 1 23 LUIS MUÑOZ RIVERA ST CITY BARRANQUITAS COUNTY NAME BARRANQUITAS STATE PR ACTIVITY STATUS Expired ZIP CODE 00794 REGION Region 2 TYPE OF PERMIT ISSUED General Permit LATITUDE +18.186611 LONGITUDE +66.306278 PERMIT EXPIRED DATE 30-JUN-2021
5	Hazardous Waste (RCRAInfo)	0.05 mi	S	BARRANQUITAS SS 0558 Handler ID: PRR000004085 CALLE BARCELO 48 BARRANQUITAS, PR 00794-1734 County Name: BARRANQUITAS Latitude: 18.18534

ı				1
				Longitude: -66.305257
				Hazardous Waste Generator:
				Owner Name: RODOLFO TORRES
6	Hazardous Waste	0.05 mi	S	MIKE FOTO
	(RCRAInfo)			Handler ID: PRR000011577
				63 CALLE BARCELO
				BARRANQUITAS, PR 00794-1748
				County Name: BARRANQUITAS
				Latitude: 18.18538
				Longitude: -66.30445
				Hazardous Waste Generator:
				Owner Name: MIKE FOTO
7	Hazardous Waste	0.05 mi	S	PR PUBLIC HOUSING ADM RES VILLA UNIVERSI
	(RCRAInfo)	0.00		Handler ID: PRR000010017
	(rteru urrio)			CARR 719 KM 0.3 EDIF ADMIN
				BARRANQUITAS, PR 00794
				County Name: BARRANQUITAS
				Latitude: 18.185142
				Longitude: -66.305956
				Hazardous Waste Generator:
	Hannada va Minata	0.50		Owner Name: PR PUBLIC HOUSING ADMIN
8	Hazardous Waste	0.59	S	ABC METAL MFG
	(RCRAInfo)			Handler ID: PRN008013401
				RD 719 KM 1.5
				BARRANQUITAS, PR 99999
				County Name: BARRANQUITAS
				Latitude: 18.177387
				Longitude: -66.304983
				Hazardous Waste Generator:
				Owner Name:
9	Hazardous Waste	0.07 mi	E	CENTRO DE SALUD INTEGRAL DE LA MONTANA
	(RCRAInfo)			Handler ID: PRN008021651
				53 BARCELO ST
				BARRANQUITAS, PR 00794-1735
				County Name: BARRANQUITAS
				Latitude: 18.18579
				Longitude: -66.30365
				Hazardous Waste Generator:
				Owner Name:
10	Hazardous Waste	0.20	NE	BARRANQUITAS STP
	(RCRAInfo)			Handler ID: PRD000689307
	(/			STATE RD 152 KM 0.2
				BARRANQUITAS, PR 00618
				County Name: BARRANQUITAS
				Latitude: 18.18822
				Longitude: -66.303512
				Hazardous Waste Generator:
				Owner Name: OWNERNAME
11	Air Pollution (ICIC	0.50	CE	
11	Air Pollution (ICIS-	0.50	SE	FACILITY NAME PRASA - BARRANQUITAS WWTP
	AIR)			NPDES PRL025861
				STREET 1 ROAD 719 KM. 0.2
				CITY BARRANQUITAS

				STATE PR ACTIVITY STATUS Effective ZIP CODE 00737-0666 REGION Region 2 TYPE OF PERMIT ISSUED Associated Permit Record LATITUDE 18.179707 LONGITUDE -66.300838 PERMIT ISSUED DATE 01-JAN-2021 EXPIRED DATE 31-DEC-2025
12	Hazardous Waste (RCRAInfo)	0.51	E	SHELL CO PR LTD SS 0558 BARRANQUITAS Handler ID: PRR000005215 BARCELO ST BARRANQUITAS, PR 00794 County Name: BARRANQUITAS Latitude: 18.18347 Longitude: -66.2977 Hazardous Waste Generator: Owner Name: THE SHELL CO PR LTD
13	Air Pollution (ICIS-AIR)	0.54 mi	NE	PR ASPHALT BARRANQUITAS PR 152 KM 1.0 BO. QDA. GRANDE BARRANQUITAS, PR 00794 Operating Status OPR Operating Status Desc. Operating Facility ID PR0000007201900018 State Registration Number PFE-0892-1100 Facility Type Code POF Facility Type Desc. Privately Owned Facility
14	Hazardous Waste (RCRAInfo)	0.54 mi	NE	BETTEROADS ASPHALT CORP Handler ID: PRD987381241 PR 152 KM 1.0 BARRANQUITAS, PR 00618 County Name: BARRANQUITAS Latitude: 18.191606 Longitude: -66.300173 Hazardous Waste Generator: Owner Name: ARTURO DIAZ

Attachment 6c

Facility Reports



Detailed Facility Report

Facility Summary

ESSO LA PELOTA - FORMER SS

PR-162 KM 9.2 BO HELECHAL, BARRANQUITAS, PR 00794

FRS (Facility Registry Service) ID: 110007822311

EPA Region: 02

Latitude: 18.182564

Longitude: -66.310307

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	
Date of Last Compliance Monitoring Activity	05/25/2001
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	
Formal Enforcement Actions (5 years)	
Penalties from Formal Enforcement Actions (5 years)	-
EPA Cases (5 years)	
Penalties from EPA Cases (5 years)	-

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRR000011478)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007822311					N	18.182564	-66.310307

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
RCRAInfo	RCRA	PRR000011478	Other	Inactive ()			N	18.182564	-66.310307

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007822311	ESSO LA PELOTA - FORMER SS	PR-162 KM 9.2 BO HELECHAL, BARRANQUITAS, PR 00794	Barranquitas Municipio
RCRAInfo	RCRA	PRR000011478	ESSO LA PELOTA - FORMER SS	RD 162 KM 9.2 HELECHAL WARD, BARRANQUITAS, PR 00794	Barranquitas Municipio

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

System Identifier SIC Code SIC Description System Identifier NAICS Code NAICS Description

No data records returned

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <a href="https://www.epa.gov/compliance/

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000011478	No	09/06/2025	0	09/05/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Vio	iolation	QTR1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA	(Source ID: PRR000011	1478) 1	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25	07/01-09/30/25
	Facility-Level Stat	tus	No Violation Identified											
	Violation Age	gency												

Informal Enforcement Actions

Last 5 Years

Statute Source ID Type of Action Lead Agency System Date

No data records returned

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

Formal Enforcement Actions | Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	ant Within Nonattainment Status Area? Nonattainment Status Applicable Standard(s)		Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)		
No data records returned						
No data records returned						

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))			
Total Persons	5,020		
Population Density	1,609/sq.mi.		
Housing Units in Area	2,133		
Percent People of Color	100%		
Households in Area	1,567		
Households on Public Assistance	99		
Persons With Low Income	4,071		
Percent With Low Income	82%		

Geography				
Radius of Selected Area	1 mi.			
Center Latitude	18.182564			
Center Longitude	-66.310307			
Total Area	3.121 sq.mi.			
Land Area	100%			
Water Area	0%			

Income Breakdown (ACS (American Community Survey)) - Households (%)			
Less than \$15,000	778 (49.68%)		
\$15,000 - \$25,000	306 (19.54%)		
\$25,000 - \$50,000	294 (18.77%)		
\$50,000 - \$75,000	110 (7.02%)		
Greater than \$75,000	78 (4.98%)		

Age Breakdown (ACS (American Community Survey)) - Persons (%)		
Children 5 years and younger	283 (6%)	
Minors 17 years and younger	1,102 (22%)	
Adults 18 years and older	3,918 (78%)	
Seniors 65 years and older	879 (18%)	

Race Breakdown (ACS (American Community Survey)) - Persons (%)			
White	2,786 (55%)		
African-American	382 (8%)		
Hispanic-Origin	5,012 (100%)		
Asian	0 (0%)		
Hawaiian/Pacific Islander	0 (0%)		
American Indian	5 (0%)		
Other/Multiracial	416 (8%)		

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)				
Less than 9th Grade	491 (14.25%)			
9th through 12th Grade	325 (9.43%)			
High School Diploma	1,024 (29.72%)			
Some College/2-year	554 (16.08%)			
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	668 (19.39%)			



EPA Home https://epa.gov/">https://epa.gov/ / RCRAInfo https://epa.gov/envirofacts/rcrainfo

RCRAInfo Facility

Home | Multisystem Search | Topic Searches | System Data Searches | About the Data | About the Data | Data Downloads | Widgets | Mobile | Mobile | Other Datasets | Mobile https://www.epa.gov/enviro/other-datasets | Mobile https://www.epa.gov/enviro/other-datasets https://www.epa.gov/enviro/other-datasets https://www.epa.gov/enviro/other-datasets

Facility Information

DEPT OF ED - JOSE BERRIOS BERDECIA
Handler ID: PR0000011205
CALLE MELITON PERELES - PUEBLO
BARRANQUITAS, PR 00618

County Name: BARRANQUITAS

Latitude: 18.18747

Longitude: -66.30964

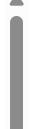
Hazardous Waste Generator:

Owner Name: DEPT OF EDUCATION

BIENNIAL REPORT SUMMARY

No Biennial Report data is available for the facility listed above.

LIST OF FACILITY CONTACTS



NAME	STREET	CITY	STATE	ZIP CODE	Pŀ
CARLOS MARRERO LUNA	CALLE MELITON PERELES -	BARRANQUITAS	PR	00618	78

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE

Not in a universe

LIST OF PROCESS UNIT INFORMATION FOR GROUP

https://epa.gov/envirofacts/metadata/table/rcra/rcr_pm_unit

No Process Information is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

No NAICS Codes are available for the facility listed above.

LIST OF WASTE CODES AND DESCRIPTIONS

No Waste Codes are available for the facility listed above.

Contact Us https://www.epa.gov/enviro/forms/contact-us-about-envirofacts to ask a question, provide feedback, or report a problem.

Last updated on August 13, 2025



EPA Home https://epa.gov/">https://epa.gov/ / RCRAInfo https://epa.gov/envirofacts/rcrainfo

RCRAInfo Facility

Home | Multisystem Search | Topic Searches | About the | About the Data | About the Data | Widgets | Widgets | Mobile | Other Datasets | Mobile | Other Datasets | Nobile | Other Datasets | Nobile | Other Datasets | Nobile <a href="h

Facility Information

DEPT OF ED - PABLO COLON BERDECIA

Handler ID: PR0000012666

AVE ANTONIO BARCELO 156

BARRANQUITAS, PR 00618

County Name: BARRANQUITAS

Latitude: 18.186749

Longitude: -66.308099

Hazardous Waste Generator:

Owner Name: DEPT OF EDUCATION

BIENNIAL REPORT SUMMARY

No Biennial Report data is available for the facility listed above.

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	Pŀ
CARLOS MARRERO	AVE ANTONIO BARCELO 156	BARRANQUITA	PR	00618	78

NAME	STREET	CITY	STATE	ZIP CODE	Pł
	1				

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE

Not in a universe

LIST OF PROCESS UNIT INFORMATION FOR GROUP

https://epa.gov/envirofacts/metadata/table/rcra/rcr_pm_unit

No Process Information is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

No NAICS Codes are available for the facility listed above.

LIST OF WASTE CODES AND DESCRIPTIONS

No Waste Codes are available for the facility listed above.



EPA Home https://epa.gov/> / ICIS-NPDES https://epa.gov/envirofacts/icis-npdes

ICIS Detailed Report

Home Multisystem Search Nystem Data Searches System Data Searches https://www.epa.gov/enviro/topic-searches | System Data Searches https://www.epa.gov/enviro/topic-searches | Services https://www.epa.gov/enviro/www.epa.gov/enviro/www.epa.gov/enviro/www.epa.gov/enviro/www.epa.gov/enviro/www.epa.gov/enviro/www.epa.gov/enviro/www.epa.gov/enviro/www.epa.gov/enviro/www.epa.gov/enviro/www.epa.gov/enviro/www.epa.gov/enviro/other-datasets

Facility

FACILITY NAME (1) https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name>	MUNICIPALITY OF BARRANQUITAS	NPDES NPDES NPDES NPDES NPDES NPDES NPDES <a column="" envirofacts="" epa.gov="" href="https://envirofacts/metadata/column/icis/icis_permit/external_p</th></tr><tr><td>STREET 1 https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/location_address<td>23 LUIS MUÑOZ RIVERA ST</td><td>SIC CODE https://epa.gov/envirofacts/metadata/column/icis/xref_facility_interest_sic/s</td>	23 LUIS MUÑOZ RIVERA ST	SIC CODE https://epa.gov/envirofacts/metadata/column/icis/xref_facility_interest_sic/s
CITY https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/city	BARRANQUITAS	MAJOR / MINOR https://epa.gov/envirofacts/metadata/column/icis/icis_permit/major_minor_status_flag		
COUNTY NAME https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/county_code	BARRANQUITAS	TYPE OF OWNERSHIP https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_type_code		
STATE https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/state_code	PR	ACTIVITY STATUS https://epa.gov/envirofacts/metadata/column/icis/icis_permit/peri		
ZIP CODE https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/zip	00794	INACTIVE DATE https://epa.gov/envirofacts/metadata/column/icis/icis_perm_comp_status/status_end_da		
REGION https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/epa_region_code	Region 2	TYPE OF PERMIT ISSUED https://epa.gov/envirofacts/metadata/column/icis/icis_permit/permit_type_code		

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LONGITUDE https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/geocode_longitude>	+66.306278	PERMIT ISSUED DATE https://epa.gov/envirofacts/metadata/column/icis/icis_permi		
LAT/LON CODE OF ACCURACY		PERMIT EXPIRED DATE		
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LAT/LON DATUM https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/horizontal_ref_datum_code>		FLOW FLOW <a column="" envirofacts="" epa.gov="" href="https://epa.gov/envirofacts/metadata/</td></tr><tr><td>RECEIVING WATERS</td><td></td><td>FEDERAL GRANT IND</td></tr><tr><td>https://epa.gov/envirofacts/metadata/column/icis/icis_permit/state_water_body_name		https://epa.gov/envirofacts/metadata/column/icis/icis_permit/federal_grant_flag
PRETREATMENT CODE		SLUDGE CLASS FAC IND		
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MAILING NAME https://epa.gov/envirofacts/metadata/column/frs/frs_program_facility/primary_name	MUNICIPALITY OF BARRANQUITAS	SLUDGE RELATED PERMIT NUM https://epa.gov/envirofacts/metadata/column/icis/icis_perm_association/related_externa		
MAILING STREET (1)	23 LUIS MU OZ	ANNUAL DRY SLUDGE PROD		
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MAILING STREET (2) https://epa.gov/envirofacts/metadata/column/frs/frs_program_facility/supplemental_location>				
MAILING CITY https://epa.gov/envirofacts/metadata/column/frs/frs_program_facility/city_name	BARRANQUITAS			
MAILING STATE https://epa.gov/envirofacts/metadata/column/frs/frs_program_facility/state_name	PUERTO RICO			
MAILING ZIP CODE https://epa.gov/envirofacts/metadata/column/frs/frs_program_facility/postal_code>	00794			
COGNIZANT OFFICIAL	Mayor Francisco	COGNIZANT OFFICIAL TEL		
https://epa.gov/envirofacts/metadata/column/icis/icis_permit/dmr_cognizant_official	L � pez	https://epa.gov/envirofacts/metadata/column/icis/icis_permit/dmr_cognizant_offcl_telep		

Activity

FACILITY NAME (1)	MUNICIPALITY OF	NPDES
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Activity Name https://epa.gov/envirofacts/metadata/column/icis/icis_activity_report/activity_name	Activity Type Description https://epa.gov/envirofacts/metadata/column/icis/ref_activity_type/activity_type_desc>	Activity Status Description https://epa.gov/envirofacts/metadata/colung
MS4- Municipality of Barranquitas - Desk Review	Offsite Record Review	Active
	Permit	Active
MUNICIPALITY OF BARRANQUITAS (DEPARTMENT OF PUBLIC WORKS)-CWA-HECTOR ORTIZ	Inspection/Evaluation	Active
MUNICIPALITY OF BARRANQUITAS (SB)	Inspection/Evaluation	Active
	Permit	Active



Contacts

FACILITY NAME (1)	MUNICIPALITY OF	NPDES
https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	BARRANQUITAS	https://epa.gov/envirofacts/metadata/column/icis/icis_permit/external_pe

No Contacts Found.

Permit Tracking

FACILITY NAME (1)	MUNICIPALITY OF	NDDEC 10. // / / / / / / / / / / / / / / / / /
https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	BARRANQUITAS	NPDES https://epa.gov/envirofacts/metadata/column/icis/icis_permit/external_period.

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PERMIT ISSUED DATE PERMIT ISSUED DATE PERMIT ISSUED DATE	07-JUN-2010	PERMIT EXPIRED DATE https://epa.gov/envirofacts/metadata/column/icis/icis_permit/expiration_date		
EFFECTIVE DATE https://epa.gov/envirofacts/metadata/column/icis/icis_permit/effective_date	07-JUN-2010	RETIREMENT DATE https://epa.gov/envirofacts/metadata/column/icis/icis_permit/retirement_date		
FACILITY NAME (1) https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	MUNICIPALITY OF BARRANQUITAS	NPDES NPDES NPDES NPDES NPDES NPDES NPDES NPDES <a column="" envirofacts="" epa.gov="" href="https://external.perio</th></tr><tr><td>PERMIT ISSUED BY https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency><td></td><td>ORIGINAL DATE OF ISSUE https://epa.gov/envirofacts/metadata/column/icis/icis_permit/original_issue_date</td>		ORIGINAL DATE OF ISSUE https://epa.gov/envirofacts/metadata/column/icis/icis_permit/original_issue_date
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EFFECTIVE DATE https://epa.gov/envirofacts/metadata/column/icis/icis_permit/effective_date	17-APR-2018	RETIREMENT DATE https://epa.gov/envirofacts/metadata/column/icis/icis_permit/retirement_date		

Permit Tracking Events

Event Description https://epa.gov/envirofacts/metadata/column/icis/icis_perm_track_event/perm_track_event_code>	Event Date https://epa.gov/envirofacts/metadata/column/icis/icis_perm_track
Permit Expiration	30-JUN-2021
Permit Effective	17-APR-2018
Permit Retired	16-APR-2018
Permit Issued	12-JUL-2016
Permit Reissued	12-JUL-2016
Permit Expiration	05-NOV-2011
Permit Effective	07-JUN-2010
Permit Issued	07-JUN-2010

Inspections

FACILITY NAME (1)	MUNICIPALITY OF	NPDES
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Inspection Type https://epa.gov/envirofacts/metadata/column/icis/icis_activity_report/activity_name	Date of Inspection https://epa.gov/envirofacts/metadata/column/icis/icis_activity_repor
MUNICIPALITY OF BARRANQUITAS (DEPARTMENT OF PUBLIC WORKS)-CWA-HECTOR ORTIZ	06-SEP-2012
MUNICIPALITY OF BARRANQUITAS (SB)	24-SEP-2010

Outfalls/Pipe Schedules

FACILITY NAME (1) https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name">https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	MUNICIPALITY OF BARRANQUITAS	NPDES NPDES NPDES <a column="" envirofacts="" epa.gov="" href="https://external_permi</th></tr><tr><td>OUTFALL TYPE https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature/perm_feature_type_code><td></td><td>PIPE NUMBER <a column="" envirofacts="" epa.gov="" href="https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature/peatur</td></tr><tr><td>ACTIVITY STATUS https://epa.gov/envirofacts/metadata/column/icis/icis_limit_set_status/status_flag</td><td></td><td>REPORT DESIGNATOR https://epa.gov/envirofacts/metadata/column/icis/icis_limit_set/limit_set_designator</td>		PIPE NUMBER <a column="" envirofacts="" epa.gov="" href="https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature/peatur</td></tr><tr><td>ACTIVITY STATUS https://epa.gov/envirofacts/metadata/column/icis/icis_limit_set_status/status_flag		REPORT DESIGNATOR https://epa.gov/envirofacts/metadata/column/icis/icis_limit_set/limit_set_designator
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FACILITY NAME (1) https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	MUNICIPALITY OF BARRANQUITAS	NPDES NPDES NPDES
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LATITUDE https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature_coord/latitude_measure>	LONGITUDE <a column="" envirofacts="" epa.gov="" horizontal_accuracy_measure"="" href="https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature_coord/longitude_meadata/column/icis/icis_perm_feature_coord/longitude_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_feature_column/icis/icis_perm_f</td></tr><tr><td>LAT/LON ACCURACY https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature_coord/horizontal_accuracy_measure	LAT/LON METHOD https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature_coord/horizontal_col
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Limits Report (Pipes)

FACILITY NAME (1) https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	MUNICIPALITY OF BARRANQUITAS	NPDES NPDES NPDES <a column="" envirofacts="" epa.gov="" href="https://envirofacts/metadata/column/icis/icis_permit/ex</th></tr><tr><td>PIPE NUMBER https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature/perm_feature_nmbr<td></td><td></td>		
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Limits Report (Dockets)			
No ICIS Limits Information Found.			
Measurements and Violations			
No ICIS Measurements Information Found.			
Compliance Schedules and Violations			
FACILITY NAME (1)	MUNICIPALITY OF	NPDES	
FACILITY NAME (1) https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	MUNICIPALITY OF BARRANQUITAS		
		NPDES https://epa.gov/envirofacts/metadata/column/icis/icis_permit/external_p	
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https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name No Compliance Schedules Found.			
https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name No Compliance Schedules Found. No Compliance Violations Found.			
https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name No Compliance Schedules Found. No Compliance Violations Found.			

Pretreatment Performance Summary

FACILITY NAME (1)	MUNICIPALITY OF	NPDES
https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	BARRANQUITAS	<pre><https: column="" envirofacts="" epa.gov="" external_pe<="" icis="" icis_permit="" metadata="" pre=""></https:></pre>

No ICIS Pretreatment Performance Summary Information Found.

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Last updated on August 13, 2025



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Facility Information

BARRANQUITAS SS 0558

Handler ID: PRR000004085

CALLE BARCELO 48

BARRANQUITAS, PR 00794-1734

County Name: BARRANQUITAS

Latitude: 18.18534

Longitude: -66.305257

Hazardous Waste Generator:

Owner Name: RODOLFO TORRES

BIENNIAL REPORT SUMMARY

No Biennial Report data is available for the facility listed above.

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	Pł
	PO BOX 366697	SAN JUAN	PR	00936-6697	U

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE

Not in a universe

LIST OF PROCESS UNIT INFORMATION FOR GROUP

https://epa.gov/envirofacts/metadata/table/rcra/rcr pm unit>

No Process Information is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

No NAICS Codes are available for the facility listed above.

LIST OF WASTE CODES AND DESCRIPTIONS

No Waste Codes are available for the facility listed above.

Contact Us https://www.epa.gov/enviro/forms/contact-us-about-envirofacts to ask a question, provide feedback, or report a problem.



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Facility Information

MIKE FOTO

Handler ID: PRR000011577

63 CALLE BARCELO

BARRANQUITAS, PR 00794-1748

County Name: BARRANQUITAS

Latitude: 18.18538

Longitude: -66.30445

Hazardous Waste Generator:

Owner Name: MIKE FOTO

BIENNIAL REPORT SUMMARY

No Biennial Report data is available for the facility listed above.

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	Pł
OLGA GONZALEZ	CALLE BARCELO	BARRANQUITAS	PR	00794-1748	78

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE

Not in a universe

LIST OF PROCESS UNIT INFORMATION FOR GROUP

https://epa.gov/envirofacts/metadata/table/rcra/rcr pm unit>

No Process Information is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

No NAICS Codes are available for the facility listed above.

LIST OF WASTE CODES AND DESCRIPTIONS

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Facility Information

PR PUBLIC HOUSING ADM RES VILLA UNIVERSI

Handler ID: PRR000010017

CARR 719 KM 0.3 EDIF ADMIN

BARRANQUITAS, PR 00794

County Name: BARRANQUITAS

Latitude: 18.185142

Longitude: -66.305956

Hazardous Waste Generator:

Owner Name: PR PUBLIC HOUSING ADMIN

BIENNIAL REPORT SUMMARY

No Biennial Report data is available for the facility listed above.

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	Pł
PATRICK WANGEN	PO BOX 363188	SAN JUAN	PR	00936-3188	78

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE

Not in a universe

LIST OF PROCESS UNIT INFORMATION FOR GROUP

https://epa.gov/envirofacts/metadata/table/rcra/rcr pm unit>

No Process Information is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

No NAICS Codes are available for the facility listed above.

LIST OF WASTE CODES AND DESCRIPTIONS

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RCRAInfo Facility

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Facility Information

ABC METAL MFG

Handler ID: PRN008013401

RD 719 KM 1.5

BARRANQUITAS, PR 99999

County Name: BARRANQUITAS

Latitude: 18.177387

Longitude: -66.304983

Hazardous Waste Generator:

Owner Name:

BIENNIAL REPORT SUMMARY

No Biennial Report data is available for the facility listed above.

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	Pł
FELIPE COLON	RD 719 KM 1.5	BARRANQUITAS	PR	99999	78

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE

Not in a universe

LIST OF PROCESS UNIT INFORMATION FOR GROUP

https://epa.gov/envirofacts/metadata/table/rcra/rcr pm unit>

No Process Information is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

No NAICS Codes are available for the facility listed above.

LIST OF WASTE CODES AND DESCRIPTIONS

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Facility Information

CENTRO DE SALUD INTEGRAL DE LA MONTANA

Handler ID: PRN008021651 53 BARCELO ST BARRANQUITAS, PR 00794-1735

County Name: BARRANQUITAS

Latitude: 18.18579

Longitude: -66.30365

Hazardous Waste Generator:

Owner Name:

BIENNIAL REPORT SUMMARY

No Biennial Report data is available for the facility listed above.

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	Pł
LOURDES COLON	BARCELO ST	BARRANQUITAS	PR	00794-1735	78

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE

Not in a universe

LIST OF PROCESS UNIT INFORMATION FOR GROUP

https://epa.gov/envirofacts/metadata/table/rcra/rcr pm unit>

No Process Information is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

No NAICS Codes are available for the facility listed above.

LIST OF WASTE CODES AND DESCRIPTIONS

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RCRAInfo Facility

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Facility Information

BARRANQUITAS STP

Handler ID: PRD000689307

STATE RD 152 KM 0.2

BARRANQUITAS, PR 00618

County Name: BARRANQUITAS

Latitude: 18.18822

Longitude: -66.303512

Hazardous Waste Generator:

Owner Name: OWNERNAME

BIENNIAL REPORT SUMMARY

No Biennial Report data is available for the facility listed above.

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	Pŀ
JULIO PUJOLS	PO BOX 7066 BO OBRERO STATION	SANTURCE	PR	00916	78

NAME	STREET	CITY	STATE	ZIP CODE	PI

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE

Not in a universe

LIST OF PROCESS UNIT INFORMATION FOR GROUP

https://epa.gov/envirofacts/metadata/table/rcra/rcr_pm_unit

No Process Information is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION	
22131	WATER SUPPLY AND IRRIGATION SYSTEMS	
22132	SEWAGE TREATMENT FACILITIES	

LIST OF WASTE CODES AND DESCRIPTIONS

No Waste Codes are available for the facility listed above.

Contact Us https://www.epa.gov/enviro/forms/contact-us-about-envirofacts to ask a question, provide feedback, or report a problem.

Last updated on August 13, 2025



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ICIS Detailed Report

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Facility

FACILITY NAME (1) https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	PRASA - BARRANQUITAS WWTP	NPDES NPDES NPDES NPDES NPDES NPDES NPDES <a column="" envirofacts="" epa.gov="" href="https://envirofacts/metadata/column/icis/icis_permit/external_p</th></tr><tr><td>STREET 1 https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/location_address<td>ROAD 719 KM. 0.2</td><td>SIC CODE https://epa.gov/envirofacts/metadata/column/icis/xref_facility_interest_sic/s</td>	ROAD 719 KM. 0.2	SIC CODE https://epa.gov/envirofacts/metadata/column/icis/xref_facility_interest_sic/s
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COUNTY NAME https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/county_code		TYPE OF OWNERSHIP https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_type_code		
STATE https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/state_code>	PR	ACTIVITY STATUS https://epa.gov/envirofacts/metadata/column/icis/icis_permit/per		
ZIP CODE https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/zip	00737-0666	INACTIVE DATE <a column="" envirofacts="" epa.gov="" epa_region_code"="" href="https://epa.gov/envirofacts/metadata/column/icis/icis_perm_comp_status/status_end_data/column/icis/icis_perm_comp_status/status</td></tr><tr><td>REGION https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/epa_region_code	Region 2	TYPE OF PERMIT ISSUED https://epa.gov/envirofacts/metadata/column/icis/icis_permit/permit_type_code

LATITUDE https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/geocode_latitude	18.179707	ORIGINAL PERMIT ISSUE DATE https://epa.gov/envirofacts/metadata/column/icis/icis_permit/original_issue_date		
LONGITUDE https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/geocode_longitude	-66.300838	PERMIT ISSUED DATE https://epa.gov/envirofacts/metadata/column/icis/icis_perm		
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MAILING NAME https://epa.gov/envirofacts/metadata/column/frs/frs_program_facility/primary_name	PRASA BARRANQUITAS WWTP	SLUDGE RELATED PERMIT NUM https://epa.gov/envirofacts/metadata/column/icis/icis_perm_association/related_externa		
MAILING STREET (1) https://epa.gov/envirofacts/metadata/column/frs/frs_program_facility/location_address>	ROAD 719 KM 0 2	ANNUAL DRY SLUDGE PROD https://epa.gov/envirofacts/metadata/column/icis/icis_perm_biosolid/total_volume_amt		
MAILING STREET (2) https://epa.gov/envirofacts/metadata/column/frs/frs_program_facility/supplemental_location>				
MAILING CITY https://epa.gov/envirofacts/metadata/column/frs/frs_program_facility/city_name	BARRANQUITAS			
MAILING STATE https://epa.gov/envirofacts/metadata/column/frs/frs_program_facility/state_name	PUERTO RICO			
MAILING ZIP CODE https://epa.gov/envirofacts/metadata/column/frs/frs_program_facility/postal_code>	00737 0666			
COGNIZANT OFFICIAL https://epa.gov/envirofacts/metadata/column/icis/icis_permit/dmr_cognizant_official		COGNIZANT OFFICIAL TEL https://epa.gov/envirofacts/metadata/column/icis/icis_permit/dmr_cognizant_offcl_telep		

Activity

FACILITY NAME (1)	PRASA - BARRANQUITAS	NPDES
https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	WWTP	

Activity Name https://epa.gov/envirofacts/metadata/column/icis/icis_activity_report/activity_name	Activity Type Description https://epa.gov/envirofacts/metadata/column/icis/ref_activity_type/activity_type_desc>	Activity Status Description https://epa.gov/envirofacts/metadata/colung
BCOE Level 2 Review - 2024 - PRL025861	Offsite Record Review	Active
	Permit	Active
	Permit	Active

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Contacts

FACILITY NAME (1)	PRASA - BARRANQUITAS	NPDES
https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	WWTP	

No Contacts Found.

Permit Tracking

FACILITY NAME (1) https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	PRASA - BARRANQUITAS WWTP	NPDES https://epa.gov/envirofacts/metadata/column/icis/icis_permit/external_perm
PERMIT ISSUED BY https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://envirofacts/metadata/column/icis/icis_permit/issuing_agency>">https://envirofacts/metadata/column/icis		ORIGINAL DATE OF ISSUE https://epa.gov/envirofacts/metadata/column/icis/icis_permit/original_issue_date

PERMIT ISSUED DATE https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issue_date	01-JAN-2016	PERMIT EXPIRED DATE https://epa.gov/envirofacts/metadata/column/icis/icis_permit/expiration_date			
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	DD164 DADDANGUITAS				
FACILITY NAME (1) https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	PRASA - BARRANQUITAS WWTP	NPDES <a column="" envirofacts="" epa.gov="" href="https://epa.gov/envirofacts/metadata/column/icis/icis_permit/external_permit/ex</td></tr><tr><td>PERMIT ISSUED BY</td><td></td><td>ORIGINAL DATE OF ISSUE</td></tr><tr><td>https://epa.gov/envirofacts/metadata/column/icis/icis_permit/issuing_agency>			https://epa.gov/envirofacts/metadata/column/icis/icis_permit/original_issue_date
PERMIT ISSUED DATE <https: column="" envirofacts="" epa.gov="" icis="" icis_permit="" issue_date="" metadata=""></https:>	01-JAN-2021	PERMIT EXPIRED DATE https://epa.gov/envirofacts/metadata/column/icis/icis_permit/expiration_date			
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Permit Tracking Events

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Permit Effective	01-JAN-2021
Permit Issued	01-JAN-2021
Permit Reissued	01-JAN-2021
Permit Expiration	31-DEC-2020
Permit Retired	31-DEC-2020
Permit Effective	01-JAN-2016
Permit Issued	01-JAN-2016

Inspections

FACILITY NAME (1)	PRASA - BARRANQUITAS	NPDES
https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	WWTP	

No Inspections Found.

Outfalls/Pipe Schedules

FACILITY NAME (1) https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	PRASA - BARRANQUITAS WWTP	NPDES NPDES NPDES <a column="" envirofacts="" epa.gov="" href="https://external_permi</th></tr><tr><td>OUTFALL TYPE https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature/perm_feature_type_code><td></td><td>PIPE NUMBER https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature/pe</td>		PIPE NUMBER https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature/pe
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FACILITY NAME (1) https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	PRASA - BARRANQUITAS WWTP	NPDES NPDES <a column="" envirofacts="" epa.gov="" href="https://enuity.nub.nub.nub.nub.nub.nub.nub.nub.nub.nub</td></tr><tr><td>OUTFALL TYPE https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature/perm_feature_type_code>		PIPE NUMBER https://epa.gov/envirofacts/metadata/column/icis/icis_perm_feature/pe
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Limits Report (Pipes)

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DMR COMMENT https://epa.gov/envirofacts/metadata/column/icis/icis_limit_set/dmr_comment_text		LIMIT SET TYPE https://epa.gov/envirofacts/metadata/column/icis/icis_limit_set/limit_set_type_coc		

No ICIS Limits Report Found.

Limits Report (Dockets)

No ICIS Limits Information Found.

Measurements and Violations

No ICIS Measurements Information Found.

Compliance Schedules and Violations

FACILITY NAME (1)	PRASA - BARRANQUITAS	NPDES
https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	WWTP	

No Compliance Schedules Found.

No Compliance Violations Found.

Pretreatment Inspections/Audits					
FACILITY NAME (1)	PRASA - BARRANQUITAS	NPDES			
https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name	WWTP	<a facility_name"="" href="https://epa.gov/envirofacts/metadata/column/icis/icis_permit/external</td></tr><tr><th>No ICIS Pretreatment Inspections Found. Pretreatment Performance Summary</th><th></th><th></th></tr><tr><th>FACILITY NAME (1) https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name">https://epa.gov/envirofacts/metadata/column/icis/icis_facility_interest/facility_name <th>PRASA - BARRANQUITAS WWTP</th> <th>NPDES </th>	PRASA - BARRANQUITAS WWTP	NPDES	

No ICIS Pretreatment Performance Summary Information Found.

 $Contact \ Us < \text{https://www.epa.gov/enviro/forms/contact-us-about-envirofacts} \ to \ ask \ a \ question, \ provide feedback, \ or \ report \ a \ problem.$

Last updated on August 13, 2025



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RCRAInfo Facility

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Facility Information

SHELL CO PR LTD SS 0558 BARRANQUITAS

Handler ID: PRR000005215

BARCELO ST

BARRANQUITAS, PR 00794

County Name: BARRANQUITAS

Latitude: 18.18347

Longitude: -66.2977

Hazardous Waste Generator:

Owner Name: THE SHELL CO PR LTD

BIENNIAL REPORT SUMMARY

No Biennial Report data is available for the facility listed above.

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	Pŀ
	PO BOX 366697	SAN JUAN	PR	00936-6697	

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE

Not in a universe

LIST OF PROCESS UNIT INFORMATION FOR GROUP

https://epa.gov/envirofacts/metadata/table/rcra/rcr pm unit>

No Process Information is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

No NAICS Codes are available for the facility listed above.

LIST OF WASTE CODES AND DESCRIPTIONS

No Waste Codes are available for the facility listed above.

Contact Us https://www.epa.gov/enviro/forms/contact-us-about-envirofacts to ask a question, provide feedback, or report a problem.

Last updated on August 13, 2025



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ICIS-Air Detailed Plant View

Home | Multisystem Search | Topic Searches | About the | About the Data | About the Data | Widgets | Widgets | Mobile | Other Datasets | Mobile | Other Datasets | Nobile | Other Datasets | Nobile | Other Datasets | Nobile | Nobile | Other Datasets | Nobile | Nobi

Plant Information

PR ASPHALT BARRANQUITAS
PR 152 KM 1.0 BO. QDA. GRANDE
BARRANQUITAS, PR 00794

Operating Status	OPR	Operating Status Desc.	Operating
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Facility ID	PR0000007201900018	State Registration Number	PFE-0892-1100
Facility Type Code	POF	Facility Type Desc.	Privately Owned Facility
Government Facility Code		Government Facility Description	

NAICS Information

NAICS Code	NAICS Description
324121	Asphalt Paving Mixture and Block Manufacturing

SIC Information

SIC Code	SIC Description	
2951	Asphalt Paving Mixtures And Blocks	

Air Program Information



Program Code	Program Description	Operating Status	Subpart Code	Subpart Description
CAAGACTM	40 CFR Part 63 Area Sources	Operating	CAAGACTMZZZZ	40 CFR Part 63 Area Sources - Subpart ZZZZ - STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE)
New Source CAANSPS Performance Standards		Operating	CAANSPSI	NSPS Part 60 - Subpart I - HOT MIX ASPHALT FACILITIES
CAASIP State Implementation Plan for National Primary and Secondary		Operating		

Air Pollutant Information

Pollutant Code	Pollutant Description	Chemical Abstract Service (CAS) Number	SRS ID	AIR Pollutant Class Code	AI CI De
10193	Carbon monoxide	630080	65052	MIN	Mi
10461	Sulfur dioxide	7446095	150367	MIN	Mi
30000005	NITROGEN OXIDES NO2	10102440	167924	MIN	Mi
300000236 VISIBLE EMISSIONS			1647650	MIN	Mi
300000243 VOLATILE ORGANIC COMPOUNDS (VOCS)			761346	MIN	Mi
300000319 PARTICULATE MATTER < 10 UM			1647619	MIN	Mi
	ΤΩΤΛΙ				\top

Air Compliance Monitoring Information

State/EPA Flag	PA Flag Activity Type Description		Compliance Monitor Type	Compliance Monitor Type Description	
E	INS	Inspection/Evaluation	FOO	FCE On-Site	
E	INS	Inspection/Evaluation	PCE	PCE On-Site	

Informal Enforcement Information

State/EPA Flag	Activity Type	Activity Type Description	Enforcement Identifier	Enforcement Type Code
S	AIF	Administrative - Informal	PR000A0000720190001800006	NOV
S	AIF	Administrative - Informal	PR000A0000720190001800002	NOV
S	AIF	Administrative - Informal	PR000A200174656	NOV

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Last updated on August 13, 2025



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RCRAInfo Facility

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Facility Information

BETTEROADS ASPHALT CORP

Handler ID: PRD987381241

PR 152 KM 1.0

BARRANQUITAS, PR 00618

County Name: BARRANQUITAS

Latitude: 18.191606

Longitude: -66.300173

Hazardous Waste Generator:

Owner Name: ARTURO DIAZ

BIENNIAL REPORT SUMMARY

No Biennial Report data is available for the facility listed above.

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	Pŀ
	PO BOX 21420	RIO PIEDRAS	PR	00928	

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE

Not in a universe

LIST OF PROCESS UNIT INFORMATION FOR GROUP

https://epa.gov/envirofacts/metadata/table/rcra/rcr pm unit>

No Process Information is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

No NAICS Codes are available for the facility listed above.

LIST OF WASTE CODES AND DESCRIPTIONS

No Waste Codes are available for the facility listed above.

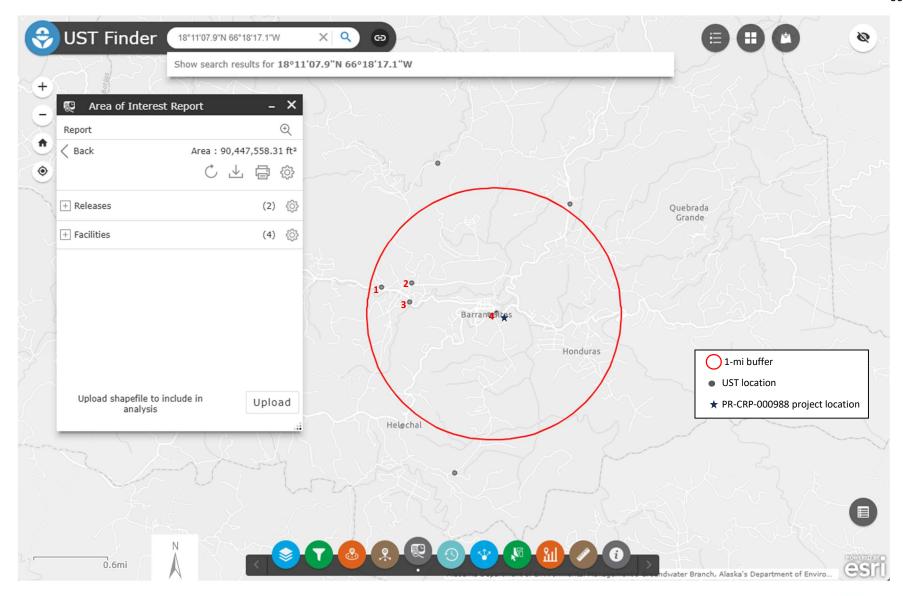
Contact Us https://www.epa.gov/enviro/forms/contact-us-about-envirofacts to ask a question, provide feedback, or report a problem.

Attachment 6d. Underground Storage Tank (UST) Map – EPA UST Finder

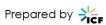
Coord: 18.185505, -66.305029

PR-CRP-000988 Barranquitas - Construction of New Public Parking

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranquitas, PR



Source: EPA UST Finder (Spatial Reference: GRS80), URL https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=b03763d3f2754461adf86f121345d7bc

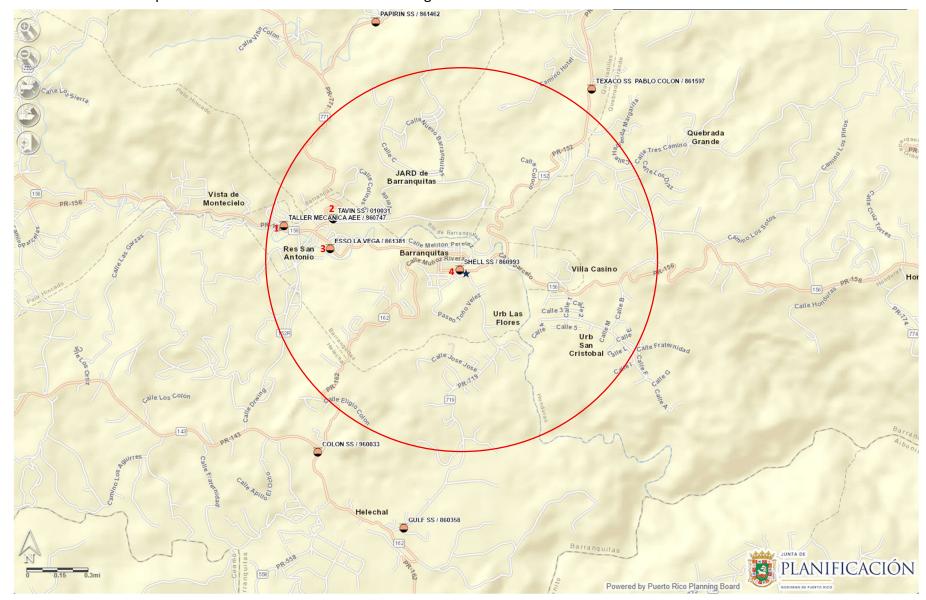


Attachment 6e. Underground Storage Tank (UST) Map - PRPB

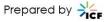
PR-CRP-000988 Barranquitas - Construction of New Public Parking

Coord: 18.185505, -66.305029

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranquitas, PR 00794



Source: MIPR, Junta de Planificación, URL https://gis.jp.pr.gov/mipr/



Attachment 6f. UST sites Table

PR-CRP-000988 Barranquitas

ID	Facility ID	Distance from Project Site (miles)	Direction from Project Site	Description from EPA UST Finder	ID from PRPB map	DRNA LUST LIST
1	PR_21211-23931	0.88	E	TALLER MECANICA AEE Name: TALLER MECANICA AEE Address: CARR 156 KM 14 City: BARRANQUITAS State: Puerto Rico Latitude: 18.1886 Longitude: -66.3188 Coordinate Source: State	TALLER MECANICA AEE / 860747	Inactive Sites LUST List 2020
2	PR_21247-23913	0.67	E	ESSO LA VEGA Name: ESSO LA VEGA City: BARRANQUITAS State: Puerto Rico Latitude: 18.1869 Longitude: -66.3154 Coordinate Source: State Facility Status: Unknown EPA Region: 2	TAVIN SS / 010031	None
3	PR_21250-23937	0.64	E	TAVIN SS Name: TAVIN SS Address: CARR 152 INT. CARR 771 KM 0.2 City: BARRANQUITAS State: Puerto Rico Latitude: 18.1891 Longitude: -66.3152 Coordinate Source: State Facility Status: Unknown	ESSO LA VEGA / 861381	Active Sites LUST List 2024
4	PR_21350-23896	0.02	W	SHELL SS Name: SHELL SS Address: CALLE BARCELO City: BARRANQUITAS State: Puerto Rico Latitude: 18.1854 Longitude: -66.3057 Coordinate Source: State Facility Status: Unknown	SHELL SS / 860993	None

At	tachmen	ıt 6g	
Active and Inactive	Sites LUST	Lists (selecte	ed pages)

INACTIVE SITES LUST LIST

UST ID	NAME	CITY	ADDRESS	OWNER	DTKNOWN	HOWKNOWN	DT-RELEASED
86-0650	Shell #4509	Toa Baja	Carr. 2 Km. 16.8, Bo. Candelaria	Shell Company (P.R.) Limited	Unknown	UST Removal	10-Sep-97
86-0652	Shell #4444	Bayamón	Ave Lomas Verdes	Shell Company (P.R.) Limited	10-Nov-93	Unknown	8-Jun-05
86-0653	Shell 804363	Manatí	Carr.2 Km. 50.2	Shell Company (P.R.) Limited	31-May-97	Unknown	30-Sep-04
86-0660	Shell 804746	San Juan	Muñoz Rivera #761	Shell Company (P.R.) Limited	25-Mar-92	Unknown	8-May-95
86-0661	Shell # 804894	Caguas	Carr #1 km 27.5	Shell Company (P.R.) Limited	12-Jan-00	UST Removal	22-Jan-02
86-0665	Shell 804215	Cabo Rojo	Salvador Brau (65	Shell Company (P.R.) Limited	3-Aug-01	UST Removal	28-Sep-04
86-0667	Ex Shell (Lluberas)	Yauco	Carr 376 Km 0.19	Shell Company (P.R.) Limited	20-Sep-99	UST Removal	19-Oct-04
86-0685	Shell 4231	Cabo Rojo	Calle Carbonell 86	Shell Company (P.R.) Limited	23-May-97	Product in MW	28-Dec-01
86-0686	Shell 804037	Salinas	Carr PR-1 Km 92.0 Bo. Jueyes	Shell Company (P.R.) Limited	8-Aug-95	UST Removal	20-Mar-03
86-0689	Ex Shell 4339	Moca	Carr 420 km 1.1	Shell Company (P.R.) Limited	17-Aug-99	UST Removal	23-Apr-03
86-0697	Hertz Rent a Car	Carolina	Luis Muñoz Marín Airport	Shell Company (P.R.) Limited	12-Dec-97	UST Removal	15-May-95
86-0700	Marine Management	San Juan	Zona Portuaria	Shell Company (P.R.) Limited	29-Dec-99	UST Removal	22-Nov-04
86-0707	Shell 3987	Juncos	Carr 31 km 24.4	Shell Company (P.R.) Limited	10-Jun-96	UST Removal	10-Mar-00
86-0711	Shell 804720	Carolina	Ave. Campo Rico	Shell Company (P.R.) Limited	26-Jul-01	Unknown	1-Apr-04
86-0718	Seven Up	Bayamón	Carr. 177 Km. 8.3 Minillas	Seven-up	1-Nov-02	Unknown	19-May-95
86-0723	Pedro Rodríguez	San Juan	Calle Quisqueya # 55	Quisqueya 155 S/S	6-Dec-99	UST Removal	13-Dec-01
86-0724	Gasolina Coqui	San Juan	Carr 176 km 7.2 Cupey	Jose Sánchez	Unknown	UST Removal	21-May-95
86-0747	PREPA	Barranquitas	Bo. La Vega Salida Orocovis	Autoridad Energía Eléctrica	29-Jun-98	Unknown	22-Jan-01
86-0749	l aller de Mecanica	Mayaguez	Carr 2 km 149 Bo, El Mani	Autoridad Energia Electrica	23-May-97	Free Product	23-May-95
86-0752	Taller de Mecánica	Ponce	Ave Hostos 37	Autoridad Energía Eléctrica	24-Feb-98	Tightness Test	15-Jan-03
86-0753	Taller de Mecánica	Aguadilla	Calle Victoria	Autoridad Energía Eléctrica	15-Aug-94	Unknown	25-May-95
86-0754	Taller de Mecánica	San Germán	Carr. 362 KM. 0.0	Autoridad Energía Eléctrica	15-Oct-90	UST Removal	8-Nov-93
86-0755	Taller de Mecánica	San Sebastián	Carr. 119 Salida Camuy	Autoridad Energía Eléctrica	15-Feb-00	Product in MW	25-Jan-01
86-0757	Taller de Mecánica	Arecibo	Ave San Rosado	Autoridad Energía Eléctrica	1-Sep-97	Unknown	28-May-95
86-0758	Taller de Mecánica	Manatí	Carr. 2 Calle Patriota	Autoridad Energía Eléctrica	8-Jan-02	UST Removal	29-May-95
86-0759	Taller de Mecánica	Utuado	Carr 111 km 1.4	Autoridad Energía Eléctrica	17-Dec-99	Product in MW	30-May-95
86-0763	Taller de Mecánica	Vega Baja	Carr. 2 Km. 38.6	Autoridad Energía Eléctrica	Unknown	Product in MW	31-May-95
86-0764	Luis Muñoz Marín Airport	Carolina	Aeropuerto Luis Muñoz Marín	Operaciones Aéreas	23-Apr-93	UST Removal	17-Mar-98
86-0767	Sistema de Riego	Lajas	Carr. 101 Km. 21.7	Autoridad Energía Eléctrica	Unknown	Product in MW	2-Jun-95
86-0769	Taller de Mecánica	Yauco	Calle Matienzo	Autoridad Energía Eléctrica	6-Nov-97	Product in MW	28-Feb-01
86-0777	Ready Mix (Planta 8)	Bayamón	Carr 861 km 3	Shell Company (P.R.) Limited	16-Sep-96	Product in MW	4-Jun-95
86-0784	Hipodromo Antiguo	San Juan	Ave. 65 de Infantería	Shell Company (P.R.) Limited	Unknown	UST Removal	5-Jun-95
86-0796	Municipio de Fajardo	Fajardo	Obras Públicas Municipal	Shell Company (P.R.) Limited	12-Jul-99	Suspect Release	29-Sep-04
86-0797	Municipio de Juncos	Juncos	Carr 185	Shell Company (P.R.) Limited	23-Oct-98	UST Removal	7-Jun-95
86-0801	Verpas Products	Carolina	Carr. 887 Km. 9.0 Bo. Martín González	Shell Company (P.R.) Limited	4-May-00	Vapors on MW	8-Jun-95

INACTIVE SITES LUST LIST

UST ID	NAME	CITY	ADDRESS	<u>OWNER</u>	DTKNOWN	HOWKNOWN	DT-RELEASED
93-0017	Kodak Caribbean Ltd.	Carolina	Ave Campo Rico 246	Kodak Caribbean Ltd.	5-Oct-99	UST Removal	26-Mar-96
93-0019	Almacenes Owens	Las Piedras	Carr. 183 Km. 21.6 Bo. Tejas	Compañia de Fomento Industrial	1-Jun-00	UST Removal	4-Dec-01
93-0022	GPR #2145	Carolina	Calle Ignacio Arzuaga #151	Gasolinas de Puerto Rico	4-Jun-97	Product in MW	13-Oct-04
93-0033	COE	San Juan	Ave. Fernández Juncos #400	U.S. Army C.O.E.	21-Nov-95	Unknown	23-Aug-03
93-0059	Hospital Sub-Regional	Humacao	Expreso Cruz Ortíz Estela, Ave. Tejas	Hospital Sub-Regional de Humacao	23-May-00	UST Removal	30-Mar-96
93-0060	GPR #2135	Camuy	PR-119 Calle Muñoz Rivera #137	Gasolinas de Puerto Rico	Unknown	Product in MW	18-Dec-03
93-0061	Sucesion Marti Torres	San Juan	Ave Ponce de Leon 461	Sucesión Marti Torres	8-Jun-95	UST Removal	1-Apr-96
93-0078	Camuy S/S	Camuy	Carr. 4491Km. 2.1, Bo. Puente	Félix Ruíz Soto	24-Jun-97	UST Removal	1-May-98
93-0079	Hotel Marriot	San Juan	Condado	Dupont Plaza / Marriot Hotel	25-Apr-94	UST Removal	4/3/1996/14 may 99
93-0087	Esso 2P-142	Manatí	Carr. # 2 km 46.2	Esso Standard Oil Co.	30-Jan-02	Spill Suspect	1-Mar-02
94-0001	Fundacion Sierra Boerman	San Juan	Ave Ponce de Leon 701	Fundación Sierra Boerman	27-Sep-99	UST Removal	5-Apr-96
94-0009	P.R. National Guard	Peñuelas	Carr 385	P.R. National Guard	5-Aug-03	UST Removal	6-Apr-96
94-0011	Campamento Tortuguero	Vega Baja	Carr. 687	P.R. National Guard	Unknown	UST Removal	27-Mar-02
94-0016	WAPA Broadcasting	Guaynabo	Carr 21	WAPA Broadcasting Sta.	Unknown	Spill on creek	8-Apr-96
94-0021	Unknown	Gurabo	Unknown	Finca La Hormiga	16-Sep-96	UST Removal	7-Jun-95
94-0035	Carolina Associates (Apartamentos de Diego)	San Juan	Ave. De Diego #575	De Diego Apartments (Carlos M. Vega)	Unknown	UST Removal	Unknown
94-0037	Escuela Villa Capri	San Juan	Ave Arterial Esq. Olivero	Interstate General Properties	Unknown	Unknown	25-Oct-00
94-0055	Valle Escondido S/S (Gulf)	Guaynabo	Carr 834 km 2.2 Bo. Hato Nuevo	Gualberto García	8-Mar-99	UST Removal	29-Sep-00
94-0063	Pueblo International	Guaynabo	Centro Comercial Santa María	Pueblo International	1-Sep-99	High TPH Values	15-Nov-99
94-0079	Principado Dry Cleaners Inc.	San Juan	Ave. Barbosa #604	Principado Cleaners, Inc. (Roberto E. Homar	31-Aug-99	UST Removal	12-Feb-02
94-0120	Olympic Mills Inc.	Guaynabo	Carr. 20 Km. 3.8, Bo. Los Frailes	Olympic Mills Inc.	2-Aug-00	High TPH Values in Soil	6-Oct-00
94-0126	Antigua Planta La Famosa	Bayamón	Carr. #2, Bo. Hato Tejas	Auction & Salvage, Inc.	21-Nov-00	UST Removal	23-May-03
94-0128	Antigua Penitenciaria Estatal (Oso Blanco)	San Juan	Carr. #21, Villa Nevarez, Bo. Monacillos	PRSTRT	27-Feb-13	UST Removal	18-Jun-15
94-0159	Shelfoam	Cidra	Carr. #171, Calle A, Parque Industrial, Zona Urbana	Shelfoam Products	9-Feb-16	UST Removal	17-Apr-96
94-0164	Unknown	Carolina	Ave 65 Inf. 7.3	Seedmans	21-Jan-97	Unknown	18-Apr-96
94-0172	Hotel Barranquitas	Barranquitas	Carr. 152 Km. 0.6, Bo. Quebradillas	Compañia de Fomento Industrial	20-Jun-00	UST Removal	3-Dec-04
94-0176	Atlantic Thermo Form	juncos	Carr. 187 Km. 2.4 Parque Ind. Lote 10	Compañia de Fomento industrial	23-Jun-00	UST Removal	24-May-02
94-0177	Estudio Panamericano	Carolina	Carr. 26 Km. 12.0, Parque Industrial Sabana Abajo Lo	Compañia de Fomento Industrial	Unknown	UST Removal	8-Apr-02
94-0189	Empresas Vasallo	Carolina	Carr 190 / La Cerámica	Empresas Vasallo	1-Aug-95	Product in MW	23-Feb-96
94-0201	Planta Filtros El Yunque	Río Grande	Carr. 3 Km. 25.4 Int. 955 Km. 0.3/Juan González	Autoridad de Acueductos y Alcantarillados	Unknown	Unknown	Unknown
94-0229	Escuela Alcides Figueroa	Añasco	Unknown	Departamento de Educación	17-Oct-94	Unknown	24-Apr-96
94-0239	Escuela Nemesio Canales	San Juan	Res. Nemesio Canales	Departamento de Educación	16-Sep-96	Unknown	25-Apr-96
94-0241	Escuela Antonio Sarriera	San Juan	Río Piedras	Departamento de Educación	13-Dec-00	UST Removal	26-Apr-96
94-0243	Esc. Villa Capri	San Juan	Calle Verona Esq. Niza, Villa Capri	Departamento de Educación	9-Aug-99	Unknown	27-Apr-96
94-0245	Esc. Carmen Sanabria	San Juan	Calle Arkansas San Gerardo	Departamento de Educación	21-Nov-95	Unknown	21-Jun-96

ACTIVE SITES LUST LIST

UST	ID NAME	<u>E</u>	CITY	ADDRESS	OWNER	<u>HOWKNOWN</u>	DTKNOWN
93 86-03)318 Gulf#	# 119	San Juan	Ave. Central 1039 Puerto Nuevo	Caribbean Petroleum Corp.	High Concentrations	11-Apr-98
94 86-03)319 Gulf#	# 120	Arecibo	Carr #10 km 85.9	Caribbean Petroleum `Corp	UST Removal	31-Jan-05
95 86-03)321 Gulf#	# 122	Dorado	Carr # 699 & Carr 854	Caribbean Petroleum Corp	Product in Well	12-Mar-99
96 86-03)323 Gulf#	# 126	Juana Díaz	Carr. 14 Km. 11.3 Bo. Jacaguas	Caribbean Petroleum	UST Removal	25-May-00
97 86-03	326 Gulf 1	129	Arecibo	Carr 129 km 39.4	Caribbean Petroleum Corp.	UST Removal	27-Oct-04
98 86-03)327 Gulf#	# 131	Yauco	Carr. 371 Km. 2.3 Bo. Almacigo	Caribbean Petroleum Corp.	UST Removal	16-Mar-99
99 86-03)328 Gulf#	# 132	Fajardo	Carr. 987 Km. 0.2	Caribbean Petroleum	Spill Notification	18-Nov-99
100 86-03)331 Gulf#	# 135	Guaynabo	Carr 838 Calle Main	Caribbean Petroleum Corp.	Product in Well	3-Apr-00
101 86-03)332 Gulf#	# 136	Mayaguez	Bo. Maní	Caribbean Petroleum Corp	Product in Well	6-Jun-02
102 86-03)334 Gulf#	# 139	Bayamón	Carr 2 km 8.3	Caribbean Petroleum Corp.	Product in well	15-Jan-01
103 86-03)336 Gulf#	# 304	San Juan	Carr 2 Km 5.0 Bo. Pueblo Viejo	Arturo R.Umpierre Norat	Investigation Plan	15-Nov-24
104 86-03)346 Gulf#	# 328	Gurabo	Carr. 181 Km. 23.1	Caribbean Petroluem Corp.	UST Removal	16-Sep-96
105 86-03	350 Gulf 3	345	Guayanilla	Carr. 132 Km. 3.7	Caribbean Petroleum Corp	High Concentration	24-Mar-97
106 86-03	352 Santa	ana S/S	Humacao	Carr. 3 Km. 83.5	Caribbean Petroleum Corp	UST Removal	16-Mar-99
107 86-03	0353 Dorav	ville S/S	Dorado	Carr. 695 km. 1.5 Bo. Higuillar	American Petroleum Corp.	UST Removal	14-Jul-00
108 86-03	355 Gulf S	S/S #353	Adjuntas	Carr. 135 km. 81.0	Caribbean Petroleum Corp.	UST Removal	24-Aug-99
109 86-03	356 Gulf#	#356	Cayey	Carr. 184 Km. 27.6	Gulf-Chevron	High Concentration	16-Dec-93
110 86-03)358 Gulf#	#362	Barranquitas	Carr. 719 Km. 2.6 Bo. Helechal	Caribbean Petroleum Corp.	High Concentration	22-May-92
111 86-03)359 Shell #	#3840	Cayey	Carr 1 km 52.4 Beatriz	Shell Company (P.R.) Limited	UST Removal	6-Nov-96
112 86-03)363 Gulf#	# 371	Hatillo	Carr. 493 & Carr. 853 Bo. Corcobado	Caribbean Petroleum Corp.	Monitoring Results	29-Mar-99
113 86-03	371 Torrac	ado Gas Service Station	Hatillo	Carr 130 km 6.0	Hector Torrado	UST Removal	4/1/2005
114 86-03)372 Gulf 3	386	Trujillo Alto	Round Hills Commercial Center	Caribbean Petroleum Corp	UST Removal	1-Oct-97
115 86-03	373 Servic	centro Rodríguez	Cayey	Calle 1 Esq 7 Ur Aponte	Jorge Rodríguez	Spill	18-Jan-99

ACTIVE SITES LUST LIST

	<u>UST ID</u>	NAME	CITY	ADDRESS	<u>OWNER</u>	HOWKNOWN	DTKNOWN
277	86-1359	Ex Esso (Garaje Muñoz)	Yauco	Calle 25 de julio # 19	Esso	UST Removal	19-Jan-99
278	86-1367	Esso CO-266	Yabucoa	Calle Cristobal Colón 65	Esso Standard Oil Co.	UST Removal	27-May-91
279	86-1369	Ex Esso 3P-259	Humacao	Carr 33 km 83.4 Bo Cataño	Esso	Soil Contamination	15-Jul-05
280	86-1373	Anibal Dávila S/S	Maunabo	Calle Muñoz Rivera Esq. Barceló	Esso Standard Oil Co.	UST Removal	23-Apr-98
281	86-1376	Esso	Cidra	Cidra	Esso Standard Oil Co.	Spill	6-Nov-98
282	86-1380	Ex ESSO 3P-436	Aibonito	Carr 14 km 80.0	Esso Standard Oil Co.	UST Removal	Unknown
283	86-1381	Carlos Rodríguez	Barranquitas	Carr 156 km 14.7 Bo. La Vega	Esso Standard Oil Co.	Spill	10-May-99
284	86-1395	Hormigonera Mayaguezana	Mayaguez	PR-114 Km. 147.7 Bo. Guanajibo Castillo	Esso Standard Oil Co.	Film in MW	17-Jun-03
285	86-1427	Hospital del Maestro	San Juan	Ave. Domenech	Esso Standard Oil Co.	Unknown	21-Apr-99
286	86-1437	Caribe Hilton	San Juan	San Geronimo, Grond 6	Esso Standard Oil Co.	High Concentration	21-Nov-00
287	86-1455	Asociacion Pescadores	Culebra	Playa Sardinas 2	Aso. De Pescadores	Closure (High Values)	8-Aug-95
288	86-1456	Cayo Isleta Marina	Fajardo	Puerto Real	Inversiones Isleta Marina	UST Removal	19-Nov-01
289	86-1462	Papirin S/S	Barranquitas	Carr 771 km 2.5 Bo. Barrancas	Sr. Octavio Santini	UST Removal	24-Sep-01
290	86-1465	Pfizer	Barceloneta	Carr 2 km 58.2	Pfizer Pharmaceutica s	UST Removal	19-Mar-02
291	86-1469	Garaje La Hamaca	Lares	Carr #124 km 5.3	Lumen Cruz	UST Removal	18-Apr-01
292	86-1509	Gulf #013	Тоа Ваја	Carr #167 Ave. Comerio Norte #600 Km 10.7	Oil Investment Consolidated, Inc.	Characterization Rep	Unknown
293	86-1510	Urbano Torres s/s	Río Piedras	Carr 1 km 18.8 Bo. Tortugo	U.S Marshall Service	UST Removal	Unknown
294	86-1515	U.S Naval Comp. & Telec. Sta	Isabela	Carr 2 km 116.2	U.S Navy	UST Removal	2-Mar-01
295	86-1520	U.S. Naval Security Group Activity	Тоа Ваја	Barrio Sabana Seca	U.S Navy	Closure (High Values)	13-May-99
296	86-1533	Aeropuerto Internacional Luis Muñoz Mar	Carolina	Ave Los Gobernadores	Porths Authority	UST Removal	20-Sep-96
297	86-1555	Zulu Gas Station	San Juan	Ave. Fernández Juncos	Zulu Gas Station	Soil Contamination	15-Apr-08
298	86-1565	Rolón s/s	Morovis	Carr 155 km 48.8	Morovis S/S	Spill	6-Nov-97
299	86-1567	Pueblo s/s 554	Lares	Carr 111 km 33.4	Техасо	UST Removal	16-Dec-97

Attachment 6h

Field Inspection Checklist

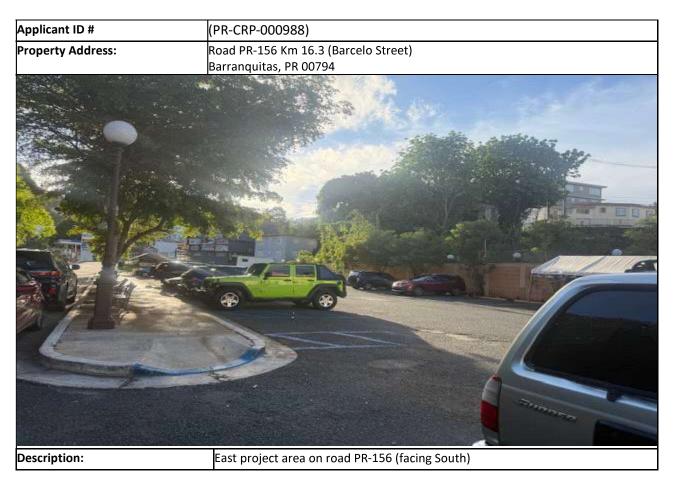
Field Visit Checklist and Site Evaluation					
Project Name:	Constructio	n of New Public Parking (PR-CRP-000988)	Coordinates:	18.185505, -66.305029	
Project State Road F address: Barranquita		PR-156 Km 16.3, Pueblo Ward, s. PR 00794	Municipality:	Barranquitas	
State:		Puerto Rico	ZIP:	00794	
Inspector Name:		Eng. Carlos González Morales, Environmen	ital Specialist		
Date of Visit:		July 9, 2023	<u> </u>		
		Existing Environmental Conditions on a	nd Around Site		
		Site Specific		djacent Areas	
General observat	tions:	The lot proposed for the construction of the project is an open space currently used as a parking lot and linking key residential, commercial, and institutional areas.	The proposed project is intended to be developed near the urban center of Barranquitas, as the surrounding area has undergone significant development and transformation over the years.		
Evidence of wetlands?		No, there are no wetlands in the project area because they are developed areas. See included Photos.	The project site is near to riverine Wetlands, identified by the USFWS National Wetland Inventory as the Rio Barranquitas, which is 95 linear meters north of the property to be developed.		
Evidence of Threatened or Endangered species?		No, the proposed project is located in a densely populated, urban landscape	The area proposed to be developed is one previously impacted by the construction of streets, residential and commercial structures and is fully impacted due to its use as a municipal parking lot. As can be seen in the photo, there is no vegetation within the property to be developed that could harbor significant wildlife.		
Evidence of land	•	No	The land is currently used as a parking lot and if free of debris and trash.		
Evidence of wast discharges?		No	No		
alsonarges:		Toxic Chemicals and Radioactive	Materials		
Evidence of USTs	 ;?	No		No	
If yes, are they in		N/A		N/A	
Any out of servic underground fue	e I tanks?	No	None identified		
Evidence of above ground storage tanks (including 55-gallon drums)?		No	None identified		
Evidence of leaking ASTs?		N/A		N/A	
Evidence of leaki electrical equipm	_	No		No	
		Hazardous Operations			
Evidence of manufacturing operations utilizing or producing hazardous substances?		No		No	

Evidence of past operations	No	No
that may have used		
hazardous substances or		
radiological materials that		
may have been released?		
•		

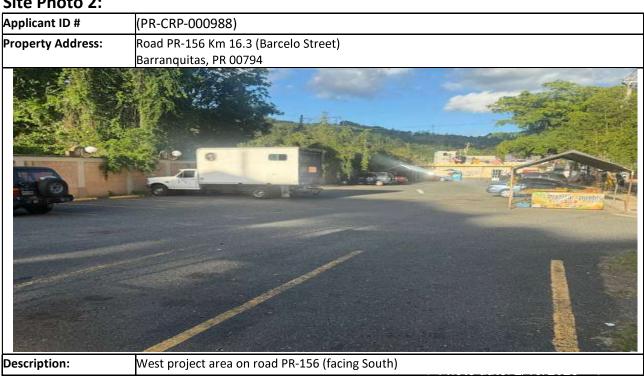
General Notes/Observations

The project site is located within a developed urban area of the Municipality of Barranquitas. No environmental conditions were identified during the assessment that would pose limitations or constraints to the proposed project's development.

Site Photo 1:



Site Photo 2:



Site Photo 3:

Applicant ID # PR-CRP-000988

Property Address: Road PR-156 Km 16.3 (Barcelo Street)
Barranquitas, PR 00794



Attachment 6i

Notice CPD-23-103: Departmental Policy for Addressing Radon in the Environmental Review Process

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT



WASHINGTON, DC 20410-7000

Special attention of:
Regional Directors
Field Office Directors
CPD Directors and field office staff
OEE Directors and field office staff
PIH Directors and field office staff
Office of Housing Directors and division

staff
ONAP Administrators and field office staff
OLHCHH Directors and Healthy Homes
Representatives
Program Environmental Clearance Officers
Passonsible Entities

Responsible Entities
Public Housing Authorities
Tribes
Tribally Designated Housing Entities

Notice: CPD-23-103

Issued: January 11, 2024

This notice will be effective 90 days after the date issued. For Tribes, Tribally Designated Housing Entities, and Department of Hawaiian Homelands Recipients, however, it will be effective two years after the date issued.

Expires: This Notice is effective until amended, superseded, or rescinded

SUBJECT: Departmental Policy for Addressing Radon in the Environmental Review Process

I. Purpose

The purpose of this Notice is to clarify that radon must be considered in the contamination analysis for 24 CFR Parts 50 or 58, as applicable; to provide guidance on recommended best practices for considering radon; and to identify the U.S. Department of Housing and Urban Development (HUD) programs that have established specific radon guidance. This Notice does not impose radon testing requirements; however, it does include guidance on strategies for considering radon in the site contamination analysis.

This notice applies *only* to projects that are subject to HUD's contamination regulations at 24 CFR 50.3(i) or 24 CFR 58.5(i). It does not apply to the purchase of single family homes with an FHA-backed mortgage nor Section 184 and Section 184A loan guarantees. This notice also does *not* preempt any existing, federal state, or local requirements regarding radon. It also does not preempt the radon requirements found in HUD's Office of Housing programs following the Multifamily Accelerated Processing (MAP) Guide, Healthcare Mortgage Insurance Program Handbook, Rental Assistance Demonstration Program Notice and supplemental guidance, or other current or future radon guidance that is more prescriptive. See section IV of this notice for links to Housing radon guidance documents.

Compliance with this notice is required 90 days after the date issued for all HUD programs subject to 24 CFR Parts 50 and 58, with the exception of Tribe, Tribally Designated Housing Entity (TDHE), and Department of Hawaiian Homeland (DHHL) recipients. In

recognition of the need to provide additional support for radon programs, compliance with this notice is required starting January 11, 2026 for Tribe, TDHE, and DHHL recipients.

II. Radon and its health effects

Radon is a radioactive gas that forms when radium and certain other radioactive metals break down in rocks, soil, and water.¹ It is found in nearly all soils and moves through the soil to the air and into structures through cracks and other areas of permeability. Building materials and groundwater may also be a source of indoor radon. Once inside, radon concentrations can build to high levels, regardless of the age, condition, or design of the building.

The most common pathway for human exposure to radon is inhalation indoors. Radon is the number one cause of lung cancer in non-smokers and the second leading cause of lung cancer overall.² The risk of adverse health effects from radon in indoor air depends largely on two main variables: the level of radon exposure and the length of time exposed. Many radon-induced lung cancers can be prevented by testing and reducing radon levels in existing buildings and by using radon resistant construction techniques for all new construction.³

The goal for mitigating radon in buildings is to reduce radon concentrations in indoor air as low as reasonably achievable and practicable considering the efficacy of current industry-standard radon reduction systems and environmental conditions (e.g., geology and climate). The most effective strategy to protect the health and safety of occupants is to prevent radon from entering the building by using radon resistant construction techniques; another effective strategy is to reduce the level of radon inside existing buildings by installing and operating a radon reduction system. An effective radon reduction system achieves two main goals: it reduces the concentration of radon gas in the home by venting it safely outside the structure and removes the radon gas from under the foundation before it can come into the home.

III. Considering radon in the environmental review

HUD's environmental regulations at 24 CFR 58.5(i)(2)(i) and (ii)⁴ state that,

[i]t is HUD's policy that all properties that are being proposed for use in HUD programs be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances, where a hazard could affect the health and safety of occupants or conflict with the intended utilization of the property.

The environmental review of multifamily housing . . . , must include the evaluation of . . . other evidence of contamination on or near the site, to ensure that occupants of proposed sites are not

¹ National Institute of Health, Periodic Table, Element Summary, "Radon", https://pubchem.ncbi.nlm.nih.gov/element/Radon.

² U.S. Environmental Protection Agency, "Health Risk of Radon", https://www.epa.gov/radon/health-risk-radon.

³ https://www.epa.gov/radon/health-risk-radon.

⁴ HUD's contamination policy at 24 CFR 50.3(i)(1) and (2) implements the same substantive policy with slightly different text, https://www.ecfr.gov/current/title-24/subtitle-A/part-50/subpart-A/section-50.3.

adversely affected by any of the hazards listed in paragraph (i)(2)(i) of this section.

As radon is a radioactive substance, HUD or the responsible entity (RE) must consider it as part of the site contamination analysis for projects that:

- Require an environmental review at the level of *Categorically Excluded Subject to 50.4* or 58.5 ("CEST"), *Environmental Assessment*, or *Environmental Impact Statement*; and
- Involve structures that are occupied or are intended to be occupied at least four (4) hours a day.

Note: HUD's contamination policy does not apply to projects that are Exempt or Categorically Excluded Not Subject to 50.4 or 58.5 ("CENST").

HUD encourages environmental review preparers to follow the most recent U.S. Environmental Protection Agency (EPA) recommendations about assessing the health risk from radon exposure and when to reduce radon levels in indoor air. Because more people are exposed to moderate levels of radon, most radon-induced lung cancer results from long-term exposure to low or moderate radon levels in the home, as opposed to short term exposure to very high levels of radon. The EPA recommends homes be fixed if the radon level is 4 pCi/L or more. Because there is no known safe level of exposure to radon, EPA also recommends that Americans consider fixing their home for radon levels between 2 pCi/L and 4 pCi/L⁶. Indoor air radon levels vary across the U.S. and from parcel to parcel due to differences in geology, climate, seasonal variation, building construction, and other conditions. Additionally, because radon cannot be seen, tasted, or smelled, the only method for determining the precise radon level in a specific building is to test the indoor air.

Exemptions from having to consider radon in the contamination analysis⁷:

- Buildings with no enclosed areas having ground contact.
 - o Buildings containing crawlspaces, utility tunnels, or parking garages would *not* be exempt, however buildings built on piers would be exempt, provided that there is open air between the lowest floor of the building and the ground.
- Buildings that are not residential and will not be occupied for more than 4 hours per day.
- Buildings with existing radon mitigation systems document radon levels are below 4 pCi/L⁸ with test results dated within two years of submitting the application for HUD assistance and document the system includes an ongoing maintenance plan that includes periodic testing to ensure the system continues to meet the current EPA recommended levels. If the project does not require an application, document test results dated within

⁵ World Health Organization, *Handbook on Indoor Radon; A Public Health Perspective* (January 1, 2009). p. x, 2, https://www.who.int/publications/i/item/9789241547673.

⁶ https://www.epa.gov/radon/what-epas-action-level-radon-and-what-does-it-mean

⁷ These exemptions are specific to this notice and do not all comport with the requirements in the MAP Guide, Healthcare Mortgage Insurance Program Handbook, RAD Program Notice and supplemental guidance or other program guidance.

⁸ Or the EPA's current recommended level for reducing radon levels in indoor air, https://www.epa.gov/radon/health-risk-radon.

- two years of the date the environmental review is certified. Refer to program office guidance to ensure compliance with program requirements.
- Buildings tested within five years of the submission of application for HUD assistance: test results document indoor radon levels are below current the EPA's recommended action levels of 4.0 pCi/L. For buildings with test data older than five years, any new environmental review must include a consideration of radon using one of the methods in Section A below.

A. How to consider radon in the HUD Environmental Review

This section details how environmental review preparers may consider radon in the HUD environmental review in order to satisfy 24 CFR 50.3(i) or 24 CFR 58.5(i) ¹⁰. This section provides a recommended "best practice" method; however, preparers may utilize one of the alternate options if they choose not to implement the best practice.

i. Recommended Best Practice

When considering radon in the contamination analysis, HUD strongly recommends using the American National Standards Institute/American Association of Radon Scientists and Technologists (ANSI/AARST) radon testing standards for single- and multi- family buildings, schools, and large buildings, including those constructed using radon-resistant construction techniques. The ANSI/AARST standard describes how to conduct testing, interpret test results, and draft a Radon Test Report to document the process for the building owner (and to use as documentation for the ERR).

The ANSI/AARST standards can be viewed online for free and are intended to be implemented by licensed radon professionals. To find a licensed radon professional in your area contact the State/Tribe's radon program office, ¹² National Radon Proficiency Program (NRPP), ¹³ or the National Radon Safety Board (NRSB). ¹⁴

There may also be state and/or local radon requirements, depending on the jurisdiction. Contact the relevant State/Tribal radon control program to ensure the project complies with State/Tribal requirements.¹⁵

Note: Although testing is not required under this notice, *testing is the only way to determine the radon level within a building*.

⁹ Note that the allowance for the use of test results within the previous five years is specific to this notice and does *not* comport with the ANSI/AARST standards.

¹⁰ This section does not apply to projects that are subject to the MAP Guide, Healthcare Mortgage Insurance Program Handbook or RAD Program Notice and supplemental guidance or other current or future HUD radon guidance that is more prescriptive.

ANSI/AARST Standards (In lieu of developing a federal radon testing standard, the EPA references the ANSI/AARST Standards), https://standards.aarst.org/ (https://standards.aarst.org/ (https://standards-practice).

¹² The National Radon Program Services, "State Radon Programs Information", https://sosradon.org/state.

¹³ NRPP, https://nrpp.info.

¹⁴ NRSB, https://www.nrsb.org.

¹⁵ https://sosradon.org/state.

ii. Alternative Options

Using the ANSI/AARST radon testing standards is not the only option available for considering the risk that occupants may be exposed to high radon levels. ¹⁶ If the environmental review preparer chooses not to conduct radon testing per the ANSI/AARST standards, one of the following alternative strategies ¹⁷ must be used to consider radon in the contamination analysis. Review the HUD program office guidance in Section IV to ensure the strategy used to consider radon in the contamination analysis complies with specific program office requirements for the project. ¹⁸

1. Do-it-yourself (DIY) radon test kits may be used to measure radon levels in single-family dwelling units. In HUD single-family buildings¹⁹ with multiple units, one DIY test kit must be used for each dwelling unit. DIY radon test kits may be available for low or no cost through State/Tribal radon program offices and are available to purchase through the National Radon Program Services website and some state radon control program websites.²⁰

When using a DIY test kit, there can be quality control issues that affect the quality of the test results. To ensure the DIY test results are as accurate as possible, it is important to read the entire test kit instructions before activating the test device and to follow them fully. The EPA's *Citizen's Guide to Radon*²¹ and the ANSI/AARST standard for testing single-family housing are excellent resources for detailed instructions about conducting the radon test, including where to place the test device(s), how to prepare the home (whether to close the windows, turn off fans, the length of time to test), how to document the test process, and interpret the results. HUD encourages that test devices be approved by either the NRPP or NRSB. Contact the National Radon Program Services helpline, the State/Tribal radon program office, or the local health department for assistance.²²

2. In remote or other areas where there are no licensed/certified radon professionals and/or DIY test kits cannot be shipped to a lab in sufficient time, the local government, such as a local health department or environmental department, may decide to purchase radon monitoring equipment and train staff to use it. Monitoring equipment, such as continuous radon monitors, should be used in accordance with the manufacturer's instructions and intended use and staff should ensure proper quality control and quality assurance practices are adhered to.

¹⁶ High levels of radon are those that are at or above 4 pCi/L.

¹⁷ Alternative to measuring radon levels in indoor air using the ANSI/AARST standards.

¹⁸ Note: REs and HUD must also ensure that the strategy used complies with any state or local laws and regulations regarding radon.

¹⁹ HUD defines "single family building" as a residential building with one to four dwelling units.

²⁰ National Radon Program Services, https://sosradon.org/purchase-kits.

²¹ EPA, A Citizen's Guide to Radon: The Guide to Protecting Yourself and Your Family from Radon (EPA 402/K-12/002, December 2016), https://www.epa.gov/radon/publications-about-radon.

²² The National Radon Program Services, which has phone, email, and mail connections, is operated by Kansas State University for the US EPA, https://sosradon.org/Contact. (The phone numbers may also be reached by persons with hearing or speech difficulties by dialing 711 via teletype (TTY) or telecommunications device for the deaf (TDD)).

- 3. Scientific data review. Available science-based information may be used to determine whether the project site is located in an area that has average documented radon levels at or above 4 pCi/L. Contact the State/Tribal radon program office (or health department), as needed, for assistance with obtaining and interpreting available science-based information about radon levels in the area. Science-based information includes, but is not limited to:
- State/Tribe-generated radon information, such as surveys of radon levels from collecting radon measurement data or geological studies that identify high risk areas.
- Department of Health and Human Services, Centers for Disease Control and Prevention (CDC), National Environmental Public Health Tracking, Radon Testing map.²³ This map provides radon test data from national radon testing laboratories and states that can be viewed by state or county. Radon test data ranges from 1988 to the present.

Environmental review preparers may *not* use the EPA Map of Radon Zones nor EPA State Maps of Radon Zones for considering radon levels at a project site for compliance with 24 CFR 50.3(i) or 24 CFR 58.5(i) because it is not appropriate for a site-specific analysis of radon risk, which is required for a HUD environmental review.

Note: Although science-based, a document review *does not* determine the radon level in a specific building; where feasible, HUD recommends using one of the radon testing strategies.

When conducting a scientific data review in lieu of testing, there must be a minimum of 10 (ten) documented test results over the previous 10 years for which data is available in a given county for the scientific data review approach to be utilized. If there are less than 10 documented results over this period, then there is a lack of scientific data for the purposes of this notice and no further consideration of radon is needed if testing is infeasible or impracticable.

Additionally, testing data utilized should cover the smallest geographic area for which the minimum amount of documented test results exist, up in size to the county in which the project is located. The best available data must be used. Best available data refers to the most current data that best indicates the level of radon concentration at a project site. Whenever possible, utilize the average of the previous 10 years of data.

There may be certain scenarios in which use of the Recommended Best Practice or Alternative Options identified above may not be feasible or practicable due to limited access to testing (e.g., lack of licensed radon professionals in the project area) and lack of scientific data (e.g., there are less than 10 documented test results over the previous 10 years). Refer to section **C. Documenting the environmental review record** below for documentation requirements in these scenarios.

²³ CDC, "National Environmental Public Health Tracking, Radon Testing", https://www.cdc.gov/nceh/tracking/topics/RadonTesting.htm.

B. Mitigating Radon

When radon testing determines indoor air radon levels are at or above 4 pCi/L or the scientific data review determines the project site is located in an area that has documented radon levels at or above 4 pCi/L, the Environmental Review Record (ERR) must include a mitigation plan. When the determination is based on a scientific data review, if feasible, HUD recommends conducting radon testing (using one of the testing strategies described in the previous sections) to confirm radon levels in the building(s) proposed for HUD funding. If testing then demonstrates that radon levels within the building are below 4 pCi/L, mitigation would *not* be required; environmental review preparers can simply document the test results in the ERR.

The mitigation plan²⁴ must identify the radon level; consider the risk to occupants' health; describe the radon reduction system that will be installed; whenever possible, establish an ongoing maintenance plan to ensure the system is operating as intended; establish a reasonable timeframe for implementation (i.e., integrate radon mitigation activities into an annual plan or a 5-year plan that is already completed for HUD funded activities); and require post-installation testing. Where feasible, post-installation testing should be conducted by a licensed radon professional. In an area where there are no licensed radon professionals, there may be other personnel, such as trained staff, other professionals (i.e., engineers, geologist, scientists, public health staff) who have experience conducting radon testing or have the relevant skills and knowledge to follow the device instructions or ANSI/AARST test protocols and mitigation standards. For assistance Contact the EPA's local radon program office, state/Tribe radon program office, the National Radon Program Services, or refer to the applicable ANSI/AARST standard for guidance.

If using the ANSI/AARST mitigation standard to install the radon reduction system, follow the guidance in the standard to draft the mitigation and the operation, maintenance, and monitoring plans.

C. Documenting the environmental review record

Under HUD's regulations, 24 CFR 58.38(a)(3) or 50.11, HUD, or the RE, is required to document the radon evaluation as part of the contamination analysis in the ERR. For ERRs documented using the HUD Environmental Review Online System (HEROS), document the radon evaluation in the Contamination and Toxic Substances factor Compliance Determination screen and upload supporting documentation. For Office of Housing projects, document the radon evaluation in the HEROS Housing Requirements Screen.

If testing is not conducted and not otherwise required by program guidance, the documentation will need to provide evidence of average documented radon test results covering the project site or its county, other science-based information suggesting radon levels at the project site, or evidence of a lack thereof.

²⁴ Example of an areawide radon testing plan: Home Forward, Multnomah County, Oregon at: http://homeforward.org/content/radon-information.

²⁵ EPA Regional, State, and Tribal Radon contacts, https://www.epa.gov/radon/epa-map-radon-zones-and-supplemental-information#datainfo; National Radon Program Services, https://sosradon.org/main or 800 644-6999.

In instances where radon testing will be conducted but cannot be conducted until after the environmental review record is certified -such as with new construction or certain rehabilitation projects- then the initial documentation would not include a radon evaluation but must include a condition for post-construction radon testing followed by mitigation if needed. The environmental preparer must update the environmental review record with the radon evaluation and proof of any required mitigation when complete.

Acceptable methods to document radon consideration in the ERR include:

- ANSI/AARST standard: Include a copy of the test report and mitigation plan (if applicable) as described in the standard in the ERR. For Office of Housing programs, follow program guidance requirements on timing and documentation.
- DIY and other radon test strategies: Document the test device, time period of test, test conditions (HVAC system off windows closed, outside temperature), test results, and other conditions relevant to test conditions. Refer to the applicable ANSI/AARST standard as guidance.
- Review of CDC radon testing data, geologic studies/maps, other scientific data: Describe and cite the maps and data used to determine the area wide radon levels and include copies of all supporting documentation (maps/studies) in the ERR.
- In instances where HUD grantees, applicants, and recipients are unable to obtain science-based data, environmental review preparers must consider the feasibility of radon testing if they have not already. If the grantee, applicant, or recipient determines that testing is infeasible or impracticable, the environmental review must document the basis for this determination.²⁶. Acceptable documentation in these scenarios where testing is infeasible and science-based data is not available includes but is not limited to: correspondence with state and local radon control agencies indicating a lack of scientific data evidencing radon levels at the project site, a copy of CDC Environmental Health Tracking Network information showing the project site is located in a county with a lack of scientific data, and a basis for the conclusion that testing would be infeasible or impracticable. The RE, grantee, applicant, or recipient is not required to submit additional documentation substantiating their decision that testing is infeasible or impracticable.
- When all this is documented in the ERR, *no* further consideration of radon is needed and no further action with respect to radon is needed for the environmental review.

Examples of acceptable documentation of radon consideration in the ERR:

• A project site is located in a county in which the CDC Radon Testing data shows that more than 10 tests have been conducted over the last 10 years. The average of the 200 tests completed in the county over the last 10 years is 4.5 pCi/L. Since scientific data

²⁶ Common instances where this determination may occur include a lack of funding for testing or the cost of testing is prohibitively high when compared with the cost of a particular low-dollar project.

indicates that average radon levels in the county in which the project is located are greater than 4.0 pCi/L, the grantee must either test for radon or formulate a mitigation plan they will implement.

- Radon testing data from the CDC Environmental Public Health Tracking Network map shows data for the county in which the project site is located, which is the smallest area for which data is available. The data shows the annual mean pre-mitigation radon measurement in tested buildings for the most recent 10-year period as 1.8 pCi/L. There is no other available evidence of radon levels in the area. The local government chooses to establish a radon testing plan to confirm radon levels in specific buildings are below 4 pCi/L. The test plan timeframe aligns with the RE's housing rehabilitation plan.
- A project site is located in a county in which the CDC Radon data shows that more than 10 tests have been conducted over the last 10 years. The average of the 220 tests completed in the county over the last 10 years in 3.2 pCi/L. The responsible entity or HUD reviewer documents the results in the environmental review records and therefore satisfies this notice's requirement that radon be considered as part of the environmental review process.
- A project site is located in a county in which the CDC data shows that fewer than 10 tests have been conducted over the last 10 years. The RE or HUD reviewer documents the lack of scientific data in the environmental review records. The RE has reviewed the cost of radon testing for the project and determined that testing is infeasible because the cost to test for this project would cut too much into the project's small budget. They note this determination in the environmental review record.

The local EPA radon contact person and the National Radon Program Services may be able to assist with developing a testing plan. The EPA's *A Citizen's Guide to Radon* (for single family homes) and the ANSI/AARST standards (single family and multifamily buildings) are a good source for guidance on the information that is included in a test plan.

Note: HUD or a Responsible Entity must reject projects in areas that have sufficient documented radon levels at or above 4 pCi/L if no mitigation has been proposed or performed.

IV. HUD program office documents addressing radon

Current HUD program office guidance regarding radon testing and mitigation is listed below. Each HUD program office is responsible for issuing program-specific radon guidance. Program guidance may be updated as Departmental policies develop; be sure to use the most current guidance. Additionally, this notice does not preempt or modify existing HUD program-specific radon requirements, such as those found in the Multifamily Accelerated Processing (MAP) Guide, the Healthcare Mortgage Insurance Program Handbook 4232.1 Rev-1, the RAD Program Notice and Supplemental Notice 4B, or other current or future radon guidance that is more prescriptive. For questions concerning program office guidance, contact your program office representative.

- Office of Housing, Multifamily Housing, Multifamily Accelerated Processing Guide (4430.G), Section 9.6.3, https://www.hud.gov/program offices/administration/hudclips/guidebooks/hsg-gb4430
- Office of Housing, Office of Residential Care Facilities, Healthcare Mortgage Insurance Program Handbook (4232.1), Section 7.8, Rev-1), or most recent edition, https://www.hud.gov/sites/documents/42321S2C7HSGH.PDF
- Office of Housing, Office of Recapitalization, Rental Assistance Demonstration (RAD) Program (Notice H-2019-09 PIH-2019-23 (HA)) and Supplemental Notice 4B (Notice H-2023-08 PIH-2023-19 (HA)), https://www.hud.gov/RAD/library/notices
 - o Quick Reference Guide, Environmental Review Requirements for RAD Conversions (2020), https://www.hudexchange.info/resource/4216/environmental-reviewrequirements-for-rad-transactions/. Check RAD Resource Desk for future guidance, https://www.radresource.net/index.cfm
- Office of Public and Indian Housing (PIH), Radon Information for PIH Programs (Notice 2013-06 (HA)), https://www.hud.gov/sites/documents/PIH2013-06.PDF and https://www.hudexchange.info/programs/radon/

V. Resources

HUD resources for implementation of this notice Α.

Costs for radon testing and mitigation are considered eligible program costs for many HUD grant programs. As such, costs for radon testing and mitigation could be included in the total project costs funded or insured by HUD. Note: Costs for ongoing operation and/or maintenance of installed mitigation systems may not be eligible under certain HUD programs. For questions about the eligibility of the ongoing maintenance of radon mitigation systems, as well as other funding-specific questions, contact your HUD program office contact.

Table A on the following page, notes the major HUD programs for which radon testing and/or mitigation under 24 CFR 50.3(i) or 24 CFR 58.5(i) is an eligible program expense. This list is non-exhaustive; for other HUD programs please contact the appropriate program office contact.

Table A: HUD programs and radon testing and mitigation as an eligible expense

Program or grant name	Is radon testing an eligible expense?	Is radon mitigation an eligible expense? ²⁷
Community Development Block Grant (CDBG)	Yes	Yes
Community Development Block Grant CARES Act (CDBG-CV)	Yes	Yes
Community Development Block Grant Disaster Recovery (CDBG-DR)	Yes	Yes
Community Development Block Grant Mitigation (CDBG-MIT)	Yes	Yes
Community Project Funding (CPF) Grants	Yes	Yes
Continuum of Care Program (CoC)	Yes	Yes
Emergency Solutions Grants Program	Yes	Yes
FHA-Insured Healthcare Loans	Yes	Yes
FHA-Insured Multifamily Loans	Yes	Yes
Green and Resilient Retrofit Program (GRRP)	Yes	Yes
HOME Investment Partnerships American Rescue Plan Program (HOME-ARP)	Yes	Yes
HOME Investment Partnerships Program (HOME)	Yes	Yes
Housing Opportunities for Persons With AIDS (HOPWA)	Yes	Yes
Housing Trust Fund (HTF)	Yes	Yes
HUD Section 8 renewals with capital repairs	Yes	Yes
HUD Section 8(bb) Transfer of Budget Authority.	Yes	Yes
Indian Community Development Block Grant (ICDBG)	Yes	Yes
Indian Housing Block Grant Program (IHBG)	Yes	Yes
Public Housing Capital and Operating Funds	Yes	Yes
Rental Assistance Demonstration (RAD)	Yes	Yes
Section 108 Loan Guarantee Program	Yes	Yes
Section 202 Supportive Housing for the Elderly Program	Yes	Yes
Section 811 Supportive Housing for Persons with Disabilities Program	Yes	Yes
Self-Help Homeownership Opportunity Program (SHOP)	Yes	Yes
Transfers of Rental Assistance with HUD Held or Insured Debt and/or Use Restrictions ("Section 209 Transfers.")	Yes	Yes

²⁷ Note: The term "radon mitigation" refers only to initial installation of a radon mitigation system and does *not* encompass ongoing maintenance.

B. Other radon resources

- EPA radon website, https://www.epa.gov/radonNational Radon Program Services, https://sosradon.org/
 - o Helpline: 1-800-557-2366
 - Comprehensive radon information, links to state radon programs and radon testing and mitigation information, and access to radon helplines
- CDC, National Center for Environmental Health, "Radon", https://www.cdc.gov/radon/
 - National Environmental Public Health Tracking Network testing data map: https://www.cdc.gov/nceh/tracking/topics/RadonTesting.htm
- ANSI/AARST radon testing protocols and mitigation standards, https://standards.aarst.org/
- HUD 3-part radon webinar series sponsored by the Office of Lead Hazard Control and Healthy Homes and Public and Indian Housing, https://www.hudexchange.info/programs/radon/
- Office of Lead Hazard Control and Healthy Homes, *About Radon*, https://www.hud.gov/program_offices/healthy_homes/healthyhomes/radon
- OEE, *Radon Fact Sheet*, https://www.hudexchange.info/resource/4955/oee-radon-fact-sheet/
- OEE Radon and HUD-Assisted Projects Webinar Series, https://www.hudexchange.info/news/radon-and-hud-assisted-projects-webinar-series/

For questions concerning this Notice, contact your local OEE field environmental office staff, https://www.hudexchange.info/programs/environmental-review/hud-environmental-staff-contacts/

Attachment 7a. Environmental Sensitivity Index Map

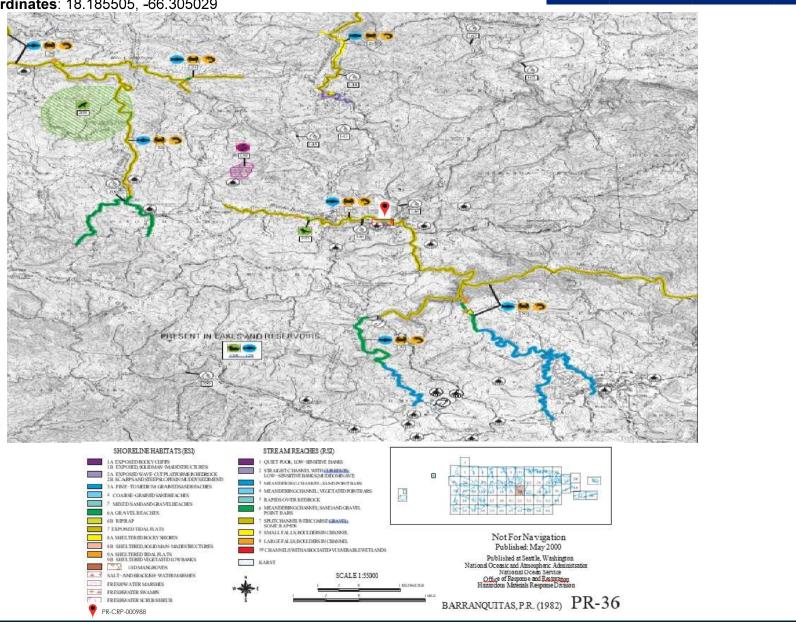
Address: State Road PR-156 Km 16.3, Pueblo Ward,

Barranquitas, PR 00794

Coordinates: 18.185505, -66.305029





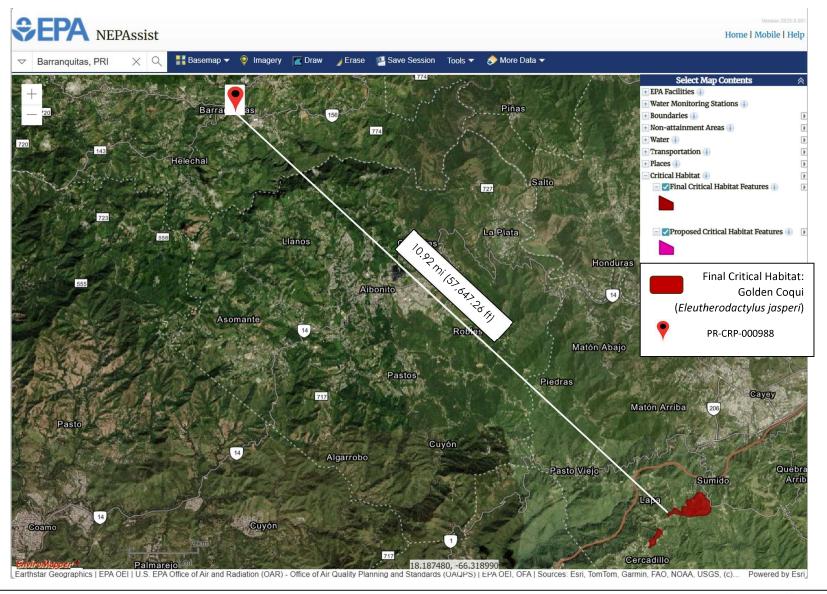


Attachment 7b. Critical Habitat Map

Coord: 18.185505, -66.305029

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranquitas, PR 00794

PR-CRP-000988 Barranquitas - Construction of New Public Parking



Attachment 7c

USFWS Package with IPaC



HOUSING



<u>Transmittal Letter</u>

June 28, 2024

Caribbean Ecological Services Field Office U.S. Fish and Wildlife Service P.O. Box 491 Boquerón, Puerto Rico 00622 Email: caribbean@es@fws.gov *

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 1073

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

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	ect 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. Eme 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 Pú			
PR-CRP-001026	Conversion Of Del Valle Avenue into a Complete Street		
PR-CRP-001192 Public Facilities Plaza Rafael Hernández Marín Río Piedr			



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 *Construcción de Ampliación de Estacionamiento Público* (PR-CRP-000988), consisting of the construction of an extension to the existing municipal public parking lot, including a 2-level building consisting of 33 regular and 6 disabled parking spaces on the street-level floor, 44 parking spaces on the second floor, an elevator, emergency exit stairs, and a solar energy system, located at PR-156 Road Km 16.3 (Barceló Street), Barranquitas, PR 00794 (18.18561, -66.30506), complies with:

Check	Project Criteria
	1. Street resurfacing.
	2. Construction of gutters and sidewalks along existing roads.
	3. Reconstruction or emergency repairs of existing buildings, facilities and homes.
	4. Rehabilitation of existing occupied single-family homes, and buildings; provided that equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation and that the lighting associated to the new facilities is not visible directly or indirectly from a beach.
	5. Demolition of dilapidated single-family homes or buildings; provided that the demolition debris is disposed in certified receiving facilities; equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation.

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

Ángel E. López-Guzmán Deputy Director

Permits and Environmental Compliance Division

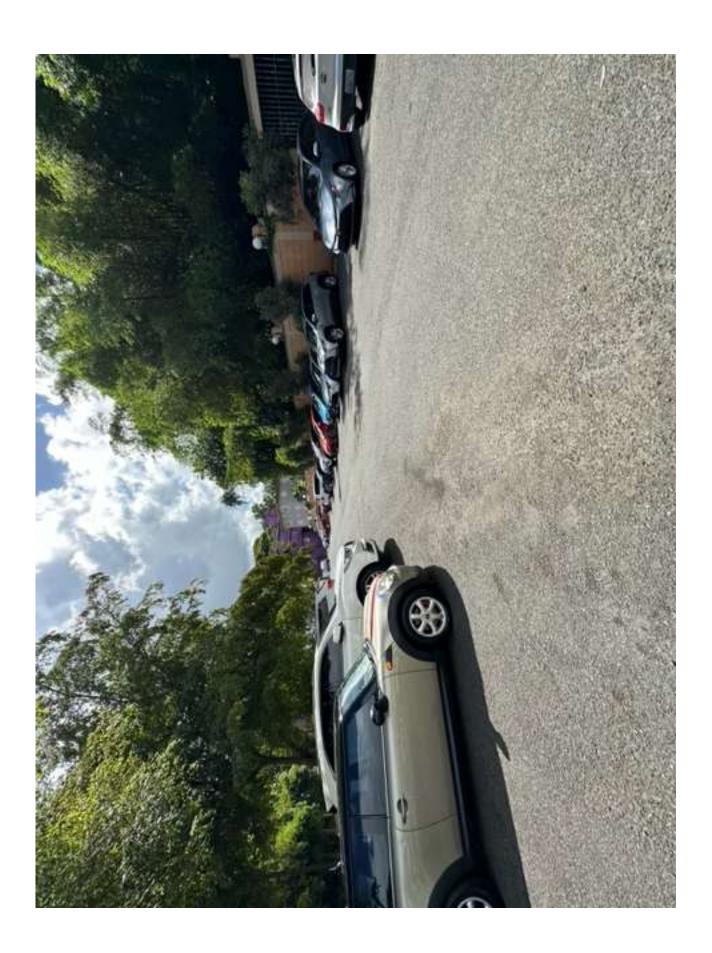
Office of Disaster Recovery

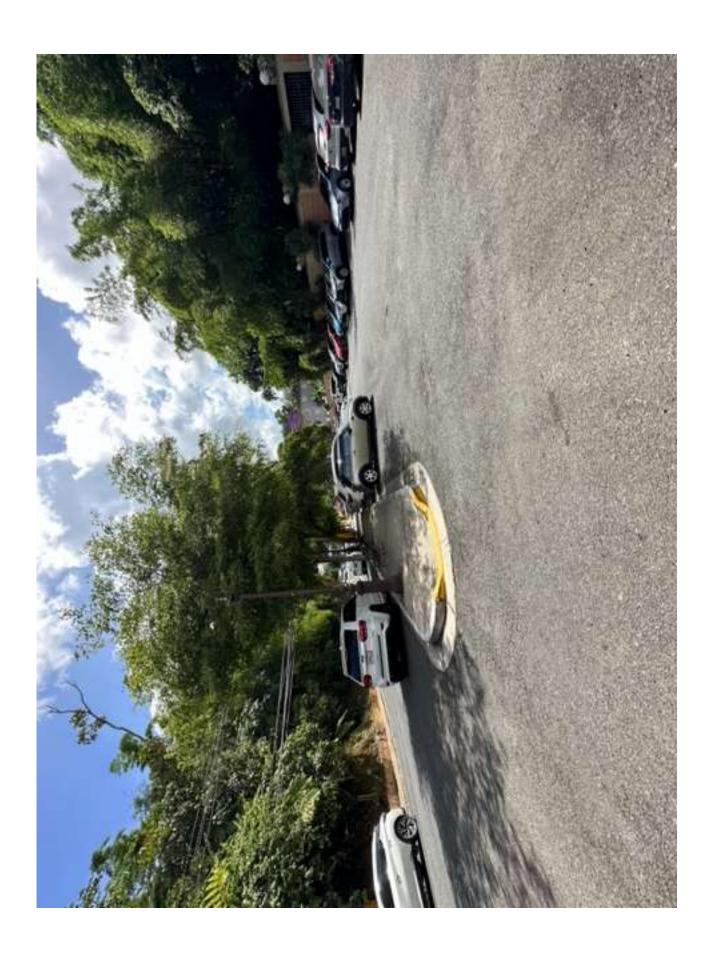
Address: P.O. Box 21365 San Juan, PR 00928
Telephone and Ext: 787-274-2527 ext. 4320
Email: environmentcdba@vivienda.pr.gov

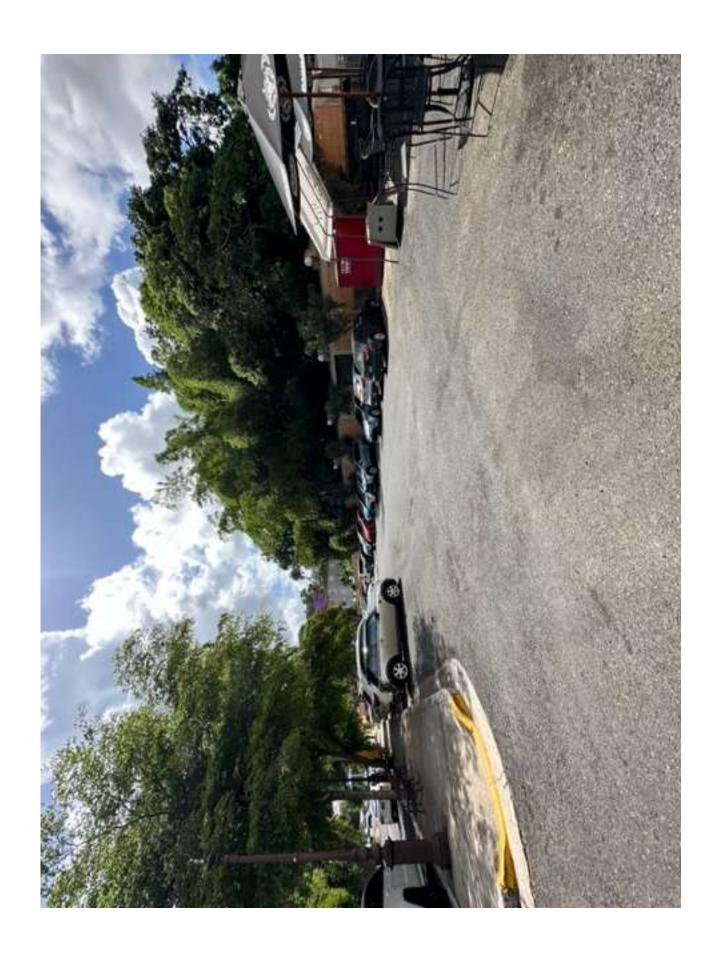
PR-CRP-000988 PROJECT PHOTOS AND MAPS





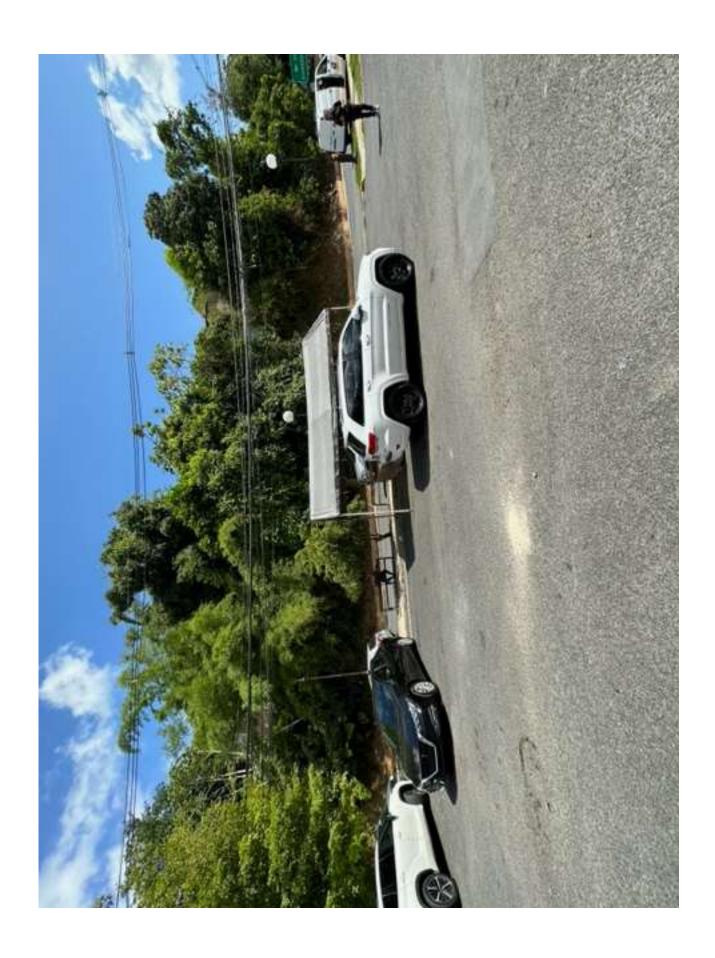


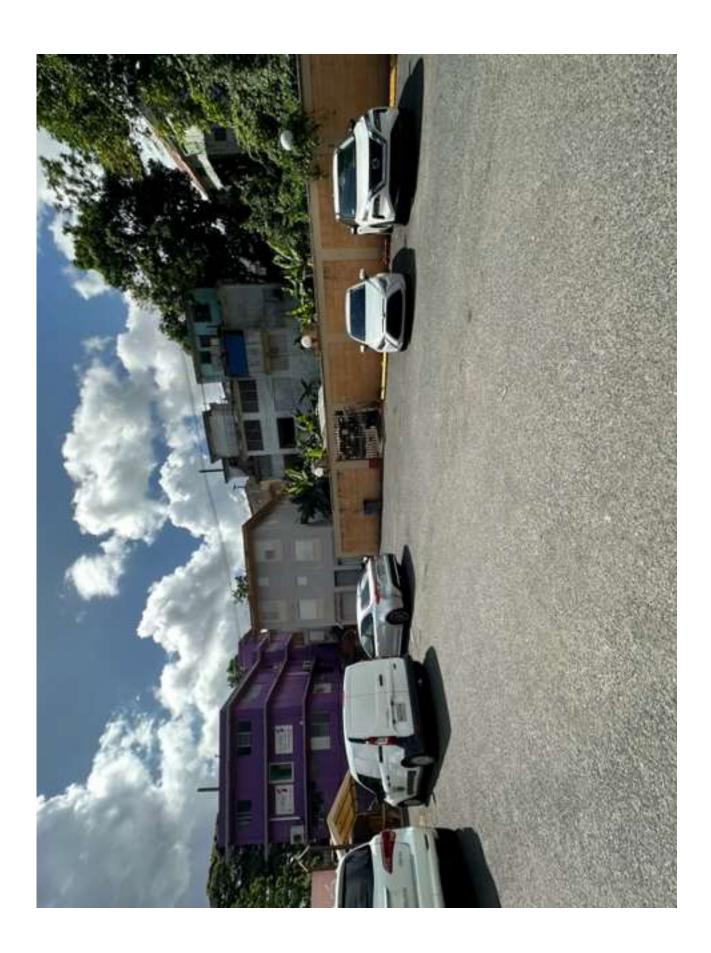




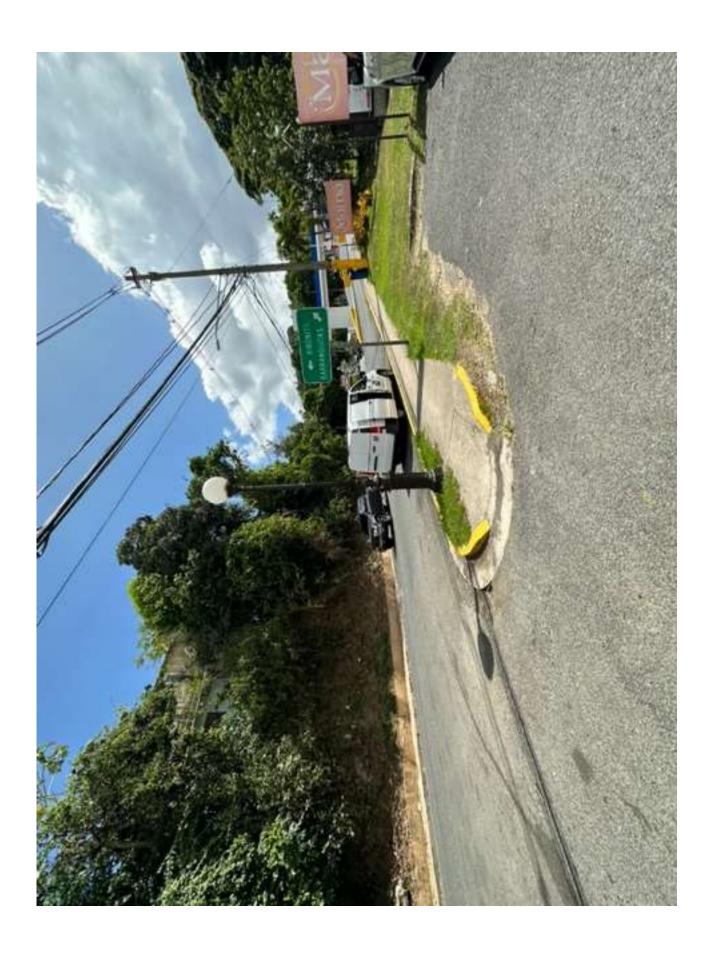


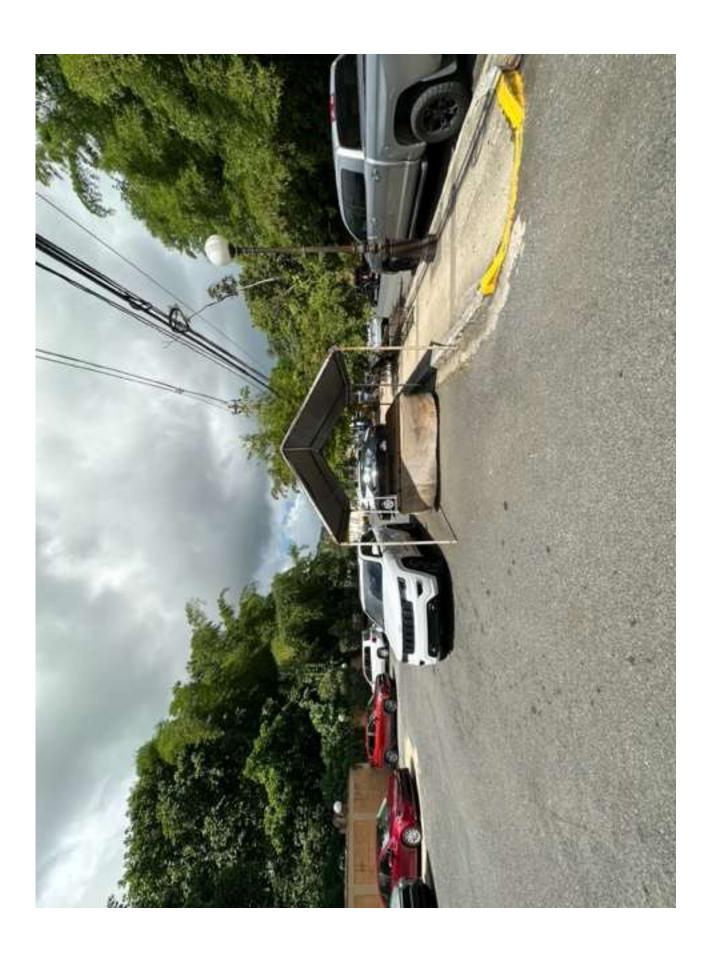






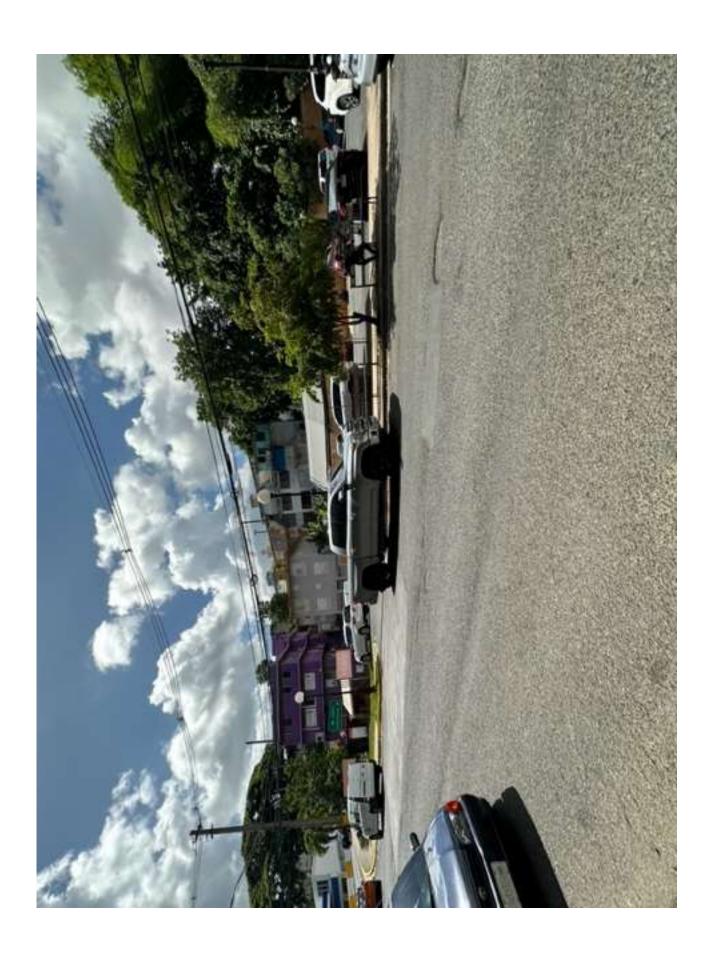




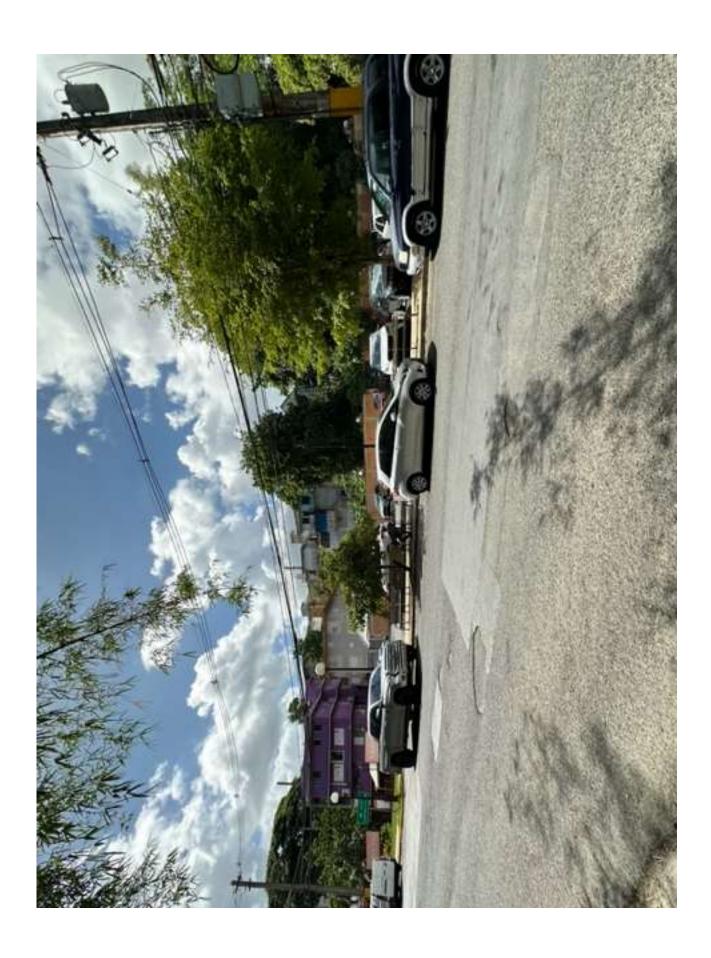


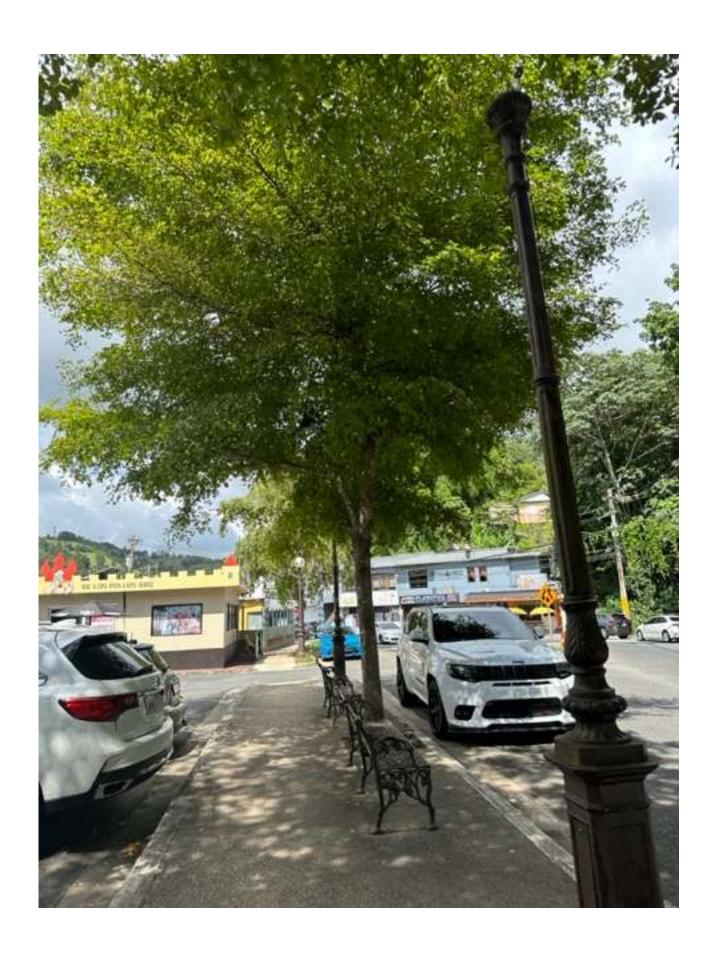


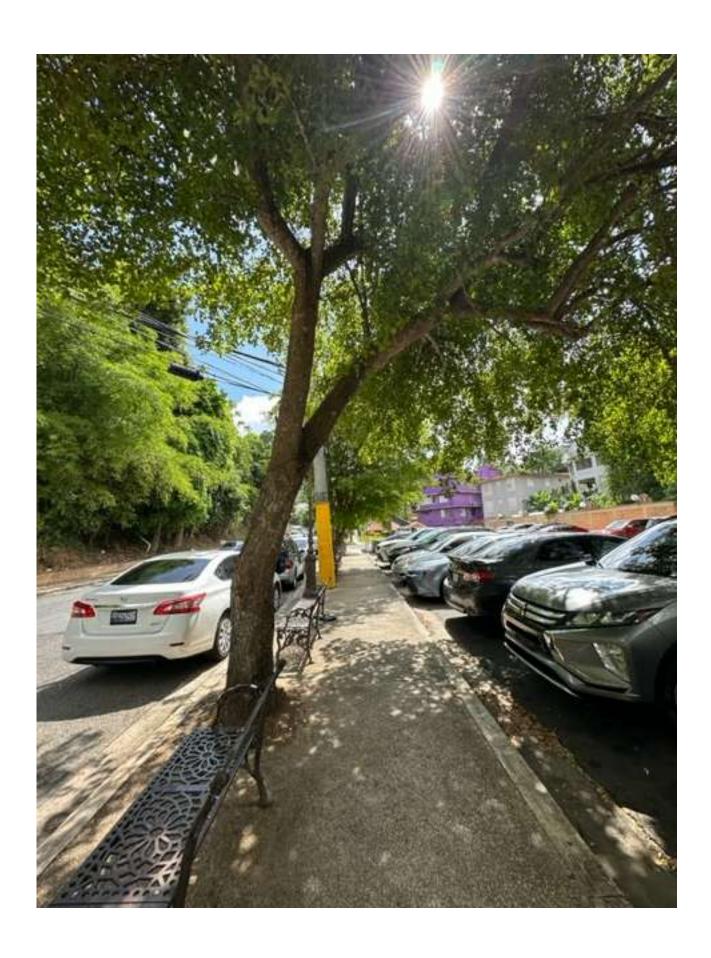


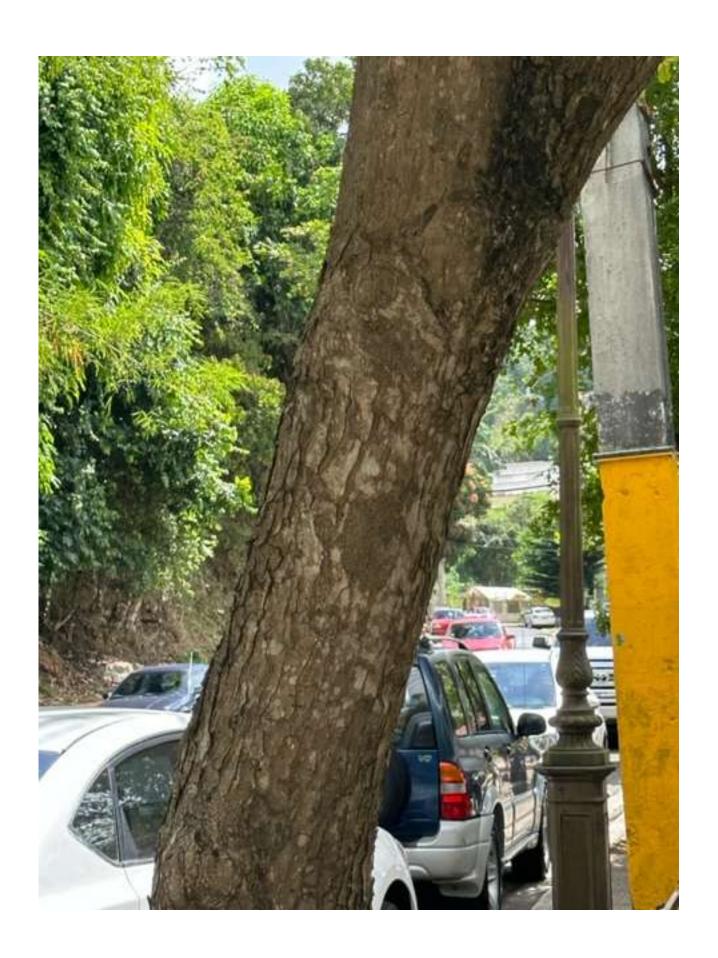


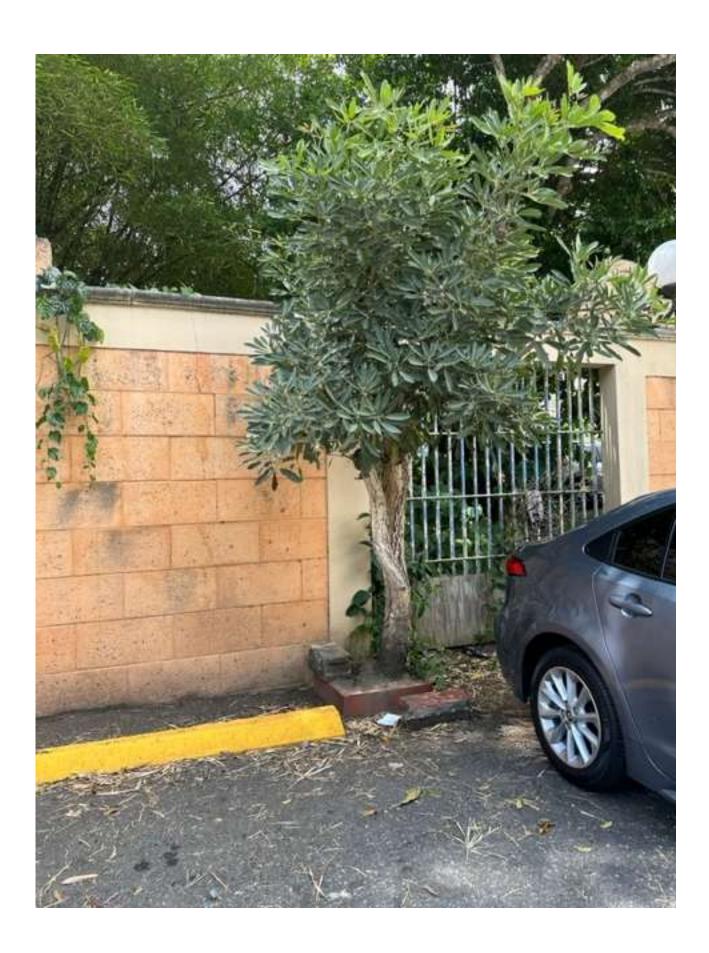


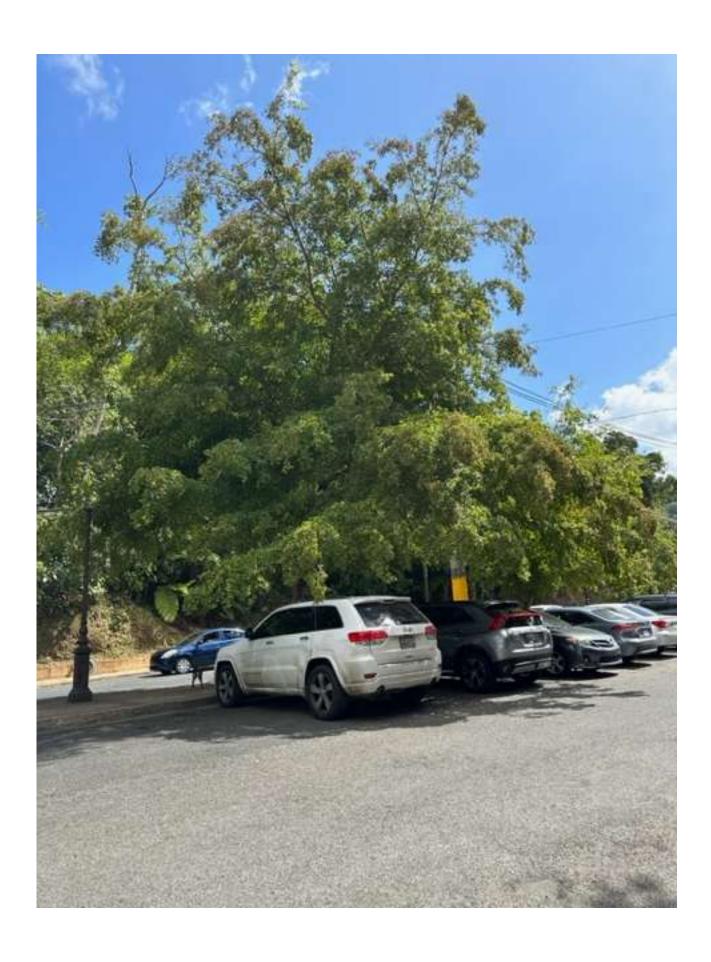






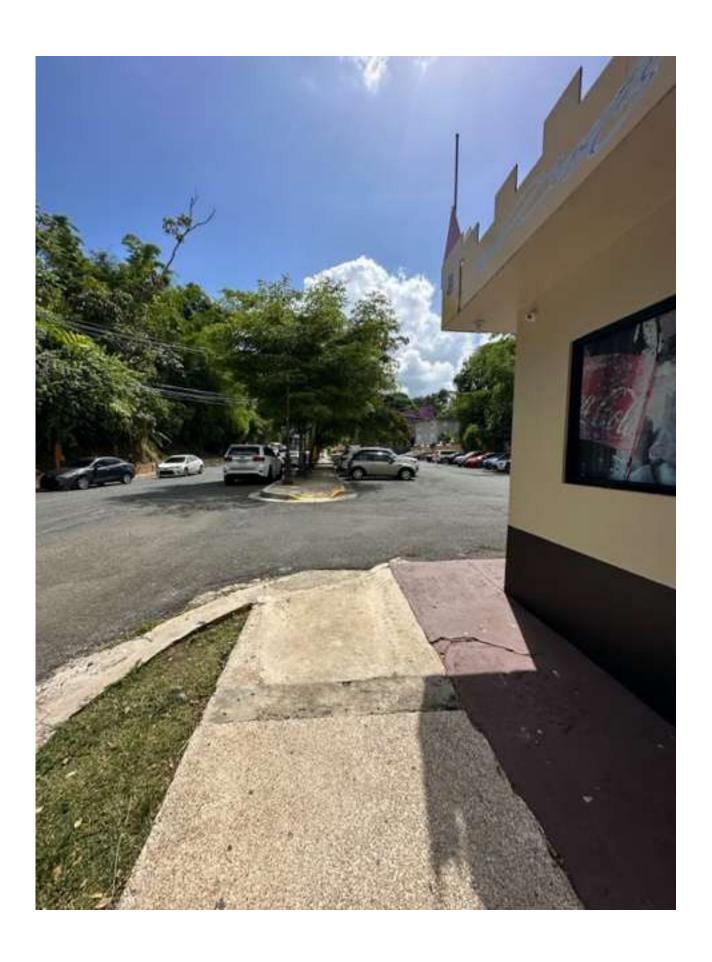




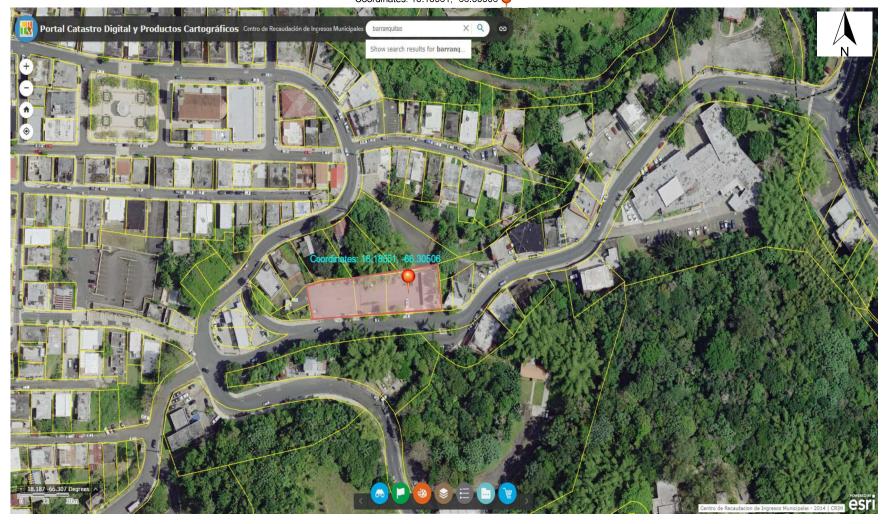








PR-CRP-000988 Project Location Map Address: PR-156 Km 16.3 (Barceló Street), Barranquitas, PR 00794 Coordinates: 18.18561, -66.30506

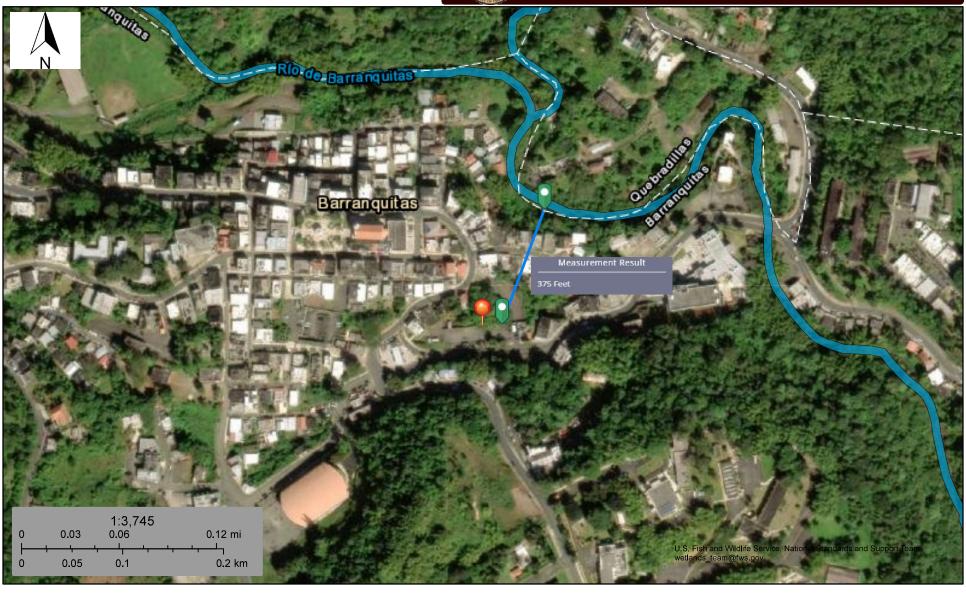


PR-CRP-000988 Wetland Map

Address: PR-156 Km 16.3 (Barceló Street), Barranquitas, PR 00794

Coordinates: 18.18561, -66.30506

U.S. Fish and Wildlife Service National Wetlands Inventory



June 10, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

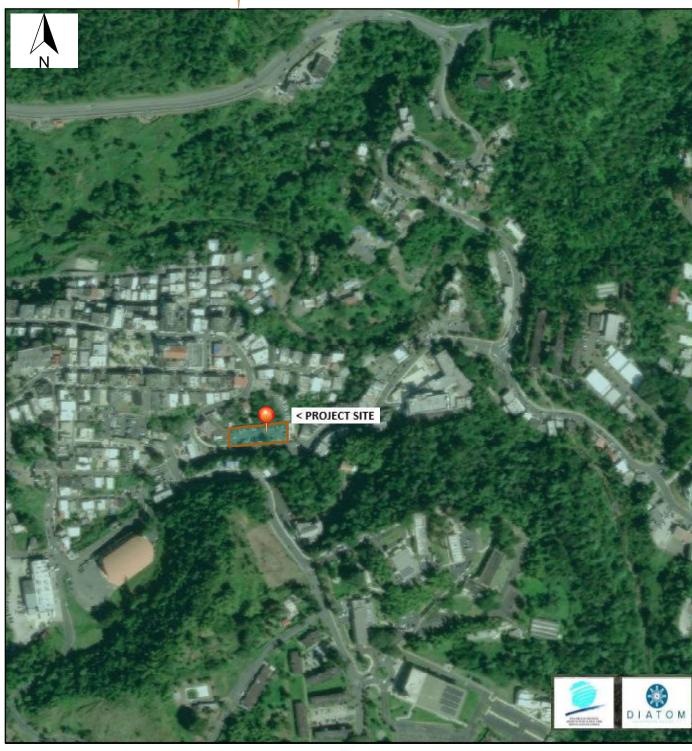
Other

Otner 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.

PR-CRP-000988 Critical Habitat Map

Address: PR-156 Km 16.3 (Barceló Street), Barranquitas, PR 00794

Coordinates: 18.18561, -66.30506

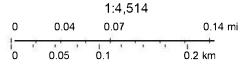


September 10, 2023

Project 1

Search Result (polygon)





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.

Location

Barranquitas 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 00622-0491

PHYSICAL ADDRESS

Office Park I State Road #2 Km 156.5, Suite 303} Mayaguez, PR 00680



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 species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Reptiles

NAME STATUS

Puerto Rican Boa Chilabothrus inornatus

Endangered

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/6628

Flowering Plants

NAME STATUS

Palo De Rosa Ottoschulzia rhodoxylon

Threatened

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/5741

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

There are no documented cases of eagles being present at this location. However, if you believe eagles may be using your site, please reach out to the local Fish and Wildlife Service office.

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 conservation 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

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 <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> 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 a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply). To see a <u>list of all birds</u> potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, and citizen science datasets</u> 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 a BCC species in that area, an eagle (<u>Eagle Act</u> 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, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the <u>Eagle Act</u> should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> 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 conservation 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

The <u>data</u> in this location indicates there are no migratory <u>birds of</u> <u>conservation concern</u> expected to occur in this area.

There may be migratory birds in your project area, but we don't have any survey data available to provide further direction. For additional information, please refer to the links above for recommendations to minimize impacts to migratory birds or contact your local FWS office.

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding 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 USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, and citizen science datasets</u> 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 a BCC species in that area, an eagle (<u>Eagle Act</u> 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, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

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 <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey, banding, and citizen science datasets</u>.

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 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 year-round), you may query your location using the RAIL Tool and look at 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 migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, 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 <u>Birds of Conservation Concern</u> (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 Eagle 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).

Although it is important to try 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 eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

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.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

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 also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). 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 is not perfect; 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 helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> 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>U.S. Army Corps of Engineers District</u>.

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

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

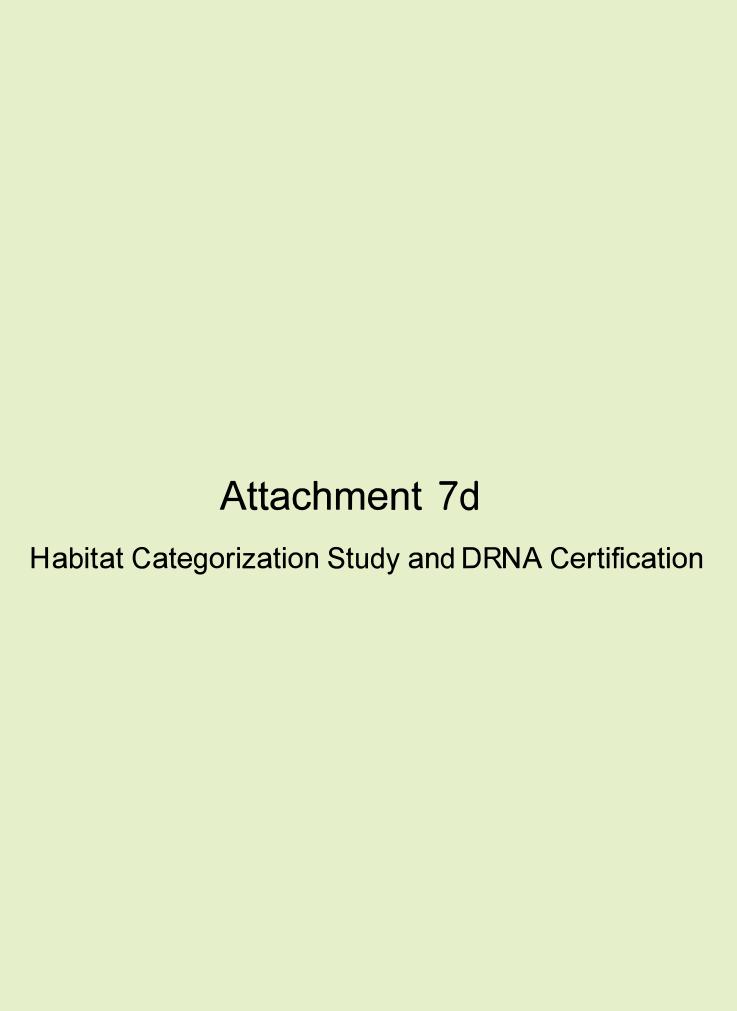
Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or

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.





Categorización de Hábitat

Construcción de Ampliación Estacionamiento Público, Barranquitas

Preparado Para:

Central Group Engineering Services, PSC 787-857-8021

Preparado por:

Green Projects Environmental Consultants, LLC p/c: Agro. Elvelisse Figueroa Hernandez 787-528-3322

greenprojectpr@gmail.com



i. Descripción y localización de la finca del proyecto bajo evaluación

DESCRIPCIÓN DEL PROYECTO

El Municipio Autónomo de Barranquitas posee un área de estacionamiento sobre tierra ubicado en la Carretera PR-156, Km. 16.3 (Calle Barceló) en el Municipio de Barranquitas. Este estacionamiento tiene una cabida de 1,606.1199 metros cuadrados, equivalente a 0.4086 cuerdas. Con el propósito de aumentar la capacidad de espacios para estacionamientos y mejorar el entorno de la entrada al pueblo, se pretende construir un segundo nivel sobre el estacionamiento existente a conocerse como Ampliación Estacionamiento Público (en adelante el "Proyecto" o "Acción Propuesta).

El nuevo nivel de estacionamientos se construirá en hormigón armado y contará con placas solares que energizarán el mismo, tendrá una rampa de acceso al segundo nivel la cual conectará con la carretera 156, se relocalizará uno de los accesos existentes al estacionamiento. El predio de terreno está ubicado en Suelo Urbano y tiene una calificación C-I (Comercial Intermedio), además está ubicado en área no inundable Zona X de acuerdo con el mapa # 72000C1170H.

Localización del Proyecto:



Dirección: Carretera PR-156, Km. 16.3 (Calle Barceló) en el Municipio de

Barranquitas - **Coordenadas:** X: 213573.2612 Y: 238979.4592

DESCRIPCIÓN DEL PREDIO:

La propiedad ha sido impactada previamente con la construcción de estructuras e impermeabilización de los suelos. La vegetación dominante son árboles que fueron sembrados como parte de diseño paisajista sembrados en franjas de siembra, que sirven para brindar sombra. La fauna del lugar se limita a varias especies de aves y reptiles como lagartijos y siguanas típicamente encontrados en zonas urbanas.

ii. Inventario reciente de la flora y fauna del lugar de la obra, resaltando la presencia, si alguna, de especies raras, vulnerables o en peligro de extinción o que constituyan elementos críticos de vida silvestre según las listas del DRNA o del gobierno federal

Lista de Flora

Familia	Nombre Común	Nombre Científico	Clasificación
Arecaceae	Palma adonidea	Veitchia merrillii	Р
Bignoniaceae	Roble Plateado	Tabebuia argentea	Α
Bromeliaceae	Bromelia	Bromelia Spp	Н
Combretaceae	Ucar	Bucida buceras	Α
Compositae	Guaco	Mikania cordifolia	В
Compositae	Margarita	Bidens pilosa	Н
Compositae	Clavelillo rojo	Emilia fosbergii	Н
Compositae	Santa María	Vernonia albicaulis	Н
Compositae	Yerba socialista	Vernonia cinerea	Н
Connaraceae	Juan Caliente	Rourea surinamensis	В
Convolvulacea	Batatilla blanca	Merremia quinquefolia	В
Convulvulaceae	Bejuco de puerco	Ipomoea setifera	В
Lauraceae	Aguacate	Persea mericana	Α
Piperaceae	Higuillo	Piper aduncum	Ar
Poaceae	Bambuas	Bambusa vulgaris	Н
Poaceae	Pendejuelo	Digitaria sanguinalis	Н
Poaceae	Zoysa spp	Zoysa	Н

Lista de Fauna:

Aves				
Nombre Comun	Nombre Científico	Clasificación		
Ardea alba	Garza Real	R		
Columbina passerima	Rolita	R		
Coereba flaveola	Reinita Común	R		
Quiscalus niger	Mozambique	I		
Tyrannus dominicensis	Pitirre	R		
Vireo latimeri	Bienteveo	Е		
Margarops fuscatus	Zorzal Pardo	R		
Mimus polyglottos	Ruiseñor	R		
Reptiles				
Nombre Comun	Nombre Científico	Clasificación		
Anolis cristatellus	Lagartijo Común	E		
Ameiva exul	Siguana	E		
Anfibios				
Nombre Comun	Nombre Científico	Clasificación		
Eleutherodactylus coqui	Coquí común	E		
Bufo marinus	Sapo marino	I		

I- Introducido R- Residente E- Endémico

iii. Descripción de la metodología utilizada para realizar el inventario

La fase de inventario sobre la flora fue realizada en el lugar donde se propone la construcción del Proyecto. Durante las inspecciones de campo, se recorrió el área que ocupa la huella de impacto de las obras propuestas en su totalidad; para documentar las especies de flora.

En cuanto a la fauna, se realizó el estudio comenzando a tempranas horas (6:45 am-10:00 am) y en horarios de la tarde (4:00 pm-10:00 pm). Para lograr la identificación de las aves y fauna en general se establecieron lugares de muestreo donde era posible observar todo el lugar. La identificación de aves fue visual y por la identificación del sonido peculiar de cada una de las especies.

Para los reptiles se determinó su presencia al momento en que salían a termoregular. Para identificarlos se utilizaron mecanismos indirectos para determinar la presencia de diferentes especies de animales como por ejemplo: restos de nidos, plumas, heces fecales entre otros.

Como recursos adicionales para determinar la presencia o ausencias de especies consideradas como críticas, raras o en peligro de extinción se consultó

con la División de Patrimonio Natural del Departamento de Recursos Naturales y Ambientales (DRNA).

iv. Presencia en la finca de cuerpos de agua, pozos de agua potable, humedales, bosques, cuevas, mogotes, sumideros, descargas de aguas usadas o pluviales, playas, dunas de arena, guajones, ect.

	Sistemas Natural	es y Áreas Ec	ológicamente	Sensitivas	
Sistema	Dentro	Fuera	Distancia (m)	No existe	Nombre
Área Costanera				Х	
Bahías				Χ	
Bosques o				Χ	
Reservas					
Zona del Carso				Χ	
Dunas				Χ	
Embalses				Х	
Reserva agrícola				Χ	
Humedal				Χ	
Acantilado				Χ	
Hábitat				Χ	
Manantiales				Χ	
Refugio de Aves				Χ	
Ríos			95 NE		Rio
					Barranquitas
Quebradas				Х	
Canal				X	
Sumideros				Х	
Laguna				Х	
Reptiles				Х	
Mamiferos				X	

v. Descripción de los hábitats naturales de alto valor ecológico presentes en la finca del proyecto propuesto. Descripción de los impactos reales o potenciales del proyecto propuesto sobre estos sistemas o cualquier otro de valor natural presente.

<u>Hidrología:</u>

Dentro o cercano al área del proyecto no existen cuerpos de agua que puedan verse afectados por las obras propuestas. El cuerpo de agua más cercano es la Rio Barranquitas que discurre al Noroeste de la Propiedad a una distancia aproximada de 95metros.

<u>Humedales</u>

El National Wetlands Inventory Mapper del FWS no establece la presencia de humedales dentro del predio de la Acción. Reconocimientos de campo efectuados con motivo de la preparación de esta EA no arrojaron información distinta.

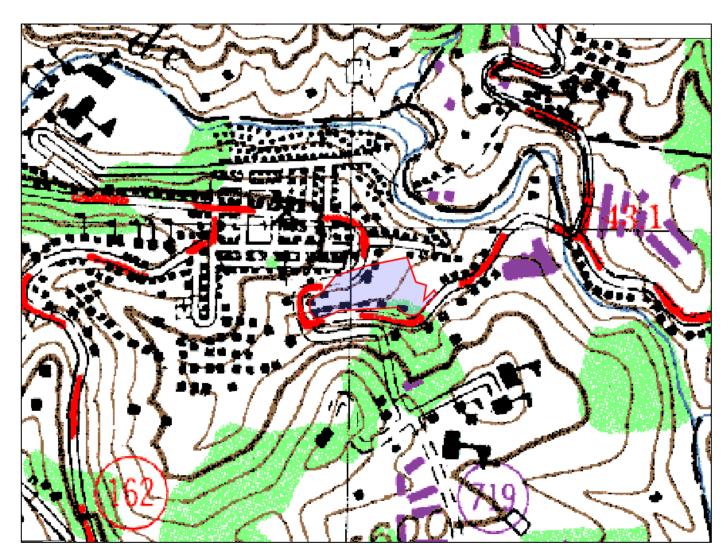
Índice de Sensibilidad Ambiental:

Dentro de la Propiedad no existen cuerpos de agua, u otros sistemas naturales, tales como cuevas, reservas naturales, sumideros, bosques y áreas ecológicamente sensitivas, tampoco dentro de una distancia de 400 m lineales con excepción del Rio Barranquitas.

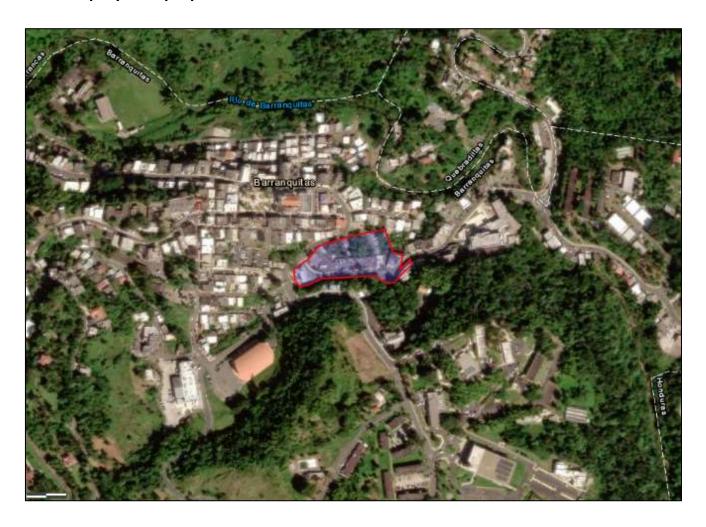
El Mapa ESI, con excepción del Río Barranquitas tampoco identifica la presencia de recursos biológicos de importancia dentro de la Propiedad, o dentro de un radio de 400 m alrededor de ésta. El MIPR operado por la Junta de Planificación tampoco identifica la presencia de tales recursos dentro de la Propiedad o dentro del radio descrito. Tampoco han sido identificados dentro de la Propiedad con motivo de recorridos efectuados como parte de la preparación de esta EA.



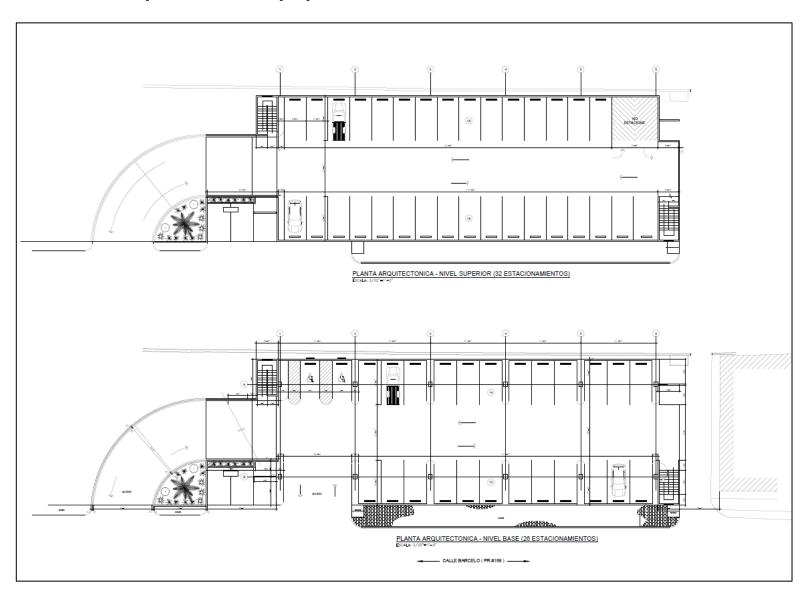
- vi. Descripción resumida de las actividades humanas pasadas realizadas en el predio del proyecto propuesto, particularmente aquellas que hayan causados impactos permanentes.
 - Construcción de Estructuras
 - Impermeabilización de Suelos
 - Desarrollo Urbano el Sector
- vii. Copia legible de mapa topográfico 1:20,000 donde se señale claramente la localización de la finca del proyecto propuesto.



viii. Foto aérea donde se señale claramente la localización de la finca del proyecto propuesto



ix. Plano de la finca del proyecto donde se señale detalladamente la huella de impacto de la obra propuesta.



x. Determinación de la Categoría de Hábitat Natural que se recomienda para la finca del proyecto propuesto a tenor con la información sometida y las disposiciones de la Ley 241 y sus reglamentos.

El Reglamento Núm. 6765 de 11 de febrero de 2004, conocido como el Reglamento para Regir la Conservación y el Manejo de la Vida Silvestre, las Especies Exóticas y la Caza en el Estado Libre Asociado de Puerto Rico (Reglamento 6765), establece, para fines de determinar el tipo de mitigación aplicable a un predio, seis (6) categorías de hábitat, a saber: Categoría 1: Hábitat Irremplazable; Categoría 2: Hábitat esencial; Categoría 3: Hábitat de Alto valor Ecológico; Categoría 4: Hábitat de Valor Ecológico; Categoría 5: Hábitat Natural con bajo potencial de convertirse en hábitat esencial, de alto valor ecológico o de valor ecológico.

Las obras de la Acción Propuesta se realizarán únicamente en los terrenos que, por carecer de valores ecológicos particulares, ha sido clasificado como SU, calificado como C-I y R-I, en reconocimiento de su idoneidad para desarrollo según contempla la Acción Propuesta. En la Propiedad no se ha identificado la presencia de especies amenazadas o en peligro que limiten o impidan el desarrollo de la misma.

Visto lo anterior, donde se propone la Acción Propuesta corresponde a una Categoría 6: Hábitat natural con bajo potencial de convertirse en hábitat esencial, de alto valor ecológico o de valor ecológico. De conformidad con los requisitos del Reglamento 6765 aplicables a hábitat Categoría 6, la Acción Propuesta se realizará implantando medidas que minimicen la pérdida directa de hábitat.

La determinación de categoría de hábitat se hizo tomando en cuenta la localización de la Acción Propuesta, la ausencia de vegetación, el impacto previo a la Propiedad y el desarrollo urbano del sector. El predio de la Acción Propuesta no contiene una composición única de especies, tampoco se identificaron especies de vida silvestre, poblaciones o comunidades de especies de distribución específica y limitada de baja capacidad de dispersión que puedan ser afectadas por la Acción Propuesta.

Sin embargo, para mejorar la estética y las condiciones existentes se sembrarán árboles, arbustos y palmas nativas. Una vez se complete el plan de siembra que se autorice en la Autorización de Corte, Siembra y Forestación se espera que la vegetación que forme parte de las áreas verdes, constituya un área igual o mejor para la vida silvestre que la existente, con el uso de especies que provean alimento a la misma. Las especies a utilizarse en la siembra de árboles serán

seleccionadas de la lista que provee la Ley Núm. 97 del 24 de junio de 1998 – Ley para Fomentar la Siembra de Árboles cuyas Frutas o Semillas Provean Alimento a Especies de Aves Silvestres de Puerto Rico.

xi. Descripción del área propuesta para mitigación, según la Categoría de Hábitat natural recomendada y las disposiciones de la Ley 241 y sus reglamentos.

Según la discusión que antecede, las acciones propuestas no requieren mitigación. No obstante, mediante la implementación de medidas de mejoramiento paisajista en el proyecto en las áreas verdes, se implementan colateralmente medidas de mitigación. La vegetación a sembrarse será tomando especial consideración a las guías de siembra de especies nativas que sirvan de fuentes de alimento y habitáculo para las especies que se puedan beneficiar de estos.

Fotos:

















AGRO ELVELISSE FIGUEROA HERNANDEZ URB VILLA MATILDE G-1 CALLE 1 TOA ALTA, PR 00953 greenprojectpr@gmail.com

Estimada agrónoma Figueroa Hernández:

Certificación para Categorización de Hábitats Naturales para la Vida Silvestre Ampliación Estacionamiento Público Barranquitas Carr. PR-156, km 16.3 Bo. Pueblo, Barranquitas O-SE-CCH01-SJ-02672-07092023

El Departamento de Recursos Naturales y Ambientales (DRNA) evaluó una Solicitud de Certificación para Categorización de Hábitats Naturales para la Vida Silvestre para el proyecto de epígrafe. La misma fue evaluada de acuerdo con las disposiciones aplicables relacionadas con la fauna, la flora y sus hábitats de la Ley 416 del 2004, según enmendada (Ley Sobre Política Pública Ambiental), la Ley 23 del 1972, según enmendada (Ley Orgánica del Departamento de Recursos Naturales y Ambientales de Puerto Rico), la Ley 150 de 1988, según enmendada (Ley del Programa de Patrimonio Natural de Puerto Rico), la Ley 314 de 1998 (Ley para Declarar la Política Pública sobre Humedales y Designación de Caño Tiburones como Reserva Natural), la Ley 292 del 1999 (Ley para la Protección de la Fisiografía Cársica de Puerto Rico) y su Reglamento 8486 de 2014 (Plan y Reglamento del Área de Planificación Especial del Carso) y la Ley 241 del 1999, según enmendada (Nueva Ley de vida silvestre de Puerto Rico) y sus Reglamentos 6765 de 2004 (Reglamento para regir la conservación y el manejo de la vida silvestre, las especies exóticas y la caza en el Estado Libre Asociado de Puerto Rico) y 6766 del 2004 (Reglamento para regir las especies vulnerables y en peligro de extinción en el Estado Libre Asociado de Puerto Rico), así como de la Orden Administrativa del DRNA 2010-09 y el Puerto Rico State Wildlife Action Plan del DRNA, adoptado en Septiembre, 2015. En cuanto al Inventario de flora y fauna incluido en la solicitud, encontramos que cumplió satisfactoriamente con las disposiciones aplicables del Reglamento 6765, supra, documentando de forma representativa la flora y la fauna del lugar.

El predio del proyecto tiene una cabida de 1,606.1 metros cuadrados. Es un predio comercial urbano desarrollado, ocupado por un estacionamiento terrero pavimentado. Se propone la demolición del estacionamiento existente y la construcción de un edificio de estacionamiento de dos niveles. No hay reportes de especies de flora o fauna Vulnerables o En Peligro de Extinción.



O-SE-CCH01-SJ-02672-07092023 Agro. Elvelisse Figueroa Hemández Página 2 de 2

Como resultado de dicha evaluación, hemos categorizado el predio como Hábitat Natural con Bajo Potencial de Convertirse en Hábitat Esencial, Hábitat de Alto Valor Ecológico o Hábitat de Valor Ecológico (Categoría 6). El Artículo 2.03 del Reglamento 6765, supra, establece lo siguiente para esta categoría:

"La meta de la mitigación es minimizar el impacto al hábitat. El Departamento deberá actuar para alcanzar las metas de la mitigación de hábitat recomendando o exigiendo acciones que minimicen la pérdida directa de hábitat y que evite impacto a otro hábitat fuera del área a impactarse."

Este documento es una calificación de los hábitats naturales sitos en el predio de epígrafe, requerida por los estatutos legales vigentes. **No constituye un permiso para la construcción u operación del proyecto propuesto.**

Esta certificación es solamente aplicable a la situación de hechos según presentados y evaluados en el caso y la Secretaria se reserva el derecho de evaluar, variar o modificar el mismo en cualquier momento anterior a la emisión del permiso o la acción administrativa correspondiente por parte de la agencia solicitante o proponente, de surgir nueva información oficial especifica estableciendo que el derecho aplicable o las condiciones ambientales en el predio han cambiado sustancialmente o cuando la certificación original se emitió bajo premisas falsas o fraudulentas.

Si tiene alguna pregunta o necesita orientación sobre este asunto, puede escribirnos a la dirección indicada o comunicarse al teléfono 787-999-2200 extension 2846.

Cordialmente.

Ivelisse Espinosa Lugo Secretaria Auxiliar Interina

Secretaría Auxiliar de Permisos, Endosos y Servicios Especializados

Attachment 8. Farmland Classification Map

Coord: 18.185505, -66.305029

PR-CRP-000988 Barranquitas - Construction of New Public Parking

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranquitas, PR 00794



Source: U.S. Department of Agriculture (USDA) Web Soil Survey (Spatial Reference: WGS84), URL https://websoilsurvey.nrcs.usda.gov/

Prepared by

		MAP LEGEND		
Area of Interest (AOI) Area of Interest (AOI) Soils Soil Rating Polygons Not prime farmland All areas are prime farmland Prime farmland if drained Prime farmland if protected from flooding or not frequently flooded during the growing season Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season Prime farmland if irrigated and drained Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season	Prime farmland if subsoiled, completely removing the root inhibiting soil layer Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60 Prime farmland if irrigated and reclaimed of excess salts and sodium Farmland of statewide importance Farmland of statewide importance, if drained Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if irrigated	Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if irrigated and drained Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60	Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if warm enough Farmland of statewide importance, if thawed Farmland of local importance Farmland of local importance, if irrigated	Farmland of unique importance Not rated or not available Soil Rating Lines Not prime farmland All areas are prime farmland if drained Prime farmland if protected from flooding or not frequently floode during the growing season Prime farmland if irrigated Prime farmland if drained and either protected from flooding or not frequently floode during the growing season Prime farmland if irrigated and drained Prime farmland if irrigated and either protected from flooding or not frequently floode during the growing season

Farmland Classification—San Juan Area, Puerto Rico

***	Prime farmland if subsoiled, completely removing the root inhibiting soil layer	**	Farmland of statewide importance, if drained and either protected from flooding or not frequently	~	Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium	~	Farmland of unique importance Not rated or not available		Prime farmland if subsoiled, completely removing the root inhibiting soil layer
~	Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60	~	flooded during the growing season Farmland of statewide importance, if irrigated and drained		Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the	Soil Rat	ing Points Not prime farmland All areas are prime farmland		Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
~	Prime farmland if irrigated and reclaimed of excess salts and sodium Farmland of statewide	~	Farmland of statewide importance, if irrigated and either protected from flooding or not frequently	~	growing season Farmland of statewide importance, if warm enough, and either	•	Prime farmland if drained Prime farmland if protected from flooding or		Prime farmland if irrigated and reclaimed of excess salts and sodium
~	importance Farmland of statewide importance, if drained		flooded during the growing season Farmland of statewide		drained or either protected from flooding or not frequently flooded during the growing	_	not frequently flooded during the growing season		Farmland of statewide importance Farmland of statewide
~	Farmland of statewide importance, if protected from flooding or not frequently flooded during		importance, if subsoiled, completely removing the root inhibiting soil layer Farmland of statewide	~	season Farmland of statewide importance, if warm		Prime farmland if irrigated Prime farmland if drained and either protected from flooding or not frequently	•	importance, if drained Farmland of statewide importance, if protected from flooding or not
~	the growing season Farmland of statewide importance, if irrigated		importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed	~	enough Farmland of statewide importance, if thawed Farmland of local	100	flooded during the growing season Prime farmland if irrigated		frequently flooded during the growing season Farmland of statewide
			60	~	importance Farmland of local importance, if irrigated		and drained Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season		importance, if irrigated

Farmland Classification—San Juan Area, Puerto Rico

- Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if irrigated and drained
- Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
- Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60

- Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough
- Farmland of statewide importance, if thawed
- Farmland of local importance
- Farmland of local importance, if irrigated

- Farmland of unique importance
- Not rated or not available

Water Features

Streams and Canals

Transportation

+++

Rails

Inte

Interstate Highways

US Routes
Major Roads

-

Local Roads

Background

Aerial Photography

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: San Juan Area, Puerto Rico Survey Area Data: Version 18, 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.

Attachment 9. ABFE Map

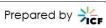
PR-CRP-000988 Barranquitas - Construction of New Public Parking

Coord: 18.185505, -66.305029

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranquitas, PR 00794



Source: Puerto Rico Advisory Base Flood Elevations (ABFEs) (Spatial Reference: NAVD88) at URL https://experience.arcgis.com/experience/2be181b530e74669b33e3edaafef2ebf



Attachment 10

106 NHPA Effect Determination

Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Thursday, June 5, 2025

Lauren B Poche

269 Avenida Ponce de León, San Juan, PR, 00917

SHPO-CF-05-14-25-08 PR-CRP-000988 (Barranquitas), Construcción de Nuevo Estacionamiento Público

Dear Ms. Poche,

Our Office has received and reviewed the above referenced project in accordance with 54 U.S.C. 306108 (commonly known as Section 106 of the National Historic Preservation Act) and 36 CFR Part 800: Protection of Historic Properties.

Our records support your finding of no historic properties affected for this undertaking.

Please note that should you discover other historic properties at any point during project implementation, you should notify the SHPO immediately. If you have any questions regarding our comments, please do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/ MB





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



5/14/2025

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-000988, CONSTRUCCIÓN DE NUEVO ESTACIONAMIENTO PÚBLICO, BARRANQUITAS, PUERTO RICO – NO HISTORIC PROPERTIES AFFECTED

Dear Architect Rubio Cancela,

On February 9, 2018, an allocation of Community Development Block Grant – Disaster Recovery (CDBG-DR) funds was approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting unmet needs in the wake of Hurricanes Irma and Maria. On August 14, 2018, an additional \$8.22 billion recovery allocation was allocated to Puerto Rico under the Federal Register Volume 83, No. 157, 83 FR 40314. With these funding allocations, the Puerto Rico Department of Housing (PRDOH) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents. To faithfully comply with HUD's environmental requirements, PRDOH contracted Horne Federal, LLC (HORNE) to provide environmental records review services that will support their objectives for the CDBG-DR funds.



On behalf of PRDOH, HORNE is submitting documentation for the proposed Construcción de Nuevo Estacionamiento Público, which is adjacent to the Barranquitas Traditional Urban Center. The Municipality of Barranquitas proposes to develop a two-level parking structure on the site of an existing parking lot. The full scope of the project is described in the submitted documentation, which includes mapping, photographs, and the 90% design development plans.

Based on the documentation provided, the Program requests a concurrence with a determination that **no historic properties affected** is appropriate for this undertaking. If you have any questions or concerns, please contact me by email at lauren.poche@horne.com or phone at 225-405-7676.

Kindest regards,

Lauren Bair Poche. M.A.

Architectural Historian, EHP Senior Manager LBP/KPS

Attachments

PR-CRP-000988

CONSTRUCCIÓN DE NUEVO
ESTACIONAMIENTO PÚBLICO PROJECT
BARRANQUITAS, PUERTO RICO

SECTION 106 EFFECT DETERMINATION FORM

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination

Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988

Project Location: PR-156 KM 16.3 (aka Barceló Street), Barrio Pueblo, Barranquitas, Puerto Rico

Project Coordinates: Latitude 18.185487, Longitude -66.305238

TPID (Número de Catastro): 247-092-020-12 -000/ 247-092-020-11-000 / 247-092-020-10-901

Type of Undertaking:

□ Substantial Repair

⊠ New Construction

Construction Date (AH est.): N/A

Property Size (acres): 0.4086

SOI-Qualified Architect/Architectural Historian:	Ms Berenice Sueiro-Vázquez Dr Arleen Pabón-Charneco			
Date Reviewed: February-April 2025				
SOI-Qualified Archaeologist:	Mr David Sherman			
Date Reviewed: February - April 2025				
SOI-Qualified Reviewer(s):	Dr Karen Anderson-Córdova Architect Carmen-Marla López			
Date Reviewed: April 2025				

In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the National Register of Historic Places (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).¹

Project Description (Undertaking)²

The Barranquitas Municipality, assisted by the Puerto Rico Department of Housing (Departamento de la Vivienda de Puerto Rico) (PRDOH) and the Puerto Rico 2017 Disaster Recovery, CDBG-DR Program – City Revitalization Program (Programa de Revitalización del Gobierno Federal) (City Rev) proposes the construction of a public parking facing PR-156, kilometer 16.3 (also known as Barceló Street). (See "Project Architectural Plans (90%), Barranquitas, Puerto Rico dated 22 February 2024.") (See Figures 1 and 2.) At present, there is a parking area on a section of the site which occupies 16,061,199 square meters (172,881,307.2 square feet), equivalent to approximately 0.4086 acres. To increase the parking capacity (the present car park is in an informal lot open to the air), a two-level parking structure will be built. The new structure will be constructed of reinforced concrete and will feature solar panels to provide energy. It will have an access ramp connecting to the above-mentioned highway for cars to access the structure. The land upon which the building will be built is classified as Urban Soil and has a C-I (Intermediate Commercial) designation.

Previous Section 106 NHPA Effect Determination Forms (EDFs), prepared by Dr Heidi J Dilan and Dr Maritza Torres Martínez, were reviewed by the Program on 19 January 2024, 18 September 2024, 5 October 2024, and 20 November 2024. On 7 January 2025, the General Manager (GM) revised the last version of the group of the Section 106 EDFs submitted and returned it to the Subrecipient, finding it: "incomplete" and "non-compliant with Program and Section 106 requirements." (City Revitalization Program ICF, "Barranquitas 000988 – Enmienda al EDF – al de Sept 18 hoy Nov 18, 2024 – Estacionamiento Barranquitas" (MS: San Juan, Puerto Rico, e-mail from Ms Carmen-Marla López to Ms Liliana Silva and Ms Glorian Vélez, 7 January 2025). The present EDF, prepared by Historical Compliance Consulting (HCC) and ICF, is a new document based on new methodology, as well as research and interpretative activities.

The project's description was provided by the designers to the SOI-Qualified Team.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination**



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público Project ID: PR-CRP-000988

Excavation work will be needed for the following components: (i) "geopilotes", (ii) footings, (iii) underground electrical system, (iv) draining pluvial system, and (v) drinking water system. (See Table 1.)

COMPONENT, EXCAVATION AREA, DEPTH, AND VOLUME

COMPONENT	EXCAVATION AREA	DEPTH	VOLUME
"Geopilotes"	782.25 square feet	30 feet	23,467.5 cubic feet
	(72.7 square meters)	(9.14 meters)	(664.478 cubic meters)
Footings	1,429.91 square feet	3.25 feet	4,647.21 cubic feet
	(435.83 square meters)	(0.99 meters)	(431.47 cubic meters)
Underground electrical system	90 square feet	4 feet	360 cubic feet
	(8.36 square meters)	(1.219 meters)	(10.19 cubic meters)
Draining pluvial system	353 square feet	2 feet	706 cubic feet
	(32.81 square meters)	60 meters	(19.99 cubic meters)
Drinking water system	7.92 square feet	1 foot	7.92 cubic feet
	0.736 square meters	0.30 meters	(.224 cubic meters)

The project construction staging area will be located within the project site.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the APE is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is the Estacionamiento Público de Barranquitas with an approximate area of 0.4086 acres). As mentioned, the construction staging area will be within the project area. The proposed undertaking will have no effect on the Barranquitas Traditional Urban Center (TUC). (See Figures 3 and 4.)

The Visual APE extends along the lots on each street surrounding the Estacionamiento Público de Barranquitas. On the north and the west residences and businesses are found; on the east there are commercial establishments; and on the south one finds mainly businesses. Most properties along the north side have visual contact with the project exclusively from their backyards. All these properties are located at a higher level. (See Table 2.) (See Photographs 1 to 21.)

TABLE 2 APROXIMATE DISTANCE FROM PROJECT AREA TO THE BORDER OF THE VISUAL APE

DIRECTION	APPROXIMATE DISTANCE			
North	180 feet			
East	120 feet			
South	35 feet			
West	225 feet			

The proposed undertaking will have **no** effect on the properties forming the Visual APE. (See Figures 1 and 2.) **Historic Context**

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) GOVERNMENT OF PUERTO RICO Section 106 NHPA Effect Determination Subrecipient: Municipio de Barranquitas Project Name: Construcción de Nuevo Estacionamiento Público Project ID: PR-CRP-000988

PRE-CONTACT PERIOD

The earliest and most extensive archaeological investigation within the Barranquitas Municipality was undertaken by Dr Irving Rouse in 1938 when he recorded seven sites with ballcourts.3 Thirteen prehistoric archaeological sites (including the seven recorded by Dr Rouse) are recorded in the Institute of Puerto Rican Culture (IPRC) files for the Municipality. The Puerto Rico State Historic Preservation Office (PRSHPO) files list a total of eight prehistoric archaeological sites in the Municipality, which include six recorded by IPRC, one recorded both by IPRC and Dr Rouse, and one additional site recorded only by the PRSHPO. In sum, fourteen prehistoric sites have been recorded in the Municipality.

These sites represent three complex ceremonial/residential centers with large ball courts (Quebrada Grande/IPRC BR 7; Palo Hincado/SHPO 0100001/IPRC BR 1; and La Toje/IRPC BR2), one ball court with an associated residential component and midden (Quebradillas I/SHPO BS0100002/IPRC BR 11), three prehistoric artifacts scatters that may have been small habitation sites (SHPO BS0100003/IPRC BR12; SHPO BS0100004/IPRC BR 13; and SHPO BS0100007/IPRC BR15), one cave with prehistoric petroglyphs (SHPO BR0100005/ IPRC BR 14), two multi component historic/prehistoric sites (SHPO BS0100006/IPRC BR 9 and BS0100008), and four ballcourts recorded by Dr Rouse (IPRC BR 3, IPRC BR 4, IPRC BR 5, IPRC BR 6).

The locations for the sites recorded in the PRSHPO files are georeferenced while the locations for the sites recorded by the IPRC are less certain. The locations for two of the sites recorded by Dr Rouse (La Toje and Quebrada Grande) are uncertain. However, Dr Rouse did record descriptions of the landforms where they were found.⁴ No locational information is available for IPRC sites BR 3 – BR 6. Of the 10 sites for which landform could be determined, eight were on level areas on ridges, while only one was on a terrace and one was in cave on a foot slope.

Temporally sensitive ceramic artifacts were recorded at nine of the sites recorded in the municipality and include Ostionoid, Chicoid, Elenoid, Santa Elena, Capá, and contact period ceramics. These findings suggest that prehistorically, Barranquitas was most intensively occupied during the period around AD 1000 to 1500. Prehistoric populations in Barranquitas appear to have favored broad level ridges, especially for the larger ceremonial/residential complexes.

HISTORIC PERIOD

In the traditional manner of most towns throughout the Puerto Rican Archipelago, the Municipality of Barranquitas owes its existence to a group of neighbors who banded together and presented a petition to the Spanish Government to secede from an established municipality, in this case Coamo. There was a standard reason given in most of these petitions: the residents could not attend religious services since there was no parish close to their place of residence. The excuse was a good one and worked dozens of times. First, the Spanish Government was responsible for assuring its citizens had access to religious services with relative ease. Second, no town independence could be obtained unless a region had achieved the standing of a parish. By asking for religious services, a parish could be established and then secession. Seldom mentioned were the real reasons, which included the desire to be free from the taxes of a particular municipality, as well as personal vendettas, among others.

Barranquitas was organized in a very mountainous region of Puerto Rico's Cordillera Central close to the Pidona River. A map probably dating to the 1880s evidences it had four "entrances/exits" aligned in the following directions: (i) Aibonito and Coamo; (ii) Barros; (iii) Sabana del Palmar (present day Comerío); and (iv) Cayey. At

Antonio Daubón Vidal, "Stages 1A-1B, Cultural Resources Survey for the Interamerican University (New Building

Facilities) Barranquitas Honruras Ward, Barranquitas, Puerto Rico" (MS: San Juan, Puerto Rico, 1989), IPRC CAT/BR 89-01-04.

Marisol J Meléndez Maíz and Isabel Rivera Collazo, "Verification of the Location and Current Conditions of the Excavated Archaeological Sites by Irving Rouse 1936-1938," Volumes 1 and 2 (MS: San Juan, Puerto Rico, 2002).

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination

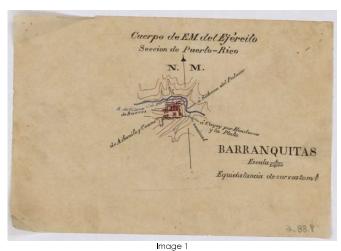


Project Name: Construcción de Nuevo Estacionamiento Público



Project ID: PR-CRP-000988

present, the urban core and the rest of the Municipality are located south of Corozal and Naranjito, north of Coamo and Aibonito, west of Comerío and Cidra, and east of Orocovis. (See Image 1.)



Inriage I Barranquitas, Puerto Rico, c 1880s. Sabana del Palmar was Comerío's original name. NPS 9_88_3_SG_Ar_D_T_4_C_2_4

As was characteristic, at the time of the foundation, the plaza (present day Plaza Bicentenaria Monseñor Miguel A Mendoza) and the church (Iglesia San Antonio de Padua) shared the same Iot. Although there was space surrounding the block, the streets are not yet formally built in historic maps. Forming a super block in the center of town, its shape was rectangular with the longest axis aligned east-west. (See Images 1 and 2.) The east-west arrangement is the result of the mandate that established the most important part of the church (the apse) needed to face the east and the rising sun. This arrangement guaranteed the church façade with the entrance (westwork) faced the plaza. It is known that the town square also served as an atrium on special occasions. The now traditional organization of four streets surrounding the plaza and the church is the result of transformations suffered during the 19th century. The same applies to the street separating the church from the plaza (present day Calle Padre Martínez).



Image 2 Plan of Barranquitas, Puerto Rico, 1880s NPS 9_88_5_SG_Ar_D_T_4_C_2_4

While blocks are distributed in an orthogonal grid, there is no regularity in terms of their morphology. some blocks are square while others are rectangular. Still others have other shapes. At this time (1880s), the northern sector of

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
CITY REVITALIZATION PROGRAM (CITY-REV)
Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público Project ID: PR-CRP-000988

the plaza included two streets running from east to west (present day Antonio R Barceló Street and Florida Street⁵) while the south only had one (present day PR- 162). (See Image 2.)

The name Barranquitas is a diminutive associated with the Spanish word barranco (ravine), a character-defining element of the region, which is in the Sierra de Cayey, part of the Cordillera Central. (See Images 1 and 2.) The name resonates in the area and the Municipality has a sector that is known as Barrio Barrancas. Barranquitas is sited south of Corozal and Naranjito, north of Coamo and Aibonito, west of Comerío and Cidra, and east of Orocovis. (See Image 3.) The setting forms a unique physical context that adds beauty to the town.



Image 3 Barranquitas, Puerto Rico, 1942 https://www.loc.gov/item/2017798871/

In 1800, there were around seventy neighbors residing in the region and approximately thirty lived in "las lomas de Barranquitas." These residents entrusted Antonio Aponte Ramos to present the secession petition to the authorities on 3 April 1803. Formally submitted on 28 May 1804, Bishop Juan Alejo de Arizmendi (1760-1814) agreed to create the Barranquitas parish. Since during the same year Barranquitas got its first mayor, Antonio Berríos, this year can be considered the founding date of the Municipality. The town was established in four cuerdas donated by Sabina Colón, an area which had previously belonged to the Coamo Municipality. The formal declaration of Barranquitas as a municipality was enacted during the governorship of Governor General Ramón de Castro y Gutiérrez (1752-1812).

In the 1880s, Florida Street is depicted longer than it is at present.

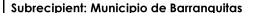
Sonia Padilla Rodríguez, Barranquitas: Notas para su Historia (San Juan, Puerto Rico: Oficina Estatal de Preservación Histórica, 1984), 28. Translation: "in the Barranquitas hills."

A cuerda is a unit of land measurement used in Puerto Rico. It equals approximately 3,930 square meters, 4,700 square yards or 0.971 acres.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM

CITY REVITALIZATION PROGRAM (CITY-REV)

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Project ID: PR-CRP-000988



Barranquitas town plaza (looking north), one of the principal streets, and church, 1910.
William H Armstrong, Progressive Military Map of Puerto Rico⁸

As traditional, the Plaza and the Catholic Church, dedicated to St Anthony of Padua, were designed to be the heart of the urban core. The first temple (1804-1809), made of wood and shingles, was destroyed by Hurricane Santa Ana in 1825. Its substitute, a brick building, was damaged on 13 September 1876 by Hurricane San Felipe. The third iteration had a zinc roof and is credited to Pepe Vázquez and his son Froilán Vázquez. It was destroyed by Hurricane San Felipe II in 1929. (See Image 4.) Although some mention the present building was inaugurated that same year, it can be dated to the first half of the 20th century, probably to the 1920s-1930s decades. Its style reflects the eclectic approach favored at the time by the American Catholic churches throughout the Puerto Rican Archipelago, a mixture of Medievalisms with a touch of the Mediterranean Revival aesthetics. (See Image 5.) During this period, ecclesiastical architecture played a colonizing role. Larger and sumptuous buildings quite different from the traditional Spanish temples throughout the Archipelago, were constructed to import American religious standards.



Iglesia San Antonio de Padua, Barranquitas, Puerto Rico, 1941. https://www.loc.gov/item/2017797057/

Nestled in the mountains, Barranquitas was a world of its own until modern times. In 1859 there were plans for a seis metros y siete decímetros wide road to be built to connect Aibonito and Barranquitas which would allow the

Lanny Thompson and María Dolores Luque (editors), The Cartographic Journey of Lieutenant William H Armstrong Volume 2 (San Juan, Puerto Rico: Centro de Investigaciones Históricas, 2020), 739.

⁹ Arleen Pabón Charneco, La arquitectura patrimonial puertorriqueña y sus estilos (San Juan, Puerto Rico: Oficina Estatal de Conservación Histórica, 2010), 355-390.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipio de Barranquitas	
Project Name: Construcción de Nuevo Estacionamiento Público	Project ID: PR-CRP-000988

second town to connect to the Aibonito-Coamo road.¹⁰ It took decades to achieve this goal, a fact that limited the development of the Municipality.

In 1853, there were 55 wooden houses and 18 bohíos¹¹ throughout the Municipality. Residents were served by three shoe shops (zapaterías) and the same number of carpentry shops (carpinterías), one silversmith (platería), and one tailor (sastrería). By 1878, Manuel Úbeda y Delgado described that the town was formed of the plaza, five streets, and six alleys (callejones). He also noted the principal thoroughfares were Comercio and Real Streets. As per his recount, the following official buildings existed: (i) the church with a metal roof, although the building was constructed of wood; (ii) a cemetery encircled by a masonry wall; (iii) a two stories high town hall (casa del ayuntamiento) built in 1843; and (iv) the wood and shingle parochial house that belonged to the government. Additionally, there was a butcher shop made of wood and barracks for the Guardia Civil.¹² By the first decade of the 20th century, the town was still a relatively humble conglomerate of houses aligned along an orthogonal grid. (See Image 4 and Table 3.)

TABLE 3
BARRANQUITAS RESIDENTS' ETHNICITIES IN 1897

ETHNICITIES	NUMBER LIVING IN BARRANQUITAS
Puerto Ricans	7,761
Spanish Subjects (Peninsulares)	25
Canary Islanders	4
Total	7,790

According to these numbers provided by Cayetano Coll y Toste, ¹³ the total population of the Municipality was 7,790. (See Table 3.) It is interesting to note Spaniards are divided into two groups: those coming from the Peninsula and the ones from the Canary Islands. The Puerto Rican group could be interpreted as a third category within the Spaniards.

At this time, architectural artifacts throughout the Municipality included: 176 houses, 5 warehouses, 2 sugar establishments, 4 coffee establishments, and 115 bohíos. 14 There was one masonry building, one masonry and wood building, 193 wood buildings, and 136 straw and yagüas ones.

The list of businesses was quite extensive and included multiple commercial activities. (See Table 4.)

Spanish Government, Ministerio de Cultura, Portal de Archivos Españoles (PARES), "Se aprueba construcción carretera en jurisdicción de Aibonito," 1863-1865, ES.28079, AHN/16/ULTRAMAR, 357, Expediente 5, Access, https://pares.mcu.es/ParesBusquedas20/catalogo/description/1319168?nm

Sonia Padilla Rodríguez, Barranquitas: Notas para su Historia, 32. The word bohío was used to describe the houses of the less affluent. They were usually similar to the Natives residences.

Manuel Úbeda y Delgado, Isla de Puerto Rico Estudio Histórico, Geográfico y Estadístico de la Misma (San Juan, Puerto Rico: Establecimiento tip del Boletín, 1878), 228.

Cayetano Coll y Toste, Reseña del estado social, económico e industrial de la isla de Puerto Rico al tomar posesión de ella los Estados Unidos (San Juan, Puerto Rico: Imprenta de la "Correspondencia," 1899), 72-77, Access, https://babel.hathitrust.org/cgi/pt?id=umn.31951p00132229c&seq=374.

ldem. Yagüa buildings use the royal palm's (a palm tree species) thick, woody sheathing leaf as construction material.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Project Name: Construcción de Nuevo Estacionamiento Público



Project ID: PR-CRP-000988

TABLE 4
BARRANQUITAS PROFESSIONS IN 1897

TYPE OF VENUE	NUMBER
Meat Stores	2
Pharmacies	1
Bakeries	4
Grocery Stores	4
Mixed Merchandise Stores	4
Inn/Taverns	11

Surprisingly, in the list detailing the educational level of the residents it is mentioned that there were four public schools. It is relevant to underscore the fact that the lack of a formal educational system made possible for private parties to establish "schools" of their own. That could be an explanation for the number of schools mentioned by Coll y Toste, although he clearly points out they were 'public." (See Table 5.)

TABLE 5
EDUCATIONAL LEVEL OF BARRANQUITAS RESIDENTS IN 1899¹⁵

EDUCATIONAL LEVEL	PERCENT OF THE POPULATION
Percent of residents who could read and write	8.39%
Percent of residents who could read	1.12%
Percent of residents who could not read or write	90.49%
Total Population	100%

Despite its relative physical isolation, Barranquitas was home to distinguished writer and politician Don Luis Muñoz Rivera (1859-1910). (See Image 6.) His most relevant contribution to Puerto Rico was probably his son – also a writer and politician – Don Luis Muñoz Marín (1898-1990). Don Luis fils was the first elected governor of the Island, a position he held for four terms. He was founding member of the Partido Popular Democrático, one of the political forces throughout the Archipelago until a short time ago. Buried in Barranquitas next to his father and mother, his name is intimately connected to the Municipality. Clara Lair (Merced Negrón Muñoz) (1890-1973) was a poet and essayist who is considered a great influence on Postmodern and Feminist Movements within the Archipelago. She was also a native of Barranquitas.



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¹⁵ Idem.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
CITY REVITALIZATION PROGRAM (CITY-REV)
Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

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 $\label{localization} \mbox{Image 6} \\ \mbox{Luis Muñoz Rivera House ($ **I** $isted in the NRHP), Barranquitas, Puerto Rico 16}$

Barranquitas is surrounded by mountains and hills that create an extremely picturesque setting. (See Image 7.) On one of the hills outside the PRSHPO'S TUC, although surrounded on three sides by it, is the site where the car parking structure is planned. The site is on the outskirts of the town.



Image 7
General View of Barranquitas setting (looking towards the northwest), 1910.
William H Armstrong, Progressive Military Map of Puerto Rico¹⁷

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 there are no historic properties previously identified in the project area. The archaeological cultural resources survey reports and site survey forms, as well as the administrative project files, of both the PRSHPO and the IPRC were consulted. The PRSHPO and the IPRC files do not document any archaeological cultural resources within a quarter mile of the proposed project. Therefore, no map of the archaeological resources of the project area is included with this EDF form. The closest documented archaeological site is BS0100008, located approximately 0.38 miles southeast of the APE. This site is known as Honduras I and represents a multi-component prehistoric/historic occupation. The prehistoric component was represented by Chicoid and Capá style ceramics while the historic component was represented by materials from the 20th century.

A total of nine cultural resources survey reports (Phase 1A, 1B and Phase II) are documented in the PRSHPO and IPRC files within the 0.25 miles research radius around the APE. (See Figures 5 and 6.) (See Table 6.) These include eight Phase 1A/1B investigations (ICP/CAT BR 86-01-01; ICP/CAT BR 89-01-04; SHPO 06-12-90-05/ICP/CAT BR 91-01-07; ICP/CAT BR 91-01-08; SHPO 12-04-95-01/ ICP/CAT BR 95-02-02; SHPO 03-24-98-01/ ICP/CAT BR 98-02-07; SHPO 03-09-11-03; and ICP/CAT BR 06-04-01 and one Phase 1A investigation (SHPO: 06-20-19-03). Of these investigations,

The banner hanging on the house balustrade reads: "Luis Muñoz Rivera was born here." Access https://www.google.com/search?sca_esv=e86fb0d398013f57&rtz=1C1JZEV_enUS929US929&q=casa+luis+munoz+rivera,+barra nauitas,+puerto+rico&udm=2&fbs=ABzOT CWdhQLP1FcmU5B0fn3xuWpA-

dk4wpBWOGsoR7DG5zJBki0xbyJIUgVJnIXKXyPv8i55c5HrZwki5zR2rxm-wqpSXxOn 3b-

mCAH89Hc7vvpn2jrw6 ZTMnaSP5jrvyMBVPfaLXd7IXHUdpX6xWxy9cJXCwiX3W-

a089fCDLz4q7RFHtDtDQinUQbRChqs9MSOo0kA72RHW65vJuB5-

j00NeX_aNg&sa=X&ved=2ahUKEwjHjfOC8YKMAxV5LtAFHfhKM_wQtKgLegQlFRAB&biw=1280&bih=551&dpr=1.5#vhid=8WAhh1ZNQljHlM&vssid=mosaic.

Lanny Thompson and María Dolores Luque (editors), The Cartographic Journey of Lieutenant William H Armstrong Volume 2, 739.

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only one (SHPO 03-24-98-01/ICP/CAT BR 98-02-07) yielded positive results, represented by pre-Hispanic ceramics identified at site SHPO BS0100004/IPRC BR 13, located approximately 3.2 miles northeast of the APE.

Four of these investigations (ICP/CAT BR 86-01-01; ICP/CAT BR 91-01-08; SHPO 12-04-95-01/ICP/CAT BR 95-02-02; and SHPO 03-24-98-01/ICP/CAT BR 98-02-07) were undertaken pursuant to improvements to the Barranquitas Municipality potable water/wastewater system and represent the most extensive archaeological investigations conducted within the research radius. The remaining five investigations within the research radius represent smaller projects undertaken pursuant to building construction (ICP/CAT BR 89-01-04; SHPO 06-12-90-05/ICP/CAT BR 91-01-07; SHPO 03-09-11-03; ICP/CAT BR 06-04-01) and evaluation of landslide and road damage (SHPO 06-20-19-03).

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TABLE 6 PRSHPO AND IPRC CULTURAL RESOURCES SURVEYS INCLUDING PROPERTIES WITHIN A QUARTER MILE OF THE VISUAL APE

SHPO/IPRC NUMBER	SURVEY DATE	SURVEY NAME	AUTHOR	AREA ¹⁸	RESULTS	DIRECTION AND DISTANCE FROM APE TO SURVEY AREA
IPRC: ICP/CAT BR 86- 01-01	October 1986	"Archaeological Study, Stages 1A-1B, Barranquitas Sewer Treatment Plant, Barranquitas, Puerto Rico"	Miguel Rodríguez	4 acres	Negative	0.15-miles/northwest
IPRC: ICP/CAT BR 89- 01-04	November 1989	"Stages IA-IB Cultural Resources Survey for The Interamerican University (New Building Facilities) Barranquitas Regional College, Honduras Ward, Barranquitas, Puerto Rico"	Antonio Daubón Vidal	1.23 acres	Negative	0.05-miles/southeast
SHPO: 06-12-90- 05 IPRC: ICP/CAT BR 91- 01-07	July 1991	"Cultural Resources Survey Stages IA-IB Project: Casa Barranquitas (Elderly Housing 1003, Inc.), Barranquitas, Puerto Rico"	Iván E Méndez Bonilla	1.34 acres	Negative	0.16-miles/east
IPRC: ICP/CAT BR 91- 01-08	April 1991	"Estudio Recursos Culturales Fases IA-IB Proyecto Planta de Tratamientos de Barranquitas/ Entrada de Acceso y Línea de Presión de 10 Pulgadas, Barranquitas, Puerto Rico (Versión en Español)	Antonio Daubón Vidal	2.3 acres	Negative	0.10-miles/east
SHPO: 12-04-95- 01 IPRC: ICP/CAT BR 95- 02-02	December 1995	"Investigación Arqueólogica Fase Ia-Ib Proyecto De Eliminación Estación de Bombas, La Vega y El Parque, Barranquitas, Puerto Rico"	Marisol Rodríguez Miranda	2.5 km long	Negative	0.05-miles/north
SHPO: 03-24-98- 01 IPRC: ICP/CAT BR 98- 02-07	March 1998	"Evaluación Arqueológica Fase IA-IB Proyecto Mejoras al Sistema de Acueductos para los Barrios Quebrada Grande, Quebradillas y Honduras, Barranquitas, Puerto Rico"	Jaqueline López Meléndez	No data	Positive (archaeolo gical deposit identified 2.9- miles/north west of APE)	0.09-miles/northeast

Measurements have been converted to the Imperial System by the SOI qualified professionals.



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SHPO: 03-09-11-	July	"Instalación de Techo en	Fernando	0.25-	Negative	0.23-miles/northwest
03	2012	Acero Estructural y	Alvarado	acres		
		Reparaciones Menores a	Muñoz	(approx.		
		Facilidades Existentes en		from		
		Cancha de Baloncesto, Calle		sketch in		
		Melitón Pereles, Barrio Pueblo,		report)		
		Barranquitas, Puerto Rico,				
		Estudio de Identificación de				
		Recursos Culturales Fase I''				
IPRC:	April	"Evaluación Arqueológica	Osvaldo Torres	1.82-	Negative	0.19-miles/west,
ICP/CAT BR 06-	2006	Fase IA-IB especial Melitón		acres		northwest
04-01		Pereles del Municipio de				
		Barranquitas, Puerto Rico''				
SHPO: 06-20-19-	November	"Cultural Resources Evaluation	Rosa A	2.4-acres	Negative	0.23-miles/southeast
03	2019	Landslide and Road Damage	Martínez			
		Evaluation and Repair	Montero			
		Recommendation/ Project ID				
		RPE1399544, ER-9999(322) Sites				
		ER-HWY 408 and ER-HWY 409				
		Barranquitas, Puerto Rico				
		(Group C) AC-813544)''				

PHYSIOGRAPHIC REGION AND SOILS

Barranquitas is in the Puerto Rico central mountains region and is defined by deeply incised uplands with steep side slopes drained by the Barranquitas, Caliente, Grande de Manatí, and Canabón rivers and their many tributaries.

The direct APE occupies a foot slope above the Barranquitas River located approximately .04 miles to the north. The elevation within the APE ranges from approximately 580 meters (m) above mean sea level (amsl) in the southeast corner of the direct APE to approximately 589 m amsl (1932.41 feet) at its northwestern corner.

The surface geology within the APE is defined by the Cenomanian-lower Albian-aged Robles Formation, which is composed largely of volcaniclastic sandstone and siltstone with lava and some limestone, conglomerate, and breccia. Two soil map units have been identified¹⁹ within the APE and include: Maricao clay, 20 to 60 percent slopes (MoF) and Urban land-Vega Alta complex, 2 to 12 percent slopes (Uv). Areas mapped as MoF are 80 percent Maricao, 10 percent Cuchillas, and 10 percent Agueybaná. These soil series are well drained, clay dominated, and form on ridges, the shoulders and summits of ridges, the shoulders and summits of mountains, and backslopes. (See Figure 7.)

Almost the entirety of the direct APE is mapped as Uv. Areas mapped as Uv are 60 percent Urban land, 30 percent Vega Alta, 5 percent Almirante, and 5 percent Humatas series soils. No data is available for Urban land. The Vega Alta series is clay dominated and forms on uplands and terraces. The Almirante series forms in valleys in clayey sediments of mixed origin. The Humatas series forms on side slopes and ridges of strongly dissected uplands.

The absence of mapped alluvial soils within the APE, along with its slope suggests it did not aggrade significantly since human populations first began to occupy Puerto Rico. For these reasons, the APE is unlikely to harbor deeply buried archaeological deposits with research potential.

Soil Survey Geographical Database, Natural Resources Conservation Service, United States Department of Agriculture. "Geographic Database for Barranquitas, Puerto Rico" (MS: San Juan, Puerto Rico), Accessed April 2025.

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DETERMINATION ELIGIBILITY OF ARCHAEOLOGICAL PROPERTIES WITHIN THE PROJECT'S APE

The archaeological potential of the APE is thought to be negligible for buried prehistoric and historic deposits that possess research potential. No cultural resources were identified within the 0.25-miles research radius around the APE by any of the nine previous archaeological investigations conducted within the research radius. Only one of these (SHPO 03-24-98-01/ ICP/CAT BR 98-02-07) was culturally positive. This investigation identified an archaeological site well beyond the limits of the research radius.

The direct effects APE has been impacted by previous construction that included the construction and demolition of five buildings discernible on aerial imagery from 1956 as well as the construction of the now extant parking lot. (See Figure 8.) These processes presumably impacted any potential shallowly buried cultural deposits within the APE.

As noted above, the APE is underlain by an ancient geologic unit deposited long before the arrival of human populations to Puerto Rico. Furthermore, the soils present on site did not form in alluvial deposits and are unlikely to have aggraded significantly since that arrival. The slope within the APE, which is approximately 20% north to south, further suggests it is on a non-aggrading landform.

Although the paucity of previous archaeological investigation within the municipality limits settlement pattern analysis to general statements, some patterns appear robust. The overwhelming majority of the prehistoric sites identified in Barranquitas were recorded on ridges above deeply incised waterways. This pattern holds for all of the sites thought to represent ceremonial and/or residential occupations. The APE occupies a foot slope, a landform type that does not appear to have been favored by the prehistoric populations in the municipality.

For the above reasons, it is our conclusion that there are no archaeological properties eligible for inclusion in the NRHP within the project's APE.

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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 this undertaking. The review of 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 adjacent to the Barranquitas TUC / Historic District, eligible for inclusion in the NRHP as a historic district. (See Figures 3 and 4.)

NATIONAL REGISTER OF HISTORIC PLACES LISTED BARRANQUITAS PROPERTIES

The Barranquitas Municipality has three properties included in the NRHP. Two of these are buildings and the third one is an archaeological site. (See Table 7.)

TABLE 7
BARRANQUITAS PROPERTIES LISTED IN THE NATIONAL REGISTER OF HISTORIC PLACES

NAME AND ADDRESS	INCLUSION DATE	NRHP ID NUMBER	CATEGORY	CRITERION
Casa Natal de Luis Muñoz Rivera Muñoz Rivera and Manuel Torres Streets	4 September 1984	84003139	Building (House)	N/A ²⁰
Batey Palo Hincado Neighboring Barranquitas Town	2 September 1999	99001021	Site (Archaeological)	D
El Cortijo PR-162 Km 18.5	11 September 2018	100002934	Building (House)	С

The only property within the quarter-mile area and the TUC is the Casa Natal de Luis Muñoz Rivera. According to professional sources and the PRSHPO catalog information, the Palo Hincado Batey has been adversely and irreversibly impacted. *El Cortijo*, in turn, is outside the TUC and the quarter-mile area.

None of the NRHP listed Barranquitas properties, even if sited within the TUC as is the case of the Casa Natal Luis Muñoz Rivera, will be affected by the proposed project. (See Figure 9.)

PUERTO RICO PLANNING BOARD

The Puerto Rico Planning Board (PRPB) has a list of properties considered and declared "historic" by means of the organism's resolutions. In most cases, the list is comparable to the NRHP one.²¹ (See Table 8.)

²⁰

This nomination, dated to 1984, includes no categorization regarding significance criteria.

Junta de Planificación, Gobierno de Puerto Rico, San Juan, Puerto Rico, "Registro Oficial de Sitios y Zonas Históricas designados por la Junta de Planificación de Puerto Rico Revisado 7 de diciembre de 2022" (MS: San Juan, Puerto Rico, 2022), Access: https://jp.pr.gov/wp-content/uploads/2022/12/REGISTRO-OFICIAL-DE-SITIOS-Y-ZONAS-HISTORICAS-DESIGNADAS-Rev.-DIC-2022.pdf.

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TABLE 8 BARRANQUITAS HISTORIC PROPERTIES (AS PER THE PUERTO RICO PLANNING BOARD)

NAME	CONSTRUCTION DATE	RESOLUTION NUMBER	DATE OF DESIGNATION	DATE OF NOTIFICATION
Casa Natal Luis Muñoz Rivera	2 nd half 19 th century	2000-(RC)-22-JP-SH	15 March 2001	3 April 2001
El Cortijo	1st 20th century	2003-41-01-JP-SH	21 October 2003	2 December 2003

The PRPB list does not include any archaeological sites. As mentioned, the *El Cortijo* is outside the TUC and the quarter-mile area.

None of the properties listed by the PRPB will be affected. The Casa Natal Luis Muñoz Rivera will **not** be affected by the project.

NATIONAL REGISTER OF HISTORIC PLACES ELIGIBLE PROPERTIES

To interpret the architectural properties eligible for inclusion in the NRHP, archival research activities were undertaken. Additionally, visits to Barranquitas were carried out to study the site where the car park structure will be constructed. The visit included photographic documentation of all the properties forming the Visual APE. The following studies were also interpreted and reviewed.

1. Puerto Rico State Historic Preservation Office, San Juan, Puerto Rico, "Proyecto de reconocimiento de inventario de centros urbanos de los 78 municipios de Puerto Rico" (MS: San Juan, Puerto Rico, 2020-In Progress).

In this inventory, eight Barranquitas architectural properties appear as eligible for inclusion in the NRHP. (See Table 9.)

TABLE 9
BARRANQUITAS NRHP ELIGIBLE PROPERTIES
(AS PER THE PRSHPO 2020 IN-PROGRESS INVENTORY)

NAME	APPROXIMATE DATE	CATEGORY	NRHP CRITERIA
Alcaldía	1st half 20th century	Building (Town Hall)	A and C
Panteón Familia Berríos Berdecía*	1st half 20th century	Building (Pantheon)	С
Mausoleo de Muñoz Rivera	1st half 20th century	Buiding (Pantheon)	B and C
Cementerio Municipal La Vega*	1st half 19th century	Site (Cemetery)	С
Escuela Cástulo Rodríguez Torres ²²	1st half 20th century	Building (School)	С
Escuela Eduardo Georgetti	1st half 20th century	Building (School)	С
Parroquia [sic] San Antonio de Padua ²³	c 1933	Building (Church)	A and C
Plaza (Luis Muñoz Rivera)	c 1880	Site (Plaza)	A and C
Museo Joaquín de Rojas	c 1925-1930	Building (House)	С
Residencial Villa Universitaria	c1963	District	С

All properties inventoried as significant by the PRSHPO, except the Cementerio Municipal La Vega and the Mausoleo de Muñoz Rivera, are within the quarter mile area. The Residencial Villa Universitaria is part of

At present, the name of the school is Escuela Petroamérica Pagán.

The Church of San Antonio de Padua in Barranquitas was designed by architect Eduardo Porrata Doria (1890-1971).

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Barranquitas TUC even if physically separated from the older section of the urban core. Properties marked with an asterisk (*) in Table 9 are outside the quarter mile area of the project.

None of the properties listed in Table 9 will be impacted by the proposed project.

INSTITUTE OF PUERTO RICAN CULTURE

1. Institute of Puerto Rican Culture, Patrimonio Edificado, San Juan, Puerto Rico, "Inventario de Monumentos de Puerto Rico" (MS: San Juan, Puerto Rico, 1960s).²⁴

The inventory includes two properties: the Town Plaza and the Luis Muñoz Rivera House.²⁵ As mentioned, **neither** of these two properties will be impacted by the proposed project.

2. Institute of Puerto Rican Culture, Patrimonio Edificado, San Juan, Puerto Rico, "Inventario General de Sitios y Objetos de Interés Arqueológico, Histórico y Artístico" (MS: San Juan, Puerto Rico, 1977).

Listing properties and objects of archaeological, historic and artistic "interest," the inventory includes the following three Barranquitas Pre-contact properties:

- (i) Cave in the Maná Sector, Barrio Barrancas, Barranquitas;
- (ii) Palo Hincado on PR-156, Barranquitas where a Native settlement which included a batey once existed:
- (iii) Hoyo Hondo, Barrio Helecho, Barranquitas where a cemí and other artifacts were found.

None of the above-mentioned properties will be impacted by the proposed project.

HISTORIC AMERICAN BUILDING SURVEY (HAER) INVENTORY

- 1. HAER, "Puentes de Barranquitas" (MS: Río Piedras, Puerto Rico, 1977), Pablo López and William Rodríguez. Three bridges are included in this inventory.
 - (i) Puente Usabón (Bridge Number 358), PR-162 Kilometer 5.6, a steel truss bridge constructed in 1908;
 - (ii) Puente Barranquitas (Number 338), PR-156 Kilometer 16.6, I-beam bridge dating to 1908;
 - (iii) Puente Capitán Whellar, Capitán Whellar Street, a brick structure built by American occupation forces in 1898. The inventory form establishes it is: "[T]he only US Army built bridge built by occupation forces still standing."

None of the bridges listed in the HAER inventory will be impacted by the proposed project.

DETERMINATION OF ELIGIBILITY OF THE ESTACIONAMIENTO PÚBLICO DE BARRANQUITAS AND ITS VISUAL APE

According to the National Park Service (NPS), eligibility to the NRHP is determined by several characteristics: "The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association . . ." To be eligible, a property must also be associated to an important historic context by meeting at least one of four criteria:

A. That are associated with events that have made a significant contribution to the broad patterns of our history; or B. That are associated with the lives of persons significant in our past; or

This is an approximate date since the inventory sheets do not include the date when they were prepared. Since the IPRC was founded during the mid-1950s, this is probably one of the first inventories made by the institution. The cars in the photos seem to belong to this period. Since it has not been updated, the information in it is almost eighty years old.

Evidence of its historic (more than half a century old) and now abandoned inventory methodology is the description of the second property's architectural style as: criollo residencial pueblerino (Creole residential provincial [sic]).

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C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. That have yielded, or may be likely to yield, information important in prehistory or history.²⁶

Additionally, although there may be exceptions to this rule, a property must be at least 50 years old to merit inclusion in the NRHP.

The Estacionamiento Público de Barranquitas

A careful analysis of the Estacionamiento Público de Barranquitas evidences neither the sector nor the open parking at present is a NRHP eligible property. While the low hill has existed for eons and was one of the exits / entrances to the town there are numerous constructions, some of them date to approximately the 1920s. At present, the site is part of the urban setting, albeit outside the present day Barranquitas TUC.

Historical aerial photos and visual documentation suggest the site now used as an open-air car parking has maintained a defined spatial presence despite the open nature of the area – formed of several lots owned by the Municipality – since it frames one of the exits / entrances of the town. However, the development of the area and the large number of constructed buildings confirm the fact it is not eligible for inclusion in the NRHP. Neither is the open area (or site) used for parking at the present time. (See Figures 8 and 10.)

The Visual APE

The Visual APE includes twenty properties surrounding the Estacionamiento Público de Barranquitas. Image 7 depicts the site and the surrounding streets, the Visual APE properties (lots in gray and numbered with red circles), and the Visual APE line of demarcation (green). Five properties are located within the Barranquitas TUC. Twelve out of twenty properties surrounding the Estacionamiento Público de Barranquitas date to the second half of the 20th century. None are individually eligible for inclusion in the NRHP. However, there are four residential properties that are individually eligible for inclusion in the NRHP. (See Photographs 1–20 in Table 11.)



Image 7
Project Area and Direct APE (blue) and Visual APE Properties (red dots with white numbers).
(The green line represents the limit of the Visual APE.
The staging area is within the Direct APE.)

National Park Service, "National Register Bulletin How to Apply the National Register Criteria for Evaluation," pp 2; 12-24, Access: https://www.nps.gov/subjects/nationalregister/upload/NRB-15_web508.pdf.

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A summarized interpretation of the twenty properties which form the Visual APE of the project is presented in Table 10.

TABLE 10 SUMMARY OF THE PROPERTIES WITHIN THE APE

ТҮРЕ	NUMBER
Eligible Properties	4
Not Eligible Properties	15
N/A	1
Contributing Properties	3^{27}
Not Contributing Properties	3

As shown in Table 10, 19 out of 20 properties form the Visual APE of the project. Of these, only 5% are eligible for inclusion in the NRHP. Thirteen of 15 properties outside the Barranquitas TUC are considered not eligible for inclusion in the NRHP.

Table 11 includes all properties forming the Visual APE. The significance, category and NRHP eligibility criteria of each one are interpreted as per this organism's guidelines. The Centro de Recaudación de Ingresos Municipales (CRIM Cadaster)²⁸ identification numbers and addresses are also included, as well as construction dates.

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Fifteen properties are outside the TUC. The Program recommends the property located at 54 Barceló Street (247-092-39-17 PN), (building: house) be included as contributing to the TUC.

The Centro de Recaudación de Ingresos Municipales' (CRIM) numbering and data are infamous for its errors and inconsistencies. Numbers of blocks and, at times, parcelas (lots) are not in any special order and different lots within a block may share the same cadaster number. HCC scrutinized inconsistencies in varied ways, including contrasting what was found in the field with aerial photographs. Despite its many shortcomings, CRIM numbers are used to identify properties because they are the Government of Puerto Rico's official identification for the island's real estate property.

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TABLE 11 VISUAL APE

ID NUMBER	1
CADASTER NUMBER	247-092-020-10-901 ²⁹
DATE	2 nd half 20 th century
ADDRESS	Barceló Street (PR-156)
NRHP STATUS	
Listed	
Eligible	
Not Eligible	X
Contributing	
Not Contributing	
CATEGORY	Building (Cafeteria)
CRITERIA	N/A
ID NUMBER	2



ID NUMBER	2
CADASTER NUMBER	247-092-020-08 PN / 247-092-020- 09 PN ³⁰
DATE	2 nd half 20 th century
ADDRESS	Barceló Street (PR-156)
NRHP STATUS	
Listed	
Eligible	
Not Eligible	X
Contributing	
Not Contributing	
CATEGORY	Building (Store)
CRITERIA	N/A



ID NUMBER	3
CADASTER NUMBER	273-002-043-05-000
DATE	2 nd half 20 th century
ADDRESS	Barceló Street (PR-156)
NRHP STATUS	
Listed	
Eligible	
Not Eligible	X
Contributing	
Not Contributing	
CATEGORY	Building (Business)
CRITERIA	N/A



A section of the lot is being used as parking at present shares this cadaster number.

The letters "PN" after a cadaster number refers to the Plot Number (*Número de parcela*) provided by the Centro de Recaudación de Ingresos Municipales (CRIM).

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ID NUMBER	4
CADASTER NUMBER	273-002-056-03-000
DATE	2 nd half 20 th century
ADDRESS	Villa Universitaria Street (PR-719)
NRHP STATUS	
Listed	
Eligible	
Not Eligible	X
Contributing	
Not Contributing	
CATEGORY	Building (House)
CRITERIA	N/A
_	



ID NUMBER	5
CADASTER NUMBER	273-002-043-04-000
DATE	2 nd half 20 th century
ADDRESS	Barceló Street (PR-156)
NRHP STATUS	
Listed	
Eligible	
Not Eligible	X
Contributing	
Not Contributing	
CATEGORY	Building (Business)
CRITERIA	N/A



ID NUMBER	631
0.45.40755.444.4555	070 000 054 04 504
CADASTER NUMBER	273-002-056-04 PN
DATE	N/A
ADDRESS	Barceló Street (PR-156)
NRHP STATUS	N/A
Listed	
Eligible	
Not Eligible	
Contributing	
Not Contributing	
CATEGORY	
CRITERIA	N/A
	•



This is the back side of a property, the only section included in the Visual APE. Entrance to the property is along PR-719.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

ID NUMBER	7
CADASTER NUMBER	273-002-039-14 PN/ 273-001-039- 13 PN / 273-001-039-14 PN / 247- 092-039-15 PN
DATE	2 nd half 20 th century
ADDRESS	Barceló Street (PR-156)
NRHP STATUS	
Listed	
Eligible	
Not Eligible	X
Contributing	
Not Contributing	
CATEGORY	Building (Gas Station)
CRITERIA	N/A



ID NUMBER	8
CADASTER NUMBER	247-091-042-20-000
DATE	1st half 20th century
ADDRESS	Barceló Street (PR-156)
NRHP STATUS	
Listed	
Eligible	X
Not Eligible	
Contributing	
Not Contributing	
CATEGORY	Building (House)
CRITERIA	С



ID NUMBER	9
CADASTER NUMBER	273-002-039-14 PN
DATE	1st half 21st century
ADDRESS	Barceló Street (PR-156)
NRHP STATUS	
Listed	
Eligible	
Not Eligible	X
Contributing	
Not Contributing	
CATEGORY	Structure (Shed)
CRITERIA	N/A



CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

ID NUMBER	10	
CADASTER NUMBER	247-092-039-30-000	
DATE	2 nd half 20 th century	
ADDRESS	Barceló Street (PR-156)	
NRHP STATUS		
Listed		
Eligible		
Not Eligible	X	
Contributing		
Not Contributing		
CATEGORY	Building (Business)	
CRITERIA	N/A	
ID NUMBER	11	
CADASTER NUMBER	247-092-039-16-001	
DATE	2 nd half 20 th century	
ADDRESS	Barceló Street (PR-156)	
NRHP STATUS		
Listed		
Eligible		
Not Eligible	X	
Contributing		
Not Contributing		
CATEGORY	Building (Business)	
CRITERIA	N/A	
ID NUMBER	12	
CADASTER NUMBER	247-092-039-28-00032	
DATE	2 nd half 20 th century	
ADDRESS	Barceló Street (PR-156)	
NRHP STATUS		
Listed		
Eligible		
Not Eligible	X	
Contributing		
Not Contributing		
CATEGORY	Building (House)	2
CRITERIA	N/A	

Only the backyard of this property is part of the Visual APE.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Project Name: Construcción de Nuevo Estacionamiento Público



ID NUMBER	13
CADASTER NUMBER	247-092-039-17 PN ³³
DATE	1st half 20th century
ADDRESS	54 Barceló Street (PR-156)
NRHP STATUS	
Listed	
Eligible	X
Not Eligible	
Contributing	X34
Not Contributing	
CATEGORY	Building (House)
CRITERIA	С



ID NUMBER	14
CADASTER NUMBER	247-092-039-18-001
DATE	N/A
ADDRESS	Barceló Street (PR-156)
NRHP STATUS	
Listed	
Eligible	
Not Eligible	X
Contributing	
Not Contributing	
CATEGORY	Site (Parking)
CRITERIA	N/A
	·



ID NUMBER	15
CADASTER NUMBER	247-092-039-19-001
DATE	2 nd half 20 th century
ADDRESS	Barceló Street (PR-156)
NRHP STATUS	
Listed	
Eligible	
Not Eligible	X
Contributing	
Not Contributing	X
CATEGORY	Building (Business)
CRITERIA	N/A

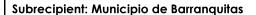


Only the backyard of this property is part of the Visual APE.

Even though this property is outside the PRSHPO TUC, the Program respectfully suggests it be included as contributing.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Project Name: Construcción de Nuevo Estacionamiento Público



Project ID: PR-CRP-000988

ID NUMBER	16
CADASTER NUMBER	247-092-039-24-00135
DATE	Mid 20 th century
ADDRESS	Padre Dávila Street
NRHP STATUS	
Listed	
Eligible	
Not Eligible	X
Contributing	
Not Contributing	X
CATEGORY	Building (House)
CRITERIA	N/A



ID NUMBER	17
CADASTER NUMBER	247-092-039-29-00136
DATE	1st half 20th century
ADDRESS	Padre Dávila Street
NRHP STATUS	
Listed	
Eligible	X
Not Eligible	
Contributing	X
Not Contributing	
CATEGORY	Building (House)
CRITERIA	С



ID NUMBER	18
CADASTER NUMBER	247-092-039-27-00137
DATE	1st half 20th century
ADDRESS	6 Padre Dávila Street
NRHP STATUS	
Listed	
Eligible	X
Not Eligible	
Contributing	X
Not Contributing	
CATEGORY	Building (House)
CRITERIA	С



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Only the backyard of this property is part of the Visual APE.

Only the backyard of this property is part of the Visual APE.

Only the backyard of this property is part of the Visual APE.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Project Name: Construcción de Nuevo Estacionamiento Público



Project ID: PR-CRP-000988

ID NUMBER	19
CADACTED AUIA (DED	0.47.000.000.00.00129
CADASTER NUMBER	247-092-039-20-00138
DATE	2 nd half 20 th century
ADDRESS	Padre Dávila Street
NRHP STATUS	
Listed	
Eligible	
Not Eligible	X
Contributing	
Not Contributing	X
CATEGORY	Building (House)
CRITERIA	N/A



ID NUMBER	20
CADASTER NUMBER	247-092-039-21-001 ³⁹
DATE	2 nd half 20 th century
ADDRESS	Padre Dávila Street
NRHP STATUS	
Listed	
Eligible	
Not Eligible	X
Contributing	
Not Contributing	X
CATEGORY	Building (House)
CRITERIA	N/A



25

Only the backyard of this property is part of the Visual APE. Only the backyard of this property is part of the Visual APE.

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PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSENCE
Subrecipient: Municipio de Barranquitas	
Project Name: Construcción de Nuevo Estacionamiento Público	Project ID: PR-CRP-000988

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Determination

The following historic properties have been identified within the APE:

• Direct Effect

Archaeology

The APE is thought to possess negligible archaeological potential. The APE is on a non-aggrading landform and unlikely to harbor deeply buried archaeological deposits. The APE has been impacted by previous construction and demolition and is therefore unlikely to harbor any surface or shallowly buried archaeological deposits. Additionally, the APE occupies a low slope element, a landform type that does not appear to have been favored by prehistoric populations. For these reasons, it is the Program's conclusion that the project as proposed will have no effect on historic archaeological properties.

Architecture

A small, picturesque mountain town like Barranquitas presents a unique challenge regarding the preservation of its character-defining features which need to include its landscape. Three issues intersected regarding this project. In the first place, while the project is outside the Barranquitas TUC, it is adjacent and surrounded by it on three sides. The second consideration has to do with the project's typology and morphology, which are at odds with any historic center. Thirdly, the project is to be constructed on the lowest part of a hill which frames one of the entrances/exits of the town. At present, there is an informal open parking area on the part of the hill where the parking structure will be constructed but it still retains some verdant sectors.

The Program has carefully studied the adjacency of the proposed parking to Barranquitas' TUC borders, analyzing the site as per the "Principles and Objectives" section of the ICOMOS "Charter for the Conservation of Historic Towns and Uban Areas" (also known as the Washington Charter, 1987), given the fact the USA is a signatory member. In the above-mentioned section, the following historic towns and urban areas character-defining components to be preserved are listed:

- Urban patterns as defined by lots and streets;
- Relationships between buildings and green and open spaces;
- The formal appearance, interior and exterior, of buildings as defined by scale, size, style, construction, materials, color and decoration;
- The relationship between the town or urban area and its surrounding setting, both natural and manmade; and
- The various functions that the town or urban area has acquired over time. 40

The Charter clearly establishes that "[a]ny threat to these qualities would compromise the authenticity of the historic town or urban area."

While it would be an adverse effect to construct a parking structure within the TUC of any Puerto Rican town, the project is proposed for a lot that is outside although adjacent. It is a given urban cores in general need to adapt to modern transformations by – at times – including new architectural typologies. These insertions, however, need to be compatible with the character of, in this case, the urban area founded during the 19th century. A parking structure will never be compatible to the character of Puerto Rican traditional urban cores.

While the proposed project will create a "super block" structure next to a traditional layout of one family residential lots, at present, part of the lot is used for the same function. Complicating the issue is the fact that a parking structure – by definition – is a long one characterized by a dramatic scale (when compared to the nearby

40 ICOMOS, "Charter for the Conservation of Historic Towns and Uban Areas" (MS: Washington DC, 1987).

Use of the term "superblock" here refers to Modernism's approach of creating larger than traditional urban blocks, needed for some of the new architectural typologies (i e skyscraper) invented at the time.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipio de Barranquitas	
Project Name: Construcción de Nuevo Estacionamiento Público	Project ID: PR-CRP-000988

buildings). However, the buildings facing Barceló Street adjacent to where the structure will be constructed have lots, covered with greenery, which may help camouflage the parking. The project would **not** be visible from the historic core section of the Barranauitas TUC.

The dilemma presented by this project would have been solved if a clearer mandate and/or regulations existed regarding the administration of TUCs. For example, in most historic cores around the world, TUCs are surrounded by a transitional area that may not allow for structures such as a parking. However, since there is no transitional area and the parking is clearly outside the TUC the Program considers no historic properties will be affected.

Based on the results of our historic property identification efforts, the Program has determined that at present project actions will not affect the historic properties that compose the Direct APE.

Indirect Effect

As previously stated, there are four properties eligible for inclusion in the NRHP within the Visual APE. All are residences that date to the first half of the 20^{th} century. Their addresses are:

- Barceló Street (247-091-042-20-000),
- 54 Barceló Street (247-092-39-17 PN),
- Padre Dávila Street (247-092-039-29-001, and
- 6 Padre Dávila Street (247-092-039-027-001).

The project will not cause any changes to the boundaries, setting, location, materials, workmanship, feeling, design, or association of the four eligible historic properties. Additionally, the viewshed will not be altered in any way. Furthermore, the project will not introduce any audible or atmospheric elements to these historic properties. (See Figures 1 and 2; and Photographs 1 to 21.)

The Program has determined that the proposed project actions will not affect the historic properties within the Visual Area of Potential Effects (APE). However, due to the proximity of the house located at 54 Barceló Street (247-092-39-17 PN), which sits on a lot immediately adjacent to the north side of the undertaking, it is recommended that the property be thoroughly documented through photographs prior to the start of construction. Additionally, to safeguard the property during construction activities, the installation of fencing or clear signage is advised to deter trespassing and vandalism. It is also recommended that the project incorporate an area with mature trees to serve as a natural buffer or visual screen between the proposed parking area and neighboring properties, helping to minimize visual impacts and enhance compatibility with the surrounding context.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipio de Barranquitas	
Project Name: Construcción de Nuevo Estacionamiento Público	Project ID: PR-CRP-000988

Recommendation (Please keep on same page as SHPO Staff Section)

The Puerto Rico Department of Housing requests that the Puerto Rico SHPO concur that the following determination is appropriate for the undertaking (Choose One):

☑ No Historic Properties Affected

Recommendations: While the municipality does not own the adjacent properties, to the extent feasible, we recommend the following: The property at 54 Barceló Street (247-092-39-17 PN) should be thoroughly photographed before construction begins. To prevent trespassing or vandalism, fencing or clear signage is recommended. Additionally, preserving an area with mature trees as a natural buffer between the proposed parking area and neighboring properties is advised to reduce visual impact and improve compatibility with the surrounding environment.

	trees as a natural buffer between the proposed parking area and neighboring properties is advise to reduce visual impact and improve compatibility with the surrounding environment.
□ No A	dverse Effect Condition (if applicable)
□ Adve	erse Effect Proposed Resolution (if appliable)

This Section is to be Completed by SHPO Staff Only

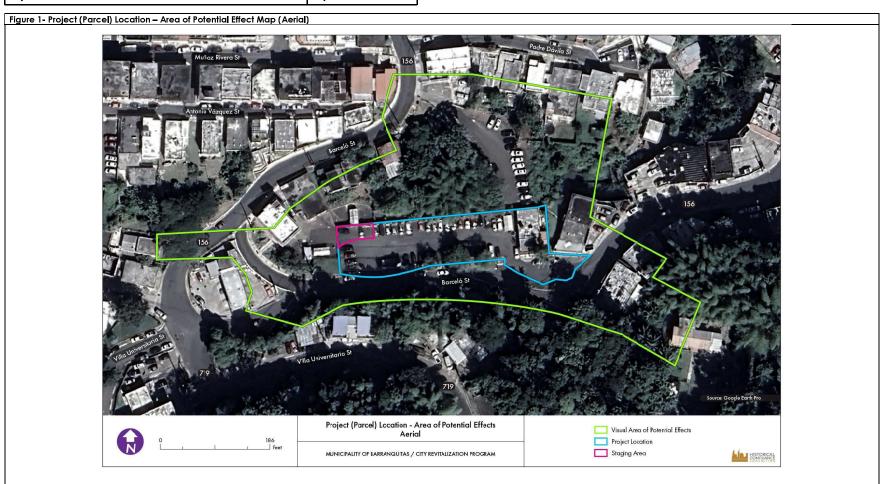
□ Does not concur with the information provided.				
Comments:				

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
CITY REVITALIZATION PROGRAM (CITY-REV)
Section 106 NHPA Effect Determination

GOVERNMENT OF PUERTO RICO OCENIONES TO PROJUMO

Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público



PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	GOVIENMENT OF PUERTO RICO OCCURRENCE OF HOLICAGE		
Subrecipient: Municipio de Barranquitas			
Project Name: Construcción de Nuevo Estacionamiento Público	Project ID: PR-CRP-000988		

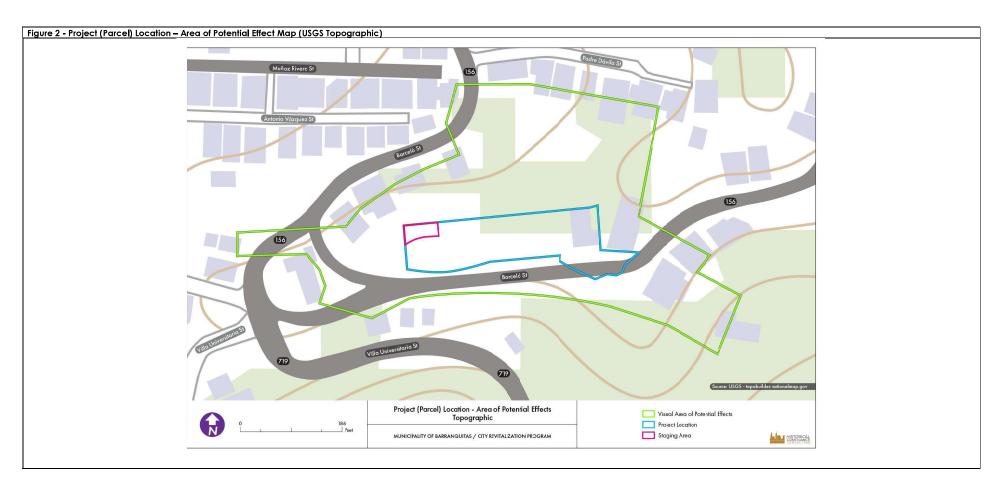
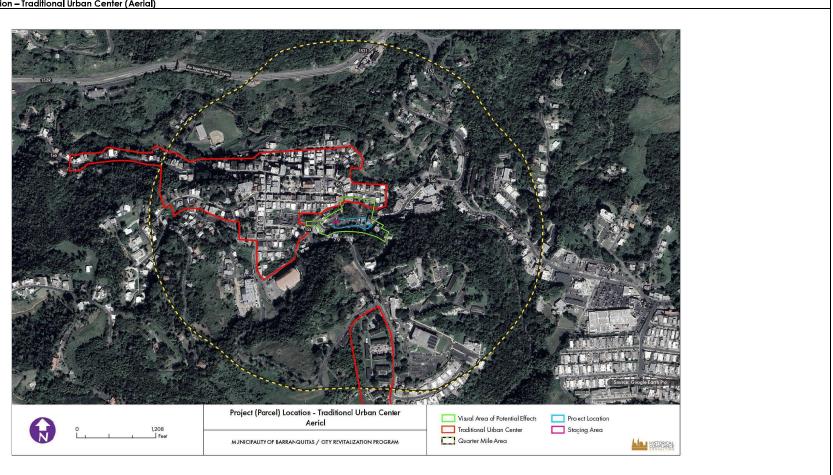


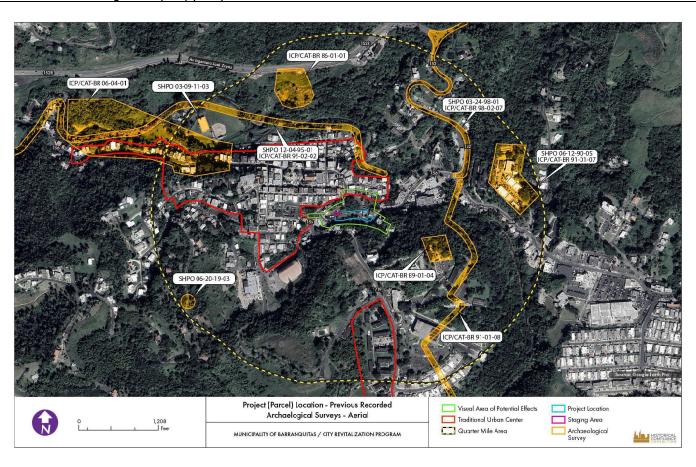
Figure 3- Project (Parcel) Location – Traditional Urban Center (Aerial)



PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	GOVERNMENT OF PUERTO RICO OSFINIMENT OF ROUSING	
Subrecipient: Municipio de Barranquitas		
Project Name: Construcción de Nuevo Estacionamiento Público	Project ID: PR-CRP-000988	

Figure 4 - Project (Parcel) Location – Traditional Urban Center (USGS Topographic) Quebrada Padilla Rio de Barranquitas AL MILTON PERELEZ Escuela Publo Colon Berdecia Municipio de Barrarquitas Escuela Petroamerica Pagan 2 Casa Alcaldia De Barrano artas Barranquitas Tribunal De Prime Instancia De Barranquitas Universidad Interamericana De Puerto Rico - Recinto De Barranquitas CLL 3 Project (Parcel) Location - Traditional Urban Center Visual Area of Potential Effects Project Location Topographic Staging Area Traditional Urban Center Quarter Mile Area MUNICIFALITY OF BARRANQUITAS / CITY REVITALIZATION PROGRAM HISTORICAL COMPLIANCE

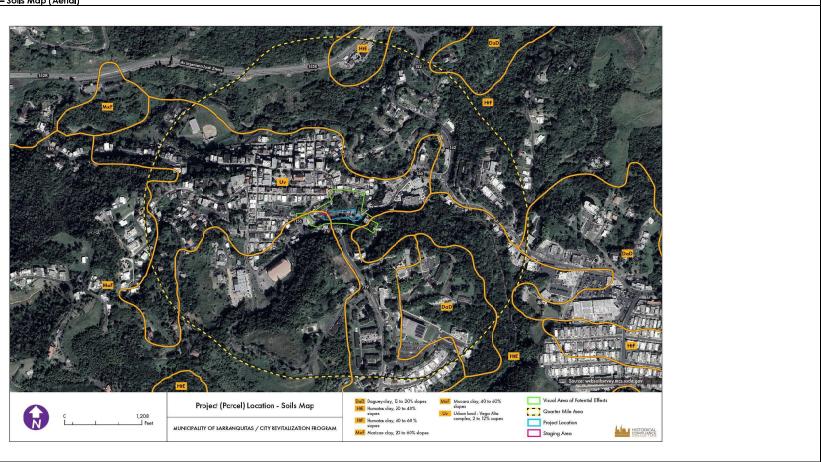
Figure 5 - Project (Parcel) Location with Previous Archaeological Surveys Map (Aerial)



PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	GOVERNMENT OF PUERTO RICO OFFICEMENT OF HOUSING	
Subrecipient: Municipio de Barranquitas		
Project Name: Construcción de Nuevo Estacionamiento Público	Project ID: PR-CRP-000988	

Figure 6 - Project (Parcel) Location with Previous Archaeological Surveys Map (USGS Topographic) ICP/CAT-BR 06-04-01 SHPO 03-09-11-03 Quebrada Padilla SHPO 03-24-98-01 ICP/CAT-BR 98-02-07 o de Barranquitas MILTON PERELEZ SHPO 12-04-95-01 ICP/CATBR 95-02-02 Municipio de Barranguitas Escuela PullCP/CAT-BR 91-01-07 Escuela roamerica Pagan 2 Casa Alcaldia De Barrano altas Barranquitas Tribunal De Prime Instancia De Barranquitas ICP/CAT-BR 89-01-04 SHPO 06-20-19-03 Universidad Interamericana De Puerto Rico - Recinto De Barranquitas CLL 3 ICP/CAT-BR 91-01-08 Project (Parcel) Location - Previous Recorded Visual Area of Potential Effects Project Location Archaelogical Surveys - Topographic Traditional Urban Center Staging Area Quarter Mile Area Archaeological Survey MUNICIPALITY OF BARRANQUITAS / CITY REVITALIZATION PROGRAM

Figure 6- Project (Parcel) Location – Soils Map (Aerial)



PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
CITY REVITALIZATION PROGRAM (CITY-REV)
Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

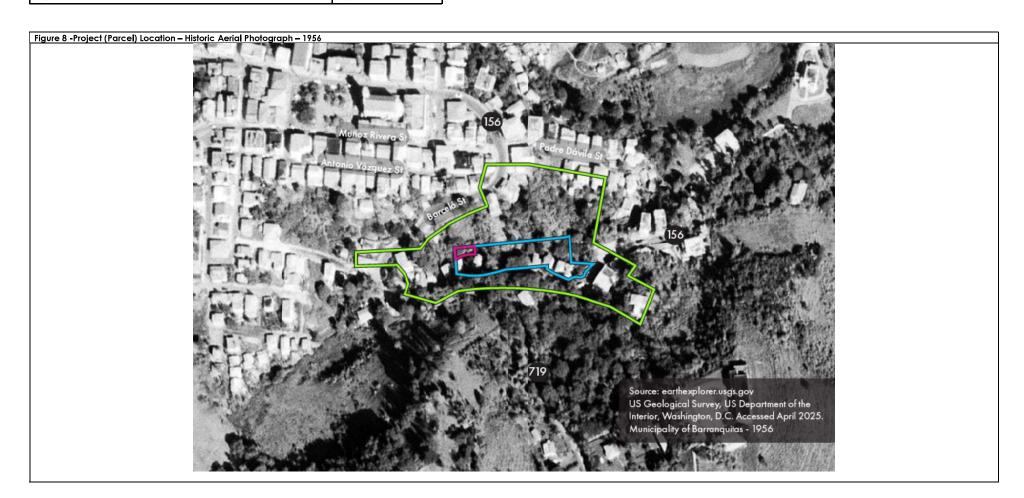




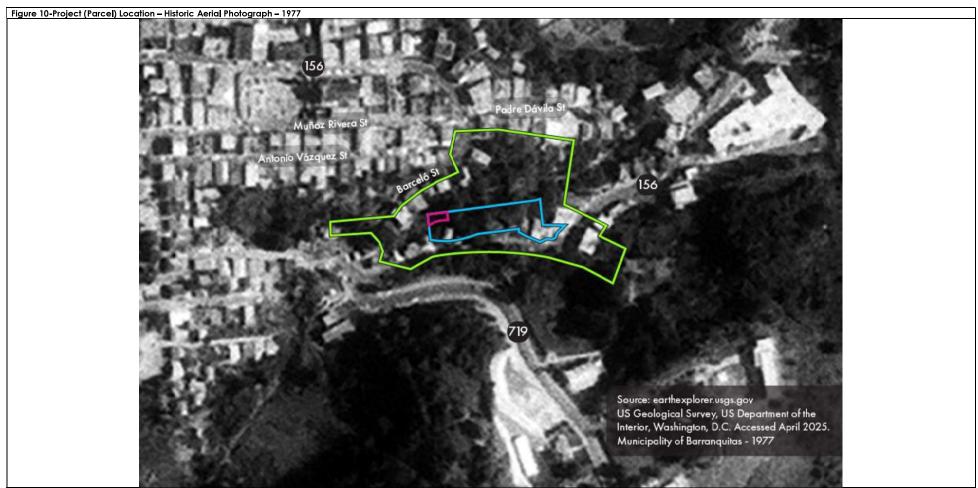
Figure 9- Project (Parcel) Location with Previously Identified Historic Properties Map (Aerial) S Escuelo Cástu o Roaríguez Torres
Paza Pública Monseñor Mendoza Rivera
Parroquia San Antonio de Padua
Museo, coaqui de Rojas
Residencial Vila Universitaria Project (Parcel) Location - Eligible Historic Properties within the Quarter Mile ☐ Visual Area of Potential Effects Casa Museo Luis Muñoz Rivera
Mausoleo Familic Muñoz Rivera
Escuela Eduardo Georgetti ☐ Traditional Urban Center Quarter Mile Area

■ NRHP-Eligible ■ NRHP-Listed

MUNICIPALITY OF BARRANQUITAS / CITY REVITALIZATION PROGRAM

Project Locaton
Staging Arec



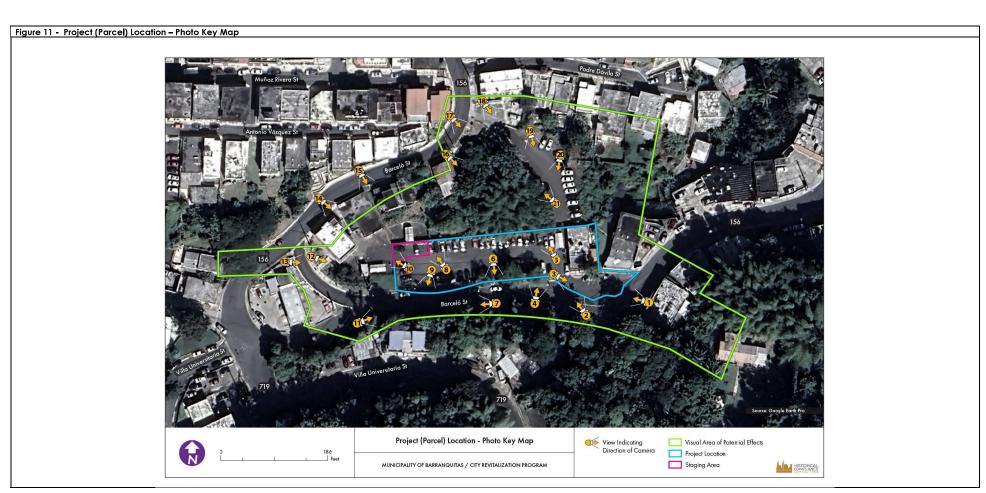


Puerro Rico 2017 Disaster Recovery, CDBG-DR Program
City Revitalization Program (City-Rev)
Section 106 NHPA Effect Determination

Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988



CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988



Photo #:1

Description: View of project site from the southeast on Barceló Street (PR-156), looking towards the northwest.

Date: 03/24/25



Photo #:2

Date: 03/24/25

Description: Closer view of project site from the southeast on Barceló Street (PR-156), looking towards the northwest.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988



Photo #:3

Description: View of the APE's limit from the project site, looking towards the southeast.

Date: 03/24/25



Photo #:4

Description: View of project site from the south on Barceló Street (PR-156), looking towards the northeast.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988



Photo #:5

Description: View from project site, looking towards the northwest.

Date: 03/24/25



Photo #:6

Description: View from the project site, looking towards the south of the Visual APE.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988



Photo #:7

Description: View from Barceló Street looking towards the west.

Date: 03/24/25



Photo #:8

Description: View from project site, looking towards the northwest.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988



Photo #:9

Description: View from the project site, looking towards the south.

Date: 03/24/25



Photo #:10

Description: View from the project site, looking towards the west.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988



Photo #:11

Description: View of project site from the southwest on Barceló Street (PR-156), looking towards the northeast.

Date: 03/24/25



Photo #:12

Description: View of project site from the west on Barceló Street (PR-156), looking towards the east.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988



Photo #:13

Date: 03/24/25

Description: View of project site from the west on Barceló Street (PR-156), looking towards the east.



Photo #:14

Date: 03/24/25

Description: View of main facades of adjacent buildings north of the project site, looking towards the southeast.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988



Photo #:15

Date: 03/24/25

Description: View of main facades of adjacent buildings north of the project site, looking towards the southeast.



Photo #:16

Date: 03/24/25

Description: View of project site from 54 Barceló Street (247-092-39-17 PN), looking towards the southeast.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988



Photo #:17

Description: View from north Barceló Street, looking towards the southeast.

Date: 03/24/25



Photo #:18

Date: 03/24/25

Description: View from adjacent private parking north of the project site, looking towards the southeast.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988



Photo #:19

Date: 03/24/25

Description: View from adjacent private parking north of the project site, looking towards the south.



Photo #:20

Date: 03/24/25

Description: Closer view from adjacent private parking north of the project site, looking towards the south.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination





Subrecipient: Municipio de Barranquitas

Project Name: Construcción de Nuevo Estacionamiento Público

Project ID: PR-CRP-000988



Photo #:21

Date: 03/24/25

Description: View of 54 Barceló Street (247-092-39-17 PN) from adjacent private parking, looking towards the west.

PR-CRP-000988

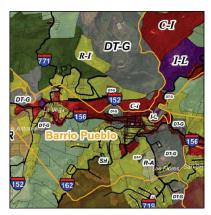
CONSTRUCCIÓN DE NUEVO
ESTACIONAMIENTO PÚBLICO PROJECT
BARRANQUITAS, PUERTO RICO

90% DESIGN DRAWINGS

AMPLIACION DE ESTACIONAMIENTOS PUBLICO

CARRETERA 156 KM 16.3, BO. PUEBLO DEL MUNICIPIO DE BARRANQUITAS, PUERTO RICO.

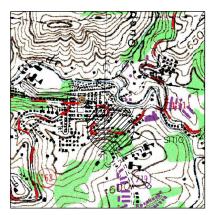
HON. ELLIOT COLON BLANCO ALCALDE



MAPA DE CALIFICACION



FOTO AFREA



LOCALIZACION

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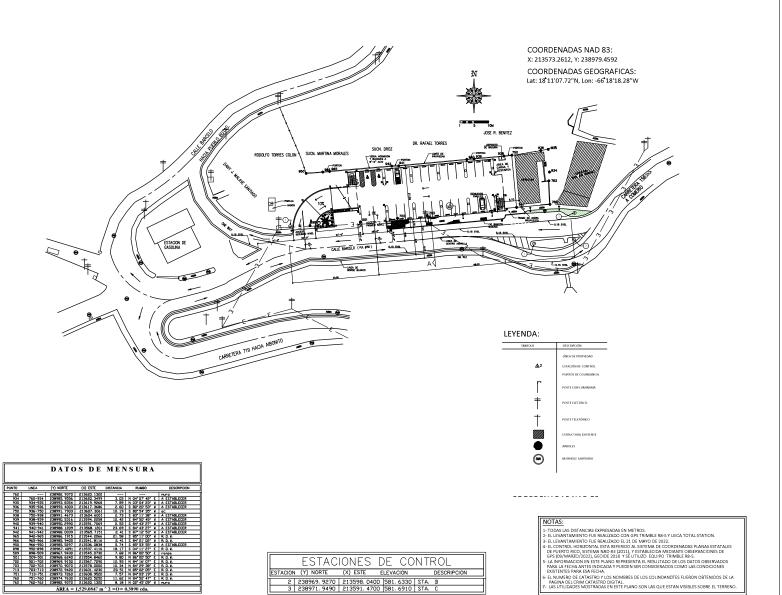




63 CALLE BARCELO STE 201, BARRANQUITAS, P.R. 00794 - TEL. (787)857.8021

		INDICE
1	T=1	HOJA TÍTULO E INDÍCE
2	PS-1	PLANO DE SITIO AGRIMENSURA - EXISTENTE Y DEMOLICIO
3	PS-2	PLANO DE SITIO - PROPUESTO
4	PC-1	PLANO DE SITIO - CONTROL
5	PS-3	MANTENIMIENTO DE TRANSITIO
6 7	PP=1	PERSPECTIVAS
7	A1	PLANTAS ARQUITECTONICAS - PROPUESTAS
8	A2	ELEVACIONES
9	A3	PLANTAS DE DRENAJES Y SECCIONES
10	A4	DETALLES - ARQUITECTONICOS
11	A4-A	DETALLES - ARQUITECTONICOS
12	S 0.1	STRUCTURAL DRAWING
13	S-0.2	REINF CONCRETE DETAIL & NOTES
14	S-1.0	FOUNDATION PLAN
15	S-1.1	ROOF STRUCTURAL PLAN
16	S-2.0	STRUCTURAL FRAME ELEVATION
17	P=1	PLANTAS DE - PLOMERIA
18	ES1=1	ELECTRICAL SITE PLAN
19	ES1-2	EXISTING ELECTRICAL SITE PLAN
20	ES1-3	ELECTRICAL NOTES
21	ES1-4	ELECTRICAL NOTES





CENTRAL



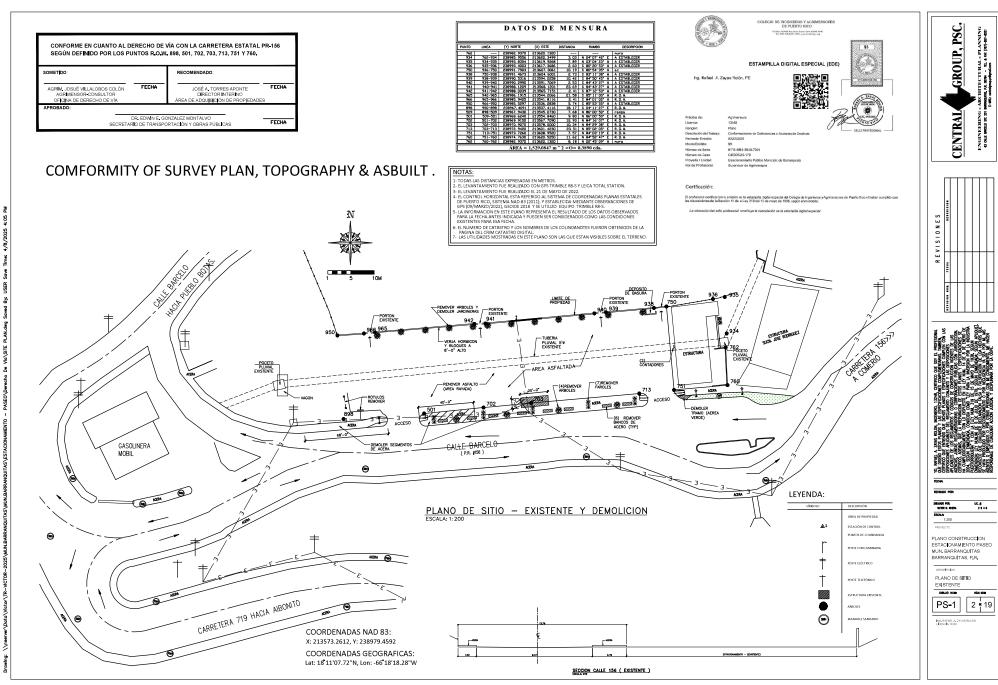


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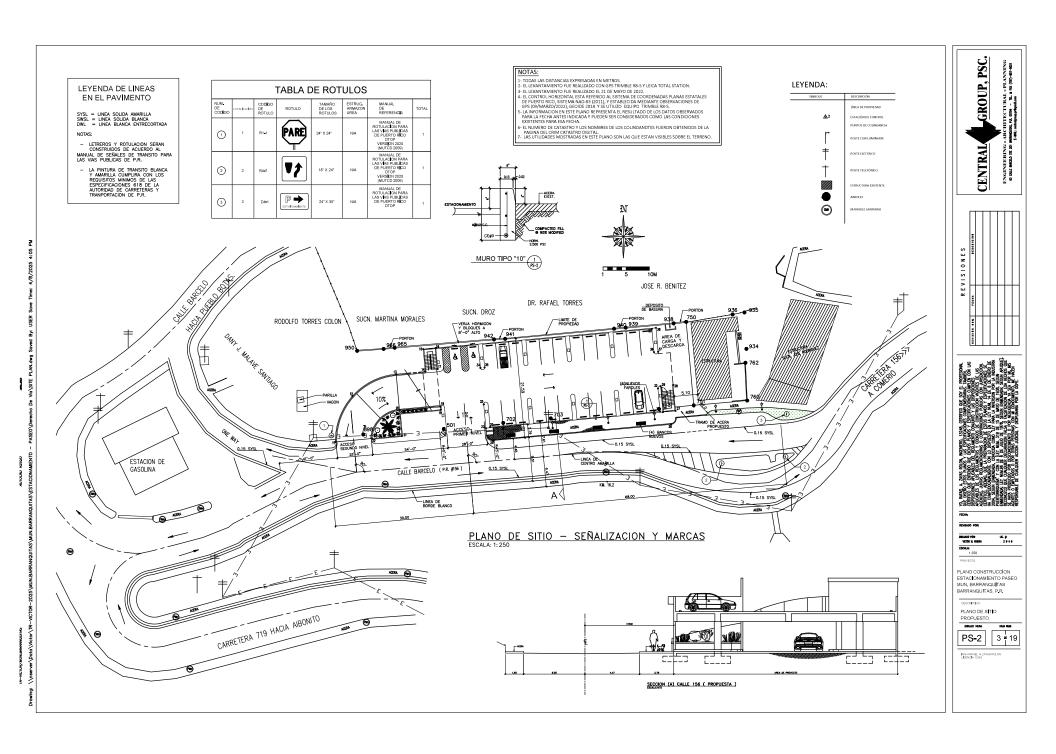
PLANO DE MENSURA DE UN PREDIO DE TERRENO EN EL BO. PUEBLO DE BARRANQUITAS

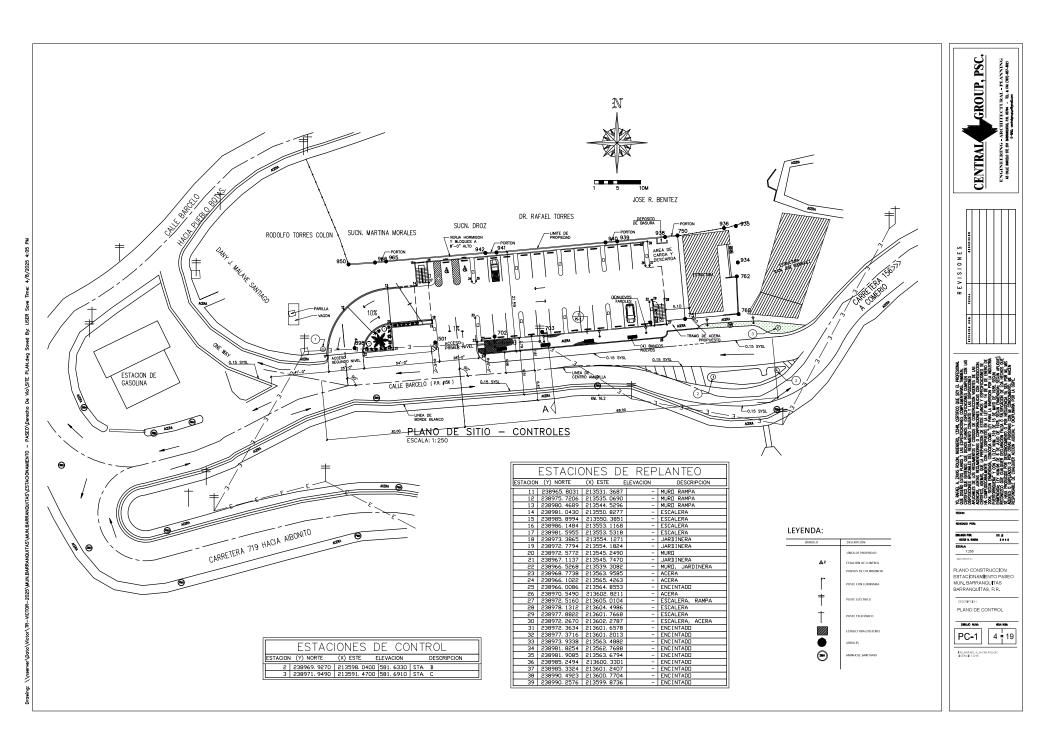
PLANO DE MENSURA

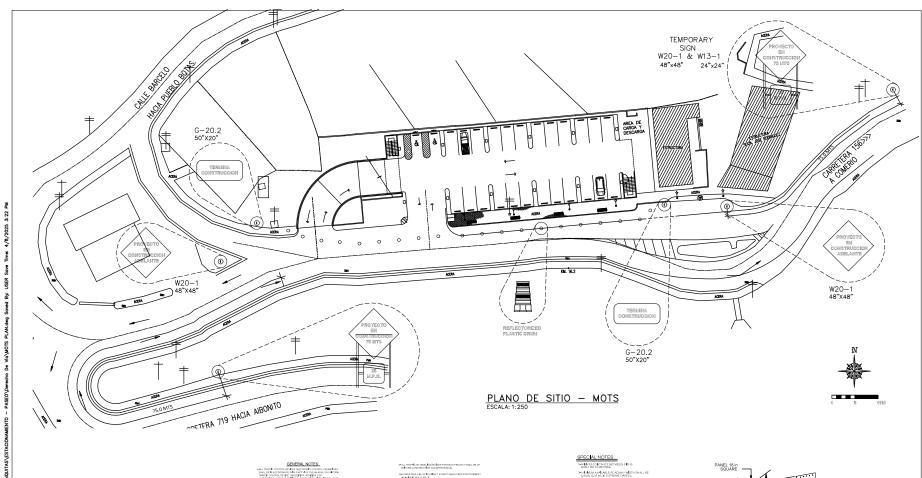






















4-THERE SHALL BE TAO IF CRAMEE AND IF WHITE REFLECTIVE SHEETING STRIPES ON EACH DRIVE MORREFLECTORISE SHALL BE DRAWING.

USE OF HAND SIGNALING DEVICES BY FLAGMAN

19-CONES SHALL BE SIF THREE BYT, EXCEPT WHEN USED FOR PAYEMEN WERE BOT SHALL BE SIT. 11- ALL TRAFF ID CONTROL DEN LIES SHALL BE CLEANED, REFAINTED, REFLECTOR LIED OR REPLACED AS NECESSARY TO PROVIDE ADSOLVER VEHILL TV AND LEGIBLETY AT ALL TIMES. TO TRANSPIC CONTROL OF MOST MANUFACTURED WITH SUBSTRACT MAY SHALAR CHARGE WOULD BE ACCEPTABLE SUBJECT TO THE AFFROME OF THE PROJECT.

MPORTANT NOTE:
These processors proceedings to the companion specific community of the comm

NOTES TO CONSTRUCTION INSPECTOR & CONTRACTOR:

2. COPY OF THIS PRACTICE IS AWALABLE UPON REQUEST FROM THE O.P. CONSTRUCTION DEPT.

3- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL STATE OR LOCAL SAPETY RECURPMENTS, IN NO EXEMT THE OMESION OF MY SUCH RECURPMENT IN THESE MOTES MILL WAILE THE CONTRACTOR TO COMPLY WITH THEM.

4. NIND EVENT SHALL THE CONSTRUCTION INTERFERE WITH THE FREE TRANSIT OF VEHICLES AND YOU REDESTRICK.

The conference of the control of the

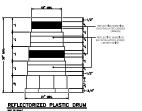
SHALL SENS SHALL MEET SEE MATERIAL, MOUNTING FRAME, REFLECTION AND ALL OTHER REQUIREMENTS. HIGHLIGED IN THE MANUAL'S THAT DTOP AND ACT

WORK BY.

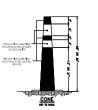
4 IF THE FLAG MENI CANT SEE EACH OTHER THEY
SHALL USE RADIA-TELEPHONES.

5 THE CONTRACTOR SHALL PAVE THE AFFECTED LANES INVEDITELY, AS
THE SAME CONDITION OR BETTER THAN BEFORE CONSTRUCTION.

IF THE ENTIRE ROAD LENGTH NUST BE INVOICED AS THE SAME EXISTING PAVEMENT MARKING, UNLESS OTHERWISE SPECIFIED.







DIVIDES	(MINIMUM POUND)
PUM	15-15
YPE A # BARRICAGES	10

GROUP, PSC. CENTRAL





	ASSESSED 2004
CHAL	
WISAGO PORE	
HADO POR VICTOR N. RIVERA	UC. g 2944

00030

PLANO CONSTRUCCION ESTACIONAMIENTO PASEO MUN. BARRANQUITAS BARRANQUITAS, P.R.

DESCRIPCION: MANTENIM ENTO

DE TRANSITIO

5 19 PS-3

ING, RAFAEL A, ZAYAS ROLON LICENCIA 13218











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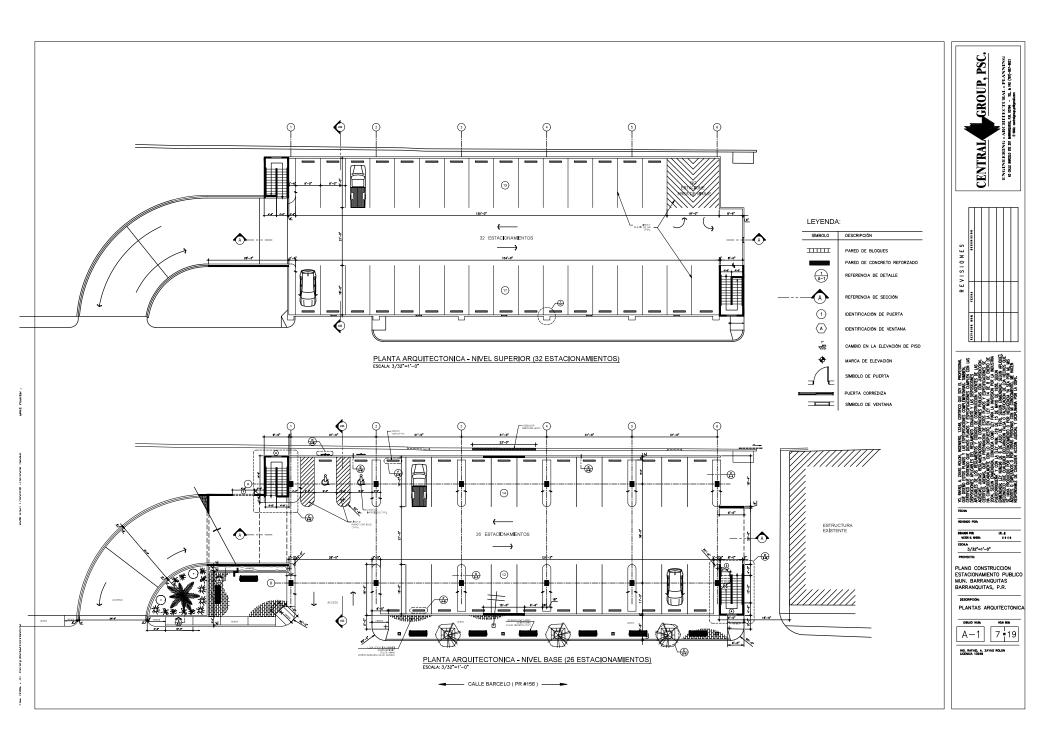
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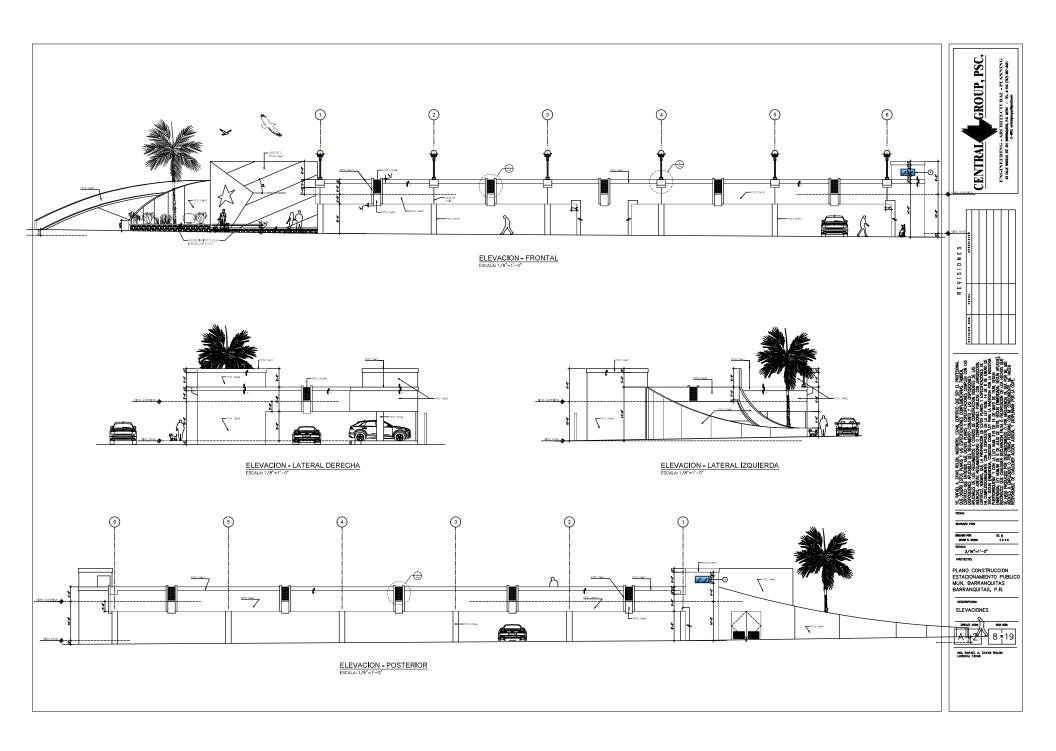
PLANO CONSTRUCCION ESTACIONAMIENTO PUBLICO MUN. BARRANQUITAS BARRANQUITAS, P.R.

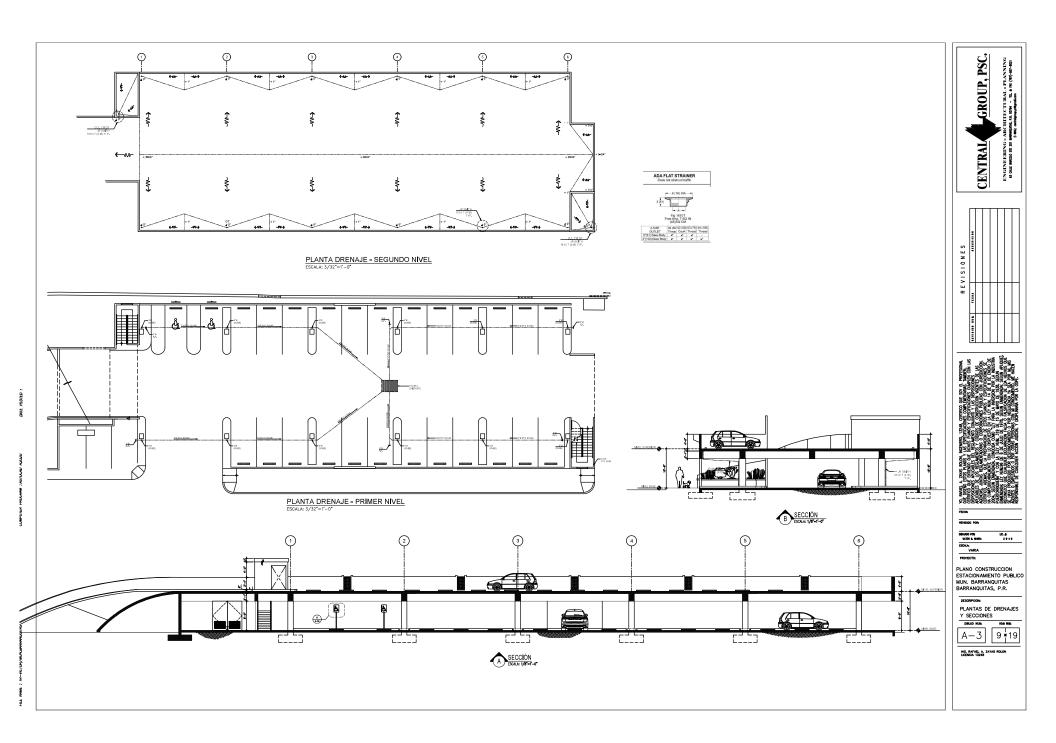
DESCRIPCIONE PERSPECTIVAS

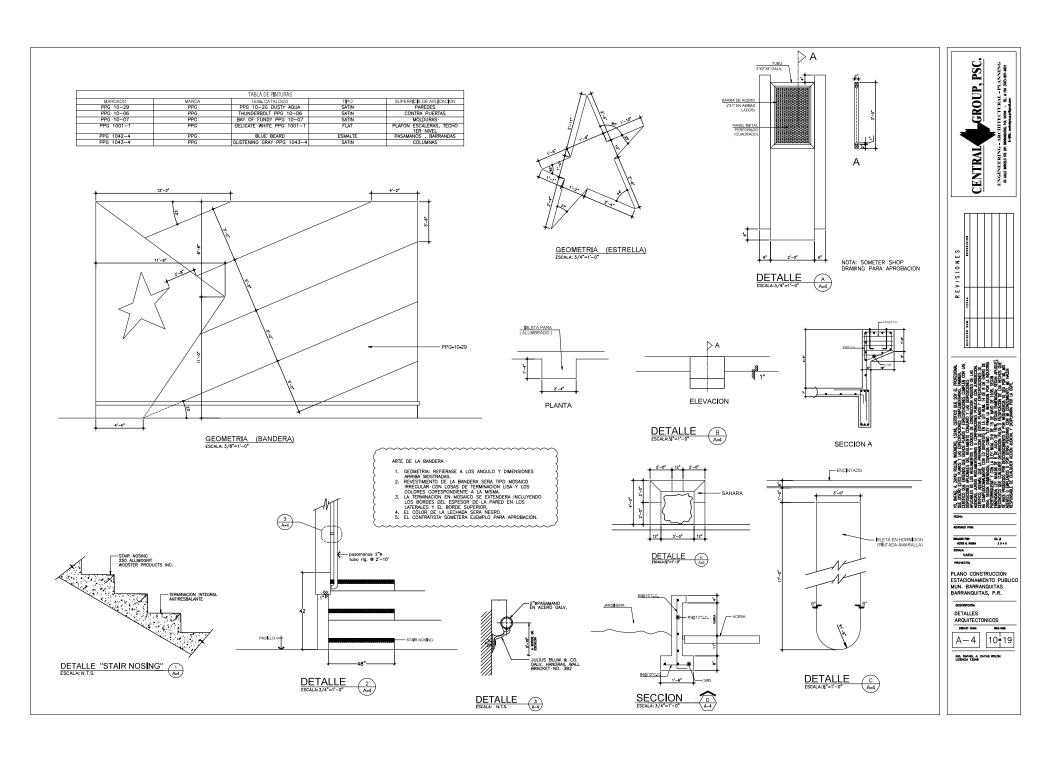
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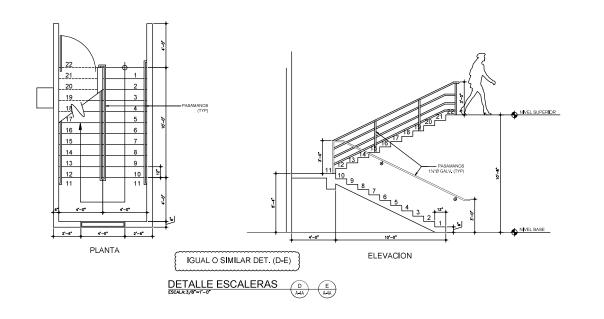
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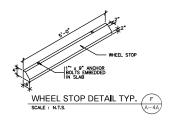












CENTRAL

REVISADO POR DEUROD POR VICTOR IL RVERA ESCALA: VARIA PROYECTO:

UL # 2944

PLANO CONSTRUCCION ESTACIONAMIENTO PUBLICO MUN. BARRANQUITAS BARRANQUITAS, P.R.

DETALLES ARQUITECTONICOS A-4A

ING. RAFAEL A. ZAYAS ROLON LICENCIA 13248

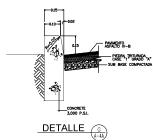
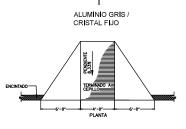
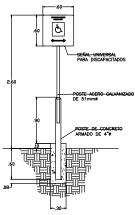


	TABLA DE PUERTAS								
MARCADO	DATRON	DIMENSIO	N HUECO	DIMENSION PUERTA		COTNEC	OBSERVACIONES		
MARCADO	PAIRON	ANCHO	ALTO	ANCHO	ALTO	MARCA	GOZNES	OBSERVACIONES	
0	A	8'-0"	8'-0"	8'-0"	8'-0"	_	_		
2	В	3'-6"	8'-0"	3'-0"	7'-0"	INDUMENT	_		

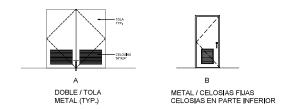
	TABLA DE VENTANAS								
MARCADO F	O.TOO.	DIMENSION HUECO D		DIMENSION VENTANA					
	PAIRON	ANCHO	ALT0	ANCHO	ALTO	MARCA	MODELO	OBSERVACIONES	
(A)	- 1	1'-6"	4'-0"	2'-0"	4'-0"				

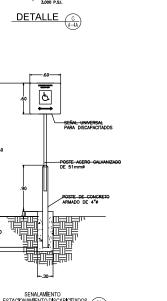












S	STRUCTURAL DRAWING SHEET INDEX
	STRUCTURAL DRAWING INDEX & GENERAL NOTES REINFORCED CONCRETE DETAILS & NOTES FOUNDATION PLAN

ROOF STRUCTURAL PLAN

STRUCTURAL FRAME ELEVATION

S-0.1

S-0.2 S-1.0

S-1.1

S-2.0

	STANDARD DRAWING	ABBRE	VIATIONS
ADL	Additional Dead Load	LLH	Long Leg Horizontal
AB	Anchor Bolt	LOCT	Location
A/C ADD'L	Air Conditioner Additional	LONGIT	Longitudinal Lightweight
AFF	Above Finish Floor	LL	Lightweight Live Load
AL	Aluminum	MAX	Maximum
ALT	Alternate	MECH	Mechanical
APP ARCH	Approximate	MEZZ MFG	Mezzanine Manufacturer
BCX	Architect, Architectural Bottom Chard Extension	MID	Manufacturer Middle
BF	Both Foces	MIN	Minimum
BLDG	Building	MISC	Miscellaneous
BLKG	Blockage	MKD	Marked
BM (s) BO	Beams (s) By Others Blockout	MTL N	Material, Metal North
50	By Others, Blockout, Bottom of opening	NIC	Not in Contract
В	Bottom	NF	Near Face
BP	Base Plate	NO of #	Number
BRDG B RG	Bridging Bearing	NOM NTS	Nominal Not to Scale
BOM	Bottom of Beam	NS	Near Side
C-1	Bottom of Beam Column Number	oc	On Center
CANT	Contilever	OD	Outside Diameter
CG	Center of Gravity Cast -in -Place Concrete	OPNG OPP	Opening
CGS	Cast - in - Place Concrete Center of Gravity	OPP HAND	Opposite Opposite Hand
005	of Strands (steel)	0. 0.	Out to Out
CJ	Cont rol or Construction Joint	PL	Plate
CL	Centerline	P/C	Pre - Cast
CLG	Ceiling	PCF PERIM	Pounds per Cubic Foot Perimeter
CLRG	Caulking Clear, Clearance	PERP	Perpendicular
CMU	Concrete Masonry Unit	PLF	Pounds per Linear Foot
COL	Column	PROJ	Projection
CONC	Concrete	PSF	Pounds per Square Foot
CONN	Connection	PSI	Pounds per Square Inch
CONST	Construction Continuous	RECT	Rectangular
CORR	Corrugated	RE REINF	Refer (ence) Reinforcement/Reinforce
CTR	CTR	REV	Revision
C.C.	Center to Center	REO'D	Required
DBA	Deformed Bar Anchor	S	South
DBL	Double Dimension	SC	Scale
DKG	Dimension	SCHD SECT	Schedule Section
DN	Down	SECI	Structural Engineer of
DO	Ditto	ULI.	Record
DTL	Detail	SHT	Sheet
DWG (s)	Drawing (s)	SIM SL	Similar Slob
DWL DL	Dowel Dead Load	SLV	Sieeve
E	East	SPCS	Spaces
EA	Each	SPCG	Spacing
EMB	Embedment	SPL	Splice
EE	Each End Each Face	SPEC SQ	Specification Square
EG	Existing Grade	STD	Standard
EJ	Expansion Joint	STFF	Stiffener
EL	Elevation	SOG	Stiffener Slab on Grape Step Of Footing
ELEV	Elevation, Elevator Structural Engineer of Record	S.0.F	Step Of Footing
ENGR EQ	Structural Engineer of Record Equal	STIRR	Stirr up Steel
EXIST	Existing	STR	Structure
EXP BOLT	Expansion Bolt	SYM	Symmetrical
EXT	Exterior	TEMP	Temperature
EW	Each Way	THK or T THRD	Thickness Threaded
ETC F-1	Etcetera	TOPG	Topping
F=1 FB	Footing Number Floor Beam	TYP	Typical
FF	Far Face, Finished Floor	T.O.B.	Top of Beam
FFE	Finish Floor Elevation	T.O.C. T.O.COL	Top of Concrete
FG	Final Grade	T.O.F.	Top of Column Top of Footing
FIN FL	Finish	T.O.J.	Top of Joist
FL FLG	Floor	T.O.OP.	Top of Opening
FND	Foundation	T.O.P.	Top of Parapet
FRMG	Framing	T.O.S.	Top of Slab or Steel
FT	Foot, Feet	T.O.W. T & B	Top of Wall Top and B ottom
FTG FS	Footing For Side	U	Units
GA GA	Far Side Gage or Gauge	UNO	Unless Noted Otherwise
GALV	Galvanized	VB	Vapor Barrier
GC	General Contractor	VERT	Vertical
GR	Grade	VRS	Varies
HBF HORIZ	Horizontal Both Faces Horizontal	w	West, Wire Size Designation
HORIZ	Horizontal Horizontal Hook	w/c	Water Cement Ratio
HDAS	Headed Anchor Stud	WD	Wood
HSB	High Strength Bolt	WP	Work Point
HT	Height	WT	Weight
ID	Inside Diameter	WWF W/	Welded Wire Fabric With
INFO INT	Information Interior	W/0	Without
JST	Joist	W/S	Waterstop
JT	Joint	www.	Welded Wire Mesh
ĸ	Kips	æ	And
KLF	Kips per linear foot		
KSF KSI	Kips per square foot		
L	Kips per square inch Left, Length		
LAM	Laminated		
LBS	Pounds		

GENERAL NOTES

1- THE STRUCTURAL DRAWINGS SHALL BE USED IN COMMUNITIONS WITH THE SPECIFICATIONS AND THE ARCHITECTURAL ELECTRICAL, MECHANICAL, MECHANICAL, ARC AND CASE TROPE DRAWINGS IT THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT AND THE DEMORRER PRIOR TO PERFORMING ANY WORK.

2- CONTRACTOR SHALL VERFY ALL DIMENSIONS ON STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWING BEFORE LAYING OUT ANY WORK, IF ANY DISCREPANCY ARISES THE ARCHITECTS AND ENGINEER SHALL BE NOTIFIED.

3- DETAILS, NOTES AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE WITH THE APPROVAL OF THE ENGINEER THE FOLLOWING CODE. STANDARD AND SPECIFICATION APPLY TO ALL THE CONSTRUCTION WORKS:

1 2018 P.R. BUILDING CODE
2 INTERNATIONAL BUILDING CODE IBC 2018

2— INITIANAL BULLING COLD BC 2019

- INITIANAL BULLING COLD BC 2019

- MARICAN CONDETE INSTITUE 318—14 LATEST EDITION

- MARICAN INSTITUTE 318—16 LATEST EDITION

- MARICAN MEDIDING SOCIETY LATEST EDITION

- CONCRETE REINFORMIS STEEL INSTITUTE LATEST EDITION

- MARICAN SOCIETY FOR TESTING AND MATERIAL

- STEEL DECK INSTITUTE LATEST EDITION

- AD, MARICAN OF CONCRETE PRACTICE, LATEST EDITION

5- DESIGN LOADS:

A)-LIVE LOADS

1) PARKING SPACE ----- 40 PSF
2) OFFICE AREA ----- 50 PSF

3) STARS AND EXIT WAYS -- 100 PSF 4) MECHANICAL ROOM ----- 100 PSF 5) ROOF ------ 40 PI

B)-WIND LOADS: WIND LOAD SHALL BE COMPUTE AS PER ASCE-7-16

)-BASIC SEISMIC-FORCE RESISTING 313 N-S DIRECTION--WALLS E-W DIRECTION--WALLS)-RESPONCE MODIFICATION FACTOR ---

6- CONTRACTOR SHALL PROVIDE ADEQUATE SHORING TO THE STRUCTURE DURING CONSTRUCTION AND SHALL NOT CREATE ANY OVERLOAD SITUATION OVER IT DUE THE HORIZONTAL MOVEMENT OF ANY HEAVY FOLUPIENT OR THE STORAGE OF THE CONSTRUCTION MATERIALS.

7- IN CASE OF DOUBT IN THE INTERPRETATION OF ANY ASPECT OF THESE STRUCTURAL DRAWINGS AND OR THE SPECIFICATIONS, THE DESIGNER SHALL BE CONSULTED. BEFORE COMMENCING ANY WORK. AND OR THE SPECIFICATIONS, THE DESIDENCE SHALL BE CONSULTED. REPORT COMMERCIAL ANY YORK.

— INFLUMENTIAL ORD SHEE EVERT AND CONSIDERATION PROCEDURES (MOMEN AND WITHOUTS)

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CONTINUEDRE. CONTINUEDRE SHALL TAKE ALL INCESSING PRECIDENCE TO PREVENT ANY DAMAGE TO
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ADMICHIT STRUCTURES AND UTILIZES. AND ADMICH AND ADMICH STRUCTURES AND UTILIZES.

OF THE CONTINUEDRE, INCLUDING FORMANIES, SOSIONIES, RESPONNE, SHOPPORT OF EDICAMATION, UNECEPTIMING
OR SUPPORT OF ALL CONSTRUCTION EQUIPMENT INCLUDING OF CONTINUEDRE

OF THE CONTINUEDRE (INCLUDING FORMANIES, SOSIONIES, RESPONNE).

10- SCALE ON THE DRAWINGS ARE FOR INFORMATION ONLY, NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY SCALING FROM THE DRAWINGS.

11—THE LISE OF ELECTRONIC FILES OR EREPODUCTIONS OF THESE DOCUMENTS BY ANY PRISON.
CONTRACTOR, SUBCONTRACTOR, PERCTOR, FARROCATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION
OF SHOP DEARMINES, SOMERES THERE ACCEPTANCE OF ALL INFORMATION SHOWN HERRON AS CORRECT,
AND DELLOATE THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY EPRORS
THAT MAY COLUMN HERCON.

THAT MAY COURT HEREON.

12. SUBMIT SHOP PRAWINGS AT LEAST 15 BUSINESS DAYS PRIOR TO THE DATE WHICH REMEMED SUBMITTALS WILL BE REQUIRED, SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPOWAL WHICH SHALL CONSTITUTE CERTIFICATION THAT HE HAVE WERTERD ALL FELD MESURBEINEST, CONSTRUCTION, CHORD AND WARRE ALL REPORT AND SHALL BEAR AND SMALA DATA, AND LHIS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLANCE WITH THE CONTRACT COMMENTS.

13— CONTRACTOR SHALL FURNISH DIMENSIONED COORDINATED SHOP DRAWINGS AT ALL LEVELS LOCATING SLAB EDGES AND ALL SLEEVES AND OPENINGS REQUIRED BY ALL TRADES FOR REVIEW BY THE ARCHITECT AND SER. 14— THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND FIELD CONDITIONS TO THE SER. 15- NO CONSTRUCTION SHALL COMMENCE PRIOR TO THE APPROVAL OF SHOP DRAWINGS BY THE ARCHITECT. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS.

16— SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION REGARDING FINISHES, PAINT, FIREPROOFING, FLOOR PITCHING, DRAIN LOCATIONS, WATERPROOFING AND DAMPPROOFING DETAILS. PARTIN, FINETRALORIMA, FLUXAR PILLERINA, BARRIA LLUANIUSS, WALEPHOLDERU AND DUMPRODEND DETAILS.

17.3 SEE ACRETICUTURA DENAMINOS FOR LOCATIONS OF MISONRY AND ALL OTHER NON-LOOD BEARNIO PARTITIONS. PROVIDE SUP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE HEADS OF ALL SUCH PARTITIONS. CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE TOP OF WALLS LATERALLY FOR THE C REQUIRED LATERAL LOAD, PROVIDE COMPRESSIBLE PIRESAFING AT THE TOP OF WALLS AS REQUIRED BY ARCHITECTURAL DENAMINS,

18— ALL COSTS OF INVESTIGATIONS AND/OR REDESIGN, DUE TO CONTRACTOR'S MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LICKY OF CONTRACTOR'S MISLOCATION OF STRUCTURAL ELEMENTS OF OTHER LICKY OF CONTRACTOR'S DEPOSES.

SPECIAL INSPECTION

I.- ANY CONTROLOR RESPONSES. FOR THE CONTROLTON OF A MAN WHILD RESPONSE PERSONNE STRIN, DESIGNATION STRING STRING ON WHICH OR SERVICE COMMONTH IS STRING TO SPECIAL RESPONSES ON WHICH A SWEET A WOTTER STRING TO THE CONSIDERATION OF SPECIAL RESPECTIONS SHALL SAMENTA A WOTTER STRINGENT TO THE CONSIDERATION OF WORK OF THE STRINGENT OF SHORT OF MAN OF THE CONSIDERATION OF WORK OF THE CONSIDERATION OF WORK OF THE CONSIDERATION OF WORK OF THE RESPONSE DESIGN PROTESSORM, AS PROFESSORM, ASPECIAL RESPONSE TORS, TOWN OF THE CONSIDERATION OF THE RESPONSE DESIGN PROTESSORM, AS

2- THE OWNER WILL PROVIDE THE SERVICES OF A SPECIAL INSPECTOR WSITH THE RESPONSIBITES DESCRIBE BELOW. SEE IBC 2009 CHAPTER 17 FOR ADDITIONAL INFORMATION.

A. CAST-IN-PLACE CONCRETE - PROVIDE CONTINUOUS AND PERIODIC SPECIAL INSPECTION AND STRUCTURAL TESTS AS SHOWN IN SPECIFICATION SECTION 033000 FOR THE FOLLOWING COMPONENTS

STRUCTURAL TESTS AS SHOWN IN SPECIFICATION SECTION 033000 FOR THE FOLLOWING COMPONENTS OF THE MORE SECTION OF PRESIDENCE SECTION OF PROPERTY OF THE PROPER

1.8 PERIOD: INSPECTION OF CONCERT. FORMINGS, SHORING, AND RESIDENCE ASSESSMENT AND STRUCTURAS LITE. PROPROCE CONTINUES AND PERIODS RESIDENT ASSESSMENT ASS

C. POST-TENSIONED CONCRETE - PROVIDE CONTINUOUS AND PERIODIC SPECIAL INSPECTION AND STRUCTURAL TESTS AS SHOWN IN SPECIFICATION SECTION 033816 FOR THE FOLLOWING COMPONENTS

OF THE WORK: 3.1 FERGOIC INSPECTION OF PRESTRESSING TENDONS 3.2 CONTINUOUS INSPECTION OF APPLICATION OF PRESTRESSING FORCES 3.3 FERGOIC INSPECTION OF N-STIU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS

FOLINDATIONS NOTES

1— BACKFILLING AGAINST FOUNDATION WALLS SHALL BE DONE WITH SMALL COMPACTING EQUIPMENT IN LAYERS NOT EXCEEDING 6*. BACKFILLING MATERIAL SHALL BE GRANULAR AASHTO CLASSIFICATION A-2-4 OR BETTER, REFER TO GCOTHECHNICAL REPORT. Z— NO BACKFILING SHALL BE PERMITTED AGAINST BASEMENT WALLS UNTIL UPPER SLAB ARE IN PLACE AND CONCRETE HAS DEVELOPED ITS REQUIRED STRENGTH.

3- ALL INTERIOR SLAB ON GROUND SHALL BE CAST OVER A POROUS MATERIAL WITH A 6 MIL MIN. POLYHETYLENE VAPOR BARRER UNDER IT.

4- FOUNDATION HAS BEEN DESIGN USING THE FOLLOWING PARAMETERS.
A- SOIL BEARING PRESSURE Fb = 3,000 PSF AT DEPTH SHOWING ON DRAWING. 5 - SUBSOIL REPORT MAS BEEN PREPARED BY THE OFFICE OF SULLOS INC. DATE 11/03/2015, JOB 4558 CONTRACTOR IS RESPONSABLE FOR OBTANING COPY OF SUCH REPORT AND MEMORRANDIAS, AND FOR POLLOWING ITS RECOMENDATION, SUBSOIL REPORT IS PART OF THE SPECTICATION AND CONTRACT

DOUMENT OF PROJECT.

C. CONTRACTOR SHALL CREW ALL DESTING FEEL ORIGINATES HE MAY METER THE REPLACED AS THE
C. CONTRACTOR SHALL CREW ALL DESTING FEEL ORIGINATION OF THE
C. CONTRACTOR SHALL CREW ALL DESTINE AS CONTRACTOR SHALL REPORT AND
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PREPARATION OF THE FORDWARD AND SHALL CREW SURPORTS. NELLURING COMPACTION PROCEDURES.
REQUIREMENTS CONTRACTOR IN THE CONTRACTOR. REPORT ARE PROF OF THIS WORK.

10 - UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S WITHTON ADDRIVAN

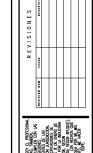
11- PROVIDE CONTINUOUS BENTONITE STRP WATERSTOPS AT ALL VERTICAL AND HORIZONTAL CONSTRUCTION JOINTS IN ALL BELOW GRADE CONCRETE INCLUDING ELEVATOR PITS AND PIT WALLS.

VICTIO OF NAL SELVEY WHILE COMPINE INCLUDING LEAVING PIS AND PIT MALS.

12. ALL SHORM, DESTROY, AND DEARTHS SHAUL BE IN PIOUR RESPONDENCY THE COMMUNICATION OF THE COMMUNICATION

LEGEND & SYMBOLS ----- DENOTES TOP BARS REINFORCEMENT DENOTES R/C WALLS OR COLUMNS ABOVE & BELOW SLAB DENOTES R/C WALLS OR COLUMNS ABOVE SLAB DENOTES EXISTING WALLS & COLUMNS [F=0.00] DENOTES TENDON FORCE IN K/FT (0.00) DENOTES C. G. OF TENDONS IN. DENOTES TEMP REINFORCEMENT AS SHOWN ON DRAWINGS DENOTES P.T. CABLES (0.0) DISTANCE TO C.G. FROM BOTTOM OF SLAB OR BEAM VERTICAL STEP A COLUMNS OR WALL LINE ----- MATCH LINES





GROUP,



3/32"=1'-0"

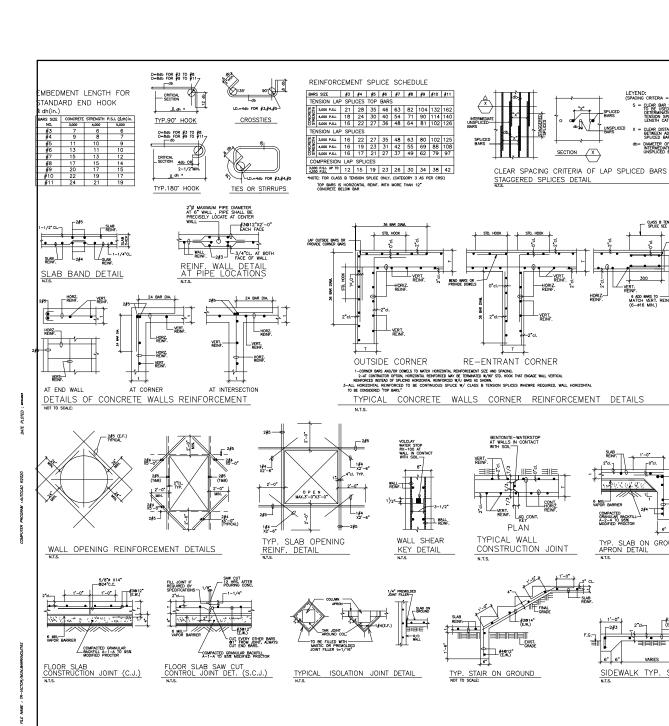
PLANO RECONSTRUCCION ESTACIONAMIENTO PASEO BARRANQUITAS, P.R.

STRUCTURAL DRAWING

INDEX & GEN. NOTES









LEYEND: (SPACING CRITERIA = X - db WHERE):

CLASS B TENSION SPLICE SEE NOTE NO.2

Γ^{0*αι.}

TYP. SLAB ON GROUND

SIDEWALK TYP. SECTION

APRON DETAIL

F^{2∦3}

ĪΈ

#3@14" 1'-0" (E.W.) 2#3

VERT. REINF.

HORIZ.— REINF.

S = CLEAR BAR SPACING TO BE USED FOR DETERMINATION OF TENSION SPLICE LENGTH CATEGORY.

1- ALL CONCRETE WORK SHALL CONFORM TO THE ACI BUILDING CODE FOR REINFORCED CONCRETE ACI-318-14 LATEST EDITION. Z- ALL CONCRETE SHALL DEVELOPED A MINIMUM 28-DAYS CYLINDER COMPRESSIVE STRENGTH AND SHALL CONTAIN A MAXIMUM WARER CEMENT RATIO AS SHOWN BELOW:

STRENGTH

PSI
3,500 65
4,00060
4,00050
5,00050
4.00060
5,00050
4,00060

3— ALL COMPRIES SHALL SET TISTED AS FEW AN 3/16-14 FALLOWING THE PROCEDURES IN THE COURSE OF A UNITED THE PROPERTY OF A CHARGE AND A PROPERTY OF A P

5- ALL CONCRETE SHALL BE CURED AS SPECIFY IN THE STANDARD PRACTICE FOR CURING CONC. ACI 308-92. FOR CONCRETE SHALL NOT BE POURED UNTIL ALL STEEL REINFORCEMENT AND EMBEDDED ITEM HAS BEEN PROPERLY INSTALL AND INSPECTED BY THE INSPECTOR OFFICIAL. WHEN METAL CHAIRS ARE USED, THER SHALL BE PLASTIC TIPPED.

8- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185 MIN FY=70,000 PSI. 9- CONCRETE COVER FOR STEEL REINFORCEMENT SHALL BE AS FOLLOW UNLESS OTHERWISE SHOWN ON DRAWINGS.

10- SLABS AND BEAMS SHALL BE POURED MONOLITHICALLY UNLESS OTHERWISE SHOWN ON

11- NO CONDUITS OR PIPE GREATER THAN 1 1/2" IN DIAMETER WILL BE ALLOWED TO BE CAST INTO THE WALL OR SLABS WITHOUT WRITTEN APPROVAL OF THE ENGINEER, 12— FOR CHAMFERS, SURFACE FINISH, DRIP, GROOVE AND CONCRETE FORMWORKS SEE ARCHITECTURAL DRAWING.

ARCHITECTURAL DRAWNIG.

13.— CONTRACTOR SHALL COORDINATES THE PLACEMENT OF THE ANCHORS, SLEEVES, OPENINGS, CONDUITS, ETC., OF VARIOUS TRADES THAT ARE EMBEDDED IN THE STRUCTURE. IN THE EXENT OF ANY INTERFERENCE BETWEEN ANY OF THESE TIESMS WITH THE STRUCTURAL ELEMENTS IT SHALL BE BROUGHT TO THE ATTENTION OF THE EMBERGE BEFORE POWERS ANY

15— DIMENSIONS AND CONFIGURATION OF ALL STRUCTURAL ELEMENT SHALL BE COORDINATED WITHE ARCHITECTURAL DRAWING BY THE CONTRACTOR AND IN THE EVENT OF ANY DISCREPANCIES IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND POSITIERE REFORE PROCEEDING

16— THE CONSTRUCTION PROCEDURES, FORMMORKS REMOVAL AND THE LOCATIONS OF THE CONSTRUCTION JOINTS SHALL BE SUCH AS NOT TO IMPOSE ANY DETRIMENTAL EFFECT TO THE STRUCTURE OR TO REDUCE THE DESIGN STRENGTH.

17— ALL ONE WAY SLAB SHALL HAVE TEMPERATURE REINFORCEMENT AS FOLLOWS BUT NOT LESS THAN A STEEL AREA OF .002 X GROSS AREA OF CONCRETE

A)-4-1/2"SLAB--#3012" B)-6"SLAB--#309" C)-7"SLAB--#4014" D)-8"SLAB --#4012" 18— DOWELS SHALL BE SAME SIZE AND NUMBER AS WALL OR COLUMN VERTICAL REINFORCEMENT, DMEDIDED MINIMUM 24 BAR DIAMETER NTO THE FOOTING, FOR 76 BAR OR GREATER, EXTENDED REINFORCEMENT TO BEST ADOVE SOTTOM OF FOOTING REINFORCEMENT PROVIDING A STANAMOS 90 BEGREE HOOK AT THE COLUMN.

THO THE WALL OF COLUMN.

19— PROVISION FOR DETAILS NOT SPECIFICALLY DRAWN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACO STANDARD PRACTICE FOR DETAILING RENORCRED CONCRETE STRUCTURES STRUCTURES STRUCTURES STRUCTURES STRUCTURES STRUCTURES STRUCTURES STRUCTURES DIRE-94.

20— ALL BEAM RENORGEMENT SHALL BE END IN STANDARD HOOKS AS PER ACI 318-14 UNLESS OTHERWISE SHOWN ON DRAWNINGS.

22- ALL OPENING IN CONCRETE WALLS SHALL BE REINFORCED IN THE PERIMETER WITH 2∯5 BARS PLACED 2" FROM THE FACE OF THE WALL AND EXTENDING 2"-0" BEYOND CORNERS.

23- ALL LAPPING, BENDING AND PLACING OF REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH THE ACI 318-08 BUILDING CODE. DO NOT LAP SPLICES AT POINT OF MAXIMUM STRESS. 24— UNLESS SHOWN ON DRAWINGS ALL STEEL REINFORCEMENT ARE MICH. CONTINUOS AND SHALL BE SPLICED AT LIP PORIS. LIP POINT FOR PERNFORCEMENT OF BEAM SHOULD OCCUR IN THE MICHIGAN SHALL PROVINCE OF THE PROPERTY OF SHALL PROVIDED THE SHALL POINT OF SHALL PROVIDED THE SHALL POINT OF ADMINISTRATION OF THE SHALL PROVIDED SHALL BE CAUSED SHALL BE CAUSES "IF PULL TENDER OF THE SHALL PROVIDED SHALL BE CAUSES "IF PULL TENDER OF THE SHALL PROVIDED SHALL BE CAUSES "IF PULL TENDER OF THE SHALL PROVIDED SHALL BE CAUSES "IF PULL TENDER OF THE SHALL PROVIDED SHALL BE CAUSES "IF PULL TENDER OF THE SHALL PROVIDED SHALL BE CAUSES "IF PULL TENDER OF THE SHALL PROVIDED SHALL BE CAUSES "IF PULL TENDER OF THE SHALL PROVIDED SHALL BE CAUSES SHALL BE CAUSES "IF PULL TENDER OF THE SHALL PROVIDED SHALL BE CAUSED SHALL BE CAUSED SHALL BE CAUSED SHALL BE SHALL

25— UNLESS OTHERMISE SHOWN ON DRAWINGS ALL 6" THICK CONCRETE WALL SHALL BE REINF. WITH \$4012" IN EACH DIRECTION, 2\$\$ SHALL BE PLACED AT 2" FROM THE END OF THE WALL MINIMUM REINFORCEMENT FOR WALLS SHALL BE .0025 OF THE GROSS CROSS SCOTONAL AREA.

MANIMAM PENFORCHENT FOR WALLS SHALL BE JOSES OF THE SHALL OF THE WALL
28—FORMADRY FOR FLEDRING ELBERTS SHALL BULLDE THE CHARGE SHOWN ON DEVININGS IN
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30— WELDING OF REINFORCEMENT IS NOT PERMITTED, MECHANICAL SPLICES SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BARS BEING SPLICED AND THEIR USE IS SUBJECT TO THE APPROVAL IN WRITING OF THE STRUCTURAL ENGINEER OF RECORD.

31- WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING ANY OF THE EXISTING REINFORCEMENT.









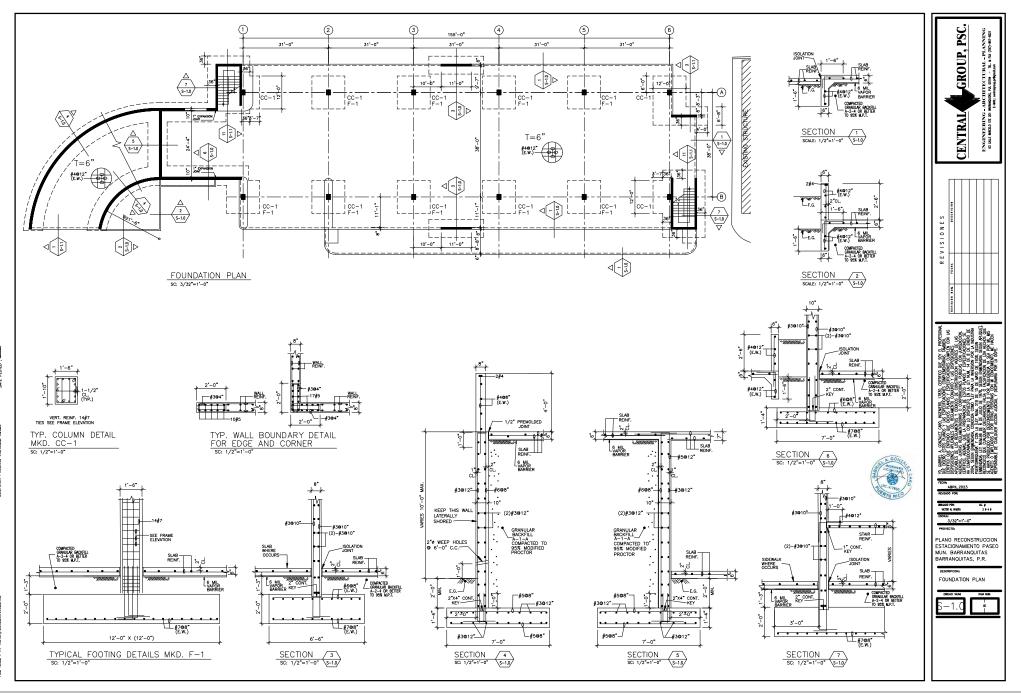
PLANO RECONSTRUCCION ESTACIONAMIENTO PASEO MUN. BARRANQUITAS BARRANQUITAS, P.R.

REINF. CONCRETE

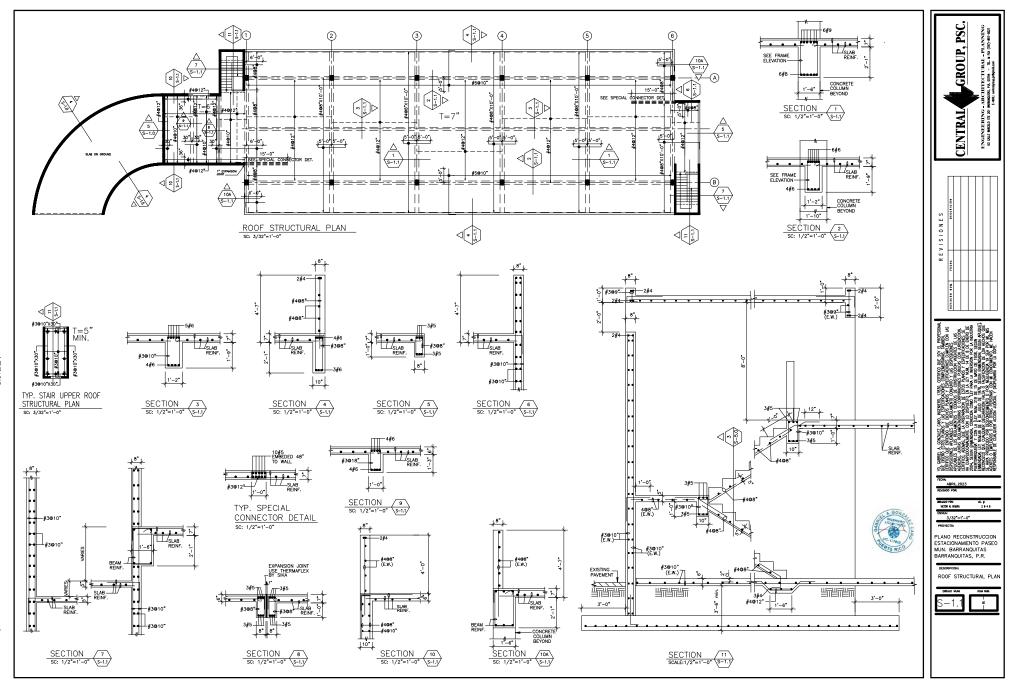
DETAILS & NOTES







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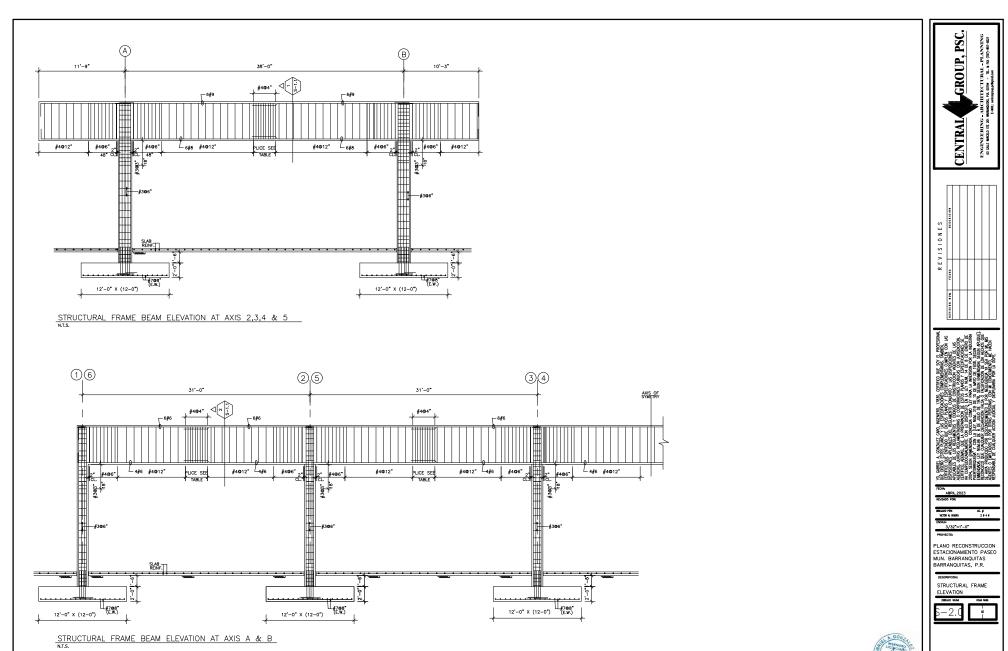
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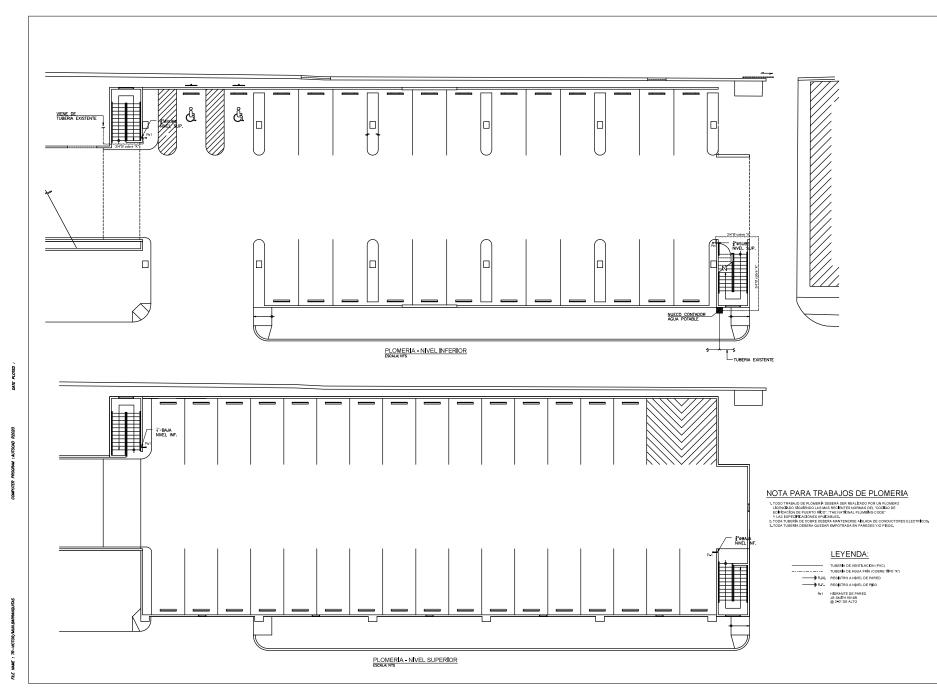
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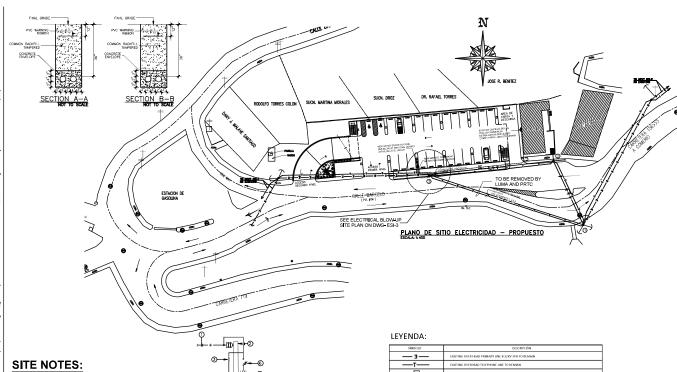
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PLANO CONSTRUCCION ESTACIONAMIENTO PUBLICO MUN. BARRANQUITAS BARRANQUITAS, P.R.

> PLANTAS DE PLOMERIA

P1 17 19

NG. RAFAEL A. ZAYAS ROLON LICENCIA 13248



- 1, ALL WORK ON EXISTING ENERGIZED HIGH VOLTAGE LINES SHALL BE DONE BY P.R.E.P.A. AT CONTRACTOR EXPENSE.
- P.R.E.P. AT CONTRACTOR EXPENSE.

 2. ALL CONSTRUCTION WORK SHALL BE DONE IN A THOROUGH AND WORKMAN KE MANNER. IN ACCORDANCE WITH THE PLANIS. SPECS AND CONSTRUCTION PRAMINGS THE LATEST ECTION OF THE INTRONAL ELECTATIO. CODE SHALL BE POLLOWED EXCEPT WHERE LOCAL REGULATIONS ARE MORE STRINGENT IN THE ACKNET COLOR TO A CONTRACTOR SHALL DOOR FLANT WITH LAMB LOCAL OFFICE. THE POINT OF CONTRACTOR SHALL DOOR FLANT WITH LAMB LOCAL OFFICE THE POINT OF CO
- CONSTRUCTION BEGINS 4. CONSTRUCTION OF NEW LINES SHALL BE DONE BY CONTRACTOR EXCEPT AS
- 5 FOR ALL STANDARDS NUMBER REFER TO LUMA DISTRIBUTION STANDARDS
- 6 METERS SHALL BE BY ALL MEANS ACCESSIBLE TO LUMA.
- 7. TRANSFORMERS SHALL BE SELF COOLED, Oil IMMERSED) WITH 4-2 1/2% VOLTAGE TAPS, BELOW NORMAL PRIMARY RATED VOLTAGE, AS RECUIRED BY LUMA 8. GROUND SYSTEM SHALL HAVE A MAXIMUM RESISTANCE OF 10 OHMS.
- SERVICE DROPS LONGER THAN 75FF, SHALL BE PAID BY THE OWNER OF THE LOT.
 THE LUMA WILL NOT BE LIABLE FOR ANY CHANGE DURING CONSTRUCTION DUE TO TERRAIN CONDITION.
- 11. UP TO ONE MILE FROM SEA SHORE ALL EQUIPMENT SHALL BE STAINLESS STEEL OR GALVANIZED STEEL WITH HEAVY DUTY FENDIX 12. ALL EQUIPMENT SHALL BE CONSTRUCTED ACCORDING TO A.N.S.I., N.E.M.A AND
- LUMA STANDARDS 13 ANY LINE RELOCATIONS SHALL BE FOLIAL OR BEDER THAN THE EXISTING ONE
- AND IN ACCORD TO THE LATEST ENFORCED STANDARDS. 14. ANY CUSTOMER DEMANDING MORE THAN 50 KVA SHALL BE BILLED ACCORDING
- TO PRIMARY RATE GSP-1 BY APPLYING A FIXED PERCENTAGE OF TRANSFORMATION LOSSES TO THE CONSUMPTION AND DEMAND METERED IN THE SECONDARY SIDE.
- 5. PROVIDE ELECTRICAL IDENTIFYING TAPE FOR UNDERGROUND CABLES 6" WIDE YELLOW COLOR, INSTALLED OVER ALL DIRECT BURIAL UNDERGROUND CABLES AND DUCTS AT 12" B.E.G., TAPE SHALL BE PERMANENTLY PRINTED WITH CONTINUOUS BLACK LETTERS 11/2" X 5/8" WITH THI WORD "PELIGRO" PELIGRO" AT THE TOP AND "LINEAS ELECTRICAS DEBAJO" AT BOTTOM.
- 16. THE LUMA SHALL NOT ENERGIZE THIS PROJECT UNTIL THE OWNER HAS GRANTED THE CORRESPONDING RIGHT OF WAY AT P.R.E.P.A. LEGAL DIMISION.
- 17. ALL ELECTRICAL CONSTRUCTION SHALL BE CERTIFIED AND INSPECTED BY AN AUTHORIZED INSPECTOR BEFORE THE CONNECTION TO LUMA ELECTRICAL
- SYSTEM IN ACCORDANCE WITH CERTIFICATIONS LAW, (LAW #7 JULY 1985), 18. ALL TRANSFORMER INSTALLED IN THIS PROJECT MUST COMPLY WITH CIRCULAR 94-06 RELATED TO IMPROVED LOSSES CRITERIA DATED 15 NOV. 94, SEE TABLE ON THE THESE DRAWINGS.

SIMBOLO	DESCRIPCIÓN			
—3—	EXISTING OVER HEAD PRIMARY LINE 8.32KV 3PH TO REMAIN			
—т—	EXISTING OVERHEAD TELEPHONE LINE TO REMIAN			
	EXISTING CONCRETE PRIMARY POLE TO REMAIN			
A	EXISTING POLE MOUNTED DISTRIBUTION TRANSFORMER 37 1/2" KVA TO SERVE AS POINT OF CONNECTION PER LUMA LETTER DATED 1 JINE 22 #23-2-0427			
	UNDERGROUND SECONDARY SERVICE FEEDER PER ELECTRICAL BISER DIAGRAM ELECTRICAL PARIEL NEMA 3R PER SCHEDULE			
	LIGHTING CONTROL PANEL SEE SPECIFICATIONS AND PROGRAMMING			
-	CEILING MOUNTED LIGHTING FISTURE PER SCHEDULE			
ф-	SAME AS ABOVE BUT MOUNTED ON WALL OR COLUMN - COORDINATE HEIGHT WITH ARCHITECTURE			
₽	ARCHITECTURAL COLUMN MOUNTED LIGHT FECTURE COORD. DETAILS WITH ARCHITECT			
\rightarrow	EXISTING DOWN GUY TO REMAIN R MEANS TO BE REMOVED OR RELOCATED AS SHOWN			
) —	NEW PRIMARY GUY LUMA STD. E-1-2-3, TO BE ANCHORED PER DETAIL.			
	NEW SELF SUPPORTED SO FT. SEE IMPORTANT NOTE			
-	METER SOCKET, SEE RISER DIAGRAM			
	UNDERGROUND SERVICE PEDESTAL LUMA STD- UND 27			

ELECTRICAL RISER DIAGRAM

DESCRIPTION: ()

- 1. EXISTING DVERHEAD PRIMARY LINE 832 KV 3 PHASE -4V TO PENAIN
- 2. EXISTING PRIMARY POLE TO REMAIN, SEE BVG E-2
- 3. 6 KV POLE TYPE LIGHTNING ARRESTER
- 4. #4 AWG- HARD DRAWN COPPER GROUNDING CONDUCTOR.
- 5. 5/8" X 8'-0" COPPERVELD GROUND ROD.
- 6. FUSE CUTDUTS, EXISTING TO REMAIN
- 7. PELE MOUNTED TRANSFORMER 37-1/2 KVA. 4.8 KV-120/240V TO REMAIN.
- B. NEW WEATHER SEAL DZ GEDNEY DR SIMILAR.
- UNDERGROUND SECONDARY FEEDER 383/0 & 184 RHH COPPER IN 2' PVC SCH. 40 COMDUIT 36' BFG WITH CONCRETE ENVELOPE AND 2' SPARE CONDUIT.
- 10. CONCRETE ENVELOPE 3" MIN. ARGUND CONDUIT. 11. YELLDW PVC WARNING RIBBON AT 12' B.F.G.
- METER SDCKET AND MAIN C. BREAKER 100A-2P-240V-NEMA 3R AT 6'-0' A.F.F. SEMI FLUSH MOUNTED. 13. LIGHTING AND POWER PANEL (LP) PER SCHEDULE.
- 14. UNDERGROUND SERVICE PEDESTAL LUMA STD- URD-27.
- 15. TERK ASTRONOMICAL TIMER TO CONTROL AT LEAST 6 STATIONS
- 16. SERVICE FROM PEDESTAL TO EACH METER 3 #2 %#8 IN 2'0 PVC SCH 40



Yo, ING, JOSE L, ORTIZ, numero de loomala #6242, contrito que sey el professoral que (confacciono, disaño o propero) estes planos y las especificaciones complementarias. Temédas, ten-dera professora de la professora de la contra y las singuisciones os indipusiones participates del Registredo Conjunt y las singuisciones os indipusiones participates del Registredo Conjunto y las singuisciones contractos de la Registrada de la Seguria de la contractoria del Registrado de las Agentias de la Constitución (Ingente de la Const balmente con lo disquesto en la Ley 14-004, según enmendada, comocida mos IL-Ley para la hirection para la hirutaria Peutroriquesta, y con al IL-Ley Nim. 9 de 15 de mayo de 1938, según entrendada: Ley Nim. 96 de 5 de julio de 19 gión entrendada; según es Jueza, Recorroco que cualque deduración folse de laticación de los hechos que se en paya producido por desconocimiento o por digencia ya sea por mil. mis agentes o enceleados, o por otras personas con in nocimiento, me hacen responsable de cualquera acción pididal y disciplinanta



LOCATION LAMBERT

SCALE: 1 : 20,000

X= 213575.4824 Y= 238982.9952 Lat: 18.18550405 Lon: -66.30501059

IMPORTANT NOTE:

CONTRACTOR TO SUPPLY NEW -50 FT. - S 8 SELF SUPPORTED PRIMARY POLE AND INSTALL NEW S.S. BASE STD-M16-3, M16.4 AND COORDINATE WITH LUMA ESTIMATE TO REPLACE POLE AT CONTRACTORS EXPENSE, TO CONNECT LINES.

- 1. EL DUEÑO DEL PROYECTO SE HARA CARGO DE LA COORDINACION Y COSTOS PARA LA RELOCALIZACION DE LA TOMA DE SERVICIO DEL LOCAL COMERCIAL EL CASTILLO DE LOS POLLOS.
- 2. COMO PARTE DEL PROYECTO, SE RETIRARA LA BASE DE METRO CONTADOR Y TOMA DE SERVICIO EXISTENTE DEDICADO AL ALUMBRADO PUBLICO DEL ESTACIONAMIENTO.

OGPe: 2024-606941-SRI-310632

LUMA: 23-2-0427

Carga: 25 KVA

Proecto: Estacionamiento Publico-Municipio De Barranguitas











ELECTRICAL SITE PLAN

DBUIO NUME ESI-1 18 21

ING RAFAELA.

LUMA REQUIREMENT:

- ESTACIONAMIENTO PUBLICO MUNICIPIO DE BARRANQUITAS Dirección: CARR. 156 KM 16.3, BO. PUEBLO Municipio: BARRANQUITAS
- El Punto de Conexión y centrolde del proyecto está localizado en: Coordenadas proyección en metros +Este +Norte (213576.41, 238970.83). Coordenadas Geográficas Latitud y Longitud (18.1854009, -66.3049935) LUMA/PREPA Reference FID 7039124.
- Durante la Inspección de campo se obsenó la Institución de dos bases de metros contodores omiglios a estructura dentra de las predios del proyecto. Según en nuestro sistema, umo de los stacionamiento político. Se recoministra decalidar la bese de metro contedior del proyecto a una nueva columna en homiglion. Der contenida reducillar la bese de metro contedior del proyecto a una nueva columna en homiglion. Per tonto, el Proyecto se conectorá al Punto de Coneción ledicado en el plora que se incluya.
- Porte de la estructura que se fiene contemplada constituir dentro de las predice, se encuentro presentar l'Inco de Diseño para encoloxi y la Certificación de Planos de Construcción Disertica para la relacciónida de la distribución de indistribución del citario correspondente y la distribución del coloxi proyecto, acompañadas por la Estempla Digital Especial, y Primadas siglas en migrila de la Cificia de General de Familias (COPE), (ver Commission Herolico 18-01 y 17-01); y delevirá cumplir con los siglamiese regionentes, directrices, comunicadas e información tenicio especifica que se presenta a continuación:
- El Diseñador deberá leer y entender este informe en su totalidad. De haber dudas relacionadas al mismo, debe aciarrates con el Superintendente de ingeniería de la Región de Caguas antes de radicar el plano para endoso. En adición, debe incluir y conformar parte del plano las notas pertinentes que se específica como incluir nota al efecto en los planos de diseña".
- Asegurarse que el diseño propuesto cumpla con el Regiamento conjunto para la evaluación y expedición de permisos relacionados al desarrollo, uso de terrenos y operación de negocios del 7 de junio de 2019, los NUEVOS patrones de Construcción de LUMA y los siguientes Comunicados Tecnicos AEE:
- 07-02 Pruebas a cables saternados nuevos y sus accesarios en proyectos privados del 29 de junio de 2007.
- 12-01: Política Pública para la Construcción de Sistemas Eléctricos
- Los Criterios de Diseño para Sistemas Eléctricos Aéreos de Transmisión y Distribución deben ser tomando en consideración una velocidad probable de viento de 160 mph

CALLE BARCELL

SUCN. WARTINA MORALES

- 13-03: Bases de Hormigón para Postes de Líneas Eléctricas.
- 14-03: Equipos con Alslación en Goma de Silicón
- 15-02: Postes para Sistemas de Distribución Eléctrica Primaria
- 15-03: Revisión de Parámetros para Transformadores según Regiamentación del Departamento de Energia Federal (DOE).

- Los sistemas de alumbrado a construirse deberán cumplir con los siguientes Comunicados de la AEE:
- 07-01: Sistemas de Alumbrado
- 16-03: Proyectos de Construcción con Sistemas de Alumbrado Público; esta consulta la podrá realizar a través del correo electrónico: energio@ddec.pr.gov
- 16-04: Instalación de Luminarias Tipo Diodo Emisor de Luz (LED).
- En el sector existen líneas eléctricas aéreas, trifásica con 4 conductores calibre número 336 iv. SPACER a un voltaje de 8.32 kV.
- El voltaje de alimentación para el Proyecto será de 8.32 kV. (Relocalización de infraestructura) El voltaje de alimentación para el Proyecto será de 120/240V. (Proyecto =Base de Contador)
- El diseño podrá ser un sistema aéreo. (Relocalización de Infraestructura)
- El diseño deberá ser un sistema soterrado. (Provecto -Base de Contador)
- Deberá incluir en los planos de diseño las coordenadas Lambert correspondientes a la ubicación Deberá Ynoutri en les pinnes de diseño las coordenades Lambert correspondientes o la ublocolfe el Proyecte, en versión del forth internicon Datum (Mal OS) y la unidad de medidas en en estado en la companio de en el pinno de localización a ser redicado para revisión y ventrala endoso, en une ecodo de 11,000 o 11,200,000, Incluír pinnos en Formato J.MPO o J.MP. en mismo deberá estar georeferenciado. Deberá presentar en los planos, cómputos de corpa, tensión y flecho para las sistemas acrites. y cómputos de cofido de vitrolig por adielette de sistema sortes. y cómputo de sistemas acrites. y cómputos de cofido de vitrolig por adielette de sistema sortes. y computado sistemas acrites. y cómputos de cofido de vitrolig por adielette de sistema sortes. y computado portes de computado en la computación de la computación de la computación sistemas acrites. y cómputos de cofido de vitrolig por adielette de sistema sortes sortes portes de la computación de la computación portes de la computación de la computación portes portes de la computación portes de la computación portes de la
- Para todo servicio de uso exclusivo o lotificaciones, el dueño del proyecto proverá todos los materiales necesorios, incluyesto el transformacior, incluir noto al efecto en los planes de diefeticidad de l'amb de Concedin no constituye una residia de alpina de diener y normas aplicables vigentes para los electricos en Paurio Rico. Además, devere y normas aplicables vigentes para los electricos en Paurio Rico. Además, devere compilir con los regimentos de relevación de la Infrascututar en el espacio público (Regimento de Pienaficación Número 22), según exigo lo Oficino de Grencia de Permisos (OGPe), Los silemas de distribución y transmisión a desarrollares en estas zonas deberán segúr los guídas establecidas por este regiamento, incluir nota al efecto en los planos de dietefo
- El dueño del proyecto o su representante deberá notificarie a la Oficina de Ingeniería de Distribución de la Región correspondiente el comienzo de la obra posterior al endosa de los planos y previo al inicio de los trabajos efectricos del proyecto para la requerida inspección, aprobación y coordinación necesaria. Incluir nota al efecto en los planos de diseño.
- Para servir el Proyecto, el proponente será responsable de la siguiente. Incluir notas al efecto en los planos de diseño:
- Extender el alimentador secundario, soterrado con alsamiento 600V, requerido desde el Punto de Conesión hasta el proyecto. Deberá identificar el Tunto de Entregar en los planos de diseño, según el Reglamento Complementa
- El Dueño del Proyecto deberá confirmar con el Gerente de Distrito Técnico correspondiente el voltaje primario a ser utilizado, previo a la compra de los transformadores.

JOSE R. BENITEZ

STATEMENT STATEM

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DR. RAFAEL TORRES

PLANO DE SITIO ELECTRICIDAD - EXISTENTE

IMPORTANT NOTES

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PRIMARY POLE AND REWINE THE UNDERGROUND SERVICE UP TO
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GALLE BARCELO

- Obtener y gestionar todos los endosos de las agencias reguladoras pertinentes tales como:
- Departamento de Recursos Naturales y Ambientales (DRNA) Declaración de Impacto Ambiental (DIA),
- Instituto de Cultura Puertorriqueña División de Permisos Arqueológicos,
- Cuerpo de Ingenieros de Estados Unidos,
- Departamento de Transportación y Obras Públicas Estatal o Municipal.
- Oficina de Gerencia y Permisos (OGPe),
- Otras agencias gubernamentales, federales y privadas requeridos para el desarrollo del
- Este Proyecto está afectado por líneas eléctricas, por tanto
- El proyecto está afectado por líneos de distribución primorios y/o secundarios, y tensores. Estos ocupan una franja de servidumbre de 10 pies de ancho a la larga de las líneos en el caso de líneos oferos y 5 pies de ancho en caso de líneos soterados.
 - El dueño del proyecto es responsable de cumplir con los requisitos establecidos en el Regiamento de Servidumbres para la Autoridad de Energía Eléctrica.
- Toda nueva servidumbre para constituirse para l'ineas y equipos eléctricos debe cumplir con los requisitos establecidos en el Aplendice B del Regiamento. De igual forma, con los requisitos realcolonodos o los servidumbres asociodos a instalaciones eléctricas existentes en el Grea del
- Luaquier traceja necessir de l'expédier à ce l'expédier à ce l'experie de l'expédier de l'expédier de l'expédier à certainner de l'expédier de l'expédier à certainner de l'expédier de
- No se permite ningara construcción, modiniento de tierra, redisjó ni ninguna actividad incomposible con el derecho de serviciambre establecidos en el terreno. Se refiere ol descrottodos ol regionento 722 de 25 de enerce de 2017, Para Serviciambres Para Lo Autoridad de Energia Electrico (Regionento 722 de 25) y la Ley 143 de 1979 (Ley 143), segon forma de 1979 (Ley 143),
- D Proyecto debe cumpilir con el Regionento Complementario al Código Eléctrico Nacional, Secolin IV. Articulo C y D en su totalidad, Toma de Servicio Aferso Y. Toma de Servicio Setterados S. perentifica como punto de entrego una cuciamina de harmigino conceiniendo de activida en la contra de la complexión de la

Professor Ingeler's Not Interest Intere

CLEARANCES SECTION DETAIL

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- Incluimos como parte de esta evaluación, información aráfica sobre facilidades eléctricas
- Cualquier duda sobre esta evaluación y su contenido, puede comunicarse a nuestra oficina por el 787-521-7918 o vía email a ingenieria.DistribucionCaguas@lurnapr.com
- Esta evaluación coduca al año (1 año) de la fecha de emisión, y cancela y sustituye cualquier otra realizada previamente.



LIFE SAFETY CODE CLEARANCE TABLE

-NEW 50" POLE

	NATURE OF WIRES	COMMUNICATION GUYS	SERVICES GUYS, 0- TO 750-V CABLE	OPEN-SUPPLY WIRES, VOLTAGE TO GROUND		
	CROSSED DVER			0 to 750	750 to 8,700	8,700 to 50,000
	COMMUNICATION CIRCUITS	2	2	4	4	6
	AERIAL SUPPLY CABLES	4	2	5	5	4
	OPEN SUPPLY WIRES, 0 to 750 V	4	2	2	5	4
	OPEN SUPPLY WIRES, 750 to 8,700 V	4	4	2	5	4
	DPEN SUPPLY WIRES, 8,700 to 50,000 V	6	6	4	4	4
)	TROLLEY CONDUCTORS	4	4	4	6	6
	SERVICES, GUYS, LIGHTNING- PROTECTION WIRES	2	2	2	4	4

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OGPe: 2024-606941-SRI-310632

LUMA: 23-2-0427 Carga: 25 KVA

Proecto: Estacionamiento Publico-Municipio De Barranquitas Municipio: Barranquitas

JOSE L. ORTIZ & ASSOC.

Ш PMB 471 PO BOX 2500 TOA BAJA, P.R. 00951 TEL. 795-2840 FAX. 795-2845 ENG. JOSE L. ORTIZ Ile. no. 6242 P.E.

ENDOSO / ENDORSEMENT
ESTACIONAMIENTO
eject Name: PUBLICO BARRANQUITAS, P.R.
jost Number: 23-0-0427
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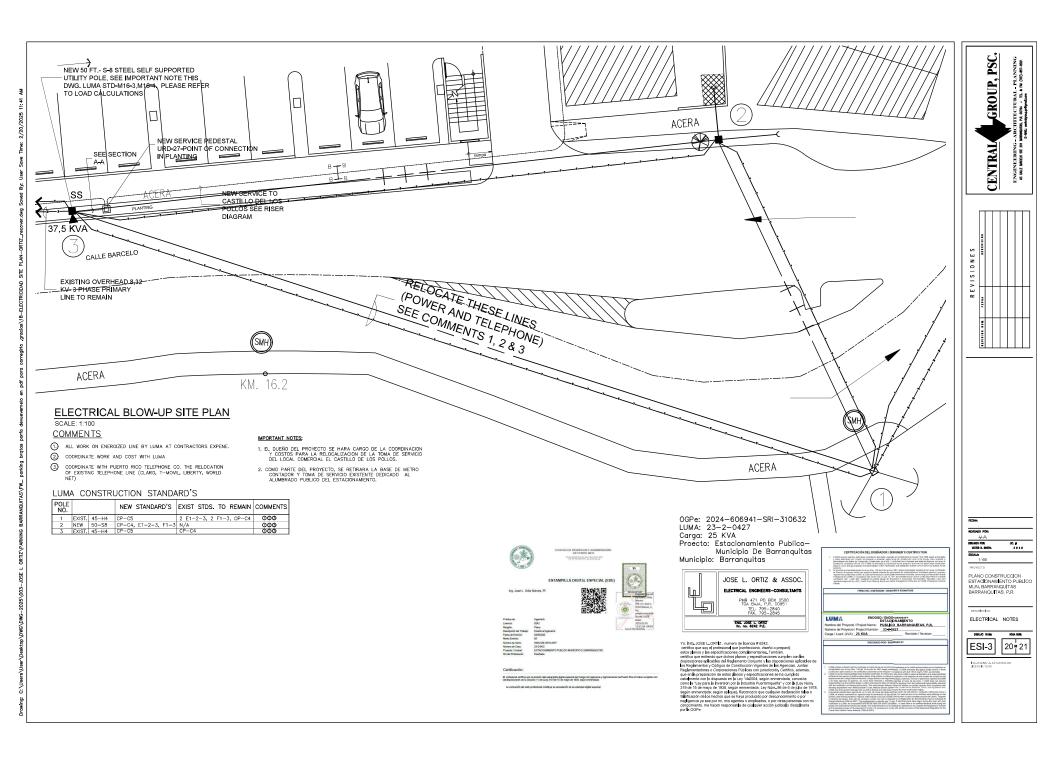
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PLANO CONSTRUCCION ESTACIONAMIENTO PUBLICO MUN BARRANQUITAS BARRANQUITAS, P.R.

DESCRIPCION EXISTING ELECTRICAL

SITE PLAN DIBIUJO NUME ESI-2 19 21



NOTAS GENERALES

- Estos planos coinciden con los planos de inscripción radicados en la Administración de Reglamentos y Permisos (ARPE).
- El dueño del proyecto es responsable de gestionar y obtener, antes de la fecha de comienzo de la obra, todos los endosos, permisos y servidumbres requeridas por entidades gubernamentales, estatoles, municipales, federales y privadas concernientes al desarrollo del tipo de proyecto propuesto.
- El dueño de esta obra tiene que contratar los servicios de un ingeniero El dueno de esta oora tiene que contrator los servicios de un ingenieri licenciado y colegiado que inspeccione la construcción de las obras eléctricas de acuerdo con la Ley Núm. 7 del 19 de julio de 1985, según enmendada, y con el Reglamento de Certificación de Planos de Proyectos de Construcción Electrica de la AEE Vigente. El duesin contrator de la Certificación de este inspector privado tendrá que notificar a la AEE la designación de este inspector privado antes del comienzo del proyecto.
- La ejecución de las obras eléctricas, según diseñadas en estos planos. tal ejecution de las oblas electricas, según insendada en estas priamos, deberá observar la mejor práctica de la industria eléctrica y construcción de acuerdo con las normas y reglamentación adoptadas por la AEE y agencias concernientes, a liquid que con los códigos, NEC y NESC, y demás estándares de IEEE, NFPA, NEMA y ANSI adoptados.
- El contratista no está autorizado a hacer variaciones a este diseño. Es responsabilidad del contratista consultar con el diseñador o inspector designado para esta obra cualquier duda que surja de la interpretación de los planos, de la ejecución de las obras propuestas, especificaciones técnicas o discrepancias entre las condiciones existentes en el campo y aquellas utilizadas para propósitos de diseño.
- El dueño o contratista eléctrico notificará a la AEE el comienzo de estas obras, mediante la entrega del documento Notificación de Comienzo de Proyecto en el Departamento de Ingeniería de Distribución de la Región correspondiente, con por lo menos quince días de anticipación a la fecha propuesta.
- El inspector privado y el contratista eléctrico son responsobles de asistir a una reunión de preconstrucción a coordinarse con el Departamento de Ingeniería de Distribución de la Región correspondiente.
- Todo trabajo a realizarse en líneas energizadas, incluyendo la conexión de esta obra, tiene que ser realizado por la AEE. El proponente tiene que asumir todos los costos de equipo, materiales y labor. El proponente tiene que ositione de AEE un estimado para estos trabajos, el cual tendrá una vigencia de tres meses desde su
- Se prohíbe la realización de cualquier tipo de trabajo en las franjas de servidumbre eléctrica sin la autorización por escrito de la AEE.
- 10. La AEE no aprobará la conexión de proyectos con condiciones de invasión de servidumbre o que no cumplan con los despejos de seguridad requeridos.

NOTAS ESPECIALES

- 1. El dueño del proyecto aportará a la AEE:
- la cantidad de \$___N/A___ para mejoras al sistema eléctrico
- las obras requeridas en la evaluación para este proyecto del __ Cobrar las Aportaciones de Personas o Instituciones en Proyectos de Desarrollo vigente.
- La AEE no conectará el proyecto a su sistema eléctrico hasta tanto el dueño constituya las servidumores requeridas de acuerdo con el Reglamento do Servidumbres para la Autoridad de Energia Eléctrico. Esta nota aplica a toda servidumbre requerida, ya sea dentro como fuero de los límites del preyecto.
- La instalación de sistemas de medición tiene que coordinorse con la Oficina de Medición de la región correspondiente. El diseñador o el contratista efectrica tiene que asegurarse de consultar con esta oficina sobre los equipos y materiales a utilizarse además de la ubiacción del equipo.
- La instalación de subestaciones, transformadores u otro equipo eléctrico sobre sistemas de alcantarillado. Iíneas de aqua u otras utilidades está prohibida.

MATERIALES

- Todos los equipos a utilizarse en la construcción tienen que cumplir con los estándares de IEEE, ANSI, NEMA y ASTM.
- El contratisto es responsable de verificar con la AEE que todo materiol o equipo a utilizarse esté aprobado por la AEE previo a su instalación. La AEE se reserva el derecho de aceptar cualquier equipo que se le vaya a transfer.
- Todo equipo y material (incluyendo transformadores y gabinetes de subestaciones) a ser instalados a una milla o menos de distancia de cuerpos de gaua salada tiene que ser construido en acero inoxidable. con excepción de las bases de medidores.
- En los sistemas soterrados, tienen que utilizarse cobles primarios con terminaciones de 15 kV para voltajes de distribución y de 46 kV para l'íneas de 38 kV.
- En los sistemas aéreos, tienen que utilizarse aisladores de polímero de 15 kV para voltajes de distribución y de 46 kV para líneas de 38 kV.
- El contratista será responsable de rotular todo transformador a ser transferido a la AEE con un rúmero de propiedad provisto por el Deportamento de Ingeniería de Distribución correspondiente

- El dueño del proyecto es responsable de realizar las pruebas de los El dueno del proyecto es responsacione de realizor las pruebas de los cables primarios y secundorisco ano sus terminaciones. Los resultados de astas pruebas la tenem que estas race acuerdos con los parámetros establecidos pruebas la del perio a mísmos. Estas pruebas tienen que realizarse en coordinación con un representante de la Oficina de inspecciones del Departamento de Ingeniera de Distribución de laspecciones. correspondiente.
- 2. Durante la instalación del cable, éste debe estar protegido de la humedad y abrasiones. El contratista es responsable de instalar el cable mediante las prácticas recomendadas de halado pora no exceder la tensión específicada para el cable.
- 3. Las tapas de registros (manholes) a ser instalados en el área de siembra tienen que estar protegidas mediante una loza de hormigón reforzado, según especificado en el patrón URD 🛮 52.
- En aquellos casos donde el proyecto esté localizado a menos de una milla de cuerpos de agua solado, los conductos oscendentes tienen qu ser de PVC Schedule 80 o de fiberglass, según aprobado por la AEE.
- Las bancadas del sistema soterrado serán inspeccionados por la AEE antes de ser cubiertas y compactadas.
- 6. Todo bancada expuesta a tráfico vehicular tendrá que ser protecida con hormigón. Aquellas que se encuentren cerca de instalaciones de otras utilidades tendrán un despejo mínimo de 13 pulgados de éstas
- La cantidad de fusibles de remplazo que proveerá el contratista será la misma cantidad de los instalados en cada subestación.
- Los conectores que se utilizarán para la conexión a tierra de antenas y subestaciones serán de soldadura exotérmica (thermo-weld) o de
- 9. El contratista proveerá cable de halado (fishwire) en cada conducto de resquardo.
- 10. Todo sistema de distribución tendrá una resistencia máxima a tierra de 100 chmios. Se instalará una varilla para conectar a tierra el en cada cuatro postes o cada 1,000 pies y en todos los transformadores.
- Cada base de hormigón para poste tiene que incluir dos conductos de resquardo para uso futuro, según requerido por la AEE.
- 12. Las bases para postes tienen que ser inspeccionados por la AEE en su

OGPe: 2024-606941-SRI-310632 LUMA: 23-2-0427

Caraa: 25 KVA

Proecto: Estacionamiento Publico-Municipio De Barranauitas Municipio: Barranquitas

> JOSE L. ORTIZ & ASSOC. ш ELECTRICAL ENGINEERS-CONSULTANTS PMB 471 PO BOX 2500 TOA BAIA P.R. 00951 TEL, 795-2840 FAX, 795-2845



ENDOSO / ENDOSOEMENT ESTACIONAMIENTO ombre del Proyecto / Project Name: PUBLICO BARRANQUITAS, P.R.
úmero de Proyecto / Project Number: 23 0 0427
arga / Loed: (kVA): 25 KVA Revisión / Revisión / Revisión:



El profesional certifica con la emisión de la estampilla digital especial del Colegio de Ingenieros y las disposiciones de la Sección 11 de la Ley 312 del 15 de mays de 1208, según enmentada.

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ELECTRICAL NOTES

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Attachment 11. TUC Map

PR-CRP-000988 Barranquitas - Construction of New Public Parking

Coord: 18.185505, -66.305029

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranquitas, PR 00794





Fuente: Junta de Planificación, Departamento de la Vivienda.

SPCS PR & VI NAD83 WKID:32161



Centro Urbano Municipio de Barranquitas



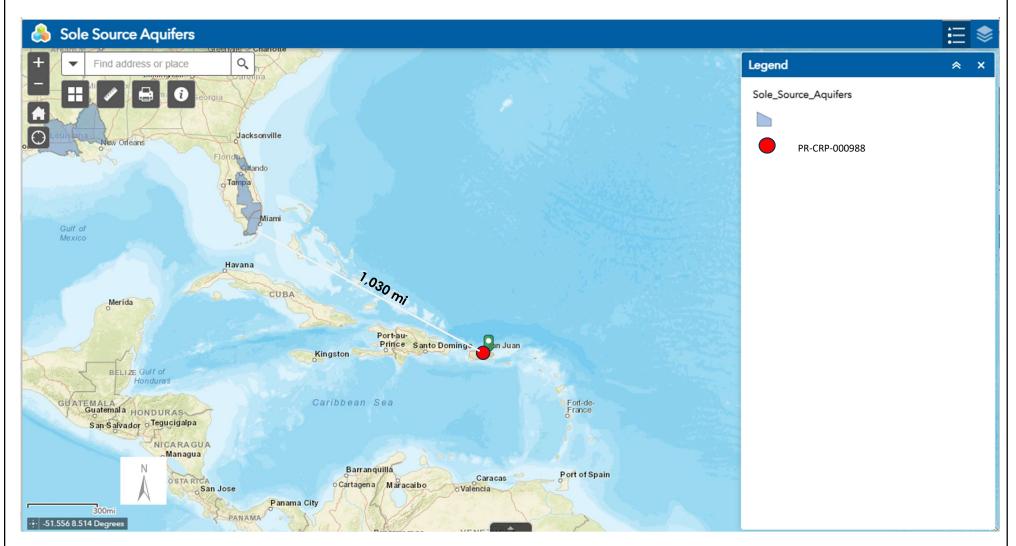
Source: Puerto Rico State Historic Preservation Office (SHPO) at URL https://prahadigital.org/s/flmm_en/page/state-historic-preservation-office

Attachment 12. Sole Source Aquifers Map

PR-CRP-000988 Barranquitas - Construction of New Public Parking

Coord: 18.185505, -66.305029

Address: State Road PR-156 Km 16.3, Pueblo Ward, Barranquitas, PR 00794



Source: U.S. EPA Map of Sole Source Aquifer Locations (Spatial Reference: WGS84), accessed at URL https://www.epa.gov/dwssa/map-sole-source-aquifer-locations

Prepared by

Attachment 13. Wetlands Map

Address: State Road PR-156 Km 16.3, Pueblo Ward,

Barranquitas, PR 00794

Coordinates: Lat: 18.18552356, Lon: -66.30475436







Attachment 14. Wild and Scenic Rivers Map

Address: State Road PR-156 Km 16.3, Pueblo Ward,

Barranquitas, PR 00794

Coordinates: 18.185505, -66.305029









Source: US Forest Service (USFS) (Spatial Reference: WGS84), URL https://www.arcgis.com/home/webmap/viewer.html? panel=gallery&layers=a37eb56966cc4b11b69909e288414e53

Attachment 15. Land Use Plan (PUT) Map Address:

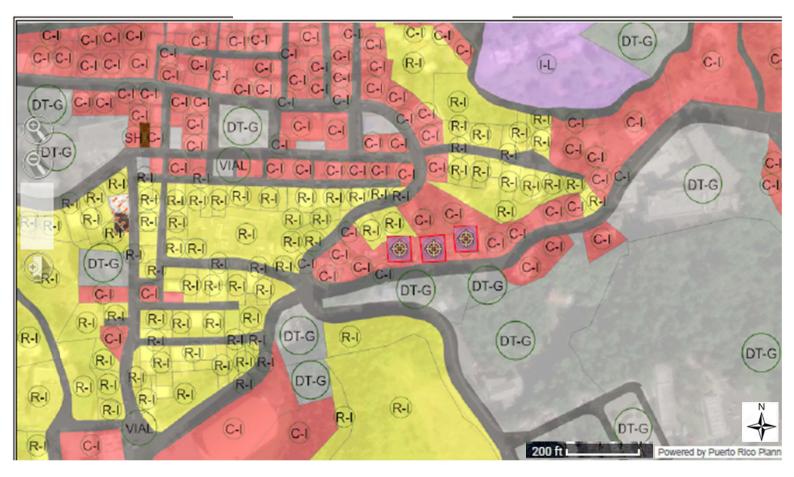
State Road PR-156 Km 16.3, Pueblo Ward,

Barranquitas, PR 00794

Coordinates: 18.185505, -66.305029









Source: Puerto Rico Planning Board (Spatial Reference: NAD 83) URL https://gis.jp.pr.gov/mipr/?_ga=2.179884384.57385 5578.1749479750-1975718757.1701700188&_gl=1*19zkayv *_ga*MTk3NTcxO

Dc1Ny4xNzAxNzAwMTg4*_ga_S4HGD1915F*czE3NDk1MD A0MjAkbzEyOSRnMCR0MTc0OTUwMDQyMCRqNjAkbDAka DA.*_ga_Z7MEG30P8C*czE3NDk1MDA0MjAkbzEyOSRnMC R0MTc0OTUwMDQyMCRqNjAkbDAkaDA.

Attachment 16

Geotechnical Report



SUBSOIL EXPLORATION AND
GEOTECHNICAL ENGINEERING REPORT FOR
TWO STORY PARKING BUILDING
BARRANQUITAS, PUERTO RICO





SUBSOIL EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT FOR TWO STORY PARKING BUILDING BARRANQUITAS, PUERTO RICO

Central Group Engineering Services, PSC
CLIENT/DESIGNER

Geotechnical Engineering Services, PSC
GEOTECHNICAL CONSULTANTS

Submitted on July 19, 2023 Job No. <u>234119</u>





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2.0	SITE LOCATION AND PROJECT DESCRIPTION
3.0	WORK PERFORMED -2-
4.0	SUBSOIL CONDITIONS -2-
5.0	GROUNDWATER4-
6.0	GENERAL4-
7.0	DISCUSSION
8.0	ENGINEERING RECOMMENDATIONS-5-8.1 Foundation-5-8.2 Excavation Recommendations-8-8.3 General Earthwork Recommendations-10-
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	Figures
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SUBSOIL EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT FOR TWO STORY PARKING BUILDING BARRANQUITAS, PUERTO RICO

1.0 Introduction

The existing municipal on ground parking lot will be redeveloped as a two-story parking building, located at Barceló Street, in the town of Barranquitas, Puerto Rico. As per the request of the office of Central Group Engineering Services, PSC, designers of the project, GEOTECHNICAL ENGINEERING SERVICES, PSC, performed a subsoil exploration at the site of the reference project.

The purpose of the exploration was to establish the physical properties of the underlying subsurface soils' formation in order to evaluate and recommend the soil parameters required for the design of the foundation system of 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.

2.0 SITE LOCATION AND PROJECT DESCRIPTION

The parking lot is located at PR-156, in the vicinity of Kilometer 16.2, in the municipality of Barranquitas, Puerto Rico. **Figure 1**, shows a Google Earth aerial photo, with the site location depicted on it. The proposed project consists in the construction of a two-story concrete building supported over twelve columns. At the west side of the lot, the access ramp to the second floor will be constructed with upgrading fills in the order of 2.5 to 3.0 meters high, hence a retaining wall will be required. The site, which is cover with an asphalt pavement is relatively leveled, but the area was heavily upgraded in the past. At the northwest side of the lot, apparently, a 5-foot pipe cross the site.



3.0 WORK PERFORMED

Four (4) borings were drilled to cover the proposed building footprint to depths of 20 and 25 feet. **Figure 2**, shows a site plan with the borings approximately depicted on it.

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 structure.

4.0 SUBSOIL CONDITIONS

Borings revealed an upper fill layer consisting of silty angular gravel with some sand, trace to little clay, and sometimes with trace wood pieces. Colors of samples varied from yellowish brown to dark yellowish brown, dark olive gray, reddish brown, and dark greenish gray. Standard Penetration Test N-values ranged from 9 to 33 blows per foot, which represent a loose to dense state of relative density. This fill layer extends erratically thru the site from 1 to 23 feet.

Underlaying this upper crust of fill at Boring 1, another fill layer consisting of silty clay with some sand and with little angular gravel, was found. A concrete obstruction was found at a depth of approximately 18 feet. Colors of samples varied from yellowish brown to reddish brown, and black. Consistency, based only on Standard Penetration Test N-values, varied from stiff to hard. The natural moisture content of samples secured ranged from 24 to 27 percent. This fill layer extends to the full depth drilled at Boring 1. This clayey fill layer was also found interbedded in the silty angular gravel fill crust at Boring 2, from approximately 13 to 18 feet, with similar properties.

Underlaying the silty angular fill layer at Boring 2, another fill stratum consisting of silty sand with trace to little gravel, trace clay and with trace wood pieces, was found. Colors of sample varied from weak red to dark yellowish brown, reddish brown, and dark greenish gray. Standard Penetration Test N-value was 26 blows per foot, which represents a medium dense state of relative density. This fill stratum extends to the full depth drilled.



Table 1, shows the extension of the entire fill mass at each boring.

TABLE #1

Boring #	Depth of fill (feet)		
1	>18 (concrete obstruction at 18 feet)		
2	>25		
3	1		
4	4.5		

Underlaying the silty angular gravel fill layer at Borings 3 and 4, an in-situ layer consisting of silty clay with trace to some sand, and with trace to little gravel, was encountered. Colors of samples varied from reddish brown to yellowish brown, sometimes with black oxidation stains. Consistency, based on Standard Penetration Test N-values and unconfined compressive strength data, varied from medium to hard. The natural moisture content of samples secured ranged from 35 to 44 percent, while the unconfined compressive strength data varied from 2.00 to more than 4.50 tons per square foot. This layer extends to a depth of approximately 18 feet at Boring 3, and to a depth of 14 feet at Boring 4.

Underlaying this silty clay layer, a stratum consisting of sandy silt with trace angular gravel and sometimes with trace to little clay, was encountered. Colors of samples varied from yellowish brown to olive, reddish brown, dark brown, and strong brown, with black oxidation veins. Standard Penetration Test N-values ranged from 13 to 29 blows per foot. The natural moisture content of samples secured varied from 24 to 37 percent. This stratum extends to the full depth drilled at Boring 3 and to a depth of approximately 18 feet at Boring 4.

Underlaying this stratum at Boring 4, an in-situ horizon consisting of highly weathered to decomposed rock, sampled as; Silty angular gravel with some sand and sometimes with clayey silt pockets, was encountered. Colors of samples varied from olive to dark olive gray, dark yellowish brown, dark greenish gray, and black. Standard Penetration Test N-values ranged from 17 to 60 blows per foot, which represents a medium to very dense state of relative density. This horizon extends to the full depth drilled.



5.0 GROUNDWATER

Groundwater level was not detected within the range of depth drilled. However, it is not possible to properly determine the groundwater level within the normal scope of the test hole exploration. Therefore, the fact of observing the water table during the drilling operations, 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 drilled revealed a thick erratic fill crust at the north side of the parking and mostly in-situ soils at the south side. Moreover, apparently a 5-foot concrete pipe cross the site at a depth of some 23 feet deep, since a concrete obstruction was found at a depth of 18 feet. The exact pipeline alignment is unknown, however, it seems that the fill embankment to create the access ramp and various footings will be placed over the pipe. This scenario will bring differential settlements between the north and south axises of columns which will cause aesthetic, architectonic, and structural damages to the proposed parking building. Also, the upgrading fill required to create the access ramp to the second level, will provoke total settlements that might endanger the structural integrity of the pipe (if any). Hence, in order to built the proposed parking building, the north alignment of columns as well as the area of the access ramp (including the retaining wall), a subsurface treatment will need to be performed, in order to reduce the expected total and differential settlements. The improvement will consist of using intermediate foundations. This intermediate foundation system consists of inserting rammed gravel columns, in order to improve the poor bearing and settlement susceptible layers found at the site, where the created columns will carry most of the proposed structure loads. This intermediate foundation system is called Geopiers®.



As shown in **Figure 3**, a Geopier element is a dense, aggregate pier constructed in a pre-excavated hole with equipment that imposes significantly lateral prestress into the undisturbed soils surrounding the element. These holes typically range from 18" to 36" in diameter and are excavated by conventional drilling techniques, using either truck-mounted augering equipment or "dangle drill" equipment mounted on an excavator or crane. The Geopier foundation system should be used at the north axis of columns and at the ramp area.

For the soil conditions found in this particular site, the aggregate used for pier construction should be high quality crushed rock, such as used for highway base course construction. Geopiers depth should be in the order of 6 to 8 feet.

The south side of columns can be placed over conventional isolated footings cast over in-situ soils found at a depth of 5 feet.

General recommendations for excavations and earthwork operations to be followed by the contractor during construction are provided in the next section.

8.0 ENGINEERING RECOMMENDATIONS

8.1 Foundation

Settlement analyses performed for a typical spread footing some 6' by 6' bearing 2,500 psf show about 2.5 to 3 inches of settlement for the soil conditions disclosed by borings. Higher settlements were obtained for higher net contact pressures. Taking into account these results, it is concluded that the north axis of columns and the access ramp (including the retaining wall) should be built over treated soils to reduce the potential for settlements and improve their bearing capacity.

Since the old fills go down to a depth of approximately 25 feet and a pipeline run somewhere within the project site, the alternative of soil removal and substitution is not considered practical (as it will require deep excavations and bracing). As a feasible alternative, and as previously mentioned, the referenced structures can consider the use of



rammed aggregate piers (*Geopiers*) to support structural loads. The Geopier system is a foundation support on soft and/or loose soil sites and provides an alternative to deep piles/caissons and over-excavation and replacement filling.

By constructing Geopier elements some 24 to 30 inches in diameter, spaced at some 48 inches center-to-center, the Geopier-reinforced soil mass experiences significant permanent pre-stressing, which will allows spread and strip footings to be designed based on an allowable soil bearing pressure of 4,000 psf.

The coverage ratio of geopiers below spread or strip footings should be at least 40 percent for a maximum expected settlement of 1 inch. For example, a spread footing measuring 36 ft² (6' by 6') needs to be placed over 5 Geopiers 24" in diameter, as illustrated in the following **Figure 4**.

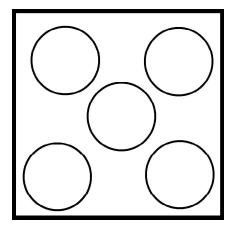


Figure 4; Five geopiers within 6'x6' spread footing (Qall=4 ksf)

For the case of strip or wall footings, one line of 24" to 30" diameter Geopiers spaced at some 48 inches c-c can be considered below a strip footing up to 3 feet wide for an allowable bearing pressure of 2,500 psf, as shown in **Figure**5. Settlements in exceed of 1 inch should not be expected.



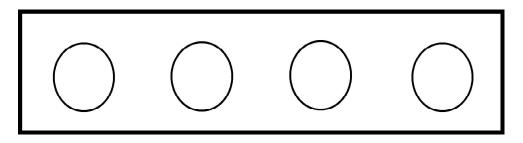


Figure 5; Geopiers aligned at 48" c-c within 3 feet wide strip footing

It is important to point out that, that the Geopiers® system is a trademark product, with in-house software and design procedures. Hence, the preliminary recommendations presented in this report need to be evaluated by the Geopiers® design team, and amended accordingly. For example, length of embedment and spacing, shall be determined by them, based on actual structures loads and the subsoil conditions presented in our report.

Geopier company should be considered as part of the design team, and not a subcontractor of the project.

Geopier company provides design recommendations and specifications to the designers, as part of their services.

The footings at the north axis may be dimensioned on the basis of an allowable soil bearing pressure of 4,000 psf. Depth of foundation (D_f) shall not be shallower than 5 feet below existing grade. 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 0.75 of an inch between nearby footings, should be considered in the design.

The excavated soils shall not be used as backfill.



8.2 Excavation Recommendations

An excavation of about 5 feet is expected at each column's location. Our calculations indicate that a slope ratio of 1:1 (H:V) to a maximum depth of five (5) feet should be used to reach an adequate factor of safety (FS) for the temporary slopes (a 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.

If the minimum buffer zone cannot be guaranteed, there is need to use a braced excavation. 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 through 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 structures 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 techniques 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.

Before the excavation or undercut starts, 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 such excavation has been reached (5 feet deep), 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.

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 excavations shall be performed on a controlled way.

After a rain event, water inside any open excavation shall be pumped out immediately.



8.3 General Earthwork Recommendations

Earthwork conducted at the site should follow the general guidelines provided below.

8.3.1 Site Preparation

1. Clearing and Grubbing

The site should be cleared of all surface and subsurface deleterious materials, including trees, brush, stumps, logs and tree roots, garbage, construction debris, buried utility lines, structures, old slabs, old footings, pavements, etc.

2. Stripping/Excavation

After clearing the site, should be stripped to sufficient depth to remove topsoil, old fills, and poor bearing soils (approx. 24 inches at the access ramp area). Excavations of five feet are expected at each column.

However, actual depth of removal should be determined directly at the field during earthwork operations. Any rubbish, organic, or other deleterious material encountered during excavation operations will be removed to its full depth, disposed and excavation backfilled under controlled conditions as specified further in this section.

3. Fill Areas/Proof Rolling

Prior to placing any needed fill in the area, an inspection of the area is to be made by a Geotechnical inspector. Proof rolling with at least a 15 tons smooth wheel roller (at the area of the access ramp), under the presence of a Geotechnical Engineer or his representative, shall be used to detected the presence of soft spots. Any soft spot detected shall be completely removed, and replaced with selected fill properly compacted.

4. Compaction

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.

5. Equipment Procedure

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.

6. Moisture Content

The moisture content of the fill material, prior to compaction, should be within the limits of 4% less than or 4% greater than the optimum, as determined by the Modified Proctor Test.

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 in-place density tests conducted by the Soils Consultant (at the Resident Engineer's request) by nuclear testing procedures, according 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.



8.3.2 Fill Material

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 (GM, SW, SP, SM, or SC, Unified Soil Classification System; or A-2-6, A-2-4, A-1-b, 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.

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. 234119 July 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



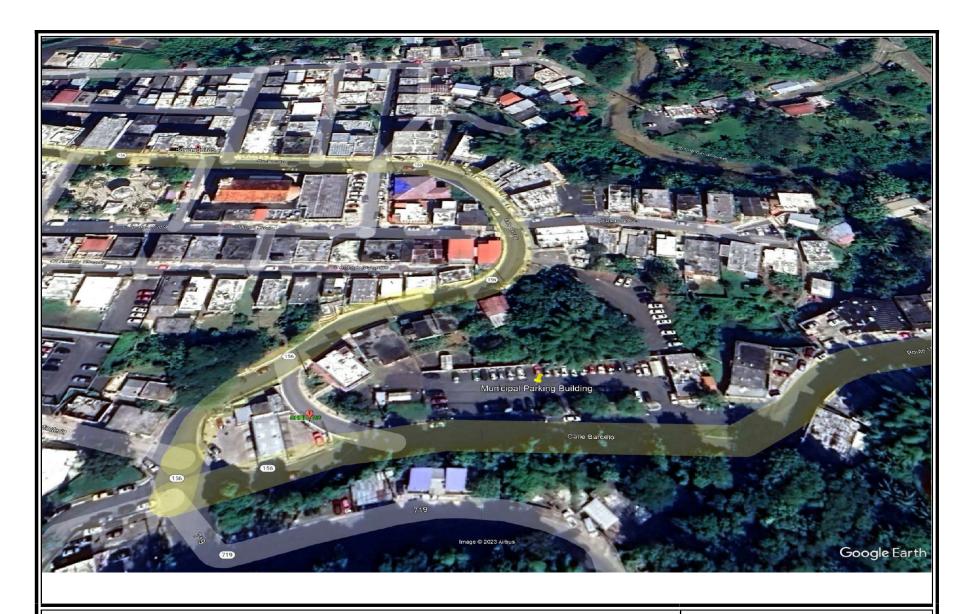


FIGURE 1 - SITE LOCATION ON GOOGLE EARTH PHOTO TWO STORY PARKING BUILDING BARRANQUITAS, PUERTO RICO



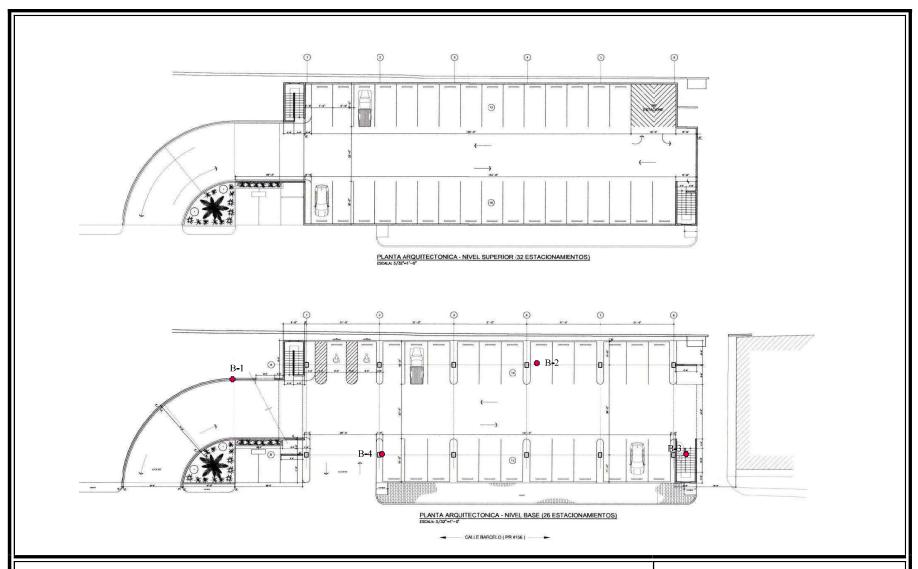
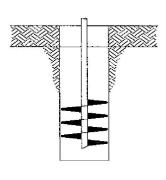
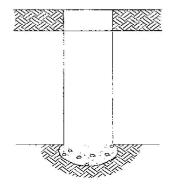


FIGURE 2 - BORINGS LOCATION PLAN TWO STORY PARKING BUILDING BARRANQUITAS, PUERTO RICO

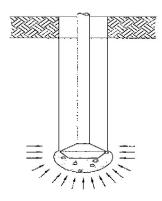




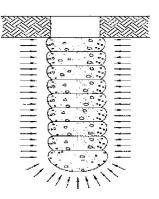
1. DRILL A CAVITY



2. PLACE CLEAN STONE AT BOTTOM OF CAVITY



3. MAKE A BOTTOM BULB



4. BUILD GEOPIER SHAFT WITH 0.3 m THICK LAYERS OF HIGHWAY BASE AGGREGATE

FIGURE 3 - GEOPIER ELEMENT TWO STORY PARKING BUILDING BARRANQUITAS, PUERTO RICO





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





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		1	24		11-8-7-10	15		. 17						ychowish	gravel, some sand, trace clay, brown, dark olive gray.	
_	*	2	24		9-9-9-7	18		8							oove, yellowish brown.	L
5	*	3	24		10-8-25-22	33		7							ame as above.	L
	*	4	24		10-8-8-8	16		14							ame as above.	
10	*	5	24		6-4-5-4	9		20						Same as above, trace to little clay.		
15	*	6	24		7-6-7-7	13		27							me sand, little angular gravel, wn, reddish brown, black.	F
20	*	7	24		50/2"	50/2"		24							ele gravel, concrete obstruction. f boring at 20 feet.	
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Project N	lame:					Build	ing				Lo	cation	: PR-	-156 Km 16.2 Water Table: N.		
1		Barr	anquita		rto Rico		1.023	-	_	_	Dri	ll Ma	chine:	CME-55	Our Job No.: 234119	_
Depth (ft.)	Sampler Type	Sample No.	Sample Length (in.)	Sample Recovery (in.)	Blows/6"	SPT N-Value	RQD %	W _n	W _p	w ₁	I _p	USCS Class.	Soil Pattern		Description	Ou (tst)
	*	1	24		12-12-7-6	19		10						clay, yellowish b	gravel, some sand, trace to little rown, dark yellowish brown.	
	*	2	24		8-9-12-10	21		11							as above, trace clay.	L
5	*	3	24		12-8-8-6	16		8								L
		4	24		8-13-6-7	19		6						Same as above, trace to little clay, yellowish brown, reddish brown. Same as above.		L
10	*	5	24		6-4-5-4	9		13						Same as above.		
15	*	6	24		6-5-10-16	15		27						Fill: Silty clay, some sand, little angular grave yellowish brown, reddish brown, weak red, oliv black.		
20	*	7	24		9-16-13-17	29		20						Fill: Silty angular gravel, some sand, little clay trace wood pieces, dark yellowish brown, yellowish brown, weak red, dark olive, dark greenish gray, reddish brown.		
25	.*	8	24		12-12-14-16	26		32						race wood pieces, v	race to little gravel, trace clay, weak red, dark yellowish brown, wn, dark greenish gray.	
30														End o	f boring at 25 feet.	
omments:	N.D		oon Sam Detecte												West	_
ammer W							Page	l of l				Sampl	er Size:	2' x 2" O.D.	Foreman: J.L. Rodriguez	



Geotechnical Engineering								Da	te: 6/	26/20	23	Elevation:				
er	-				vices, PSC								No.: 3		Code No.:	
Project !	Name				ipal Parking	Build	ing				Lo	cation	: PR-	-156 Km 16.2 Water Table: N.D		
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Depth (ft.)	Sampler Type	Sample No.	Sample Length (in.)	Sample Recovery (in.)	Blows/5"	SPT N-Value	RQD %	W _{II}	W _p	W ₁ %	Ip %	USCS Class.	Soil Pattern		Description	On the O
	*	1	24		14-7-5-8	12		30					iii		r gravel, some sand, yellowish brown.	4.0
	*	2	24		7-8-10-10	18		35					M	AND THE PERSON NAMED IN COLUMN TO SERVICE OF	sand and fine gravel, reddish brown.	4.5
5	*	3	24		4-6-8-8	14		36						S	ame as above. ame as above.	3.2
_	*	4	24		7-8-8-7	16		44							ame as above.	3.3
10	+	5	24		4-4-6-10	10		38						Same as above, reddish brown, yellowish bro olive.		2.0
=		-	27			22								Same as above, so	ome sand, trace to little gravel.	
15	*	6	24		6-11-11-10	22		38						40 CO		3.
20	*	7	24		7-12-17-18	29		37						Sandy silt, trace gr brown, dark br	ravel, yellowish brown, reddish own, black oxidation veins.	
	*	8	20			200									ace to little clay, strong brown, lack oxidation veins.	
25	*	8	24		10-13-16-22	29	× -	24					1:1:1:1	The Control of the Co	f boring at 25 feet.	+
														110.00%		
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ammer W	W. 100	140 lb					Page	1 of 1				Sampl	er Size:	2' x 2" O.D.	Foreman: J.L. Rodriguez	
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* 1 24 7-5-6-5 11 15 clay, dark Same as about 5	
Barranquitas, Puerto Rico Drill Machine: CME-55	
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* 1 24 7-5-6-5 11 15 * 2 24 8-8-9-10 17 9 * 3 24 6-2-3-6 5 36 Silty clay * 4 24 8-7-9-9 16 41 10 * 5 24 6-6-8-10 14 42 115 * 6 24 4-5-8-10 13 36 Same as above the second of the s	
* 1 24 7-5-6-5 11 15 * 2 24 8-8-9-10 17 9 * 3 24 6-2-3-6 5 36 Silty clay * 4 24 8-7-9-9 16 41 10 * 5 24 6-6-8-10 14 42 15 * 6 24 4-5-8-10 13 36 Same as ab	Description (g)
* 2 24 8-8-9-10 17 9 * 3 24 6-2-3-6 5 36 Silty clay * 4 24 8-7-9-9 16 41 10 * 5 24 6-6-8-10 14 42 15 * 6 24 4-5-8-10 13 36 Same as at 20 * 7 24 9-8-9-9 17 14 Same as at Highly weat Silty angula Same as at	ngular gravel, some sand, trace to little yellowish brown, dark greenish gray.
* 4 24 8-7-9-9 16 41 Same as at 10 * 5 24 6-6-8-10 14 42	ove, trace clay, dark yellowish brown. Same as above.
10 * 5 24 6-6-8-10 14 42 15 * 6 24 4-5-8-10 13 36 Sandy silt, 20 * 7 24 9-8-9-9 17 14 Silty angula Same as a	y, trace sand and fine gravel, reddish brown.
15 * 6 24 4-5-8-10 13 36 Sandy silt, 20 * 7 24 9-8-9-9 17 14 Highly weat Silty angula Same as a	bove, reddish brown, black oxidation stains. 3.00
20 * 7 24 9-8-9-9 17 14 Highly weat Silty angula	Same as above.
20 * 7 24 9-8-9-9 17 14 Highly weat Silty angula	Same as above.
20 * 7 24 9-8-9-9 17 14 Silty angula Same as a	trace angular gravel, olive, yellowish brown, black.
	thered to decomposed rock sampled as: ar gravel, some sand, olive, dark olive gray, black.
	above, trace clayey silt pockets, dark wish brown, dark greenish gray.
30	End of boring at 25 feet.
Comments: * Split Spoon Sampler N.D Not Detected	Te
Iammer Weight: Page 1 of 1 Sampler Size: 140 lb 2' x 2" O.D.	Foreman: J.L. Rodriguez

Attachment 17. Emergency Facilities Location Map

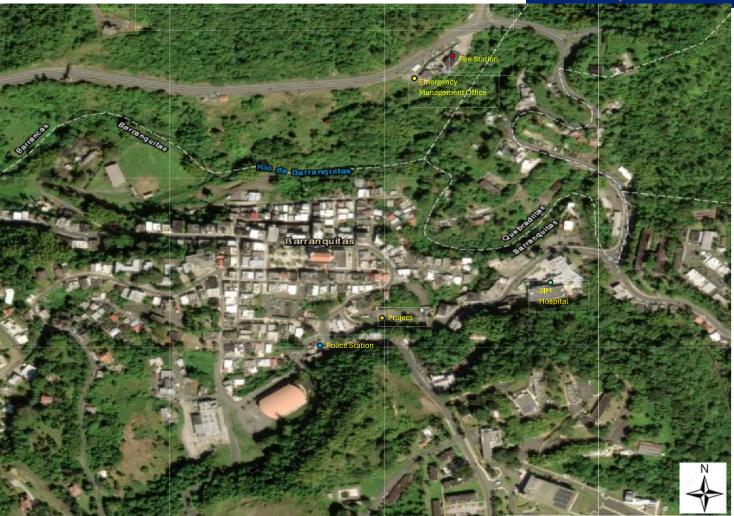
Address: State Road PR-156 Km 16.3, Pueblo Ward,

Barranquitas, PR 00794

Coordinates: 18.185505, -66.305029







Fire Station

O Police Station

Emergency Management Office

O Project Location

Hospital

Source: Google Earth (Spatial Reference: WGS84) at URL https://earth.google.com/

Attachment 18. Municipal Landfill Location Map

Address: State Road PR-156 Km 16.3, Pueblo Ward,

Barranquitas, PR 00794

Coordinates: 18.185505, -66.305029







Proyect Location

Municipal Landfill

Source: Google Earth (Spatial Reference: WGS84) at URL https://earth.google.com/

Attachment 19

Permits and Approvals

ICP

No Objection Letter



12 DE JUNIO DE 2024

Lic. Félix E. Rivera Torres
Secretario Auxiliar **DEPARTAMENTO DE DESARROLLO ECONÓMICO Y COMERCIO**Oficina de Gerencia de Permisos
PO Box 41179
San Juan, Puerto Rico 00940-1179

NO OBJECIÓN

CASO OGPE: 2023-491367-SRA-300310

DESCRIPCIÓN: ESTACIONAMIENTO PÚBLICO MUNICIPIO DE BARANQUITAS

MUNICIPIO: BARRANQUITAS

UBICACIÓN: PR 156 KM 16.3 CALLE BARCELÓ

CATASTRO: 247-092-020-11

CALIFICACIÓN: C-I

PROPIETARIO: MUNICIPIO DE BARRANQUITAS PROPONENTE: MUNICIPIO DE BARRANQUITAS

El Instituto de Cultura Puertorriqueña (ICP), por medio de su Programa de Patrimonio Histórico Edificado (ICP-PPHE), ha examinado el proyecto de referencia para determinar si afecta Propiedades de Valor Histórico y Arquitectónico que estén protegidas, o sean elegibles a serlo, bajo las leyes y reglamentos que nuestra agencia tiene responsabilidad de administrar, como agencia primaria, endosante o recomendante. Estas leyes y reglamentos incluyen, entre otros:

- 1. La Ley 89 del 21 de junio de 1955 S.E., Ley Orgánica del Instituto de Cultura Puertorriqueña, en especial el inciso 4(a)(7), "Determinar que edificios o estructuras son de valor histórico o artístico en Puerto Rico. (...)" y el inciso 4(a)(8), "Asesorar a la Junta de Planificación en la reglamentación de construcción en aquellas zonas que determine como zonas de valor histórico. (...)".
- 2. La Ley 89 del 21 de junio de 1955 s.E., Ley Orgánica del Instituto de Cultura Puertorriqueña, en su inciso 4(b)(3) según enmendado por la ley 119 del 26 de septiembre de 2005, que permite "adoptar, enmendar o derogar, por conducto de su Junta de Directores, las reglas que gobiernen [el] funcionamiento y el descargo de los poderes" concedidos e impuestos al ICP por ley, y la imposición de multas administrativas y/u otras sanciones por su incumplimiento o violación.
 - a. Reglamento de Procedimientos Administrativos del Programa de Patrimonio Histórico Edificado del Instituto de Cultura Puertorriqueña registrado en el Departamento de Estado como Reglamento Núm. 7746 con vigencia del 3 de abril de 2009.

Calle Beneficencia, Viejo San Juan P.O. BOX 9024184, San Juan, Puerto Rico 00902-4184





CASO OGPE: 2023-491367-SRA-300310

DESCRIPCIÓN: ESTACIONAMIENTO PÚBLICO MUNICIPIO DE BARANQUITAS

MUNICIPIO: BARRANQUITAS UBICACIÓN: PR 156 KM 16.3 CA

UBICACIÓN: PR 156 KM 16.3 CALLE BARCELÓ 247-092-020-11

CALIFICACIÓN: C-I

PROPIETARIO: MUNICIPIO DE BARRANQUITAS PROPONENTE: MUNICIPIO DE BARRANQUITAS

FECHA: 12 DE JUNIO DE 2024

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- 3. Ley Núm. 161 de 1 de diciembre de 2009, S.E., Ley para la Reforma del Proceso de Permisos de Puerto Rico, Artículo 1.5, inciso 31, el Instituto de Cultura Puertorriqueña es identificado como una de las agencias gubernamentales concernidas y con injerencia sobre el proceso de evaluación de solicitudes para el desarrollo y uso de terrenos, consultas, permisos, licencias, certificaciones, autorizaciones o cualquier trámite para la operación de negocios en Puerto Rico. Esta Ley establece claramente el requerimiento de autorización escrita previa del ICP para toda intervención y operación en las propiedades incluidas en el Registro de Sitios y Zonas Históricas de Puerto Rico, plazas de recreo y centros fundacionales (ver Reglamento Conjunto).
 - A. Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operaciones de Negocios (RC-2020); registrado en el Departamento de Estado de Puerto Rico bajo el Número 9233 con vigencia de 2 de enero de 2021. Tomo X: Conservación de Recursos Históricos
 - B. Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operaciones de Negocios (RC-2020); registrado en el Departamento de Estado de Puerto Rico bajo el Número 9233 con vigencia de 2 de enero de 2021. Tomos II, III, IV, VI, VII, IX (ver anejo 1 con identificación de Reglas correspondientes).
- 4. La Ley Núm. 183 de 21 de agosto de 2000, S.E., Ley Orgánica de la Oficina Estatal de Conservación Histórica, Artículo 7(b) y Artículo 8 (b), establece implícitamente el requerimiento de la recomendación favorable previa del ICP en permisos para proyectos que cuenten con fondos, permisos o asistencia de alguna agencia federal para realizar intervenciones que puedan impactar propiedades localizadas en el territorio de Puerto Rico que hayan sido incluidas en el Registro Nacional de Lugares Históricos en Washington o sean elegibles al mismo.¹
- 5. Ley Núm. 60 de 1 de julio de 2019, S.E., Código de Incentivos de Puerto Rico, Capítulo 7 Infraestructura y Energía Verde, Sección 2071.01, Inciso 1: Se provee para que un negocio establecido, o que será establecido, en Puerto Rico por una Persona, organizado o no bajo un nombre común, pueda solicitarle al Secretario del DDEC la Concesión de Incentivos cuando la Entidad se establece en Puerto Rico para dedicarse a una de las siguientes actividades elegibles: Realizar obras de mejoras, restauración o reconstrucción de edificios existentes, u obras de reestructuración o nueva construcción en solares baldíos en las Zonas Históricas de Puerto Rico, y los alquileres de tales edificios localizados en tales zonas una vez hayan sido mejorados, restaurados, reconstruidos, restructurados o construidos, según sea el caso. Se requiere la Recomendación del ICP.
- 6. La exigencia de endoso o comentario del ICP aplicable a propiedades designadas de valor histórico y arquitectónico por otros medios, tales como:
 - a. Resolución de la Asamblea Legislativa.
 - b. Monumentos Históricos designados por la Junta de Directores del ICP.
 - c. Propiedades designadas por un plan de ordenamiento territorial de un Municipio Autónomo y que esté en vigor, o por el Plan de Uso de Terrenos de Puerto Rico.
 - d. Ser declaradas históricas en un plan especial de zonificación.
 - e. Otras propiedades referidas por cualquier componente del Sistema Unificado de Información/Single Business Portal (SUI/SBP), la Oficina de Permisos de un Municipio

¹ La OECH <u>asiste</u> a las agencias federales en el proceso de cumplimiento con el 54 USC 306108 (Sección 106 de la Ley de Preservación Histórica Nacional) y el 36 CFR Parte 800: Protección de Propiedades Históricas, pero esta consulta <u>no sustituve</u> los permisos ni las recomendaciones requeridos en Puerto Rico para intervenciones en propiedades históricas en virtud de la Ley 161-2009, según enmendada, Ley para la Reforma del Proceso de Permisos de Puerto Rico y la Ley 89-1955, según enmendada, Ley Orgánica del Instituto de Cultura Puertorriqueña.



CASO OGPE: 2023-491367-SRA-300310

DESCRIPCIÓN: ESTACIONAMIENTO PÚBLICO MUNICIPIO DE BARANQUITAS

MUNICIPIO: BARRANQUITAS

UBICACIÓN: PR 156 KM 16.3 CALLE BARCELÓ 247-092-020-11

CATASTRO: 247 CALIFICACIÓN: C-I

PROPIETARIO: MUNICIPIO DE BARRANQUITAS PROPONENTE: MUNICIPIO DE BARRANQUITAS

FECHA: 12 DE JUNIO DE 2024

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Autónomo con poder de otorgar permisos, la Junta de Planificación, el Programa de Arqueología y Etnohistoria del ICP, u otra agencia o entidad de gobierno con poder reglamentario.

7. Petición a solicitud voluntaria de un propietario o derechohabiente de una propiedad.

De acuerdo a nuestros expedientes y la información provista:

- La propiedad a impactar <u>Sí se localiza dentro de los límites de un centro urbano</u> según este concepto está definido por el Tomo XII Glosario de la Junta de Planificación, parte III, defición C-71 del Reglamento Conjunto 2023.
- 2. Se propone la construcción de un segundo nivel en hormigón sobre un estacionamiento existente.
- 3. <u>Importante</u>: Los nuevos muros/paredes/superficies del nuevo estacionamiento <u>no</u> se utilizará para promociones, <u>murales</u> adicionales a la bandera de Puerto Rico propuesta, o *billboards* digitales u otro material.
- 4. El proyecto propuesto no implica impacto adverso a recursos culturales pertenecientes al patrimonio histórico construido.

Por lo tanto, se emite una determinación de NO OBJECIÓN AL PROYECTO PROPUESTO.

Esta evaluación no incluye los elementos a evaluarse conforme a la Ley 112-1988, Ley para la Protección del Patrimonio Arqueológico Terrestre, lo cual debe hacerse mediante solicitud separada al Programa de Arqueología y Etnohistoria del ICP. Las evaluaciones de ambos programas son necesarias para concluir el proceso con esta agencia.

Este documento tiene vigencia de un (1) año a partir de su emisión.

Sin otro particular, quedo.

Mildred Gonzalez Valentín, BDA. MArq.

Subdirectora

Programa Patrimonio Histórico Edificado

MGV/ejc

ANEJO 1

- Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operaciones de Negocios (RC-2020); registrado en el Departamento de Estado de Puerto Rico bajo el Número 9233 con vigencia de 2 de enero de 2021.
 Tomo X: Conservación de Recursos Históricos
 - a. Capítulo 10.2 Conservación de Sitios Históricos, Zonas Históricas y Centros Fundacionales,
 - Regla 10.2.2 Requerimiento Expedición de Permisos y Recomendaciones en Sitios y Zonas Históricas, Sección 10.2.2.3, Sección 10.2.2.4, Sección 10.2.2.3 y Sección 10.2.2.4
 - 2. Regla 10.2.5 Normas Generales de Intervención
 - 3. Regla 10.2.7 Intervención en Espacios Públicos y Estacionamientos donde ubican Sitios y Zonas Históricas
 - 4. Regla 10.2.8 Obras en las Plazas, Plazuelas, Plazas de Recreo y en las Propiedades Circundantes a éstas, en Zonas Históricas Designadas o en Proceso de Designación
 - 5. Regla 10.2.9 Estacionamiento en Sitios y Zonas Históricas
 - 6. Regla 10.2.10 Rótulos, Cortinas y Toldos en Sitios y Zonas Históricas
 - Regla 10.2.11 Conservación del Patrimonio Inmueble, Sección 10.2.11.5 Requerimiento de Recomendaciones o Certificaciones



CASO OGPE: 2023-491367-SRA-300310

DESCRIPCIÓN: ESTACIONAMIENTO PÚBLICO MUNICIPIO DE BARANQUITAS

MUNICIPIO: BARRANQUITAS UBICACIÓN: PR 156 KM 16.3 CALLE BARCELÓ

CATASTRO: 247-092-020-11

CALIFICACIÓN: C-I

PROPIETARIO: MUNICIPIO DE BARRANQUITAS PROPONENTE: MUNICIPIO DE BARRANQUITAS

FECHA: 12 DE JUNIO DE 2024

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- Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operaciones de Negocios (RC-2020); registrado en el Departamento de Estado de Puerto Rico bajo el Número 9233 con vigencia de 2 de enero de 2021. Tomos II, III, IV, VI, VII, IX
 - a. Regla 2.1.8, Sección 2.1.8.7, Inciso "b": Todo proyecto público o privado que conlleve movimiento de terreno, excavación, extracción de corteza terrestre o construcción, reconstrucciones o canalizaciones deberá solicitar a la División o Unidad de Evaluación Ambiental (DECA) la recomendación del ICP sobre Arqueología y Conservación Histórica, ya sea a través de la OGPe, los Municipios Autónomos con Jerarquía 1 a la III o el Profesional Autorizado.
 - b. Regla 2.2.8, Inciso c-10: Consultas de Ubicación a proyectos de mejoras públicas municipales en propiedades y estructuras que ubiquen en los centros fundacionales, dentro de Zonas Históricas o designadas como sitio histórico deberán contar con la recomendación del ICP, previo comienzo de la obra.
 - c. Regla 2.3.1: El PA requerirá una Recomendación del ICP en todo aquel permiso único a otorgarse en las estructuras oficialmente designadas e incluidas en el Registro de Sitios y Zonas Históricas de la JP y en los centros fundacionales de los Municipios. Los permisos y determinaciones finales a un permiso de construcción y para la demolición, reparación, restauración o remodelación de una estructura con valor histórico requerirán de la recomendación del ICP.
 - d. Regla 3.2.1 Permisos de Construcción, Sección 3.2.1.2, inciso "l": El proyecto que se encuentre en una zona histórica, centros urbanos tradicionales y yacimientos arqueológicos, la OGPe, Los Municipios Autónomos con jerarquías de la I a la III o los PA, requerirán la recomendación escrita del ICP antes de autorizar cualquier permiso de construcción, conforme a la Regla 10.2.11 de Conservación del Patrimonio Inmueble, en el Tomo X de este Reglamento Conjunto.
 - e. Regla 3.2.2, inciso "b-6": Si el proyecto se encuentre en una zona histórica, centros urbanos tradicionales y yacimientos arqueológicos, la OGPe, los Municipios Autónomos con Jerarquía I a la III, o los PA, requerirán la recomendación escrita del ICP antes de autorizar la actividad de demolición. En caso de ser una propiedad histórica, estará conforme a lo establecido en este Reglamento Conjunto sobre Conservación de Sitios y Zonas Históricas, entiéndase Tomo X, o cualquier documento formal emitido por las Entidades Gubernamentales Concernidas cuando existe una situación de emergencia previamente decretada por el Gobierno de Puerto Rico o el Gobierno Federal.
 - f. Regla 3.2.4 Obras Exentas de Permisos de Construcción
 - 1. Sección 3.2.4.1 Actividades que no se consideran obras de Construcción, inciso "c": Cuando la actividad se vaya a realizar en Sitios y Zonas Históricas así declaradas por la JP, el ICP o la Asamblea Legislativa, o en otras áreas especiales donde así se establezca mediante Reglamento o resolución, deberá obtener la autorización correspondiente del ICP, mediante una solicitud de recomendación de arqueología y conservación histórica ('SRA").
 - 2. Sección 3.2.4.2 Obras de Carácter Menor Exentas, inciso "b": Cuando la obra exenta se vaya a realizar en Sitios y Zonas Históricas así declaradas por la JP, el ICP o la Asamblea Legislativa, o en otras áreas especiales donde así se establezca mediante Reglamento o resolución, deberá obtener la autorización correspondiente del ICP, mediante una solicitud de recomendación de arqueología y conservación histórica ('SRA").
 - g. Regla 3.5.9 Permiso Formal para la Extracción, Excavación, Remoción y Dragado de los Componentes de la Corteza Terrestre, Sección 3.5.9.4, inciso "u": Recomendación del ICP para el área donde se propone la extracción, cuando la misma haya sido predeterminada por ICP o la Asamblea Legislativa como zona de valor histórico o arqueológico.
 - h. Regla 3.7.1 Permiso Único, Sección 3.7.1.7, inciso "g": Se requerirá la recomendación del ICP en Sitios y Zonas históricas antes de expedir este tipo de permiso para actividades cuya duración exceda de treinta (30) días.
 - Regla 4.4.1.2 Licencias Traficantes al Detalle de Bebidas Alcohólicas, Sección 4.4.1.2, inciso "c": Recomendación del ICP en los casos en que la propiedad ubique en una zona histórica
 - Regla 6.1.27 Distrito S-H: Sitio Histórico, Sección 6.6.27.2 (ver Tabla 6.85 Usos permitidos en Distrito S-H) y Sección 6.1.27.4 (ver Tabla 6.86 – Parámetros de Diseño Distrito S-H).
 - k. Regla 6.1.28 Distrito C-H: Conservación Histórica, Sección 6.1.28.2 (ver Tabla 6.87 Usos permitidos en Distrito C-H) y Sección 6.1.28.4 (ver Tabla 6.88- Parámetros de Diseño Distrito C-H).
 - Regla 7.3.6 Centro Urbano (CU), Sección 7.3.6.1, Inciso "d": Toda intervención en los centros urbanos delimitados se hará
 en conformidad con el Plan de Ordenación Territorial, Plan de área del Centro Urbano Tradicional o Plan de Rehabilitación
 del Centro Urbano, cumpliendo con las disposiciones de la Regla 10.2.11 en el Tomo X de este Reglamento Conjunto.
 - m. Capítulo 9.1 Obras Eléctricas, Sección 9.1.2.2 inciso "k": Los permisos y autorizaciones en Sitios y Zonas Históricas, Plazas de recreo y bloques circundantes, entiéndase centros fundacionales de los pueblos requerirán de la recomendación del ICP.
 - n. Capítulo 9.6 Obras de Acueductos y Alcantarillados, Sección 9.6.2.2, Inciso "l": Los permisos y Autorizaciones en Sitios y Zonas Históricas, plazas de recreo y bloques circundantes, entiéndase centros fundacionales de los pueblos requerirán de la recomendación del ICP.
 - o. Capítulo 9.8 Sistemas Individuales de Disposición de Desperdicios Domésticos (SIDDD), Sección 9.8.3.1, inciso "d".
 - p. Capítulo 9.11 Proyectos de Construcción, Instalación y Ubicación de Torres e Instalaciones de Telecomunicaciones, Sección 9.11.6.3, inciso "e" Zonas Históricas y Centros Fundacionales.

DRNA

Environmental Compliance Determination



Determinación de Cumplimiento Ambiental para Evaluación Ambiental

ESTACIONAMIENTO PUBLICO MUNICIPIO DE BARRANQUITAS

Fecha de Expedición:

28/JAN/2025

Datos de Determinación

Presentado por

Municipio Autónomo de Barranquitas

Dirección Física

CARRETERA 156 KM 16.3, BO. PUEBLO., Barranquitas,

Puerto Rico, 00794

Número(s) de Catastro

247-092-020-11

Acción Propuesta

La Acción Propuesta consiste en un proyecto: Público con Contratación Privada en el Distrito de Clasificación identificado a continuación. El mismo tiene los siguientes componentes:

Calificación

Distrito(s) de Calificación:

C-

Distrito en el Mapa de Inundabilidad:

Х

Tipo de Suelo:

U١

Cabida del proyecto (Área Total Según Escritura)

400.44 metros cuadrados

Servidumbres Existentes

Acueductos (AAA), Alcantarillado (AAA), Vía estatal de acceso (DTOP), Electricidad (AAE), Telecomunicaciones

(PRTC)

Desperdicios Sólidos

Volumen en construcción: 10 yardas cúbicas

Tipo: NP

Volumen en operación: 15 yardas cúbicas

Tipo: NP

Descripción

El proyecto consiste en la construcción de ampliación de estacionamiento público en aumentar la capacidad de espacios para estacionamientos y mejorar el entorno de la entrada al pueblo, se pretende construir un segundo nivel sobre el estacionamiento existente. El nuevo nivel de estacionamientos se construirá en hormigón armado y en esta etapa se conectará al sistema eléctrico de LUMA, en una etapa futura se le instalarán placas solares en unos techos de acero

Volumen: 50 metros cúbicos

Movimiento de Tierra

Número de Caso

2023-491367-DEA-300355

2023-491367-REA-300000

Casos de Referencia

Volumen de corte: 50 metros cúbicos Volumen de relleno: 40 metros cúbicos

Demolición

Conlleva demolición: Sí Conlleva explosivos: No

Instalación de Generadores de Electricidad

Conlleva generadores: No

Capacidad: N/A Tanque: N/A



Determinación de Cumplimiento Ambiental para Evaluación Ambiental

sobre el estacionamiento que energizarán el mismo tendrá una rampa de acceso al segundo nivel la cual conectará con la carretera 156, se relocalizará uno de los accesos existentes al estacionamiento. Los predios de terreno propuesto para el desarrollo se componen de los siguientes números de catastros 247-092-020-11, 247-092-020-10 y 247-092-020-12.

El predio cuenta con la infraestructura necesaria para servirse de ella, o se puede proveer sin menoscabar el medio ambiente y la comunidad circundante. Durante la operación no hay necesidad de agua potable ya que no hay baños propuestos. Por lo que no se generará aguas usadas para este proyecto. Se estima que la cantidad de desperdicios a generarse como parte de la demolición es de aproximadamente 150 metros cúbicos, los cuales serán acarreados hasta el Sistema de relleno Sanitario de Barranquitas.

Se proyecta la necesidad de corte de terreno de aproximadamente 50 metros cúbicos, generados en las actividades de construcción de los cimientos del edificio que albergará el Estacionamiento, y la necesidad de traer unos 40 metros cúbicos de material de relleno para cubrir las excavaciones de los cimientos del edificio no cubierta por el concreto. El terreno excavado será utilizado como material de relleno para cubrir desperdicios sólidos en Sistema de Relleno Sanitario de Barranquitas.

Impactos al Ambiente y Medidas de Mitigación

La acción propuesta conllevará un impacto ambiental no significativo. Los potenciales impactos asociados a las actividades de demolición, extracción o remoción de corteza terrestre tales como sedimentación, erosión, ruidos, polvo fugitivo y generación de desperdicios sólidos no peligrosos, pueden ser eliminados o reducidos. El posible impacto en la calidad del aire durante las actividades construcción, estará principalmente asociado con la emisión de polvo fugitivo producto de las actividades de las actividades de movimiento de tierra en la construcción de los cimientos del estacionamiento multi-piso, el movimiento de camiones y tránsito vehicular y las emisiones de productos de combustión de los equipos y los camiones. Se tomarán medidas de control para la generación de polvo fugitivo, tales como irrigación de áreas expuestas y calles de acceso con agua como supresor de polvo mediante el uso de camiones cisterna y la compactación del terreno para disminuir la cantidad de material suelto que pudiera ser levantado por el viento. Se les exigirá a los transportistas, que deberán utilizar toldos en buenas condiciones en sus camiones para prevenir la generación de polvo fugitivo provenientes del movimiento de sus cargas. Se establecerá un sistema de mantenimiento preventivo a los equipos para asegurar condiciones de operación óptimas y prevenir la generación excesiva de gases producto de la combustión. Se mantendrán durante todo momento, los equipos de control de emisiones de los equipos y camiones, en funcionamiento de acuerdo con las especificaciones del manufacturero. Con el propósito de controlar el transporte de sedimentos fuera del área del proyecto, se colocarán pacas de heno y/o mallas de filtración en los puntos en que se estime necesario, especialmente en las áreas cercanas a las vías de acceso y a los sistemas pluviales construidos existentes. De ser necesario, se implementará un plan para el control de la erosión y sedimentación (Plan CES) en cumplimiento con los requisitos de las Agencia pertinentes.

La actividad propuesta generará desperdicios sólidos no peligrosos consistentes mayormente en escombros de construcción y desperdicios domésticos que se generarán durante las actividades de construcción. Será responsabilidad del contratista, estimar la cantidad de desperdicios sólidos no peligrosos a ser generados en cada una de las etapas de construcción según, la cantidad de empleados, visitantes del proyecto, etc. Se diseñarán las áreas de recogido de los residuos reciclables, los cuales serán manejados por la Oficina de Reciclaje del Municipio de Barranquitas. Se identificará un área de servicio para la separación y posterior recogido de los residuos reciclables, la cual se rotulará "Área de Separación y Reciclaje". Según exigido, se someterá al Departamento de Recursos Naturales y Ambientales (DRNA) el Plan de Reciclaje para su evaluación y aprobación. Dentro de las áreas que se considerarán para establecer los centros de acopio en el proyecto, están las áreas recreativas, áreas comunes de estacionamientos entre otras. En estas áreas se podrán colocar los recipientes rotulados para los materiales reciclables. Será también responsabilidad del contratista de la obra, separar en la fuente los desperdicios sólidos no peligrosos producto de la etapa de construcción. Los desperdicios de la construcción como madera, concreto, metales, papel, cartón, plásticos, etc., serán manejados por separado de los desperdicios sólidos domésticos generados por los empleados de la construcción para facilitar su almacenaje, transportación, reciclaje y disposición de estos. Una vez construida la facilidad, los desperdicios domésticos



Determinación de Cumplimiento Ambiental para Evaluación Ambiental

generados serán manejados por a través del sistema de recogido de desperdicios sólidos no peligrosos del Municipio de Barranquitas.

En la fase de construcción la maquinaria pesada a utilizarse en las actividades de demolición y excavación será la fuente principal de ruido. No obstante, a toda la maquinaria pesada se le proveerá mantenimiento preventivo para la operación óptima, controlando así los niveles de ruido. Como ejemplo podemos mencionar el engrase continuo de las partes neumáticas del equipo para prevenir ruidos innecesarios. Además, se mantendrán en funcionamiento óptimo, todos los componentes del sistema de silenciadores de todos los equipos y vehículos utilizados en el proyecto en todo momento durante el tiempo de duración del proyecto. Se cumplirá con los límites de ruido establecidos por el Reglamento para el Control de la Contaminación por Ruido de la JCA. Debido a la naturaleza del proyecto propuesto, durante la operación de este no se anticipan ruidos ni olores de carácter objetable. El predio no contiene una composición única de especies, tampoco se identificaron especies de vida silvestre, poblaciones o comunidades de especies de distribución específica y limitada de baja capacidad de dispersión que puedan ser afectadas por la Acción Propuesta. Según la discusión que antecede, la acción propuesta no requiere mitigación. No obstante, mediante la implementación de medidas de mejoramiento paisajista en el proyecto en las áreas verdes, se implementan colateralmente medidas de mitigación. La vegetación por sembrarse será tomando especial consideración a las guías de siembra de especies nativas que sirvan de fuentes de alimento y habitáculo para las especies que se puedan beneficiar de estos.

El sistema pluvial actual del predio de terreno drena las aguas de escorrentías de forma natural en función de la topografía, descargando a través del sistema de alcantarillado pluvial municipal al Río Barranquitas.

El predio del proyecto cuenta con la Certificación de Categorización de Hábitat para Vida Silvestre del Departamento de Recursos Naturales y Ambientales, emitida el 2 de noviembre de 2023, donde se categoriza el predio como Hábitat Natural con Bajo Potencial de Convertirse en Hábitat Esencial, de Alto Valor Ecológico o de Valor Ecológico (Categoría 6).

Determinación

Luego de revisado y analizado el expediente administrativo y discutidos todos los méritos del documento ambiental, al amparo de los poderes y facultades que le confiere a esta Oficina de Gerencia de Permisos, (en adelante "OGPe") la Ley Núm. 161 - 2009, según enmendada y el Reglamento para el Proceso de Evaluación Ambiental de la Junta de Calidad Ambiental (en adelante "RPEA"), RESOLVEMOS:

- La Evaluación Ambiental (en adelante, "EA") sometida por la Agencia Proponente para la acción propuesta, cumple con todos los requisitos de la Ley sobre Política Pública Ambiental, Ley Número 416 2004, según enmendada, y con el RPEA. En dicho documento ambiental fueron adecuadamente considerados y analizados los impactos ambientales que conlleva la acción, por lo que se aprueba el mismo, dando así por terminado el proceso de evaluación ambiental.
- De conformidad con el RPEA, las medidas de mitigación contenidas en el documento ambiental serán obligatorias y constituirán las medidas mínimas a tomarse en consideración para proteger el ambiente. La Agencia Proponente requerirá a las agencias con jurisdicción que incluyan las medidas de mitigación como condición indispensable de sus permisos.
- La Agencia Proponente deberá procurar que al momento de llevarse a cabo el desarrollo del Proyecto, las recomendaciones emitidas por los Gerentes de Permisos de la OGPe sean adecuadamente observadas y consideradas. Asimismo, la Agencia Proponente será responsable de velar que la acción, de llevarse a cabo, se desarrolle acorde con la información suministrada en el documento ambiental presentado apercibiéndosele que, los permisos que administran las entidades gubernamentales en relación al cumplimiento de las mismas están supeditados a la información y datos contenidos en documento ambiental.



Determinación de Cumplimiento Ambiental para Evaluación Ambiental

- Si luego de haberse dado cumplimiento con el Artículo 4 de la Ley Núm. 416, supra, surgieran variaciones sustanciales en la acción propuesta, según definida en el RPEA, la Agencia Proponente será responsable de evaluar dichos impactos mediante el documento ambiental que entienda correspondiente.
- Se le apercibe que esta determinación de cumplimiento ambiental no será revisable hasta tanto se emita una determinación final, cuyo componente sea la presente determinación.

Recomendación y/o Comentarios del Director de la División de Cumplimiento Ambiental

- 3. Según información presentada expresan que el nuevo nivel de estacionamientos se construirá en hormigón armado y contará con placas solares que energizarán el mismo. Por tanto, deberán especificar de forma detallada la cantidad de módulos solares, tipo de instalación, cantidad de baterias, inversores, y todos los accesorios para el sistema. Además, deben ilustrar en el site plan su ubicación.
- 1.Solicitar a través de la Oficina de Gerencia de Permisos (OGPe) el Permiso Único Incidental Operacional, a tenor con la Regla 3.4.1 del Reglamento Núm. 9473, vigencia 16 de junio de 2023, conocido como el "Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operación de Negocios".
- 2.Todo proceso de almacenaje, manejo y disposición de los desperdicios sólidos no peligrosos a ser generados durante las diferentes fases del proyecto propuesto, serán realizados en conformidad con lo estipulado bajo el Reglamento para el manejo de desperdicios no peligrosos, Reglamento Núm. 5717-1997.
- 3.Previo a las actividades de demolición propuestas, deberá verificar la existencia de material con contenido de asbesto o pintura con base de plomo. De confirmarse la existencia de dichos materiales y en cumplimiento con el reglamento Núm. 7308 del 1 marzo de 2007, conocido como el "Reglamento para el Trámite de Permisos Generales" deberán someter un Permiso General: (a) para actividades de mitigación de pintura con base de plomo y (b) para el manejo de materiales con contenido de asbesto.
- 4.La empresa o compañía que llevará a cabo la demolición deberá contar con los correspondientes permisos para realizar dichos trabajos y que los escombros generados sean manejados y dispuestos de forma adecuada para su disposición final y/o reciclaje.
- 5.Todos los materiales excedentes y escombros de construcción resultantes deberán haberse removido completamente del lugar, una vez completadas las obras. Se deberá disponer de estos de manera adecuada.
- 6.Tomar las medidas necesarias para controlar el área durante la construcción para evitar exponer a los vehículos a recoger lodo, polvo, sustancias pegajosas o material viscoso en las ruedas u otras partes del vehículo, los cuales a su vez puedan ser depositados en las calles u otro sitio público y así mantener las vías públicas y alrededores del proyecto libres de acumulación de desechos de construcción.
- 7. Mantener los camiones de carga que se utilicen para transportar escombros y/o materiales de construcción cubiertos con toldos mientras estén en movimiento, para evitar la generación de polvo fugitivo.
- 8.Tomar las medidas necesarias para evitar que residuos de sustancias orgánicas e inorgánicas como aceites, combustibles u otras sustancias químicas, puedan ser arrastradas por la escorrentía y ganen acceso a cualquier cuerpo de agua o sistema pluvial del área.
- 9.Tomar en consideración todo lo concerniente al manejo de aguas pluviales y control de escorrentías del predio. Tomar las medidas necesarias para el control de erosión y prevención de la sedimentación durante la realización de las obras.
- 10.Relación con el posible uso de equipos que puedan ser fuentes de emisión atmosféricas (generadores de electricidad, entre otros) deberán obtener del Área de Calidad de Aire del DRNA los permisos correspondientes conforme al Reglamento Número 5300 del 28 de agosto de 1995 conocido como el Reglamento para el Control de la Contaminación



Determinación de Cumplimiento Ambiental para Evaluación Ambiental

Atmosférica.

- 11.Relacionado al nivel de sonido máximo permitido, cumplir con el Reglamento Número 8019 del 9 de mayo de 2011, conocido como el Reglamento para el Control de la Contaminación por Ruido.
- 12.Relacionado a fuentes emisoras de iluminación exterior, cumplir con el Reglamento Núm. 8786 del 9 de agosto de 2016, conocido como el "Reglamento para el Control y la Prevención de la Contaminación Lumínica.
- 13. Deberá paralizar todo tipo de actividad de excavación, movimiento y remoción de corteza terrestre, y notificar en un plazo de veinticuatro (24) horas al Programa de Arqueología y Etnohistoria, en caso de que, durante el desarrollo del proyecto, se descubra o impacte algún depósito, elemento, estructura o vestigio de naturaleza arqueológica.
- 14. Cumplir con los requerimientos de las agencias concernientes y con las recomendaciones (2023-491367-REA-300000) emitidas para el proyecto.
- 15.Las recomendaciones y requisitos presentados en esta comunicación no eximen de cualquier otro requerimiento o permiso de esta Oficina u otras agencias concernidas, que sean aplicables a la acción propuesta.

Firma / Sellos

CERTIFICO: Que he notificado copia fiel y exacta de la presente determinación con sus anejos, bajo mi firma, a la Agencia Proponente.

Fecha de Expedición:

28/JAN/2025





LUMA

Final Endorsement



CERTIFICACIÓN DE PLANOS DE CONSTRUCCIÓN ELÉCTRICA / ELECTRICAL CONSTRUCTION DRAWINGS CERTIFICATION

Document No.: 4375.004 Version: 3

según enmendadas	s disposiciones de la Ley Núm. 7 del 19 de s, yo, / In accordance with the dispositions of ed, I, JOSE L. ORTIZ NIEVES Nombre y Apellidos / Name and last name		d Law No.173 from August 12			
Soy mayor de edad,	, / I am an adult, <u>CASADO</u> Estado civil / Civil state, vecino d	de / neighbor of NARANJITO	, Puerto Rico; que soy /			
Puerto Rico; that I ar		ejercer la profesión en Puerto Rico con	licencia número / authorized			
	ssion in Puerto Rico with license number 6242 nber from my professional college.	y soy miembro activo del	I colegio de mi profesión / and			
	i profesión diseñé la fase eléctrica del proyec c phase of the construction project describe as		ny profession exercise I			
Nombre Proyecto / Project Number		MUNICIPIO DE BARRANQUI	TAS			
	mber: 23-2-0427	Carga (kVA) / 25 kVA Load (kVA):				
Dirección Física /	CARR. 156 KM 16.3, BO. PUEBI	LO				
Physical Address	BARRANQUITAS					
	or el dueño del proyecto a radicar esta certifica rized by the owner project to submit this certifi CENTRAL GROUP, PSC					
Dirección Postal /	83 CALLE BARCELO, SUITE 201	1				
Mail Address	BARRANQUITAS, PR 00794					
	ción ante AEE/LUMA para / I apply this certifi planos de diseño eléctrico que tienen evaluac		ctrical design drawings			
which have up	odated evaluation from 06/01/2023 ero / Revision number de los planos					
	rial explicativo / from the electrical drawings p					
acompañan esta ce aplicables promulgar así como con las po drawings, document standards, procedur	el Proyecto preparada o diseñada por mí, se ertificación, está conforme con los reglame idos, aprobados o adoptados por LUMA, la Jolíticas públicas y leyes aplicables / The elects and specifications that accompany this ceres and current technical communications prornt Office (OGPe), as well as public policies an	entos, códigos, normas, patrones y con lunta de Planificación y la Oficina de Ge ctrical project phase prepared or designa ertification, is in accordance with the a mulgated, approved or adopted by LUMA	municados técnicos vigentes erencia de Permisos (OGPe), red by me, as included in the applicable regulations, codes,			
professional que cor	so de estos planos, documentos y especificac nlleva esta certificación / I accept that these c essional responsibility release that this certifica	drawings endorsement, documents, and				
Sustitución del Di previously to	iseñador: Este Proyecto fue endosado cor	n anterioridad a / Designer Release: , por lo que se incluye el relevo de re				
éste / therefore, the	responsibility release issued by him is include	ed.				
	ÓN ELECTRÓNICA DEL DISEÑADOR / ER ELECTRONIC CERTIFICATION	ENDOSO ELECTRÓNIC LUMA ELECTRONIC EN				
) Ortiz A:	<u></u>	, Rivera				



Digitally signed by José L. Ortiz Nieves

DN: cn=José L. Ortiz Nieves, o, ou, email=ortiz@dbllc.net, c=PR Date: 2025.03.05 10:54:35 -04'00'



Digitally signed by Frank N. Rivera Serrano DN: cn=Frank N. Rivera Serrano, o=LUMA Energy, ou=Engineering Distribution, email=frank.rivera@lumapr.com, c=US Reason: CRTIFICACION Date: 2025.03.28 14:45:28 -04'00'



Recomendaciones

Estacionamiento Publico del Municipio de BarraNQUITAS

Datos de Localización

De acuerdo a la información suministrada se propone una actividad: Público en:

Dirección Física

carr. 156 Km. 16.3 Bo. Pueblo, Barranguitas, Puerto Rico, 00794

Número(s) de Catastro

247-092-020-11

Calificación

Distrito(s) de Calificación: C-I

Distrito en el Mapa de Inundabilidad: X

Tipo de Suelo: Uv

Casos de Referencia

23-2-0427

Infraestructura

Dueño

Jose L. Ortiz

Certificado por

Ingeniero: José Ortiz Nieves, Lic. No. 6242

Cabida

Cabida según escritura: 400.44 metros cuadrados

La Autoridad de Energía Eléctrica (Ahora LUMA) emite certificación de Planos de Construcción Eléctrica junto con planos endosados para el Proyecto propuesto.

Condiciones Especiales

La Autoridad de Energía Eléctrica (Ahora LUMA) emite certificación de Planos de Construcción Eléctrica junto con planos endosados para el Proyecto propuesto

Condiciones Generales

Esta recomendación es solamente aplicable a la situación de hechos y los datos según presentados y evaluados en el caso. La OGPe se reserva el derecho de reevaluar, variar o modificar el mismo en cualquier momento anterior a la emisión del permiso o la acción administrativa correspondiente por parte de la agencia solicitante o proponente cuando surja nueva información oficial específica estableciendo que el derecho aplicable o las condiciones ambientales en el predio han cambiado sustancialmente, o cuando la recomendación original se emitió bajo premisas falsas o fraudulentas.

Las vigencias de las diferentes agencias del proceso de recomendación serán las establecidas en los comunicados que estas emiten conforme a sus reglamentos.





Recomendaciones

Estacionamiento Publico del Municipio de BarraNQUITAS

Firma / Sellos

Fecha de Expedición:

28/MAR/2025

Norbuto Almodóvar Vélez
Secretario Auxiliar
Departamento de Desarrollo Económico y Comercio de Puerto Rico
Oficina de Gerencia de Permisos.

Norberto Almodóvar Vélez Secretario Auxiliar de la OGPe

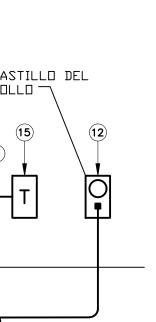


PLANO DE SITIO ELECTRICIDAD — PROPUESTO ESCALA: 1: 400



LEYENDA:

SÍMBOLO	DESCRIPCIÓN
 3	EXISTING OVER HEAD PRIMARY LINE 8.32KV 3PH TO REMAIN
—т—	EXISTING OVERHEAD TELEPHONE LINE TO REMIAN
	EXISTING CONCRETE PRIMARY POLE TO REMAIN
A	EXISTING POLE MOUNTED DISTRIBUTION TRANSFORMER 37 1/2" KVA TO SERVE AS POINT OF CONNECTION PER LUMA LETTER DATED 1 JINE 22 #23-2-0427
	UNDERGROUND SECONDARY SERVICE FEEDER PER ELECTRICAL RISER DIAGRAM
	ELECTRICAL PANEL NEMA 3R PER SCHEDULE
	LIGHTING CONTROL PANEL SEE SPECIFICATIONS AND PROGRAMMING
	CEILING MOUNTED LIGHTING FISTURE PER SCHEDULE
-ф-	SAME AS ABOVE BUT MOUNTED ON WALL OR COLUMN - COORDINATE HEIGHT WITH ARCHITECTURE
~	ARCHITECTURAL COLUMN MOUNTED LIGHT FIXTURE COORD. DETAILS WITH ARCHITECT
	EXISTING DOWN GUY TO REMAIN R MEANS TO BE REMOVED OR RELOCATED AS SHOWN
) —	NEW PRIMARY GUY LUMA STD. E-1-2-3, TO BE ANCHORED PER DETAIL.
	NEW SELF SUPPORTED 50 FT. SEE IMPORTANT NOTE
	METER SOCKET, SEE RISER DIAGRAM



nision a desarrollarse en estas zonas deberan iento. Incluir nota al efecto en los planos de

perá notificarle a la Oficina de Ingeniería de

iii.

7.

comienzo de la obra posterior al endoso de los ricos del proyecto para la requerida inspección, ota al efecto en los planos de diseño.

esponsable de lo siguiente. Incluir notas al efecto

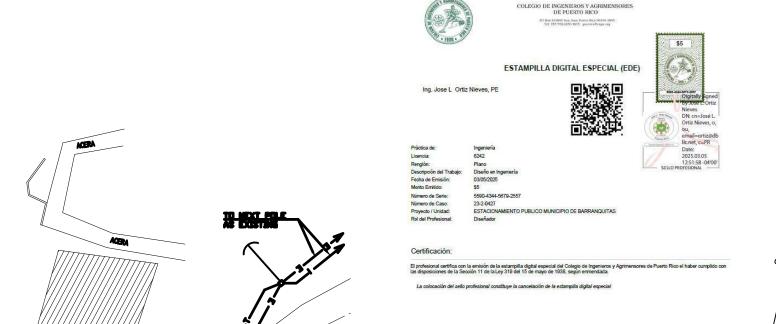
con aislamiento 600V, requerido desde el Punto ficar el "Punto de Entrega" en los planos de diseño, go Eléctrico Nacional y el Reglamento de Términos e Energía Eléctrica. (Proyecto —Base de Contador)

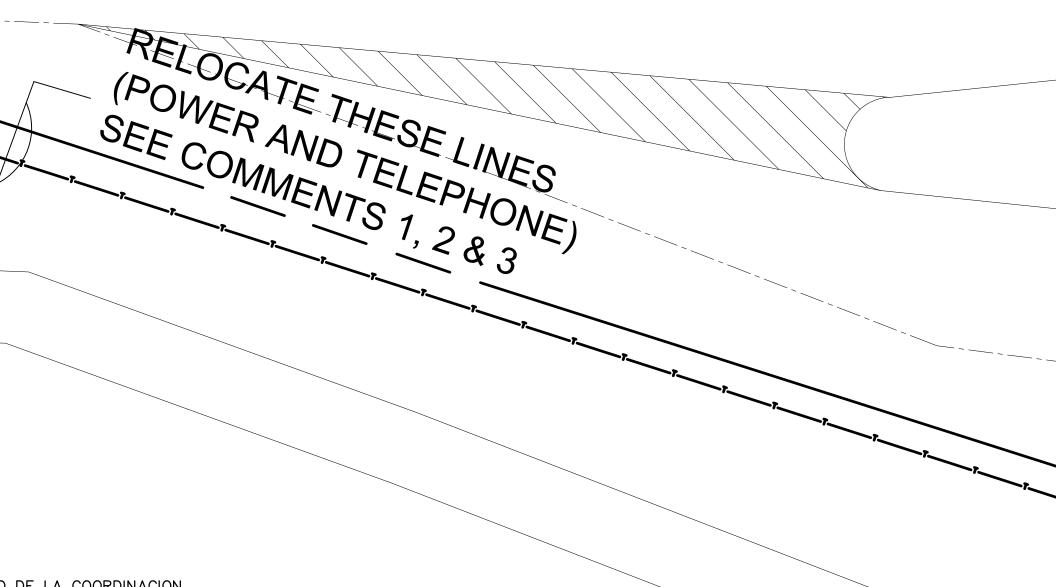
el Gerente de Distrito Técnico correspondiente el ompra de los transformadores.

JOSE R. BENITEZ

No se permite ninguna construcción, movimiento de tierra, rodaje ni ninguna actividad incompatible con el derecho de servidumbre establecido en el terreno. Se refiere al desarrollador al Reglamento 7282 de 25 de enero de 2007, Para Servidumbres Para La Autoridad de Energía Eléctrica (Reglamento 7282) y la Ley 143 de 1979 (Ley 143), según enmendada. Cualquier asunto relacionado a las servidumbres se regirá por el Reglamento y ley antes citada. Todo permiso condicionado debe otorgarse ANTES de la solicitud para endoso de planos de diseño o antes de la solicitud de permiso de construcción a la OGPe.

El Proyecto debe cumplir con el Reglamento Complementario al Código Eléctrico Nacional, Sección IV. Artículo C y D en su totalidad, "Toma de Servicio Aérea" y "Toma de Servicio Soterrada". Se permitirá como punto de entrega una columna de hormigón conteniendo el contador (véase Manual de Normas de Distribución Urbana). La columna estará ubicada dentro del terreno del solicitante en la colindancia frontal y podrá formar parte de la verja si ésta cumple con las disposiciones del Manual de Normas de Distribución Urbana. El frente del contador deberá quedar en dirección a la calle a no más de 3 pies de la colindancia con la calle. La columna deberá cumplir con los despejos mínimos requeridos por el Código Eléctrico Nacional de Seguridad. Para tomas aéreas, la toma no excederá de un largo de cincuenta (50) pies desde el poste al soporte de la Columna.





D DE LA COORDINACION LA TOMA DE SERVICIO LOS POLLOS.

A LA BASE DE METRO ITE DEDICADO AL NTO.

- ele, éste debe estar protegido de la entratista es responsable de instalar el recomendadas de halado especificada para el cable.
- oles) a ser instalados en el área de tegidas mediante una loza de hormigón en el patrón URD□52.
- royecto esté localizado a menos de una ada, los conductos ascendentes tienen que e fiberglass, según aprobado por la AEE.
- errado serán inspeccionadas por la AEE pactadas.
- fico vehicular tendrá que ser protegida se encuentren cerca de instalaciones de espejo mínimo de 13 pulgadas de éstas.
- mplazo que proveerá el contratista será la ados en cada subestación.
- rán para la conexión a tierra de antenas Idadura exotérmica (thermo—weld) o de
- de halado (fishwire) en cada conducto de
- tendrá una resistencia máxima a tierra de varilla para conectar a tierra el neutral a 1,000 pies y en todos los
- poste tiene que incluir dos conductos de egún requerido por la AEE.
- que ser inspeccionadas por la AEE en su

Attachment 20. Water Well Extraction Map

Address: State Road PR-156 Km 16.3, Pueblo Ward,

Barranquitas, PR 00794

Coordinates: 18.185505, -66.305029









Project Location



Water well

Source: Puerto Rico Planning Board (Spatial Reference: NAD 83) URL https://gis.jp.pr.gov/mipr/?
_ga=2.179884384.57385 5578.1749479750-1975718757.1701700188&_gl=1*19zkayv *_ga*MTk3NTcxO
Dc1Ny4xNzAxNzAwMTg4*_ga_S4HGD1915F*czE3NDk1MD
A0MjAkbzEyOSRnMCR0MTc0OTUwMDQyMCRqNjAkbDAka
DA.*_ga_Z7MEG30P8C*czE3NDk1MDA0MjAkbzEyOSRnMC R0MTc0OTUwMDQyMCRqNjAkbDAkaDA.

Attachment 21

Project Plans

PR-CRP-000988

CONSTRUCCIÓN DE NUEVO
ESTACIONAMIENTO PÚBLICO PROJECT
BARRANQUITAS, PUERTO RICO

90% DESIGN DRAWINGS

AMPLIACION DE ESTACIONAMIENTOS PUBLICO

CARRETERA 156 KM 16.3, BO. PUEBLO DEL MUNICIPIO DE BARRANQUITAS, PUERTO RICO.

HON. ELLIOT COLON BLANCO ALCALDE



MAPA DE CALIFICACION



FOTO AFREA



LOCALIZACION

VO, RAFAEL A ZAWAS ROLOM, INGENIERO, 132448, CERTIFICIO QUE SOY EL PROFESIONAL
QUE DISSINO ESTOS PLANOS Y LAS ESPÓFICIZACIONES COMPLEIENTAMAS. L'AMBIEN, INCERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPÓFICIZACIONES CUMPLEN CON LOS
PROFESIONES CON SECRIFICIA DE CONTROLOMO MARCINES DE LAS
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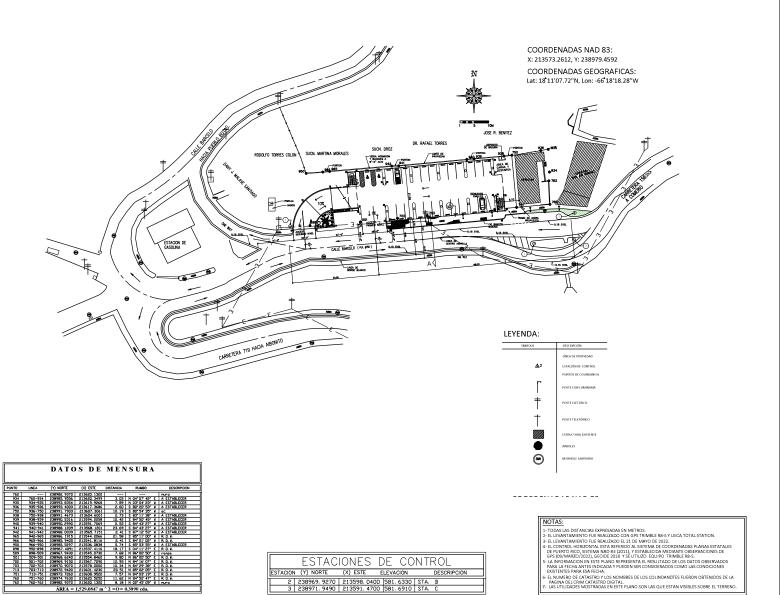




63 CALLE BARCELO STE 201, BARRANQUITAS, P.R. 00794 - TEL. (787)857.8021

INDICE						
1	T=1	HOJA TITULO E INDICE				
2	PS-1	PLANO DE SITIO AGRIMENSURA - EXISTENTE Y DEMOLICION				
3	PS+2	PLANO DE SITIO - PROPUESTO				
4	PC-1	PLANO DE SITIO - CONTROL				
5	PS-3	MANTENIMIENTO DE TRANSITIO				
6	PP=1	PERSPECTIVAS				
7	A1	PLANTAS ARQUITECTONICAS - PROPUESTAS				
8	A2	ELEVACIONES				
9	A3	PLANTAS DE DRENAJES Y SECOIONES				
10	A4	DETALLES - ARQUITECTONICOS				
11	A4-A	DETALLES - ARQUITECTONICOS				
12	S 0.1	STRUCTURAL DRAWING				
13	S-0.2	REINF CONCRETE DETAIL & NOTES				
14	S-1.0	FOUNDATION PLAN				
15	S-1.1	ROOF STRUCTURAL PLAN				
16	S-2.0	STRUCTURAL FRAME ELEVATION				
17	P=1	PLANTAS DE - PLOMERIA				
18	ES1=1	ELECTRICAL SITE PLAN				
19	ES1-2					
20	ES1-3	ELECTRICAL NOTES				
21	ES1-4	ELECTRICAL NOTES				





CENTRAL



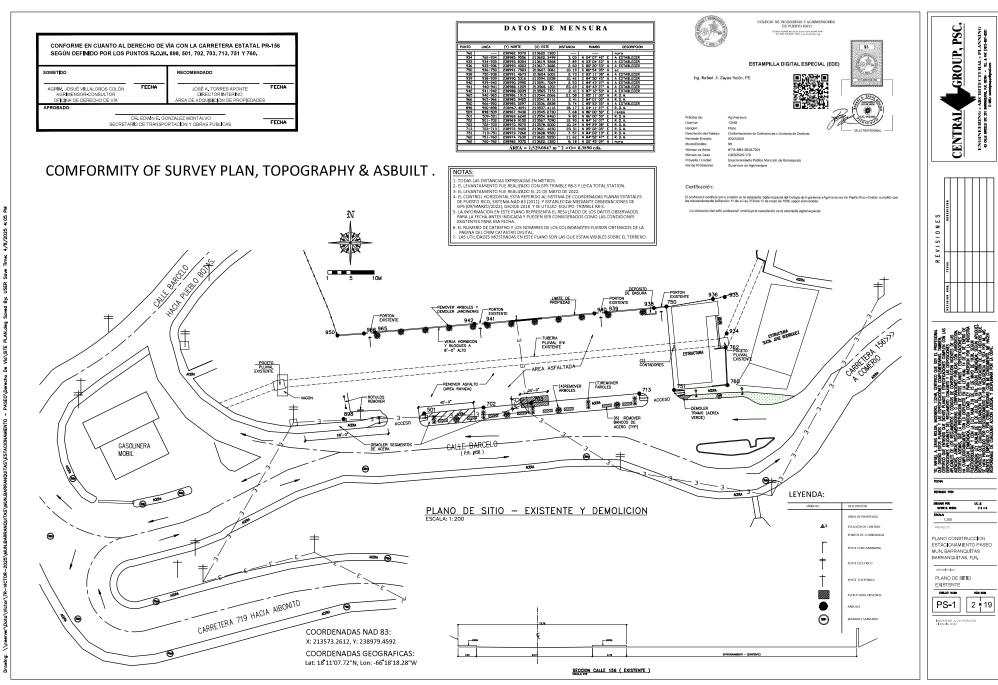


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DOLUNCO POR:	UC. &
RAZR.	
REVISADO FOR:	
FEBRERO 2023	
FECHIC	

PLANO DE MENSURA DE UN PREDIO DE TERRENO EN EL BO. PUEBLO DE BARRANQUITAS

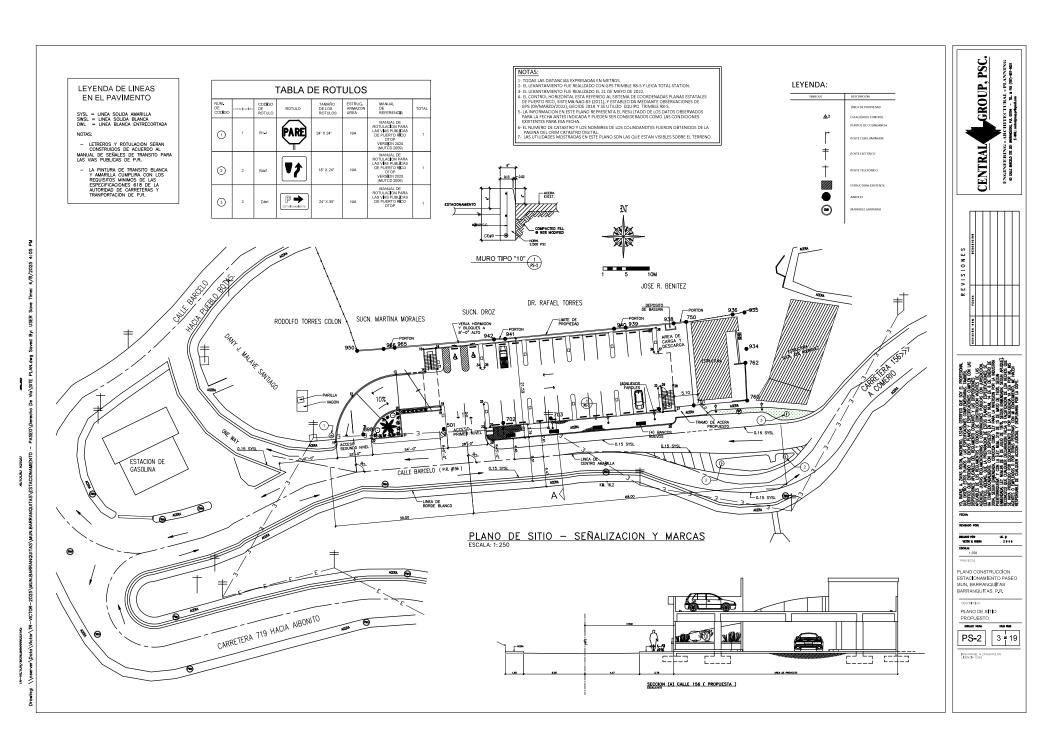
PLANO DE MENSURA

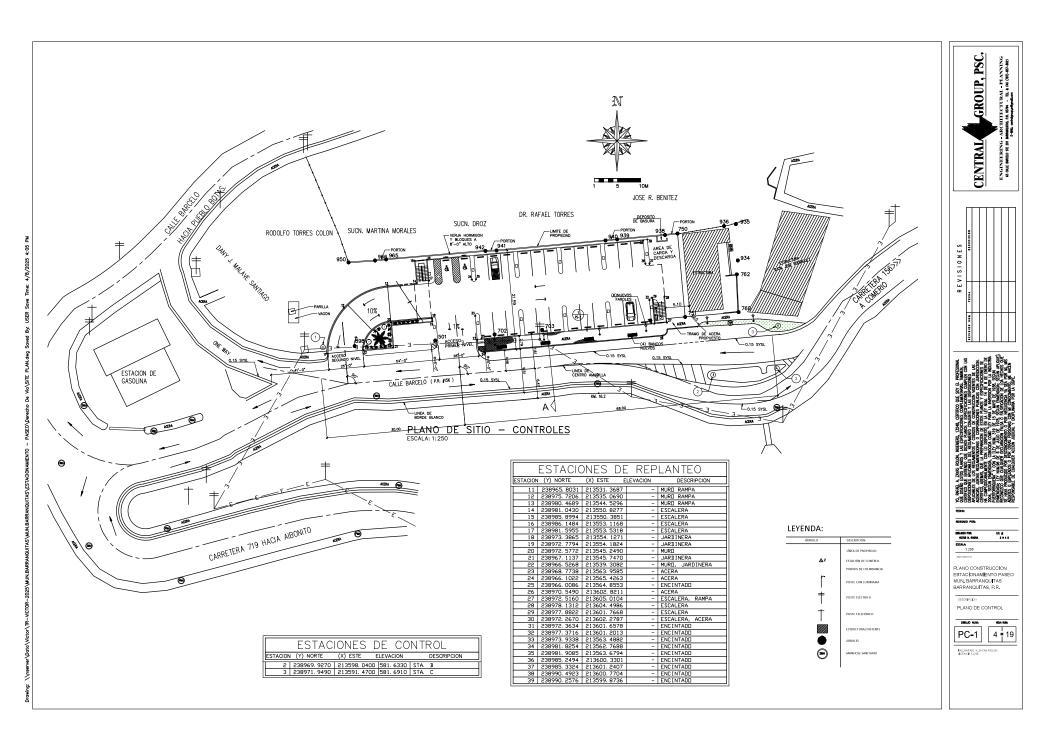


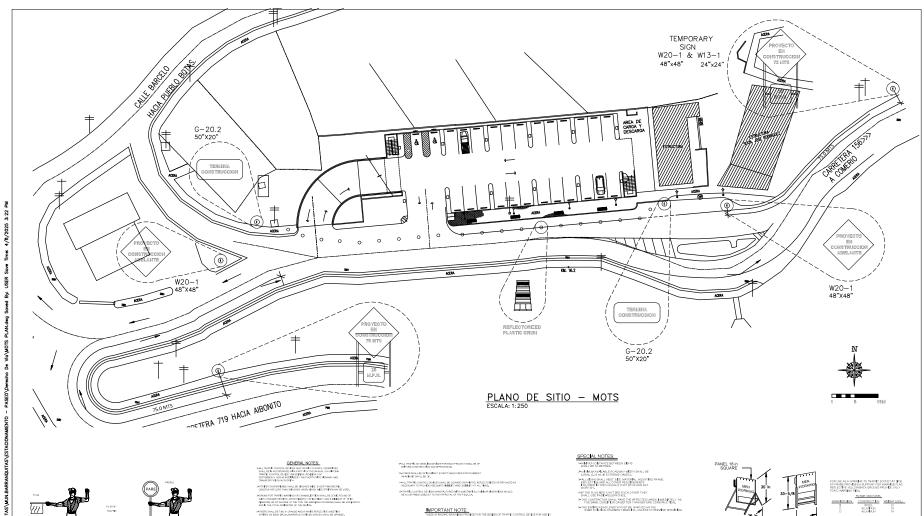






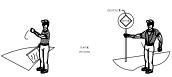


















USE OF HAND SIGNALING DEVICES BY FLAGMAN

MPORTANT NOTE:
These processors proceedings to the companion specific community of the comm

NOTES TO CONSTRUCTION INSPECTOR & CONTRACTOR:

2. COPY OF THIS PRACTICE IS AWALABLE UPON REQUEST FROM THE O.P. CONSTRUCTION DEPT. 3- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL STATE OR LOCAL SAPETY RECUNE ARMS, IN NO EXEMT THE CHASSION OF ANY SUCH RECURRENCY IN THESE NOTES MILL WAILE THE CONTRACTOR TO COMPLY WITH THEM.

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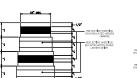








TABLE 1								
DIVIDES	(MINIMUM POUND)							
CHUM	15-15							
TYPE & BARRICAGES	10							

GROUP, PSC. CENTRAL





REVISADO POR: DEGLADO POR VICTOR IL MIGNA

UC. # 2944

PLANO CONSTRUCCION ESTACIONAMIENTO PASEO MUN. BARRANQUITAS BARRANQUITAS, P.R.

DESCRIPCION: MANTENIM ENTO

DE TRANSITIO

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ING, RAFAEL A, ZAYAS ROLON LICENCIA 13218











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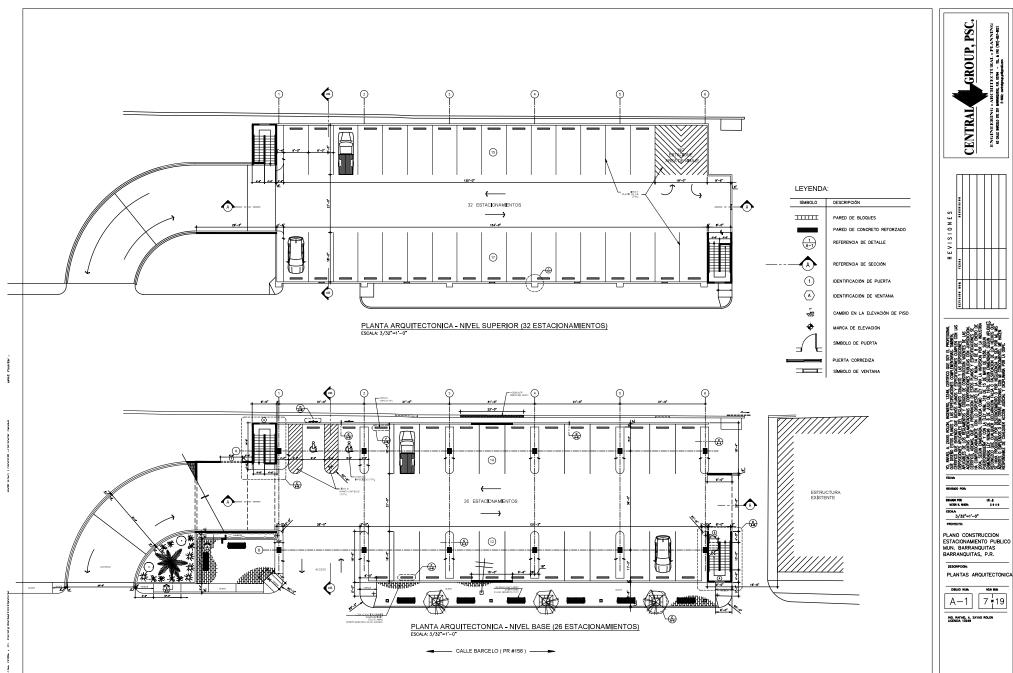
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PLANO CONSTRUCCION ESTACIONAMIENTO PUBLICO MUN. BARRANQUITAS BARRANQUITAS, P.R.

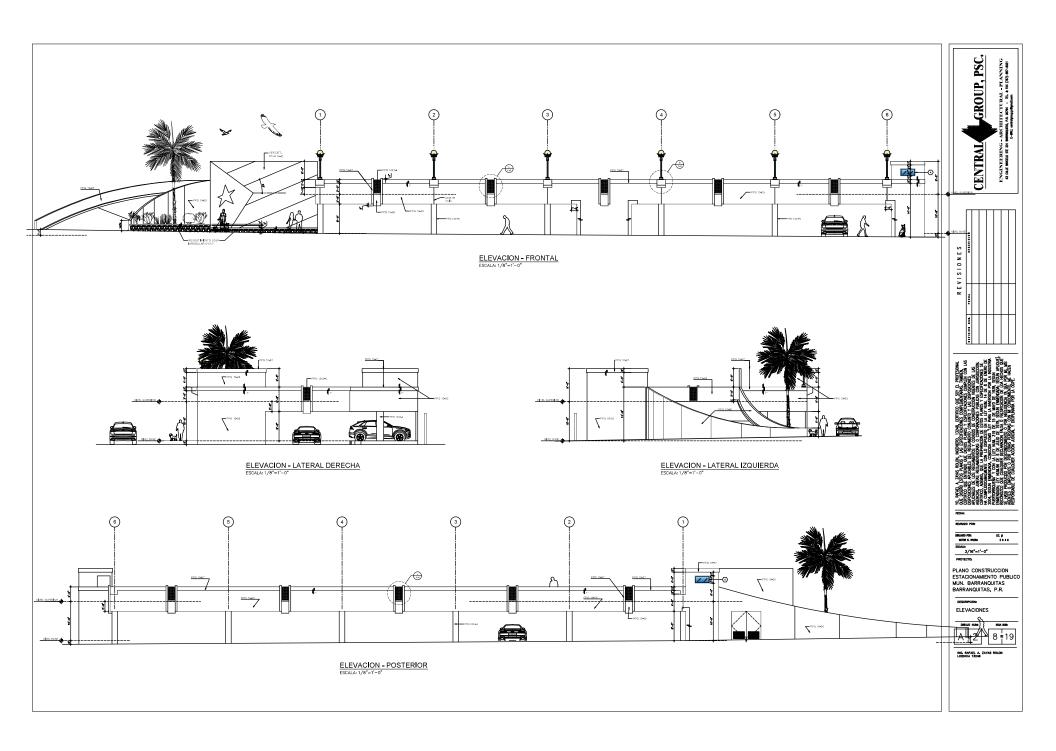
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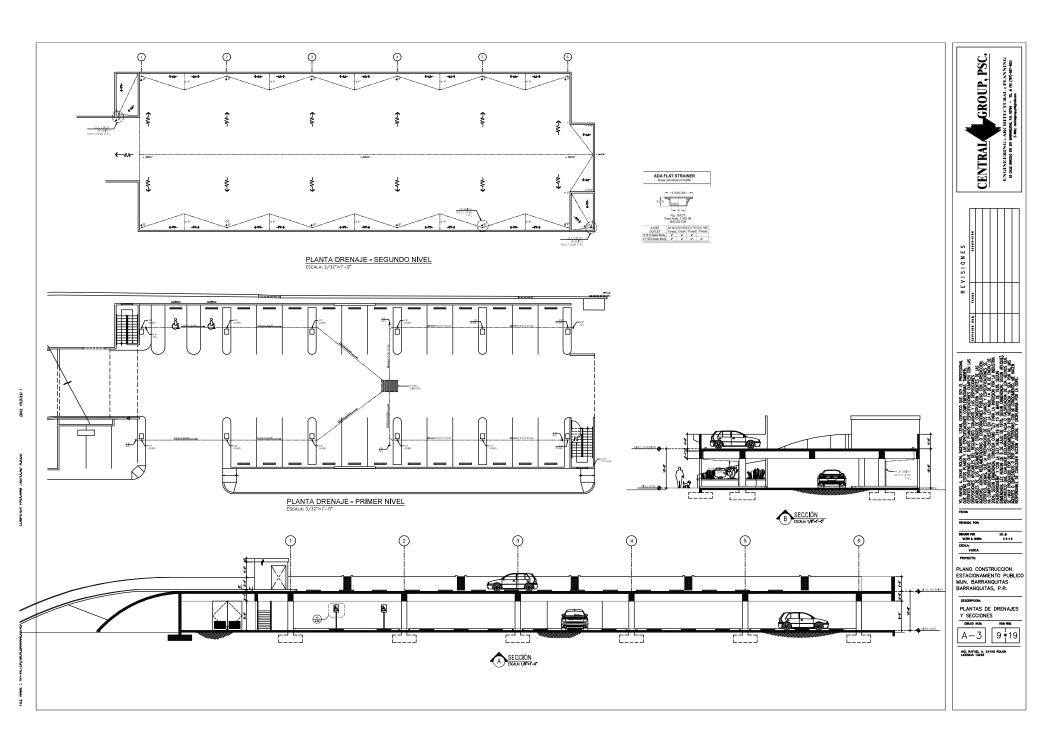
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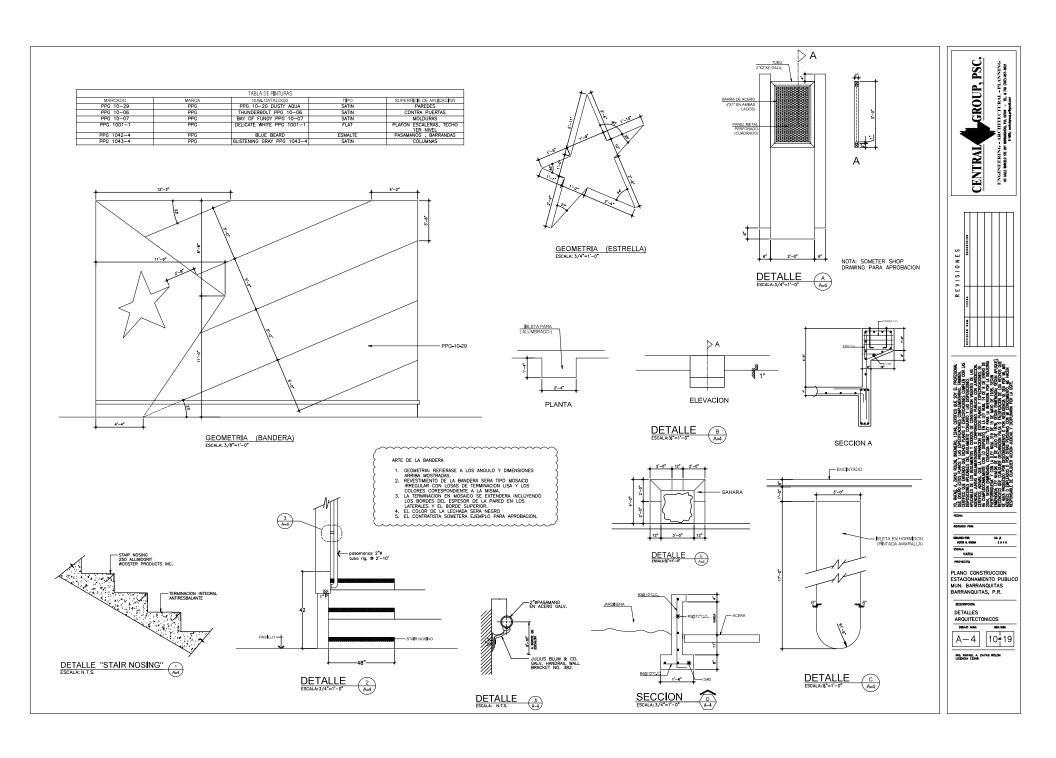
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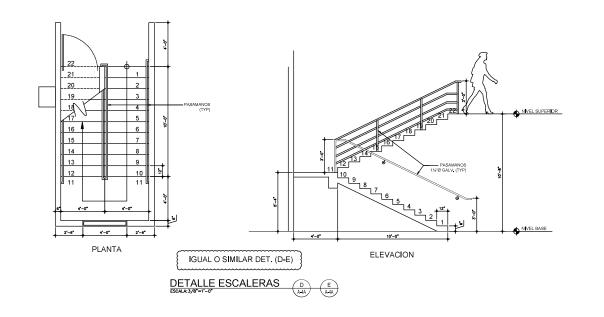


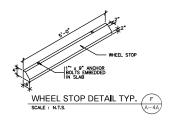












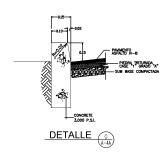
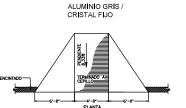


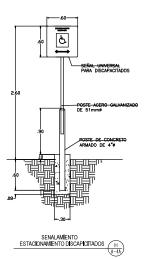
	TABLA DE PUERTAS									
MARCADO	PATRON	DIMENSIO	N HUECO	DIMENSIO	N PUERTA	MARCA	GOZNES	OBSERVACIONES		
MARCADO	PAIRON	ANCHO	ALTO	ANCHO	ALTO	MARCA	GOZNES	OBSERVACIONES		
0	A	8'-0"	8'-0"	8'-0"	8'-0"	_	_			
2	В	3'-6"	8'-0"	3'-0"	7'-0"	INDUMENT	_			

	TABLA DE VENTANAS										
	O.TOO.	DIMENSION HUECO DIME		DIMENSION							
MARCADO PATE	PAIRUN	ANCH0	ALTO	ANCHO	ALTO	MARCA	MODELO	OBSERVACIONES			
(3)	_	1'-6"	4'-0"	2'-0"	4'-0"						















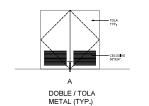
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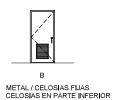
PLANO CONSTRUCCION ESTACIONAMIENTO PUBLICO MUN. BARRANQUITAS BARRANQUITAS, P.R.

DETALLES ARQUITECTONICOS

A-4A

ING. RAFAEL A. ZAYAS ROLON LICENCIA 13248





DETALLE DE RAMPA PARA INPEDIDOS

S	STRUCTURAL DRAWING SHEET INDEX
S-0.1 S-0.2 S-1.0	STRUCTURAL DRAWING INDEX & GENERAL NOTES REINFORCED CONCRETE DETAILS & NOTES FOUNDATION PLAN
S-1.1 S-2.0	ROOF STRUCTURAL PLAN STRUCTURAL FRAME ELEVATION

		ABBREV	VIATIONS
ADL	Additional Dead Load	шн	Long Leg Horizontal
AB	Anchor Bolt	LOCT	Location
A/C	Air Conditioner	LONGIT	Longitudinal
ADD L	Additional	LWT	Lightweight
AFF AL	Above Finish Floor Auminum	LL	Live Load
ALT	Alternate	MAX MECH	Maximum Mechanical
APP	Alternate Approximate	MEZZ	Mechanical Mezzanine
ARCH	Architect, Architectural	MEG	Manufacturer
BCX	Bottom Chard Extension	MID	Middle
BE	Both Foces	MIN	Minimum
BLDG	Building	MISC	Miscellaneous
BLKG	Blockage	MKD	Marked
BM (s)	Beams (s)	MTL	Material, Metal
BO	By Others, Blockout, Bottom of opening	N	North
		NIC	Not in Contract
В	Bottom	NF	Near Face
BP	Base Plate	NO of #	Number
BRDG B RG	Bridging	NOM NTS	Nominal
B RG BOM	Bearing	NTS NS	Not to Scale Near Side
C-1	Bottom of Beam Column Number	NS OC	Near Side On Center
CANT	Contilever	OD OD	Outside Diameter
CG	Center of Gravity	OPNG	Opening
CIP	Cast -in -Place Concrete	OPP	Opposite
CGS	Center of Gravity	OPP HAND	Opposite Hand
	of Strands (steel) Cont rol or Construction Joint	0. 0.	Out to Out
CJ	Cont rol or Construction Joint	PL	Plate
CL	Centerline	P/C	Pre - Cast
CLG	Ceiling	PCF	Pounds per Cubic Foot
CLKG	Caulking	PERIM	Perimeter
CLR	Clear, Clearance	PERP PLF	Perpendicular
CMU	Concrete Masonry Unit		Pounds per Linear Foot
CONC	Column Concrete	PROJ PSF	Projection Pounds per Square Foo
CONN	Connection	PSI	Pounds per Square Inch
CONST	Construction	RECT	Rectangular
CONT	Continuous	RE	Refer (ence)
CORR	Corrugated	REINF	Reinforcement/Reinforce
CTR	CTR	REV	Revision
C.C.	Center to Center	REO'D	Required
DBA	Deformed Bar Anchor	s	South
DIM	Dimension	sc	Scale
DKG	Decking	SCHD	Schedule Section
DN	Down	SER	Structural Engineer of
DO	Ditto	aun.	Record
DTL	Detail	SHT	Sheet
DWG (s)	Drawing (s)	SIM	Similar
DWL	Dowel Dead Load	SL	Slab
DL E	East	SLV SPCS	Sleeve
EA	Each	SPCS	Spaces Spacing
FMR	Embedment	SPI	Splice
EE	Each End	SPEC	Specification
EF	Each Face	SQ	Square
EG	Existing Grade	STD	Standard
EJ	Expansion Joint	STFF	Stiffener
EL	Elevation	SOG	Slab on Grape
ELEV	Elevation, Elevator	S.0.F	Step Of Footing
ENGR	Structural Engineer of Record	STIRR	Stirr up Steel
EQ EXIST	Equal	STR	Steel Structure
EXIST EXP BOLT	Existing Expansion Bolt	SYM	Symmetrical
EXP BULI	Exterior	TEMP	Temperature
EW	Each Way	THK or T	Thickness
FTC	Etcetera	THRD	Threaded
F-1	Footing Number	TOPG	Topping
FB	Floor Beam	TYP	Typical
FF	Far Face, Finished Floor	T.O.B. T.O.C.	Top of Beam
FFE	Finish Floor Elevation	T.O.C.	Top of Concrete Top of Column
FG	Final Grade	T.O.F.	Top of Footing
FIN FL	Finish Floor	T.O.J.	Top of Joist
FLG	Flange	T.O.OP.	Top of Opening
FND	Foundation	T.O.P.	Top of Parapet
FRMG	Framing	T.O.S.	Top of Slab or Steel
FT	Foot, Feet	T.O.W.	Top of Wall
FTG	Footing	T & B	Top and B ottom
FS	Far Side	U	Units
GA GAIV	Gage or Gauge	UNO VB	Unless Noted Otherwise Vapor Barrier
GALV	Galvantzed General Contractor	VERT	Vapor Barrier Vertical
GR	Grade	VRS	Varies
HBF	Horizontal Both Faces	w	
HORIZ	Horizontal	-	West, Wire Size Designation
HH	Horizontal Hook	W/C	Water Cement Ratio
HDAS	Headed Anchor Stud	WD	Wood
HSB	High Strength Bolt	WP WT	Work Point Weight
HT	Height	WT	Weight Welded Wire Fabric
ID INFO	Inside Diameter	W/	With
INFO	Information	W/O	Without
JST		w/s	Waterstop
	Joint	m/o	waterstop
JT	Joint Joint	WWM	Welded Wire Mesh
JT K KLF		W/S WWM &	Welded Wire Mesh And

Kips per square foot Kips per square inch Left, Length Laminated

Pounds

GENERAL NOTES

1- THE STRUCTURAL DRAWINGS SHALL BE USED IN COMMUNITIONS WITH THE SPECIFICATIONS AND THE ARCHITECTURAL ELECTRICAL, MECHANICAL, MECHANICAL, ARCHITECTURAL PROPERTIES THATE DRAWINGS, IT HARE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT AND THE DEMORRER PRIOR TO PERFORMING ANY WORK.

2- CONTRACTOR SHALL VERFY ALL DIMENSIONS ON STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWING BEFORE LAYING OUT ANY WORK, IF ANY DISCREPANCY ARISES THE ARCHITECTS AND ENGINEER SHALL BE NOTIFIED.

3- DETAILS, NOTES AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE WITH THE APPROVAL OF THE ENGINEER THE FOLLOWING CODE, STANDARD AND SPECIFICATION APPLY TO ALL THE CONSTRUCTION WORKS:

1 2018 P.R. BUILDING CODE
2 INTERNATIONAL BUILDING CODE IBC 2018

2— INITIANAL BULLING COLD BC 2019

- INITIANAL BULLING COLD BC 2019

- MARICAN CONDETE INSTITUE 318—14 LATEST EDITION

- MARICAN INSTITUTE 318—16 LATEST EDITION

- MARICAN MEDIDING SOCIETY LATEST EDITION

- CONCRETE REINFORMIS STEEL INSTITUTE LATEST EDITION

- MARICAN SOCIETY FOR TESTING AND MATERIAL

- STEEL DECK INSTITUTE LATEST EDITION

- AD, MARICAN OF CONCRETE PRACTICE, LATEST EDITION

5- DESIGN LOADS:

A)-LIVE LOADS

1) PARKING SPACE ----- 40 PSF
2) OFFICE AREA ----- 50 PSF

3) STARS AND EXIT WAYS -- 100 PSF 4) MECHANICAL ROOM ----- 100 PSF 5) ROOF ------ 40 PI

B)-WIND LOADS: WIND LOAD SHALL BE COMPUTE AS PER ASCE-7-16

)-BASIC SEISMIC-FORCE RESISTING 313 N-S DIRECTION--WALLS E-W DIRECTION--WALLS)-RESPONCE MODIFICATION FACTOR ---

6- CONTRACTOR SHALL PROVIDE ADEQUATE SHORING TO THE STRUCTURE DURING CONSTRUCTION AND SHALL NOT CREATE ANY OVERLOAD SITUATION OVER IT DUE THE HORIZONTAL MOVEMENT OF ANY HEAVY FOLUPIENT OR THE STORAGE OF THE CONSTRUCTION MATERIALS.

HEAVY EQUIPMENT OR THE STORMEE OF THE CONSTRUCTION METERALS.

TO AN EAST OFFICE OF THE CONSTRUCTION OF THE

10- SCALE ON THE DRAWINGS ARE FOR INFORMATION ONLY, NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY SCALING FROM THE DRAWINGS. 11—THE LISE OF ELECTRONIC FILES OR EREPODUCTIONS OF THESE DOCUMENTS BY ANY PRISON.
CONTRACTOR, SUBCONTRACTOR, PERCTOR, FARROCATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION
OF SHOP DEARMINES, SOMERES THERE ACCEPTANCE OF ALL INFORMATION SHOWN HERRON AS CORRECT,
AND DELLOATE THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY EPRORS
THAT MAY COLUMN HERCON.

THAT MAY COURT HEREON.

12. SUBMIT SHOP DRAWINGS AT LEAST 15 BUSINESS DAYS PRIOR TO THE DATE WHICH REMEMED SUBMITTALS WILL BE REQUIRED, SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPOWER, WHICH SHALL CONSTITUTE CERTIFICATION THAT HE HAVE WRITERED ALL FLOW DESCRIBEMENT, SOOKSTRUCTION, CHIEF AND AMERICAS AND SMULAE DATA, AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLACE WITH THE CONTRACT COMMENTS.

13— CONTRACTOR SHALL FURNISH DIMENSIONED COORDINATED SHOP DRAWINGS AT ALL LEVELS LOCATING SLAB EDGES AND ALL SLEEVES AND OPENINGS REQUIRED BY ALL TRADES FOR REVIEW BY THE ARCHITECT AND SER. 14— THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND FIELD CONDITIONS TO THE SER. 15- NO CONSTRUCTION SHALL COMMENCE PRIOR TO THE APPROVAL OF SHOP DRAWINGS BY THE ARCHITECT. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS.

16— SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION REGARDING FINISHES, PAINT, FIREPROOFING, FLOOR PITCHING, DRAIN LOCATIONS, WATERPROOFING AND DAMPPROOFING DETAILS. PARTIN, PRICE PARCHINE, LOUAR PILLERING, LEWAR LLOCALINES, MALESPECULENA AND DUMPRICOPINO DETAILS.

17. SEE ACCEPTURE, DEALMINES FOR LOCATIONS OF MISSIONEY AND LLOTHER NON-LOOD BEARING
PARTITIONS, PROVIDE SUP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE FLAGS OF ALL SUCH
PARTITIONS, CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE TOP OF WALLS LITERALLY FOR THE CO.
REQUIRED LATERAL LOVA, PROVIDE COMPRESSIBLE PIRESAFING AT THE TOP OF WALLS AS REQUIRED BY
ARCHITECTURAL DEALMINES,

TIBE TO BE THE LOSTS OF INVESTIGATIONS AND/OR RECESSION, DUE TO CONTRACTOR'S MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LOCK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT THE CONTRACTOR'S DEPOSES.

SPECIAL INSPECTION

I.- ANY CONTROLOR RESPONSES. FOR THE CONTROLTON OF A MAN WHILD RESPONSE PERSONNE STRIN, DESIGNATION STRING STRING ON WHICH OR SERVICE COMMONTH IS STRING TO SPECIAL RESPONSES ON WHICH A SWEET A WOTTER STRING TO THE CONSIDERATION OF SPECIAL RESPECTIONS SHALL SAMENTA A WOTTER STRINGENT TO THE CONSIDERATION OF WORK OF THE STRINGENT OF SHORT OF MAN OF THE CONSIDERATION OF WORK OF THE CONSIDERATION OF WORK OF THE CONSIDERATION OF WORK OF THE RESPONSE DESIGN PROTESSORM, AS PROFESSORM, ASPECIAL RESPONSE TORS, TOWN OF THE CONSIDERATION OF THE RESPONSE DESIGN PROTESSORM, AS

2- THE OWNER WILL PROVIDE THE SERVICES OF A SPECIAL INSPECTOR WSITH THE RESPONSIBITIES DESCRIBE BELOW. SEE IBC 2009 CHAPTER 17 FOR ADDITIONAL INFORMATION.

A. CAST-IN-PLACE CONCRETE - PROVIDE CONTINUOUS AND PERIODIC SPECIAL INSPECTION AND STRUCTURAL TESTS AS SHOWN IN SPECIFICATION SECTION 033000 FOR THE FOLLOWING COMPONENTS

STRUCTURAL TESTS AS SHOWN IN SPECIFICATION SECTION 033000 FOR THE FOLLOWING COMPONENTS OF THE MORE SECTION OF PRESIDENCE SECTION OF PROPERTY OF THE PR

1.8 PERODC INSPECTION OF CONNECTE FORMICONS, SHORNA, AND RESIDENCE
STRUCTURAS, STEEL — PROVIDE CONTINUES AND PERODG SECULA ASSECTION AND STRUCTURAL TEST
AS SHOWN IN SPECIFICATION SECTION DOTIZED FOR the FOLLOWING COMPONENTS OF THE WINDLE
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C. POST-TENSIONED CONCRETE - PROVIDE CONTINUOUS AND PERIODIC SPECIAL INSPECTION AND STRUCTURAL TESTS AS SHOWN IN SPECIFICATION SECTION 0.33816 FOR THE FOLLOWING COMPONENTS

STRUCTURE CONTINUED TO SEPECTAL OF PRESTRESSING TENDONS
1.1 PERSONCE INSPECTION OF PRESTRESSING TENDONS
1.2 CONTINUEUR INSPECTION OF PAPILICATION OF PRESTRESSING FORCES
1.3. PERSONCE INSPECTION OF IN-STILL CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS

FOLINDATIONS NOTES

1— BACKFILLING AGAINST FOUNDATION WALLS SHALL BE DONE WITH SMALL COMPACTING EQUIPMENT IN LAYERS NOT EXCEEDING 6*. BACKFILLING MATERIAL SHALL BE GRANULAR AASHTO CLASSIFICATION A-2-4 OR BETTER, REFER TO GCOTHECHNICAL REPORT. Z— NO BACKFILING SHALL BE PERMITTED AGAINST BASEMENT WALLS UNTIL UPPER SLAB ARE IN PLACE AND CONCRETE HAS DEVELOPED ITS REQUIRED STRENGTH.

3- ALL INTERIOR SLAB ON GROUND SHALL BE CAST OVER A POROUS MATERIAL WITH A 6 MIL MIN. POLYHETYLENE VAPOR BARRER UNDER IT.

4- FOUNDATION HAS BEEN DESIGN USING THE FOLLOWING PARAMETERS.

A- SOIL BEARING PRESSURE Fb = 3,000 PSF AT DEPTH SHOWING ON DRAWING

5 - SUBSOIL REPORT MAS BEEN PREPARED BY THE OFFICE OF SULLOS INC. DATE 11/03/2015, JOB 4558 CONTRACTOR IS RESPONSABLE FOR OBTANING COPY OF SUCH REPORT AND MEMORRANDIAS, AND FOR POLLOWING ITS RECOMENDATION, SUBSOIL REPORT IS PART OF THE SPECPICIATION AND CONTRACT

DOUMENT OF PROJECT.

C. CONTRACTOR SHALL CREW ALL DESTING FEEL ORIGINATES HE MAY METER THE REPLACED AT THE CONTRACTOR SHALL CREW ALL DESTINE AS THE CONTRACTOR SHALL CREW ALL DESTINE AS CONTRACTOR SHALL REPORT AND EXPENSE OF THE CONTRACTOR SHALL DESTINE AS CONTRACTOR SHALL REPORT AND EXPENSE OF THE CONTRACTOR HE CONTRACTOR SHALL DESTINE AS CONTRACTOR SHALL DESTINE AS CONTRACTOR SHALL CREW AND ASSESSMENT AS CONTRACTOR SHALL DESTINE AS CONTRACTOR SH

10 - UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S WITHTON ADDRIVAN

11- PROVIDE CONTINUOUS BENTONITE STRP WATERSTOPS AT ALL VERTICAL AND HORIZONTAL CONSTRUCTION JOINTS IN ALL BELOW GRADE CONCRETE INCLUDING ELEVATOR PITS AND PIT WALLS. THE PALL SCAN FORCE CONCRETE ROLLDING ELEVATOR FITS AND FIT WALLS.

2- ALL SPRING, SCHETCH, AND DEARTHERS SHALL BE TO TOUR, RESPONSEDING TO THE CONTRACTOR, SHETTING AND SHORING SHALL BE DESIGNED BY THE CONTRACTOR'S LICENSED PROTESSOMAL BROMER.

13- ANY SHOCKTH, SHOULD BE PLACED AND COMPARTED IN EQUIL LIVERS TO DEAL DEPTHS ON SOME SHOES OF STRUCTURAL ELEMENTS ON LOCORDANCE WITH THE ROLLDERINGS OF THE EQUIPMENTS OF THE EXPENSIONAL REPORT.

14- ALL GROAD AND/OR LINGUISTIES LITERAL SHALL BE ROMENTED FOR LOTION, SUAR, AND GROBE EARN SHORDERS AND SHOCKTHLED WITH ACCEPTABLE GRANALAR AND/OR COMPACTED FILL IN CONFORMANCE WITH THE

LEGEND & SYMBOLS ----- DENOTES TOP BARS REINFORCEMENT DENOTES R/C WALLS OR COLUMNS ABOVE & BELOW SLAB DENOTES R/C WALLS OR COLUMNS ABOVE SLAB DENOTES EXISTING WALLS & COLUMNS [F=0.00] DENOTES TENDON FORCE IN K/FT (0.00) DENOTES C. G. OF TENDONS IN. DENOTES TEMP REINFORCEMENT AS SHOWN ON DRAWINGS DENOTES P.T. CABLES (0.0) DISTANCE TO C.G. FROM BOTTOM OF SLAB OR BEAM VERTICAL STEP A COLUMNS OR WALL LINE ----- MATCH LINES









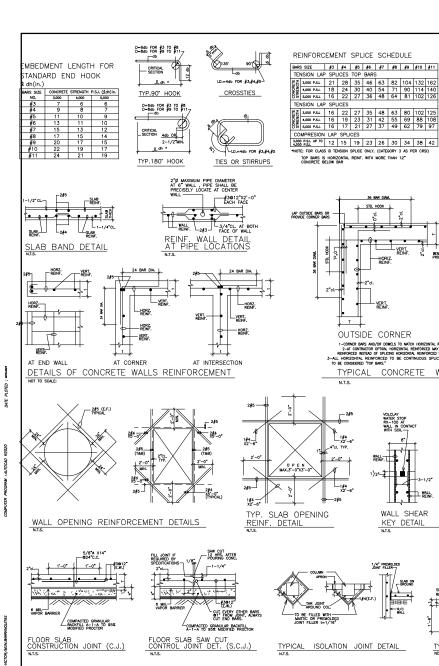
3/32"=1'-0"

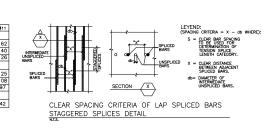
PLANO RECONSTRUCCION ESTACIONAMIENTO PASEO MUN. BARRANQUITAS BARRANQUITAS, P.R.

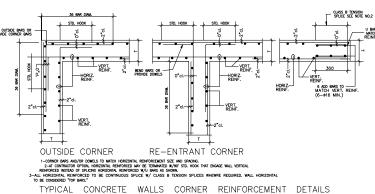
STRUCTURAL DRAWING

INDEX & GEN. NOTES









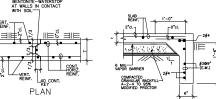
WALL-

N.T.S.

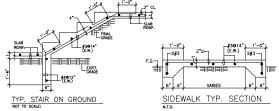
1/4" PREMOLDED

WALL SHEAR

KEY DETAIL







REINFORCED CONCRETE NOTES

1- ALL CONCRETE WORK SHALL CONFORM TO THE ACI BUILDING CODE FOR REINFORCED CONCRETE ACI-318-14 LATEST EDITION. 2- ALL CONCRETE SHALL DEVELOPED A MINIMUM 28-DAYS CYLINDER COMPRESSIVE STRENGTH AND SHALL

	0014	THE A MAXIMUM WAIDS CEMENT TOTIO AS SHOWN BELOW.		
- 1	LOCA	ATION	STRENGTH	W/C
			PSI	
	A	SLAB ON GROUND		
- 1	8 -	MAT FOUNDATION & FOOTINGS		
	C-	FOUNDATION WALLS	-4,000	50
- 1	ð-	STRUCTURAL SLABS & BEAMS		
- 1	€-	COLUMNS NOT IN SCHEDULE		
- 1	F-	PRECAST	-5,000	50
	G-	MISCELLANEOUS	-4,000	60

3— ALL CONCRETE SHALL SET TISTED AS PER AND 316-14 FELLORING THE PROCESSIONS IN THE COURT CILLIDES ARE REQUIRED. FOLLORING ATTIVE STRANGER, ALL TESTING SHALL SE PERFORMED UNDER THE SUPERISON OF A CERTIFICID ESTING LOBORATOR TO BE APPROVED BY THE DESINGE 4— CONCRETE DESIGN MIX SHALL NOT HAVE SLUMPS OVER 4 INCHES UNLESS A HAWR ADMATURE (SUPER PLASTICES) IS USED.

5- ALL CONCRETE SHALL BE CURED AS SPECIFY IN THE STANDARD PRACTICE FOR CURING CONC. ACI 308-92. 6- CONCRETE SHALL NOT BE POURED UNTIL ALL STEEL REINFORCEMENT AND EMBEDDED ITEM HAS BEEN PROPERLY INSTALL AND INSPECTED BY THE INSPECTOR OFFICIAL WHEN METAL CHAIRS ARE USED, THEIR SHALL BE PLASTIC TIPPED.

8- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185 MIN FY=70,000 PSI. 9- CONCRETE COVER FOR STEEL REINFORCEMENT SHALL BE AS FOLLOW UNLESS OTHERWISE SHOWN ON DRAWINGS.

10- SLABS AND BEAMS SHALL BE POURED MONOLITHICALLY UNLESS OTHERWISE SHOWN ON

11- NO CONDUITS OR PIPE GREATER THAN 1 1/2" IN DIAMETER WILL BE ALLOWED TO BE CAST INTO THE WALL OR SLABS WITHOUT WRITTEN APPROVAL OF THE ENGINEER, 12— FOR CHAMFERS, SURFACE FINISH, DRIP, GROOVE AND CONCRETE FORMWORKS SEE ARCHITECTURAL DRAWING.

ARCHITECTURAL DRAWNIG.

13— CONTRACTOR SHALL COORDINATES THE PLACEMENT OF THE ANCHORS, SLEEVES, OPENINGS, CONDUITS, ETC., OF VARIOUS TRADES THAT ARE EMBEDDED IN THE STRUCTURE. IN THE EXENT OF ANY INTERFERENCE BETWEEN ANY OF THESE TIESMS WITH THE STRUCTURAL ELEMENTS IT SHALL BE BROUGHT TO THE ATTENTION OF THE EMBERGE BEFORE POWERS ANY

15— DIMENSIONS AND CONFIGURATION OF ALL STRUCTURAL ELEMENT SHALL BE COORDINATED WITHE ARCHITECTURAL DRAWING BY THE CONTRACTOR AND IN THE EVENT OF ANY DISCREPANCIES IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND POSITIERE REFORE PROCEEDING

16— THE CONSTRUCTION PROCEDURES, FORMMORKS REMOVAL AND THE LOCATIONS OF THE CONSTRUCTION JOINTS SHALL BE SUCH AS NOT TO IMPOSE ANY DETRIMENTAL EFFECT TO THE STRUCTURE OR TO REDUCE THE DESIGN STRENGTH.

17— ALL ONE WAY SLAB SHALL HAVE TEMPERATURE REINFORCEMENT AS FOLLOWS BUT NOT LESS THAN A STEEL AREA OF .002 X GROSS AREA OF CONCRETE

A)-4-1/2"SLAB--#3012" B)-6"SLAB--#309" C)-7"SLAB--#4014" D)-8"SLAB --#4012" 18— DOWELS SHALL BE SAME SIZE AND NUMBER AS WALL OR COLUMN VERTICAL REINFORCEMENT, DMEDIDED MINIMUM 24 BAR DIAMETER NTO THE FOOTING, FOR 76 BAR OR GRETITE, EXTENDED REINFORCEMENT TO BEST ADOVE SOTTOM OF FOOTING REINFORCEMENT PROVIDING A STANAMOS 90 BEGREE HOOK AT THE COLUMN.

THO THE WALL OF COLUMN.

19— PROMISION FOR DETAILS NOT SPECIFICALLY DRAWN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACI 318—08 AND THE MANUAL OF STRADARD PRACTICE FOR DETAILING RENORFORCE DOKENEET STRUCTURES STRE-94.

20— ALL BEAM RENIFORCEMENT SHALL BE END IN STANDARD HOOKS AS PER ACI 318—14 UNLESS OTHERWISE SHOWN ON DRAWINGS.

22- ALL OPENING IN CONCRETE WALLS SHALL BE REINFORCED IN THE PERIMETER WITH 2∯5 BARS PLACED 2" FROM THE FACE OF THE WALL AND EXTENDING 2"-0" BEYOND CORNERS.

23- ALL LAPPING, BENDING AND PLACING OF REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH THE ACI 318-08 BUILDING CODE. DO NOT LAP SPLICES AT POINT OF MAXIMUM STRESS. 24— UNLESS SHOWN ON DRAWINGS ALL STEEL REINFORCEMENT ARE MICH. CONTINUOS AND SHALL BE SPLICED AT LIP PORIS. LIP POINT FOR PERNFORCEMENT OF BEAM SHOULD OCCUR IN THE MICHIGAN SHALL PROVINCE OF THE PROPERTY OF BEAM SHOULD OCCUR AT A DISTANCE LESS THAN 17.4 OF THE SPAIN LIP POINT FOR BOTTOM REPORTED HEAVING THE SPAIN FROM THE ADJACENT JOHNS, ALL REINFORMOR STEEL SPRICES SHALL BE CAUGES TO FILE THE SPAIN FROM THE ADJACENT JOHNS, ALL REINFORMOR STEEL SPRICES SHALL BE CAUGES TO FILE THE SPAIN FROM THE ADJACENT JOHNS, ALL REINFORMOR STEEL SPRICES SHALL BE CAUGES TO FILE THE SPAIN FROM THE ADJACENT JOHNS, ALL REINFORMOR STEEL SPRICES SHALL BE CAUGES TO FILE THE SPAIN FROM THE SPRING THE SPRING THE SPRING THE SPRING THE SPAIN FROM THE SPRING THE SPRING

25— UNLESS OTHERMISE SHOWN ON DRAWINGS ALL 6" THICK CONCRETE WALL SHALL BE REINF. WITH \$4012" IN EACH DIRECTION, 2\$\$ SHALL BE PLACED AT 2" FROM THE END OF THE WALL MINIMUM REINFORCEMENT FOR WALLS SHALL BE .0025 OF THE GROSS CROSS SCOTONAL AREA.

MANIMAM PENFORCHENT FOR WALLS SHALL BE JOSES OF THE SHALL OF THE WALL
28—FORMADRY FOR FLEDRING ELBERTS SHALL BULLDE THE CHARGE SHOWN ON DEVININGS IN
ALL FORMADRY SHORE ADDRESSED SHALL BE THE STORE SHOWN ON DEVININGS IN
ALL FORMADRY SHORE AND RESTORED SHALL BE THE STORE SERVICE SHOWN OF THE CONSTITUCTION
AND SHALL BE DESIGN BY A LICENSE STRUCTURAL REPRESENTATION OF THE CONSTITUCTION
AND SHALL BE DESIGN BY A DESIGN SHALL BE THE SHALL BE LOCATED WHITE THE
CONTRACTOR SHALL SHEART SHOP DEWINES SHOWN SEELE REPROFECUENTS AS REQUIRED IN THE
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EIGHNOLL SPICEPOLITIONS. PERSHED SHOP DEWINES SHOWN SEELE REPROFECUENTS AS REQUIRED IN THE
EIGHNOLL SPICEPOLITIONS. PERSHED SHOP DEWINES IN ACCORDANCE WITH PART B, DWPTER 3,
AREA NO BETTER FORWARTS SHOWN SEELED.

30— WELDING OF REINFORCEMENT IS NOT PERMITTED, MECHANICAL SPLICES SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BARS BEING SPLICED AND THEIR USE IS SUBJECT TO THE APPROVAL IN WRITING OF THE STRUCTURAL ENGINEER OF RECORD. 31— WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING ANY OF THE EXISTING REINFORCEMENT.









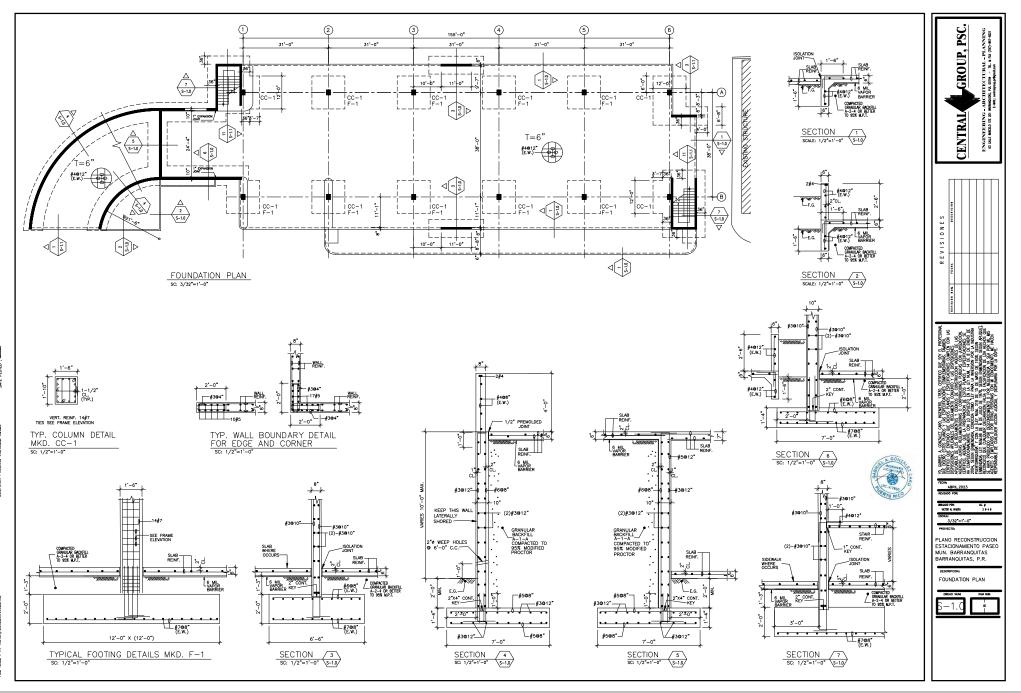


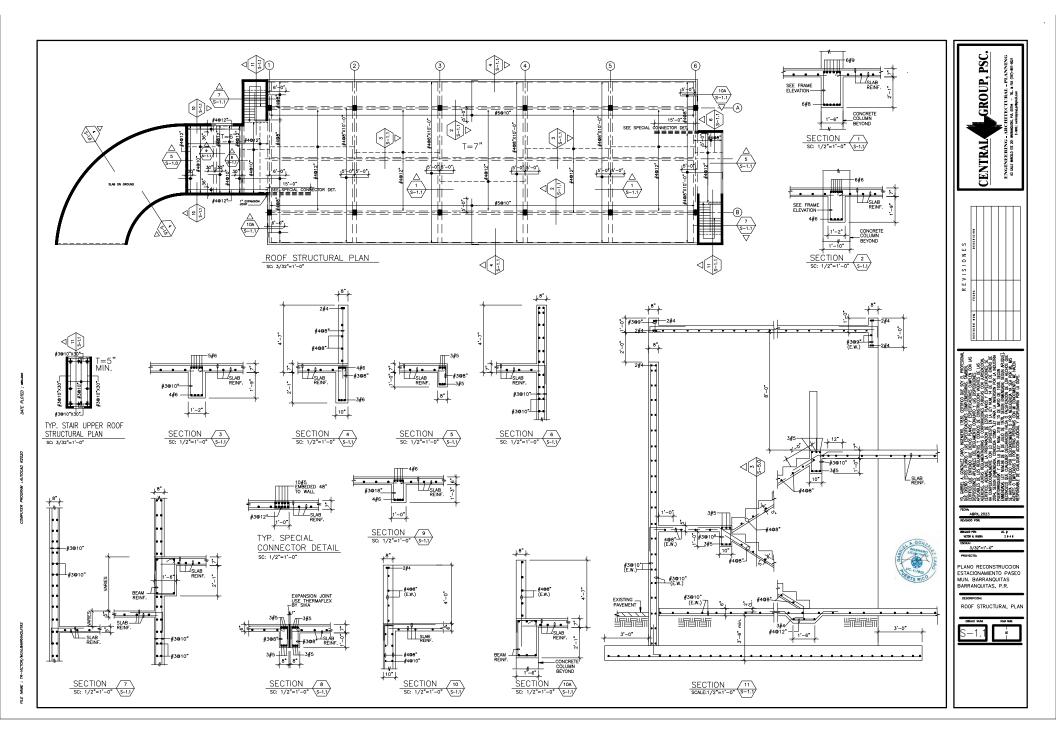
PLANO RECONSTRUCCION ESTACIONAMIENTO PASEO MUN. BARRANQUITAS BARRANQUITAS, P.R.

REINF. CONCRETE

DETAILS & NOTES



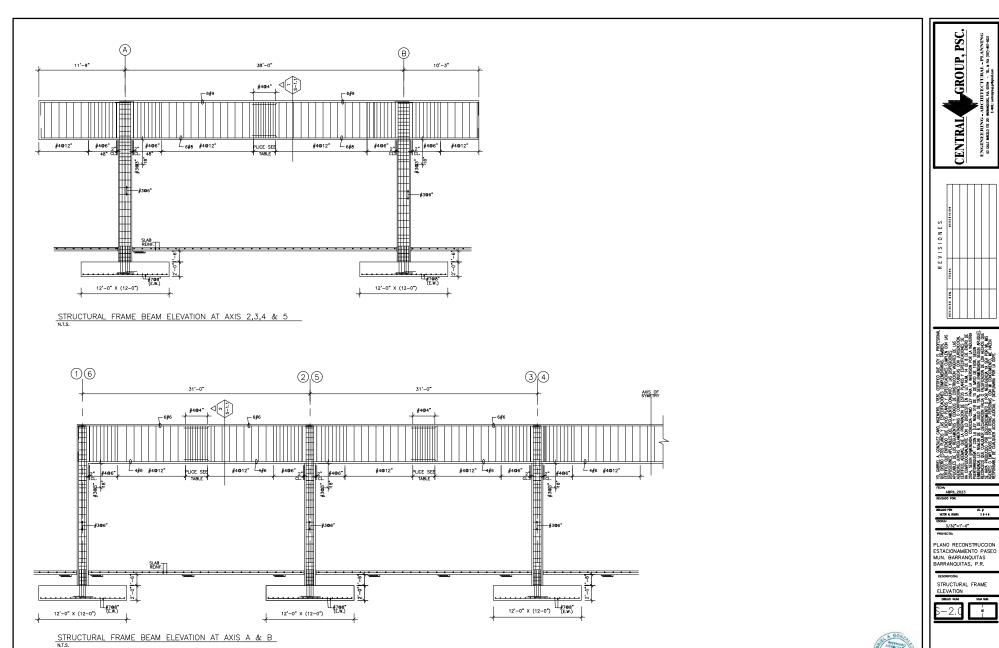


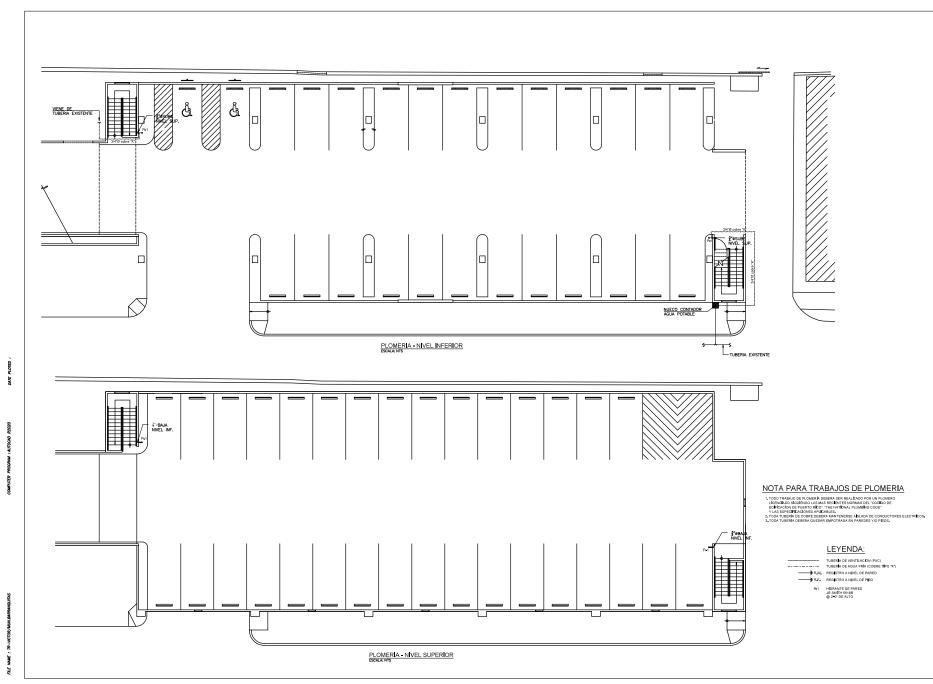


















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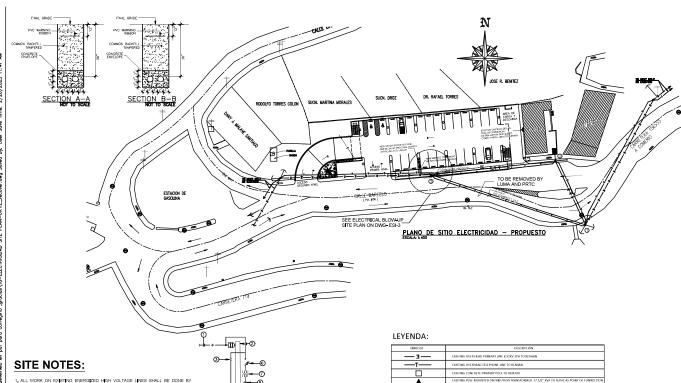
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PLANO CONSTRUCCION ESTACIONAMIENTO PUBLICO MUN. BARRANQUITAS BARRANQUITAS, P.R.

PLANTAS DE PLOMERIA

P1 17 19

ING. RAFAEL A. ZAYAS ROLON LICENCIA 13248



m Ŷ

ELECTRICAL RISER DIAGRAM

DESCRIPTION: ()

P.R.E.P.A. AT CONTRACTOR EXPENSE.

CONSTRUCTION BEGINS

TO TERRAIN CONDITION.

LUMA STANDARDS

THE SECONDARY SIDE.

ON THE THESE DRAWINGS.

P.R.E.P. AT CONTRACTOR EXPENSE.

2. ALL CONSTRUCTION WORK SHALL BE DONE IN A THOROUGH AND WORKMAN KE MANNER. IN ACCORDANCE WITH THE PLANIS. SPECS AND CONSTRUCTION PRAMINGS THE LATEST ECTION OF THE INTRONAL ELECTATIO. CODE SHALL BE POLLOWED EXCEPT WHERE LOCAL REGULATIONS ARE MORE STRINGEN. IN THE ACKNET COLOR TO A CONTRACTOR SHALL DOOR FLANT WITH LAMB LOCAL OFFICE. THE POINT OF CONTRACTOR SHALL DOOR FLANT WITH LAMB LOCAL OFFICE THE POINT OF CO

4. CONSTRUCTION OF NEW LINES SHALL BE DONE BY CONTRACTOR EXCEPT AS 5 FOR ALL STANDARDS NUMBER REFER TO LUMA DISTRIBUTION STANDARDS

7. TRANSFORMERS SHALL BE SELF COOLED, Oil IMMERSED) WITH 4-2 1/2% VOLTAGE TAPS, BELOW NORMAL PRIMARY RATED VOLTAGE, AS RECUIRED BY LUMA

11. UP TO ONE MILE FROM SEA SHORE ALL EQUIPMENT SHALL BE STAINLESS STEEL

13 ANY LINE RELOCATIONS SHALL BE FOLIAL OR BEDER THAN THE EXISTING ONE

14. ANY CUSTOMER DEMANDING MORE THAN 50 KVA SHALL BE BILLED ACCORDING

15. PROVIDE ELECTRICAL IDENTIFYING TAPE FOR UNDERGROUND CABLES 6" WIDE

AND DUCTS AT 12" B.E.G., TAPE SHALL BE PERMANENTLY PRINTED WITH

AT THE TOP AND "LINEAS ELECTRICAS DEBAJO" AT BOTTOM. 16. THE LUMA SHALL NOT ENERGIZE THIS PROJECT UNTIL THE OWNER HAS

TRANSFORMATION LOSSES TO THE CONSUMPTION AND DEMAND METERED IN

YELLOW COLOR, INSTALLED OVER ALL DIRECT BURIAL UNDERGROUND CABLES

CONTINUOUS BLACK LETTERS 11/2" X 5/8" WITH THI WORD "PELIGRO" PELIGRO"

GRANTED THE CORRESPONDING RIGHT OF WAY AT P.R.E.P.A. LEGAL DIMISION.

17. ALL ELECTRICAL CONSTRUCTION SHALL BE CERTIFIED AND INSPECTED BY AN

AUTHORIZED INSPECTOR BEFORE THE CONNECTION TO LUMA ELECTRICAL

18. ALL TRANSFORMER INSTALLED IN THIS PROJECT MUST COMPLY WITH CIRCULAR

94-06 RELATED TO IMPROVED LOSSES CRITERIA DATED 15 NOV. 94, SEE TABLE

SYSTEM IN ACCORDANCE WITH CERTIFICATIONS LAW, (LAW #7 JULY 1985),

8. GROUND SYSTEM SHALL HAVE A MAXIMUM RESISTANCE OF 10 OHMS. SERVICE DROPS LONGER THAN 75FF, SHALL BE PAID BY THE OWNER OF THE LOT.
 THE LUMA WILL NOT BE LIABLE FOR ANY CHANGE DURING CONSTRUCTION DUE

6 METERS SHALL BE BY ALL MEANS ACCESSIBLE TO LUMA.

OR GALVANIZED STEEL WITH HEAVY DUTY FENDIX 12. ALL EQUIPMENT SHALL BE CONSTRUCTED ACCORDING TO A.N.S.I., N.E.M.A AND

AND IN ACCORD TO THE LATEST ENFORCED STANDARDS.

TO PRIMARY RATE GSP-1 BY APPLYING A FIXED PERCENTAGE OF

- 1. EXISTING DVERHEAD PRIMARY LINE 832 KV 3 PHASE -4V TO PENAIN
- 2. EXISTING PRIMARY POLE TO REMAIN, SEE DVG E-2
- 3. 6 KV POLE TYPE LIGHTNING ARRESTER
- 4. #4 AWG- HARD DRAWN COPPER GROUNDING CONDUCTOR.
- 5. 5/8" X 8"-0" COPPERVELD GROUND ROD.
- 6. FUSE CUTDUTS, EXISTING TO REMAIN
- 7. PELE MOUNTED TRANSFORMER 37-1/2 KVA. 4.8 KV-120/240V TO REMAIN.
- B. NEW WEATHER SEAL DZ GEDNEY DR SIMILAR.
- UNDERGROUND SECONDARY FEEDER 383/0 & 184 RHH COPPER IN 2' PVC SCH. 40 COMDUIT 36' BFG WITH CONCRETE ENVELOPE AND 2' SPARE CONDUIT.
- 10. CONCRETE ENVELOPE 3" MIN. ARGUND CONDUIT. 11. YELLDW PVC WARNING RIBBON AT 12' B.F.G.
- METER SDCKET AND MAIN C. BREAKER 100A-2P-240V-NEMA 3R AT 6'-0' A.F.F. SEMI FLUSH MOUNTED.
- 13. LIGHTING AND POWER PANEL (LP) PER SCHEDULE.
- 14. UNDERGROUND SERVICE PEDESTAL LUMA STD- URD-27.
- 15. TERK ASTRONOMICAL TIMER TO CONTROL AT LEAST 6 STATIONS
- 16. SERVICE FROM PEDESTAL TO EACH METER 3 #2 %#8 IN 2'0 PVC SCH 40



Ш

Yo, ING, JOSE L, ORTIZ, numero de licencia # 6242, cantino que soy el protessora que locretaciono, diseño o preparal cantino que estrate que cidros personal propertidadense aurejan con las disposiciones aplicables del Regimento Consulto y la disposicione aplicable del regimento del regimen belimente con lo disquesto en la Ley 14-2004, segúin emmendada, comocida mola "Ley para in hivercion por la indicatal Puertoringuella" y con al ILey Nimi. 96 de 6 de julio de 19 guin emmendada segúin enquella, Piccarocco que unalque deduración sela plan emmendada segúin enquella, Piccarocco que unalque deduración sela bilidación de los hechres que se hayes producido por desconocimiento o por veguinento ya sea por mil, mis agentes o emcleados o, o por otras personas con in nocimiento, me hacon responsable de cualquer acción judicial y desophamia no comiento.



LAMBERT

SCALE: 1 : 20,000

X= 213575.4824 Y= 238982.9952 Lat: 18.18550405 Lon: -66.30501059

IMPORTANT NOTE:

CONTRACTOR TO SUPPLY NEW -50 FT. - S 8 SELF SUPPORTED PRIMARY POLE AND INSTALL NEW S.S. BASE STD-M16-3, M16.4 AND COORDINATE WITH LUMA ESTIMATE TO REPLACE POLE AT CONTRACTORS EXPENSE, TO CONNECT LINES.

- 1. EL DUEÑO DEL PROYECTO SE HARA CARGO DE LA COORDINACION Y COSTOS PARA LA RELOCALIZACION DE LA TOMA DE SERVICIO DEL LOCAL COMERCIAL EL CASTILLO DE LOS POLLOS.
- 2. COMO PARTE DEL PROYECTO, SE RETIRARA LA BASE DE METRO CONTADOR Y TOMA DE SERVICIO EXISTENTE DEDICADO AL ALUMBRADO PUBLICO DEL ESTACIONAMIENTO.

OGPe: 2024-606941-SRI-310632

LUMA: 23-2-0427

Carga: 25 KVA

Proecto: Estacionamiento Publico-Municipio De Barranguitas Municipio: Barranquitas











ELECTRICAL SITE PLAN

DBUIO NUME ESI-1 18 21

ING. RAFAEL A.

LUMA REQUIREMENT:

- ESTACIONAMIENTO PUBLICO MUNICIPIO DE BARRANQUITAS Dirección: CARR. 156 KM 16.3, BO. PUEBLO Municipio: BARRANQUITAS
- El Punto de Conexión y centrolde del proyecto está localizado en: Coordenadas proyección en metros +Este +Norte (213576.41, 238970.83). Coordenadas Geográficas Latitud y Longitud (18.1854009, -66.3049935) LUMA/PREPA Reference FID 7039124.
- Durante la Inspección de campo se obsenó la Instidución de dos bases de metros contodores omiglios a estructura dentra de las predios del proyecto. Según en nuestro sistema, umo de los stacionamiento político. Se recoministra decalidar la bese de metro contedior del proyecto a una nueva columna en homiglion. Der tonto, el Proyecto se conectorá al Punto de Conedión ledicado en el plora que se incluya.
- Porte de la estructura que se fiene contemplada constituir dentro de las predice, se encuentro presentar l'Inco de Diseño para encoloxi por control de la predice, se encuentro presentar l'Inco de Diseño para encolox y la Certificación de Planos de Construcción Disertica para la relacciónida de la distribución electrica correspondente y la distribución electrica correspondente hacia el Projectio, acompaticada por la Estemplia Digital Especial, y Primadas siglas en higida de la Oficinia de General de Farmissa (OSPA). (Ver Comunicado Teorica 18-01 y 17-01); y delevirá cumpilir con los siglamistes regionmentos, directrices, comunicadas e información tenicion especifica que se presenta a continuación:
- El Diseñador deberá leer y entender este informe en su totalidad. De haber dudas relacionadas al mismo, debe aciarrates con el Superintendente de ingeniería de la Región de Caguas antes de radicar el plano para endoso. En adición, debe incluir y conformar parte del plano las notas pertinentes que se específica como incluir nota al efecto en los planos de diseña".
- Asegurarse que el diseño propuesto cumpla con el Regiamento conjunto para la evaluación y expedición de permisos relacionados al desarrollo, uso de terrenos y operación de negocios del 7 de junio de 2019, los NUEVOS patrones de Construcción de LUMA y los siguientes Comunicados Tecnicos AEE:
- 07-02 Pruebas a cables saternados nuevos y sus accesarios en proyectos privados del 29 de junio de 2007.
- 12-01: Política Pública para la Construcción de Sistemas Eléctricos
- Los Criterios de Diseño para Sistemas Eléctricos Aéreos de Transmisión y Distribución deben ser tomando en consideración una velocidad probable de viento de 160 mph
- 13-03: Bases de Hormigón para Postes de Líneas Eléctricas.
- 14-03: Equipos con Alsiación en Goma de Silicón
- 15-02: Postes para Sistemas de Distribución Eléctrica Primaria
- 15-03: Revisión de Parámetros para Transformadores según Regiamentación del Departamento de Energia Federal (DOE).

- Los sistemas de alumbrado a construirse deberán cumplir con los siguientes Comunicados de la AEE:
- 07-01: Sistemas de Alumbrado
- 16-03: Proyectos de Construcción con Sistemas de Alumbrado Público; esta consulta la podrá realizar a través del correo electrónico: energio@ddec.pr.gov
- 16-04: Instalación de Luminarias Tipo Diodo Emisor de Luz (LED).
- En el sector existen líneas eléctricas aéreas, trifásica con 4 conductores calibre número 336 iv. SPACER a un voltaje de 8.32 kV.
- El voltaje de alimentación para el Proyecto será de 8.32 kV. (Relocalización de infraestructura)
- El voltaje de alimentación para el Proyecto será de 120/240V. (Proyecto =Base de Contador)
- El diseño podrá ser un sistema aéreo. (Relocalización de Infraestructura)
- El diseño deberá ser un sistema soterrado. (Provecto -Base de Contador)
- Deberá incluir en los planos de diseño las coordenadas Lambert correspondientes a la ubicación Deberá Ynoutri en les pinnes de diseño las coordenades Lambert correspondientes o la ublocolfe el Proyecte, en versión del forth internicon Datum (Mal OS) y la unidad de medidas en en estado en la companio de en el pinno de localización a ser redicado para revisión y ventrala endoso, en une ecodo de 11,000 o 11,200,000, incluír pinnes en Formato J.MPO o J.MP. en mismo deberá estar georeferenciado. Deberá presentar en los planos, cómputos de corpa, tensión y flecho para las sistemas acrites. y cómputos de cofido de vitrolig por adielette de sistema sortes. y cómputo de corpa sistemas acrites, y cómputos de cofido de vitrolig por al destete de sistema sortes. So observados en sistemas acrites, y cómputos de cofido de vitrolig por adielette de sistema sortes.
- Para todo servicio de uso exclusivo o lotificaciones, el dueño del proyecto proverá todos los materiales necesorios, incluyesto el transformacior, incluir noto al efecto en los planes de diefeticidad de l'amb de Concedin no constituye una residia de alpano de diener y normas aplicables Vigentes para los electricos en Paurio Rico. Además, devere y normas aplicables Vigentes para los electricos en Paurio Rico. Además, devere compilir con los regimentos de relevación de la Infrascututar en el espacio público (Regimento de Pienes de districos en Paurio Rico. Además, devere de Concepilo con los regimentos de defendad de la Infrascututar en el espacio público (Cope), Los sistemas de distribución y transmisión a desarrollares en estas zonas deberán segúr los guídas establecidas por este regimento, incluir nota al efecto en los planos de dietefo
- El dueño del proyecto o su representante deberá notificarie a la Oficina de Ingeniería de Distribución de la Región correspondiente el comienzo de la obra posterior al endosa de los planos y previo al inicio de los trabajos efectricos del proyecto para la requerida inspección, aprobación y coordinación necesaria. Incluir nota al efecto en los planos de diseño.
- Para servir el Proyecto, el proponente será responsable de la siguiente. Incluir notas al efecto en los planos de diseño:
- Extender el alimentador secundario, soterrado con alsamiento 600V, requerido desde el Punto de Conesión hasta el proyecto. Deberá identificar el Tunto de Entregar en los planos de diseño, según el Reglamento Complementa
- El Dueño del Proyecto deberá confirmar con el Gerente de Distrito Técnico correspondiente el voltaje primario a ser utilizado, previo a la compra de los transformadores.

- Obtener y gestionar todos los endosos de las agencias reguladoras pertinentes tales como:
- Departamento de Recursos Naturales y Ambientales (DRNA) Declaración de Impacto Ambiental (DIA),
- Instituto de Cultura Puertorriqueña División de Permisos Arqueológicos,
- Cuerpo de Ingenieros de Estados Unidos,
- Departamento de Transportación y Obras Públicas Estatal o Municipal.
- Oficina de Gerencia y Permisos (OGPe),
- Otras agencias gubernamentales, federales y privadas requeridos para el desarrollo del
- Este Proyecto está afectado por líneas eléctricas, por tanto
- El proyecto está afectado por líneos de distribución primorios y/o secundarios, y tensores. Estos ocupan una franja de servidumbre de 10 pies de ancho a la larga de las líneos en el caso de líneos oferos y 5 pies de ancho en caso de líneos soterados.
 - El dueño del proyecto es responsable de cumplir con los requisitos establecidos en el Regiamento de Servidumbres para la Autoridad de Energía Eléctrica.
- Toda nueva servidumbre para constituirse para l'ineas y equipos eléctricos debe cumplir con los requisitos establecidos en el Aplendice B del Regiamento. De igual forma, con los requisitos realcolonodos o los servidumbres asociodos a instalaciones eléctricas existentes en el Grea del
- Luaquier traceja necessir de l'expédier à ce l'expédier à ce l'experie de l'expédier de l'expédier de l'expédier à certainner de l'expédier de l'expédier à certainner de l'expédier de
- No se permite ningara construcción, modiniento de tierra, redisjo ni ninguna actividad incomposible con el derecho de serviciambre establecidos en el terreno. Se refiere ol descrottodos ol regionento 722 de 25 de enerce de 2017, Para Serviciambres Para Lo Autoridad de Energia Electrico (Regionento 722 de 25) y la Ley 143 de 1979 (Ley 143), segon forma de 1979 (Ley 143),
- D Proyecto debe cumpilir con el Regionento Complementario al Código Eléctrico Nocional, Secolin IV. Articulo C y D en su totalidad, Toma de Servicio Aferso Y. Toma de Servicio Setterados S. perentifici como punto de entrego una cuciamina de harmigino concientendo de social como de servicio de la complementa de la complementa de la considerado de la complementa del complementa del complementa del complementa del complementa del colombo del complementa d

- Incluimos como parte de esta evaluación, información aráfica sobre facilidades eléctricas
- Cualquier duda sobre esta evaluación y su contenido, puede comunicarse a nuestra oficina por el 787-521-7918 o vía email a ingenieria.DistribucionCaguas@lurnapr.com
- Esta evaluación coduca al año (1 año) de la fecha de emisión, y cancela y sustituye cualquier otra realizada previamente.



LIFE SAFETY CODE CLEARANCE TABLE

NATURE OF WIRES	COMMUNICATION GUYS	SERVICES GUYS, 0- TO 750-V CABLE	OPEN-SUPPLY WIRES, VOLTAGE TO GROUND		
CROSSED OVER			0 to 750	750 to 8,700	8,700 to 50,000
COMMUNICATION CIRCUITS	2	2	4	4	6
AERIAL SUPPLY CABLES	4	2	2	5	4
OPEN SUPPLY WIRES, 0 to 750 V	4	2	2	2	4
OPEN SUPPLY WIRES, 750 to 8,700 V	4	4	5	5	4
DPEN SUPPLY WIRES, 8,700 to 50,000 V	6	6	4	4	4
TROLLEY CONDUCTORS	4	4	4	6	6
SERVICES, GUYS, LIGHTNING- PROTECTION WIRES	2	2	2	4	4

Yo, ING, JOSE L, CRYIZ , numero de locacia in GOAC , centrico que sor y al professional que lo territorione, diseña presento contrito que entricos que destino que deba plano que ejecución con centro que entricos que destino que deba plano y ejecución conse cumplen con las referencias que entre que deba plano que entre que deba plano que entre deba de las regimentados y compositorios planos que las planos que entre deba de las regimentados y compositorios planos que con juntaciono, centro, centro de la regimentados y compositorios planos que a productivo, centro que deba planos de la regimenta del regimenta de la re

OGPe: 2024-606941-SRI-310632

LUMA: 23-2-0427 Carga: 25 KVA

Proecto: Estacionamiento Publico-Municipio De Barranquitas

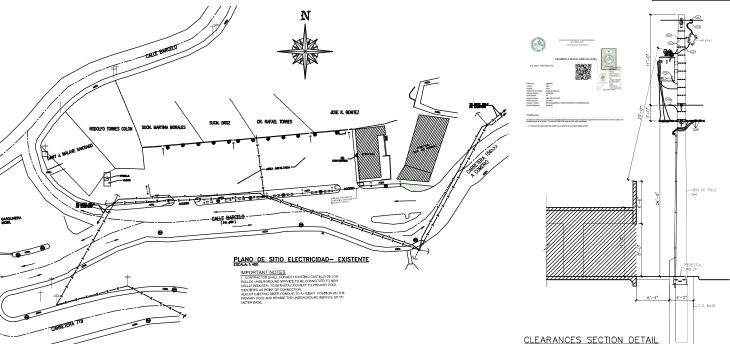
Municipio: Barranquitas

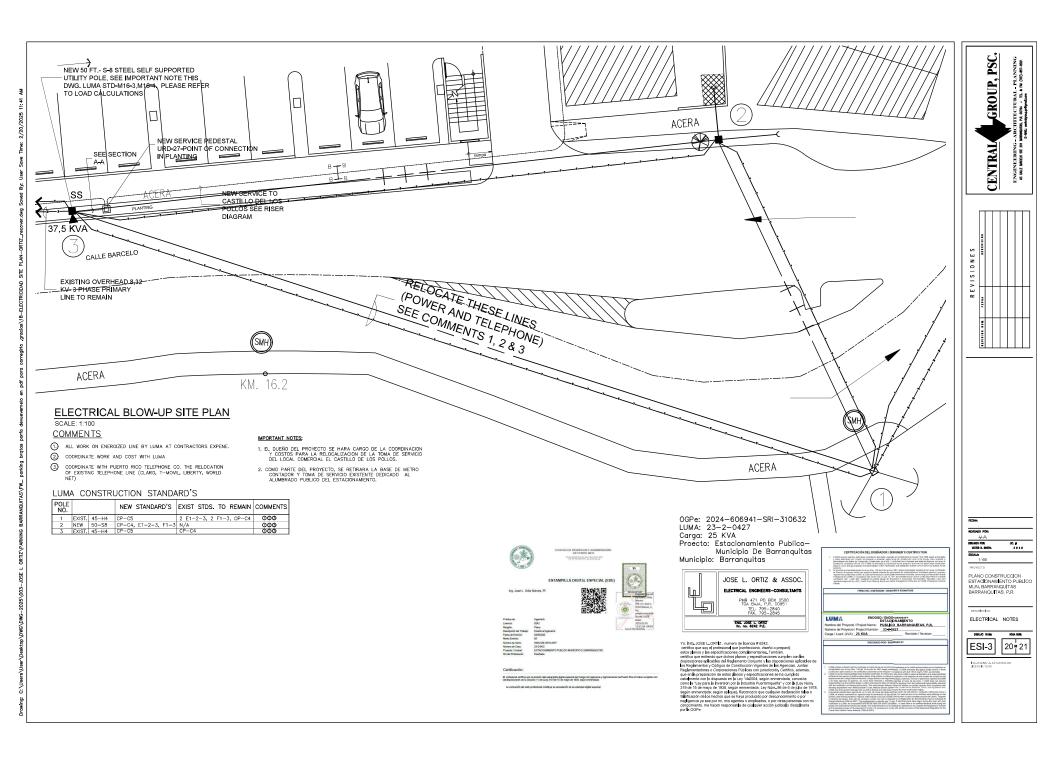




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GROUP.





NOTAS GENERALES

- Estos planos coinciden con los planos de inscripción radicados en la Administración de Reglamentos y Permisos (ARPE).
- El dueño del proyecto es responsable de gestionar y obtener, antes de la fecha de comienza de la obra, todos los endosos, permisos y servidumbres requeridas por entidades gubernamentoles, estatoles, municipales, federales y privadas concernientes al desarrollo del tipo de proyecto propuesto.
- 3. El dueño de esta obra tiene que contrator los servicios de un ingeniero licenciado y colegiado que inspeccione la construcción de las obras eléctricas de acuerdo con la Ley Núm. 7 del 19 de julio de 1985, según enmendado, y con el Reglamento de Certificación de Planos de Proyectos de Construcción Electrica de la XEE vigente. El dueño antes del comienzo del proyecto.
- 4. La ejecución de las obras eléctricas, según diseñadas en estos planos, deberá observar la mejor práctica de la industria eléctrica y construcción de acuerdo con las normas y reglamentación adoptadas por la AEE y apeciais concernientes, al igual que con los códigos, NEC y NESO. y demás estandares de IEEE, NFA, NEMA y ANSI adoptados.
- 5. El controlisto no está autorizado o hacer variaciones a este diseño. Es responsabilidad del controlista consultar con el diseñador o inspector designado para esta obra cualquier duda que sur ja de la interpretación de los plonos, de la ejecución de los obras propuestos, especificaciones técnicas o discrepancias entre las condiciones existentes en el campo y aquellos utilizados para propósitos de diseño.
- 6. El dueño o contratista eléctrico notificará a la AEE el comienzo de estas obras, mediante la entrega del documento Notificación de Comienzo de Proyecto en el Departamento de Ingeniería de Distribución de la Región correspondiente, con por la menos quince días de anticipación a la fecha propuesta.
- 7. El inspector privado y el contratista eléctrico son responsables de asistir a una reuni\u00e3n de preconstrucci\u00e3n a coordinarse con el Deportamento de Ingenier\u00eda de Distribuci\u00f3n de la Regi\u00e3n correspondiente.
- 3. Todo trabojo a realizarse en Ifineas energizadas, incluyendo la conexión de esta obra, tiene que ser realizado por la AEE. El proponente tiene que asumir todos los costos ce equipo, materiales y labor. El proponente tiene que solicitor o la AEE un estimado para estos trabajos, el cual tendrá una vigencia de tres meses desde su varietirio.
- Se prohíbe la realización de cualquier tipo de trabajo en las franjas de servidumbre eléctrica sin la autorización por escrito de la AEE.
- La AEE no aprobará la conexión de proyectos con condiciones de invasión de servidumbre o que no cumplan con los despejos de seguridad requeridos.

NOTAS ESPECIALES

- 1. El dueño del proyecto aportará a la AEE:
- a la cantidad de \$___N/A___ porc mejoras al sistema eléctrico
- a las obras requeridas en la evcluación para este proyecto del <u>de</u> Esta aportación se realiza según la carga propuesta de acuerdo con el Reglamento para Determinar y Cobrar las Aportaciones de Personas o Instituciones en Proyectos de Desarrollo vigente.
- La AEE no conectará el proyecto a su sistema eléctrico hasta tanto el dueño constituya las servidumbres requeridas de acuerdo con el Reglamento de Servidumbres para la Autoridad de Energía Eléctrico. Esta nota aplica a toda servidumbre requerida, ya seo dentro como fuero de los limites cel proyecto.
- 3. La instalación de sistemas de medición tiene que coordinarse con la Oficina de Medición de la región correspondiente. El diseñador o el contratista eléctrico tiene que asegurarse de consultar con esta oficina sobre los equipos y materiales a utilizarse acemás de la ublicación del equipo.
- La instalación de subestaciones, transformadores u otro equipo eléctrico sobre sistemas de alcantarillado, líneas de agua u otros utilidades está prohibida.

MATERIALES

- Todos los equipos a utilizarse en la construcción tienen que cumplir con los estándares de IEEE, ANSI, NEMA y ASTM.
- El contratista es responsable de verificar con la AEE que todo material o equipo a utilizarse esté aprobado por la AEE previo a su instalación. La AEE se reserva el derecho de aceptor cualquier equipo que se le voya a transfer.
- Todo equipo y material (incluyendo transformadores y gabinetes de subestaciones) a ser instalados a una milla o menos de distancia de cuerpos de agua saldat diene que ser construido en acero inoxidable, con excepción de los bases de medidores.
- En los sistemas soterrados, tienen que utilizarse cobles primarios con terminaciones de 15 kV para voltajes de distribución y de 46 kV para líneas de 38 kV.
- En los sistemas aéreos, tienen que utilizarse aisladores de polímero de 15 kV para voltajes de distribución y de 46 kV para líneas de 38 kV.
- El contratista será responsable de rotular todo transformador a ser transferido a la AEE con un rúmero de propiedad provisto por el Deportamento de Ingeniería de Distribución correspondiente

SISTEMAS

- 1. El dueño del proyecto es responsable de realizar las pruebas de los cobles primarios y secundarios con sus terminaciones. Los resultados de estas pruebas tienen que estar de acuerdo con los parámetros establecidos por la AEE para las mismas. Estas pruebas tienen que realizarse en coordinación con un representante de la Oficina de carrespondiente.
- Durante la instalación del cable, éste debe estar protegido de la humedad y abrasiones. El contratista es responsable de instalar el cable mediante las prácticas recomendadas de halado para no exceder la tensión especificada para el cable.
- Las tapas de registros (manholes) a ser instalados en el área de siembra tienen que estar protegidas mediante una loza de hormigón reforzado, según especificado en el patrón URB DS7.
- En aquellos casos donde el proyecto esté localizado a menos de una milla de cuerpos de agua solado, los conductos ascendentes tienen qu ser de PVC Schedule 80 o de fiberglass, según aprobado por la AEE.
- Las bancadas del sistema soterrado serán inspeccionadas por la AEE antes de ser cubiertas y compactadas.
- Toda bancada expuesta a tráfico vehícular tendrá que ser protegida con hormigán. Aquellas que se encuentren cerca de instalaciones de otras utilidades tendrán un despejo mínimo de 13 pulgados de éstas.
- La cantidad de fusibles de remplazo que proveerá el contratista será la misma cantidad de los instalados en cada subestación.
- Los conectores que se utilizarán para la conexión a tierra de antenas y subestaciones serán de soldadura exatérmica (thermo-weld) o de compresión
- El contratista proveerá cable de halado (fishwire) en cada conducto de resquardo.
- 10. Todo sistemo de distribución tendrá una resistencia máxima a tierra de 10 chmios. Se instadrá una verilla para conectar a tierra el neutral en cada cuatro postes o cada 1,000 pies y en todos los transformadores.
- Cada base de hormigón para poste tiene que incluir dos conductos de resquardo para uso futuro, según requerido por la AEE.
- Las bases para postes tienen que ser inspeccionadas por la AEE en su etapa de construcción.

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Caraa: 25 KVA

Proecto: Estacionamiento Publico— Municipio De Barranquitas Municipio: Barranquitas

JOSE L. ORTIZ & ASSOC.

ELECTRICAL ENGINEERS-CONSULTANTS

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TON BAUN, P.R. 100951
PRI. 795-2849

CERTIFICACION CELL CRESCADOR / CRESCADOR /

ENG. JOSE L. ORTIZ

ENDOSO / ENDOSEMENT

STACE/IN-MIGETY

Namero del Proyecto / Project Name: Publico BARRANOUTAS, P.P.

Namero del Proyecto / Project Name: 23-0-0427

Revisión / Revisi

25 KVA Revision /



Pridetion de: Livereila: Penglin: Descripción del Trabajo: Fedha de Enrisido: Montes Destido: Número de Serio: Número de Caso: Propesto / Unidad: Del del Drinkstonel:

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fencile:

El profesional certifica con la emisión de la estampilia digital especial del Colegio de Ingenieros y Agrimensores de Puerto Rico el haber cumplido con las disposiciones de la Sección 11 de la Ley 319 del 15 de mays de 1308, según enmendada.

Le colocación del sello profesional constituye la cancelación de la estempilla digital especial

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Va Inc., 2008 L. OPTIC . movem delonosis 8 502.

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DESCRIPCION: ELECTRICAL NOTES

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IG. RAFAEL A. ZAYAS ROLON