



U.S. Department of Housing and Urban Development

451 Seventh Street, SW
Washington, DC 20410
www.hud.gov

espanol.hud.gov

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

Pursuant to 24 CFR 58.35(a)

Project Information

Project Name: Rehabilitación Plaza de Recreo Cristóbal Colon (PR-CRP-000446)

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

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

State/Local Identifier: Puerto Rico

Preparer: Erick A. Pagán Ortiz / Environmental Specialist / Sharetech Group

Certifying Officer Name and Title:

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

Consultant (if applicable): Sharetech Group, Road #1 KM 34.4, Plaza Bairoa Suite 215, Caguas, Puerto Rico 00725

Direct Comments to: Puerto Rico Department of Housing;
comentariosambiental@vivienda.pr.gov

Project Location: Rehabilitación Plaza de Recreo Cristóbal Colon (PR-CRP-000446) is located between the streets Derkes, Calimano, Santiago Paler and Vicent Pales Matos of the Municipality of Guayama. (Coordinates: 17.985154, -66.113570). Cadaster Number: 420-042-103-01



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

The proposed project consists of the comprehensive rehabilitation of the Plaza Cristóbal Colón in Guayama, with improvements designed to restore its function as a safe, accessible, and attractive public space. The scope of work includes the demolition and full replacement of the existing plaza floor slab and surrounding surfaces, ensuring a uniform and durable pedestrian area. Existing ramps will be demolished and replaced with new ADA-compliant access ramps to improve accessibility. Protective walls will be constructed around the electrical panel area, and the existing fountain will undergo improvements, including the relocation of the pump to optimize its operation. The project also includes the relocation of existing monuments to integrate them into the redesigned layout, as well as the planting of new trees and vegetation to enhance the landscape and provide natural shading. A new irrigation system will be installed to ensure sustainable maintenance of the green areas. Additionally, a modern sound and lighting system will be incorporated to support community events and improve safety. Site furnishings will be upgraded with the replacement of trash cans and the refurbishing of existing benches, while new curbs will be constructed to define circulation patterns and organize vehicular and pedestrian areas.

Level of Environmental Review Determination:

Categorically Excluded per 24 CFR 58.35(a), and subject to laws and authorities at §58.5: Categorically Excluded per 24 CFR 58.35 (a), and subject to laws and authorities at 58.35 (a) (1) Acquisition, repair, improvement, reconstruction, or rehabilitation of public facilities and improvements (other than buildings) when the facilities and improvements are in place and will be retained in the same use without change in size or capacity of more than 20 percent

Funding Information

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

Estimated Total HUD Funded Amount: \$4,072,537.00

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$4,072,537.00

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

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

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes No ☐ ☒	The closest airports to the Project site are the Civil airport at Mercedita International Airport in Ponce is 35.11 miles (185,380 feet) to the west, The closet military airfield (Luis Muñoz Marin Airport) is 54.17 miles (286,017 feet) to the north. Project is not located within 15,000 feet of a military airport or 2,500 feet of a civilian airport. Therefore, the topic complies with the 24 CFR Part 51 Subpart D. Refer to map in Appendix B Exhibit #1.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No ☐ ☒	The Project site is not located in or adjacent to a CBRS Unit. The nearest CBRS is PR-43P at 6.46 miles (34,108 feet) to the southeast. Therefore, the Project is in compliance with the Coastal Barrier Resources Act (CBRA), as amended by the Coastal Barrier Improvement Act (CBIA) of 1990 [16 U.S.C. § 3501]". Refer to map in Appendix B to map in Appendix B Exhibit #2.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes No ☐ ☒	The project site is located in Zone X, as identified on Flood Insurance Rate Map (FIRM) 72000C2130J, effective November 18, 2009. Flood insurance is not required by the National Flood Insurance Program (NFIP). Therefore, the project complies with the Flood Disaster Protection Act of 1973 and the National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]. Refer to map in Appendix B, Exhibit #3.

STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5

Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes No ☐ ☒	Guayama is an area in attainment, and no new emissions sources will result from the project. Therefore, the Project is in compliance with the Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93. Refer Appendix B to EPA Greenbook (SO2 Nonattainment Areas) Exhibit 4 and in Appendix C-Exhibit 6 – Contamination and Toxic Substances
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes No ☐ ☒	The Project site is not located in a Coastal Zone; it is 2.0 miles from the Coast Zone. Therefore, the Project is in compliance with the Coastal Zone Management Act, sections 307(c) & (d). Refer to map in Appendix B Exhibit 5.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes No ☐ ☒	The proposed project site is not on an EPA Superfund National Priorities or CERCLA list or equivalent stat list. Within a radius of 3,000 feet, there are several EPA facilities including 2 water discharge sites (NPDES) and 11 hazardous waste (RCRA) facilities. NPDES: Municipality of Guayama - PRR040061 and PRASA Guayama WTP-PR0022578. RCRA: Pontificia Universidad Católica - PR0000930487, PRASA Guayama Microbiological Lab - PRD987378312, Kmart 3853 - PRR000007641, PUCPR Guayama Center – PRD987381514, Ismael Esso Service Station – PRN008006074, Rudy Service Station– PRO008006033, Shell Co PR Ltd SS 2852, Jobos Shell – PRR000005041, Shell Co PR Ltd SS 2852 Jobos – PRR000005504, Farmacia El Amal 22 – PRR000014027, Casa Luis Pales Matos – PRR000021568, Farmacia Pabon – PRR000027359. There was No Violation Identified in almost all the facilities except for PRASA, but this will not affect the intended use of the property, because the intended uses will be for community activities. A site visit was conducted on April 11, 2023, to document the site’s general conditions, and no evident sources of contamination were identified. An Asbestos Containing Materials (ACM) dated May 8, 2023, and Lead Based Paint (LBM) dated May 12, 2023, were conducted at the site. Both surveys resulted negative for the presence of asbestos and lead-based paint. Included as appendix C- Exhibit #6 and report Exhibit #6-B Exhibit #6-M in Appendix D.

		The Grant Recipient provided a certification that project area free of material containing ACM or LBP. PRDOH informed (see Memorandum to File of 08/7/2025 in Appendix D – Exhibit #14) that the several agencies consulted confirmed the lack of scientific data on Radon testing for Puerto Rico and the technical difficulties that we face in Puerto Rico to comply with HUD’s Radon testing requirement. Accordingly, Radon testing is infeasible and impracticable for this property, and no further consideration of Radon is needed for the environmental review. Therefore, according to the available information and the information provided by the Gran Recipient, this topic is in compliance with 24 CFR Part 50.3(i) & 58.5(i)(2). Appendix D – Exhibit #14.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes No ☐ ☒	PRDOH submitted the Self-Certification to the USFWS under criteria 2, 8, and 9 on June 28, 2024. The USFWS certified the submission on July 11, 2024. The only potential species identified for this project is the Puerto Rico Boa. The proposed works consist of the rehabilitation of the “Plaza de Recreo Cristóbal Colón. The works consist of the rehabilitation of the “Plaza de Recreo Cristóbal Colón”. The project will have no potential to affect species or habitats due to the nature of the activities involved in the project. If a Puerto Rico Boa is encountered, work will cease until it moves off the site or, failing that, the USFWS will be notified to relocate the Boa. Therefore, the Project is in compliance with the Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402. Refer to map in Appendix B Exhibit #7 for the Puerto Rico Boa and Appendix F for the USFWS Endangered Species Act Certifications.

Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes No ☐ ☒	According to the HUD Environmental Standards under 24 CFR Part 51 Subpart C, an on-site assessment is required only when the proposed activity will result in an increase in residential, institutional, recreational, commercial, or industrial densities, or when it involves a conversion of land use. The current project does not meet any of these conditions; therefore, this requirement is not applicable. Accordingly, the project is in compliance with 24 CFR Part 51 Subpart C.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes No ☐ ☒	The project resides on Not Prime Farmland. The project site does 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 involve any activities, such as new construction, acquisition of undeveloped land, or conversion, that could result in the conversion of agricultural land to non-agricultural use. Therefore, the project complies with the Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658. Refer to map in Appendix B Exhibit #8.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes No ☐ ☒	The proposed project is not located within the floodplain. According to Advisory Base Flood Elevation (ABFE), issued on May 12, 2018. The project is located in zone X. According to the Flood Insurance Rate Map (FIRM), effective on November 18, 2009, the project is in Zone X Area of Minimal Flood (Map number 72000C2130J). Therefore, this topic is in compliance with Executive Order 11988, particularly section 2(a); 24 CFR Part 55. For reference, please see the floodplain termination map included in Appendix B – Exhibit #3.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes No ☒ ☐	A Section 106 Effect Determination Form (EDF) was prepared by Archaeologist Maritz Torres Martínez (SOI-Qualified Archaeologist) and Architect Heidi J. Dilan (SOI-Qualified Architect), who conducted the historical, archaeological, and architectural evaluations for the property. The form was subsequently edited by Imandra Martínez Castañeda, assisted by Larissa García Cabrera, and submitted to PRSHPO on December 20, 2024. In a letter issued on February 10, 2025, which replaced the January 30, 2025, determination, PRSHPO concurred that the proposed project would have no adverse effect on historic properties within the Area of Potential Effect, conditioned on the implementation of archaeological

		monitoring during all ground-disturbing activities. On February 17, 2025, PRSHPO received the Archaeological Monitoring Plan prepared by Imandra Martínez, with the assistance of Archaeologist Larissa García Cabrera. On March 19, 2025, PRSHPO issued a concurrence letter confirming that the Archaeological Monitoring Plan was deemed acceptable and approved its implementation. Accordingly, the project is in compliance with the National Historic Preservation Act of 1966, particularly Sections 106 and 110, as well as 36 C.F.R. Part 800. Refer to Appendix E.
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes No ☐ ☒	In accordance with the Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978, and pursuant to the requirements of 24 CFR Part 51 Subpart B, this regulation is not applicable to the proposed activity. The project scope does not include new residential construction or the rehabilitation of existing residential properties; 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 not EPA sole source aquifers in Puerto Rico. The closest SSA of the project is located in Florida, USA, at 1050 miles (5,552,640 feet). This project is in compliance with the Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149. Refer to map in Appendix B Exhibit #9.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes No ☐ ☒	The National Wetlands Inventory (NWI) mapping shows there are no wetlands within or adjacent to the project site. The distance to the nearest wetland is 0.39 miles (2,048.21ft). Therefore, this topic complies with the Executive Order 11990, particularly sections 2 and 5. Refer to map in Appendix B to map in Appendix B-Exhibit # 10.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes No ☐ ☒	Puerto Rico has only three Wild and Scenic Rivers which locates in the east side of Puerto Rico. The proposed project is located on the south side of Puerto Rico, 45.05 miles from the project site. There would be no impact to Wild and Scenic Rivers. Therefore, this topic complies with the Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c). Refer to map in Appendix B to map in Appendix B-Exhibit # 11.

Field Inspection (Date and completed by):

- **Field Assessment** Recognition and data collection of the structures in the Plaza Recreo Cristobal Colon 04/11/2023 (Sharetech Group) (Exhibit 15)
- **Asbestos and Lead inspection / Subsurface Utility Exploratory Survey** 04/21/2023 (Sharetech Group)
- **Surveying studies** 04/21/2023 (fss. Land Surveyors & Consultants)
- **Subsurface Utility Exploratory Survey** 05/16/2023(Sharetech Group)

Summary of Findings and Conclusions:

The initial field inspections were comprised by the lead architect, environmental hazard engineers, archaeologist and architect consults. The inspections served to begin the dedicated assessment for each particular field that was being reviewed.

The activity will be performed in an urban setting, where no impact to endangered or threatened species is expected. Also, the action particular field that was being reviewed.

The environmental hazard review served to prepare the “Lead based paint survey” report (4.21.2023) and Asbestos containing materials report (4.21.2023) for the property that disclosed that it does not have the presence of lead-based paint and asbestos-containing material.

The environmental review confirms that this project does not represent a significant environmental impact due to the urban surroundings in which it is located.

The SHPO determined that there will be no adverse impacts upon historic properties, subject to archaeological monitoring during ground-disturbing activities.

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

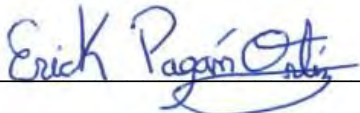
Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development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

Law, Authority, or Factor	Mitigation Measure: The mitigation Measure are focus on minimizing impacts to natural resources, surrounding communities, and historical or cultural assets. Vegetation and Landscaping Tree Preservation: Protect existing mature trees; use fencing during construction. Noise and Air Quality Construction Timing: Limit construction activities to daylight hours to reduce noise disturbance.
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	Dust Control: Use water sprays to suppress dust during dry periods. Cultural and Historical Resources Site Surveys: Conduct archaeological or historical assessments before ground disturbance. Adaptive Design: Modify plans to preserve or highlight cultural or historical features. Public Safety and Accessibility ADA Compliance: Ensure all pathways and amenities are accessible to people with disabilities. Lighting and Visibility: Design lighting to enhance safety while minimizing light pollution. Community Engagement Stakeholder Input: Hold public consultations to identify and address local concerns. Interpretive Signage: Include educational materials about the environment, history, or sustainability features of the square. This project will comply with all applicable local, municipal, and federal permits.
National Historic Preservation Act (NHPA)	The following conditions must be complied with: (a) an archaeological Supervision/Monitoring with a plan of inadvertent discovery of cultural materials and human remains, (b) a Protection Plan during the construction of the identified historical properties (c) and the execution of controlled demolition in the APE. SHPO concurred with the finding on a letter dated February 10, 2025, conditioned to archeological monitoring during demolition and ground disturbing activities, along with desk- based research and protection of the identified historical properties. The Archeological Monitoring and Protection Plan was approved on March 19, 2025.
Endangered Species Act (ESA)	The USFWS IpaC tool identified the potential presence of <i>Chilabothrus inornatus</i>. To avoid or minimize impacts, the following measures will be implemented: a pre-construction briefing for all project personnel, with educational posters displayed on site; clear demarcation of work limits and exclusion of forested areas; a pre-clearance survey conducted by a biologist or experienced personnel prior to vegetation removal and earth-moving activities; immediate cessation of work in any area where a boa is detected and coordination with PRDNER for relocation, with work resuming only once the animal is out of harm's way; documentation of all sightings with photos, coordinates, date, and time; daily inspection of machinery staged near potential habitat to prevent injury or entrapment; management of debris piles away from wooded areas and thorough inspection before moving or disposing of them; and compliance with all applicable state and federal laws and regulations. These measures will be maintained throughout construction, and any incidents will be reported to the appropriate authorities. See USFWS Endangered Species Act Certifications. (Appendix F)

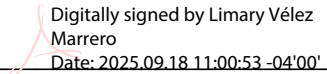
Determination:

- ☐ This categorically excluded activity/project converts to Exempt, per 58.34(a)(12) because there are no circumstances which require compliance with any of the federal laws and authorities cited at §58.5. **Funds may be committed and drawn down after certification of this part** for this (now) EXEMPT project; OR
- ☒ This categorically excluded activity/project cannot convert to Exempt because there are circumstances which require compliance with one or more federal laws and authorities cited at §58.5. Complete consultation/mitigation protocol requirements, **publish NOI/RROF and obtain "Authority to Use Grant Funds"** (HUD 7015.16) per Section 58.70 and 58.71 before committing or drawing down any funds; OR
- ☐ This project is now subject to a full Environmental Assessment according to Part 58 Subpart E due to extraordinary circumstances (Section 58.35(c)).

Preparer Signature:  Date: 09/16/2025

Name/Title/Organization: Erick A. Pagán Ortiz / Environmental Specialist / Sharetech Group

Responsible Entity Agency Official Signature:

  Digitally signed by Limary Vélez Marrero
Date: 2025.09.18 11:00:53 -04'00' Date: 09/18/2025

Name/Title: Limary Vélez Marrero / 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).

Table of Content for Appendix:

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Appendix B

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Exhibit 7: Endangered Species - Puerto Rico Boa
Exhibit 8: Farmland Classification
Exhibit 9: Sole Source Aquifers Map
Exhibit 10: Wetlands Protection Map
Exhibit 11: Wild and Scenic Rivers Map

Appendix C

Exhibit 6-A: Toxics within 3,000 ft

Appendix D

Exhibit 6-B: Prasa WTP Guayama Filter Plant (ECHO detailed facility report)
Exhibit 6-C: Farmacia Pabón ((ECHO detailed facility report)
Exhibit 6-D: Municipality of Guayama (ECHO detailed facility report)
Exhibit 6-E: PUCPR Guayama Center (ECHO detailed facility report)
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Exhibit 6-I: Shell CO PR LTD SS 2852 Jobos (ECHO detailed facility report)
Exhibit 6-J: Pontifica Universidad Catolica (ECHO detailed facility report)
Exhibit 6-K: RUDY Service Station (ECHO detailed facility report)
Exhibit 6-L: Ismael EESO Service Station (ECHO detailed facility report)
Exhibit 6-M: Homeca Recycling Center CO Inc. (ECHO detailed facility report)
Exhibit 6-N: KMART 3853 (No Biennial Report data is available for the facility)
Exhibit 12: Asbestos Containing Building Materials Inspection Report
Exhibit 13: Lead Based Paint Inspection Report
Exhibit 14: Justification for the Infeasibility and Impracticability of Radon Testing
Exhibit 15: Field Inspection Report

Appendix E

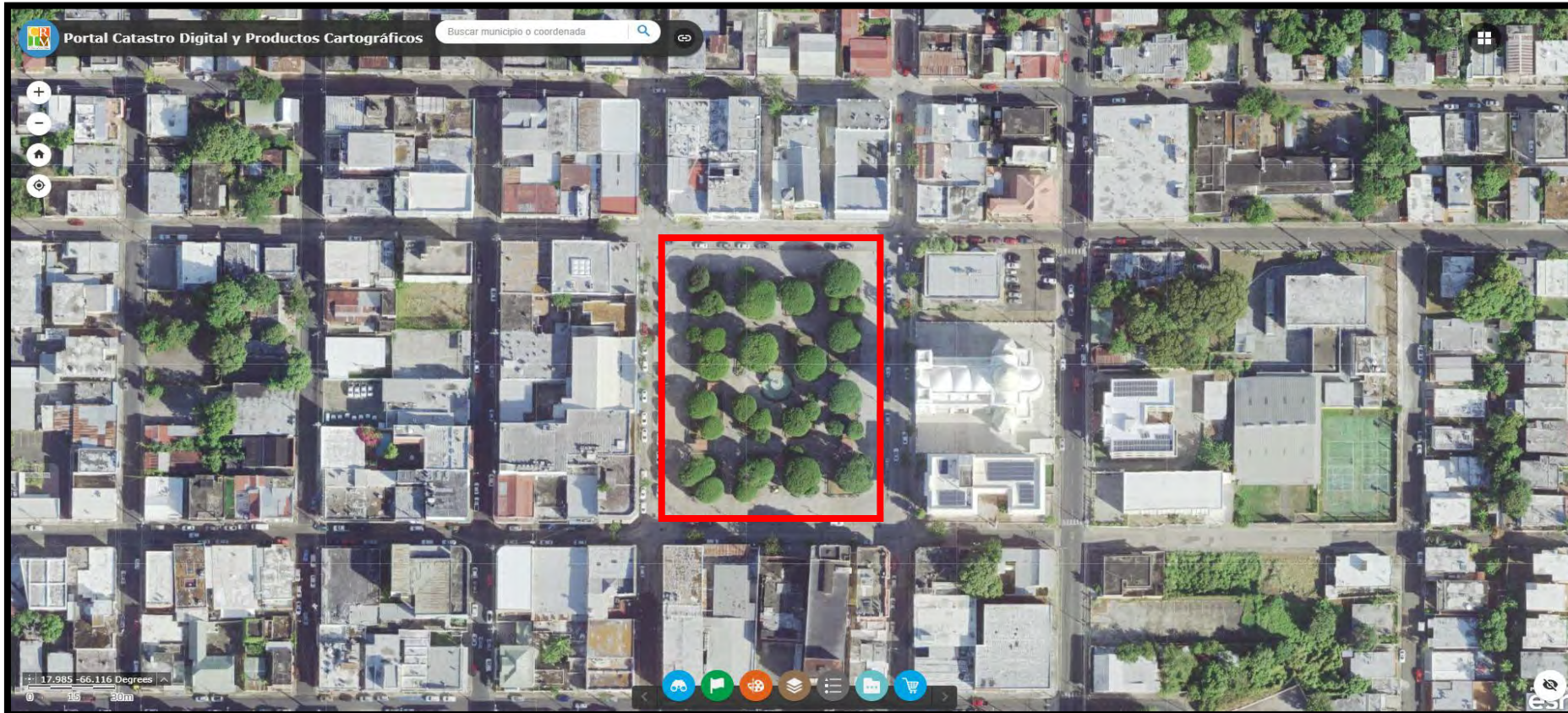
Level of Environmental Review Determination
Section 106 Effect Determination Form
Archaeological Monitoring Plan

Appendix F

USFWS Endangered Species Act Certifications

APPENDIX A

EXHIBIT 0



Legend

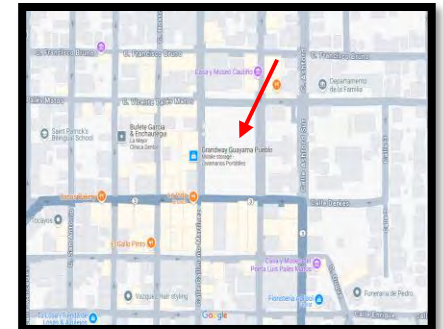
— Project Area

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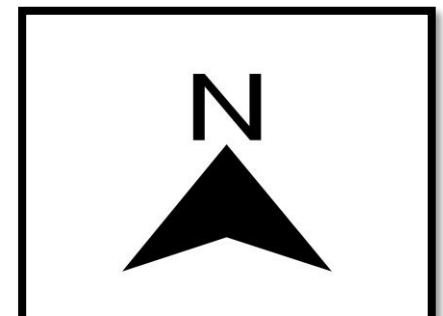
Streets Derkes, Calimano, Santiago
Paler and Vicent Pales Matos,
Guayama, Puerto Rico

Coordinates:

Lat: 17.985259, Long: -66.113578
Nad83: X: 233866.6418
Y: 216837.7465



Project Area Map “Rehabilitación Plaza de Recreo Cristóbal Colón” (PR-CRP- 000446)



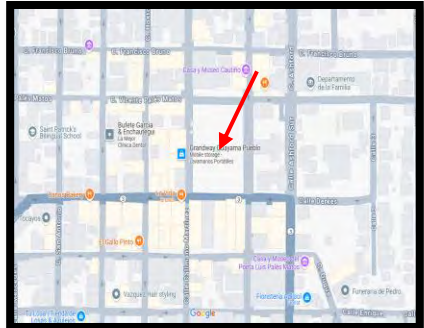
Reference: <https://catastro.crimpr.net/cdprpc/>

APPENDIX B

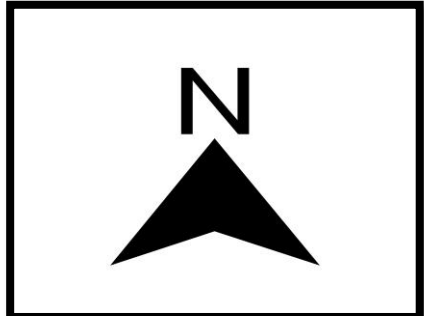


Address:
Streets Derkes, Calimano, Santiago
Paler and Vicent Pales Matos,
Guayama, Puerto Rico

Coordinates:
Lat: 17.985259, Long: -66.113578
Nad83: X: 233866.6418
Y: 216837.7465



Airport Map
“Rehabilitación Plaza de Recreo Cristóbal Colón”
(PR-CRP- 000446)





CBRS Units

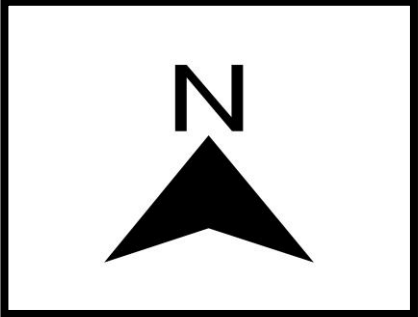
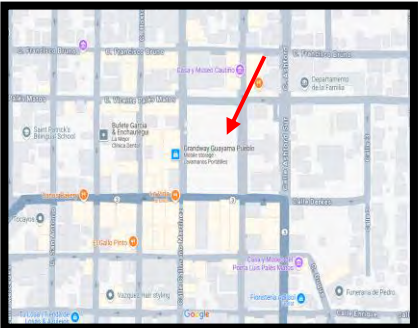
-  Otherwise Protected Area
-  System Unit

Address:

Streets Derkes, Calimano,
Santiago Paler and Vicent Pales
Matos, Guayama, Puerto Rico

Coordinates:

Lat: 17.985259, Long: -66.113578
Nad83: X: 233866.6418
Y: 216837.7465





Gobierno de Puerto Rico
Junta De Planificación de Puerto Rico
Administrador Estatal de Valles Inundables
Oficina de Geología e Hidrogeología

Determinación Número
2023-00-JDI-9184

DETERMINACIÓN DE INUNDACIÓN

Determinación sobre la clasificación de una propiedad respecto a las Áreas Especiales de Riesgo a Inundación en Puerto Rico

Número de Catastro 420-042-103-01	Nombre de la Comunidad Participante Comunidad Participante de Puerto Rico	Número de la Comunidad Participante 720000#
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Información de la Propiedad

Municipio Guayama	Barrio Barrio Pueblo	Carretera y Sector Calle Derkes Guayama Puerto Rico	Plus Code 779MXVPP+3H	Coordenadas X:233866.6 Y:216837.7
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Información sobre el Mapa de Tasas del Seguro de Inundación

(FIRM, por sus siglas en inglés)

Número del Mapa de Inundación, FIRM 72000C2130J	Vigencia 18/Nov/2009	Status de Panel Printed	Zona Inundable X
Cauce Mayor (Sí, No, No determinado) No	¿La propiedad ubica en un área especial de riesgo a inundación del 1% de probabilidad? No	Nivel de Inundación Base (MSL) No Aplica	Profundidad de Inundación Base (Solo aplica a Zona AO) No Aplica
Sistema de Barreras Costeras (Sí o No)/Fecha de Designación No Aplica	Tipo de Barrera Costera No Aplica	Cuenca Hidrográfica (USGS) Cuenca del Río Humacao hasta el Río Seco	
Nombre del Cuerpo de Agua Adyacente (cuando es VE es el mar, primera fase el cuerpo de agua mas cercano) Quebrada Branderí (Quebradas) a 2208.4 m.			¿Se propone depósito de relleno? No

Información sobre el Mapa de Niveles de Inundación Base Recomendados

(ABFE, por sus siglas en inglés)

Número del Mapa de Inundación 72000C2130J	Vigencia 13/Apr/2018	Zona Inundable Fuera mapa (ABFE)
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La Junta de Planificación de Puerto Rico, en su resolución JP-ABFE_01 del 23 de marzo de 2018, **requiere que para toda nueva construcción o mejora sustancial, otorgación de permisos según aplique en su ámbito jurisdiccional cumpla con los Mapas de Niveles de Inundación Base Recomendados** preparados por la Agencia Federal para el Manejo de Emergencias (FEMA, por sus siglas en inglés); excluyendo de su uso determinaciones o decisiones relacionadas al seguro de inundación NFIP, por sus siglas en inglés.

Determinación

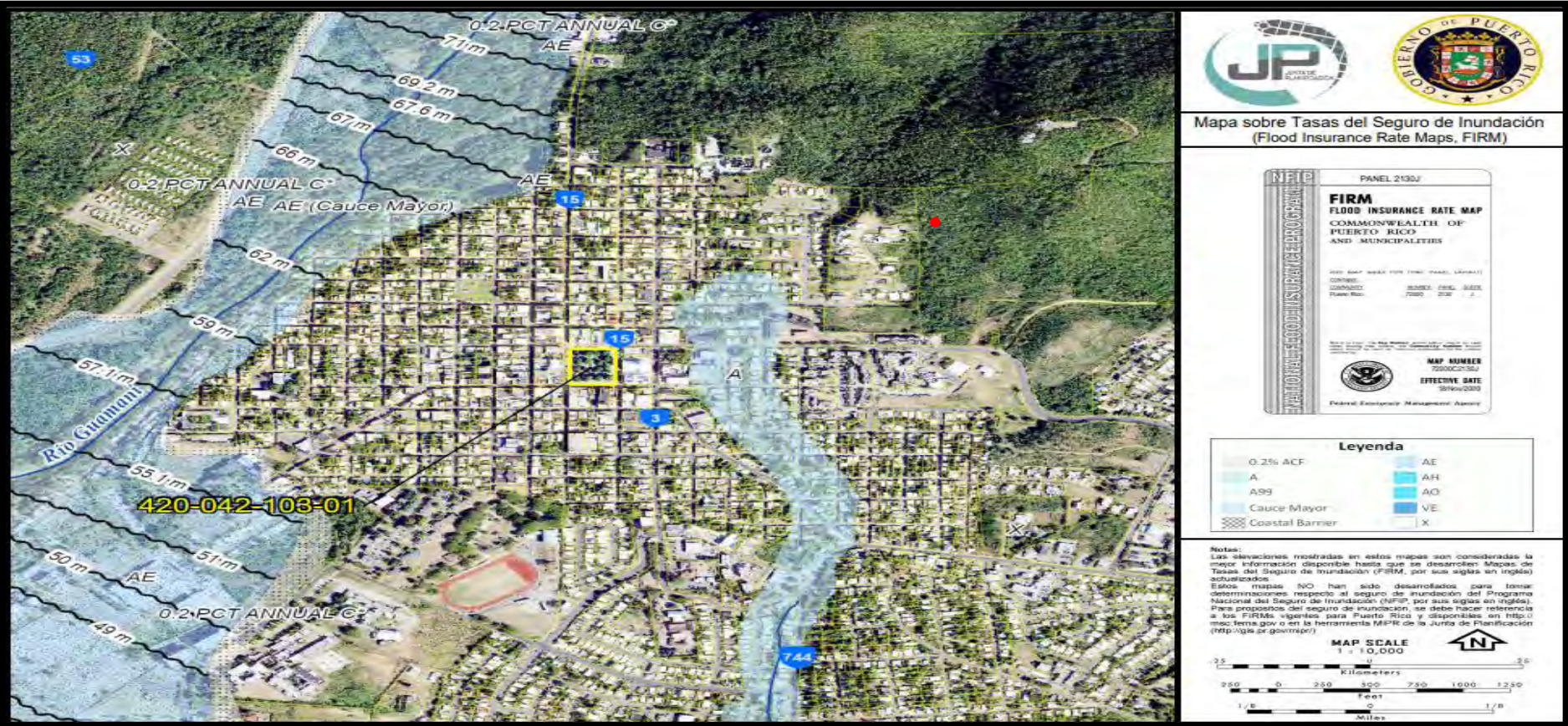
Esta determinación está basada en datos de la Junta de Planificación y datos obtenidos de los Mapas de Tasas del Seguro de Inundación vigentes y no determina la localización exacta de una estructura dentro de una propiedad. Se advierte que una propiedad no localizada dentro del área inundable regulatoria (inundación del 1% de probabilidad o inundación con recurrencia de 100 años) pudiera ser afectada por inundaciones locales o inundaciones de otras recurrencias no reflejadas en estos mapas. Para propósitos del seguro de inundación, el mapa oficial es el DFIRM, adoptado por la Junta de Planificación de Puerto Rico. La clasificación parcial entre dos o más zonas, prevalecerá la más estricta.

Si la propiedad está en un Área Especial de Riesgo [Peligro] a Inundación, se requiere cumplir con las disposiciones del Reglamento de Planificación No. 13 vigente y será requerido cumplir con la Ley Federal de Protección a Desastres del año 1973. Para las zonas A, AE, AO, AH, A99 y VE es requisito obligatorio adquirir un seguro de inundación para propiedades con hipotecas respaldadas federalmente.

Solicitante Municipio Guayama

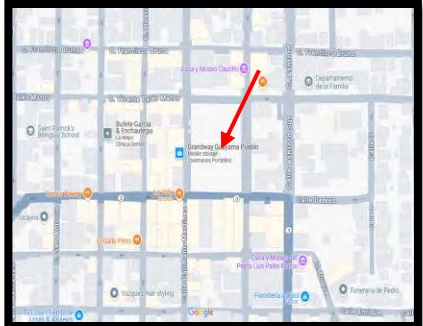
Contáctenos en avipr@jp.pr.gov

Fecha de Emisión 01/Aug/2023

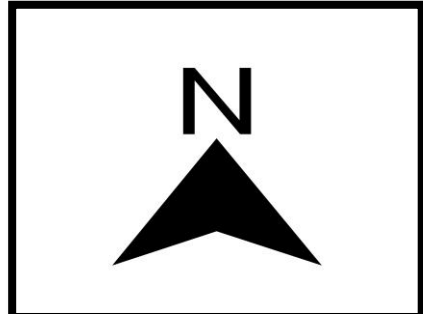


Address:
Streets Derkes, Calimano, Santiago
Paler and Vicent Pales Matos,
Guayama, Puerto Rico

Coordinates:
Lat: 17.985259, Long: -66.113578
Nad83: X: 233866.6418
Y: 216837.7465



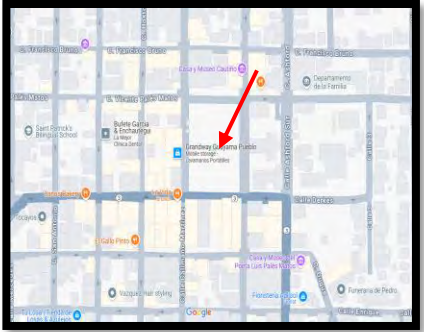
Flood Insurance Map
“Rehabilitación Plaza de Recreo Cristóbal Colón”
(PR-CRP- 000446)



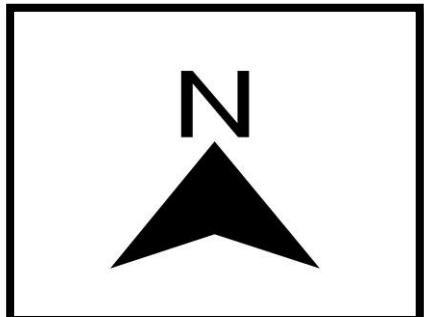


Address:
Streets Derkes, Calimano, Santiago
Paler and Vicent Pales Matos,
Guayama, Puerto Rico

Coordinates:
Lat: 17.985259, Long: -66.113578
Nad83: X: 233866.6418
Y: 216837.7465



Flood Insurance Map
“Rehabilitación Plaza de Recreo Cristóbal Colón”
(PR-CRP- 000446)





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 July 31, 2023

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

Important Notes

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

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or Part County	Population (2010)	State/County FIPS Codes
PUERTO RICO								
Arecibo Municipio	Lead (2008)	Arecibo, PR	11121314151617181920212223	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	929394959697989900010203040506070809	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	181920212223	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	52,441	72/137

Important Notes

Discover.

Connect.

Ask.



Legend

- Critical Habitat
- Critical Habitat - Polygon Features - Final

Address:

Streets Derkes, Calimano, Santiago
Paler and Vicent Pales Matos,
Guayama, Puerto Rico

Coordinates:

Lat: 17.985259, Long: -66.113578
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Y: 216837.7465



Puerto Rico SO2 Nonattainment Areas (2010 Standard) “Rehabilitación Plaza de Recreo Cristóbal Colón” (PR-CRP- 000446)





Legend

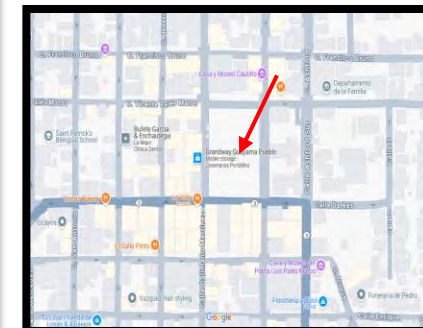
- Project Area

Address:

Streets Derkes, Calimano, Santiago
Paler and Vicent Pales Matos,
Guayama, Puerto Rico

Coordinates:

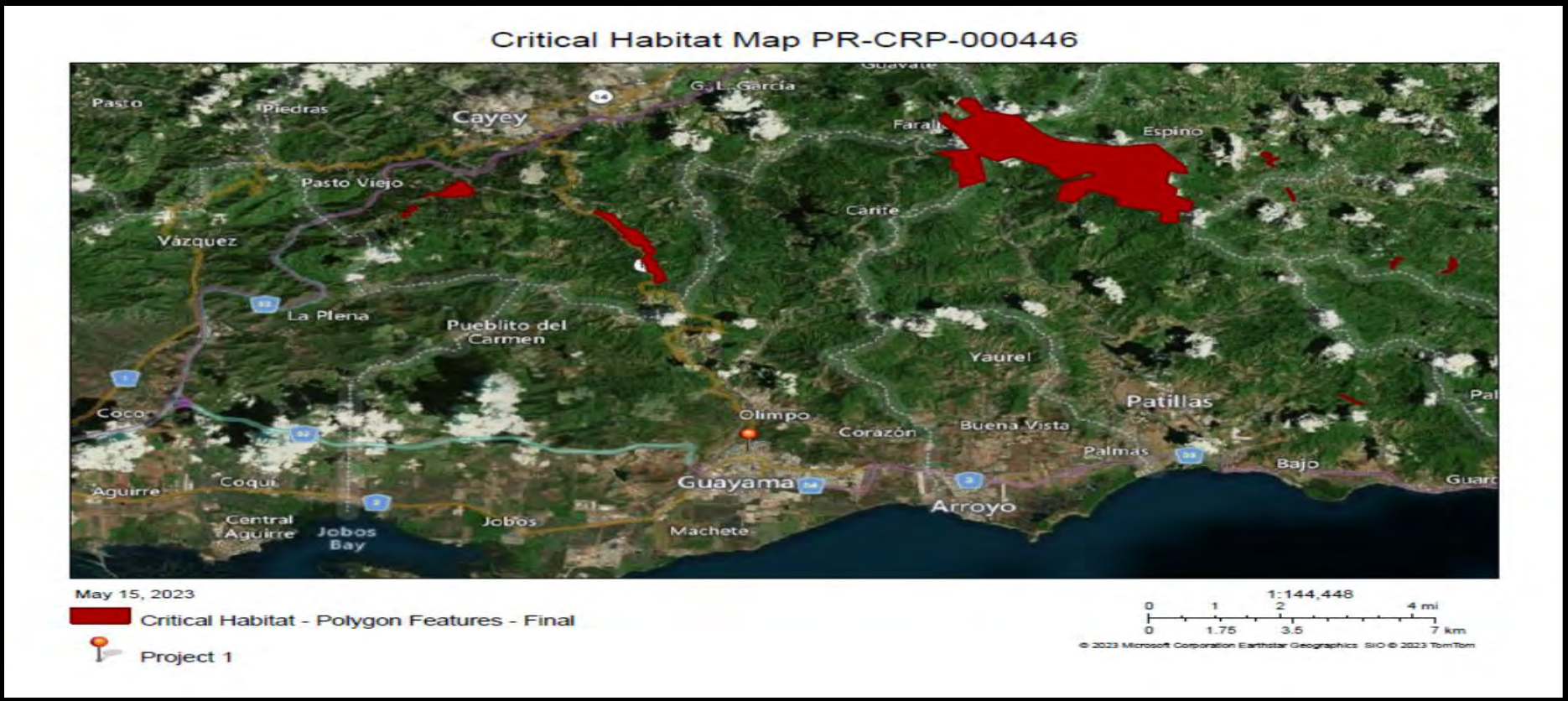
Lat: 17.985259, Long: -66.113578
Nad83: X: 233866.6418
Y: 216837.7465



Coastal Zone Management “Rehabilitación Plaza de Recreo Cristóbal Colón” (PR-CRP- 000446)



Reference: <https://gis.jp.pr.gov/mipr/>

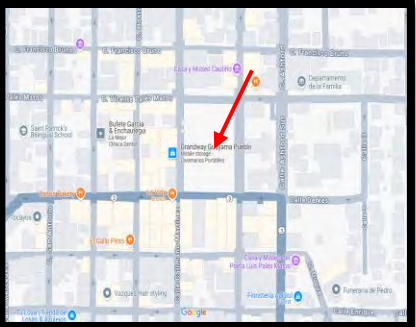


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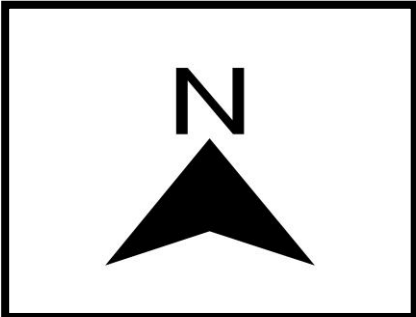
- ☐ Critical Habitat
- ☒ Critical Habitat - Polygon Features - Final

Address:
Streets Derkes, Calimano, Santiago
Paler and Vicent Pales Matos,
Guayama, Puerto Rico

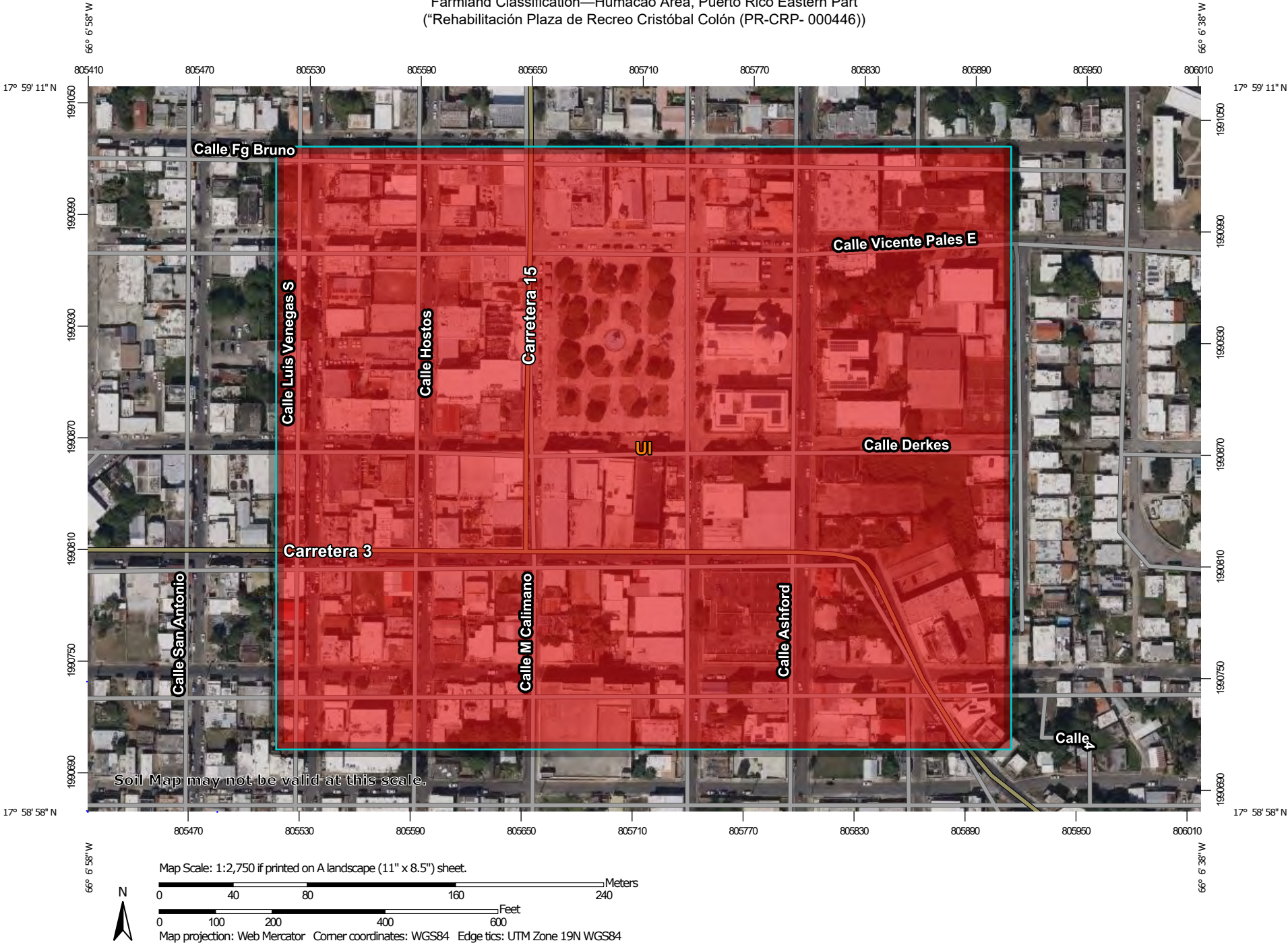
Coordinates:
Lat: 17.985259, Long: -66.113578
Nad83: X: 233866.6418
Y: 216837.7465



Critical Habitat
“Rehabilitación Plaza de Recreo Cristóbal Colón”
(PR-CRP- 000446)



Farmland Classification—Humacao Area, Puerto Rico Eastern Part
("Rehabilitación Plaza de Recreo Cristóbal Colón (PR-CRP- 000446))



Farmland Classification—Humacao Area, Puerto Rico Eastern Part
 ("Rehabilitación Plaza de Recreo Cristóbal Colón (PR-CRP- 000446))

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 irrigated
-  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

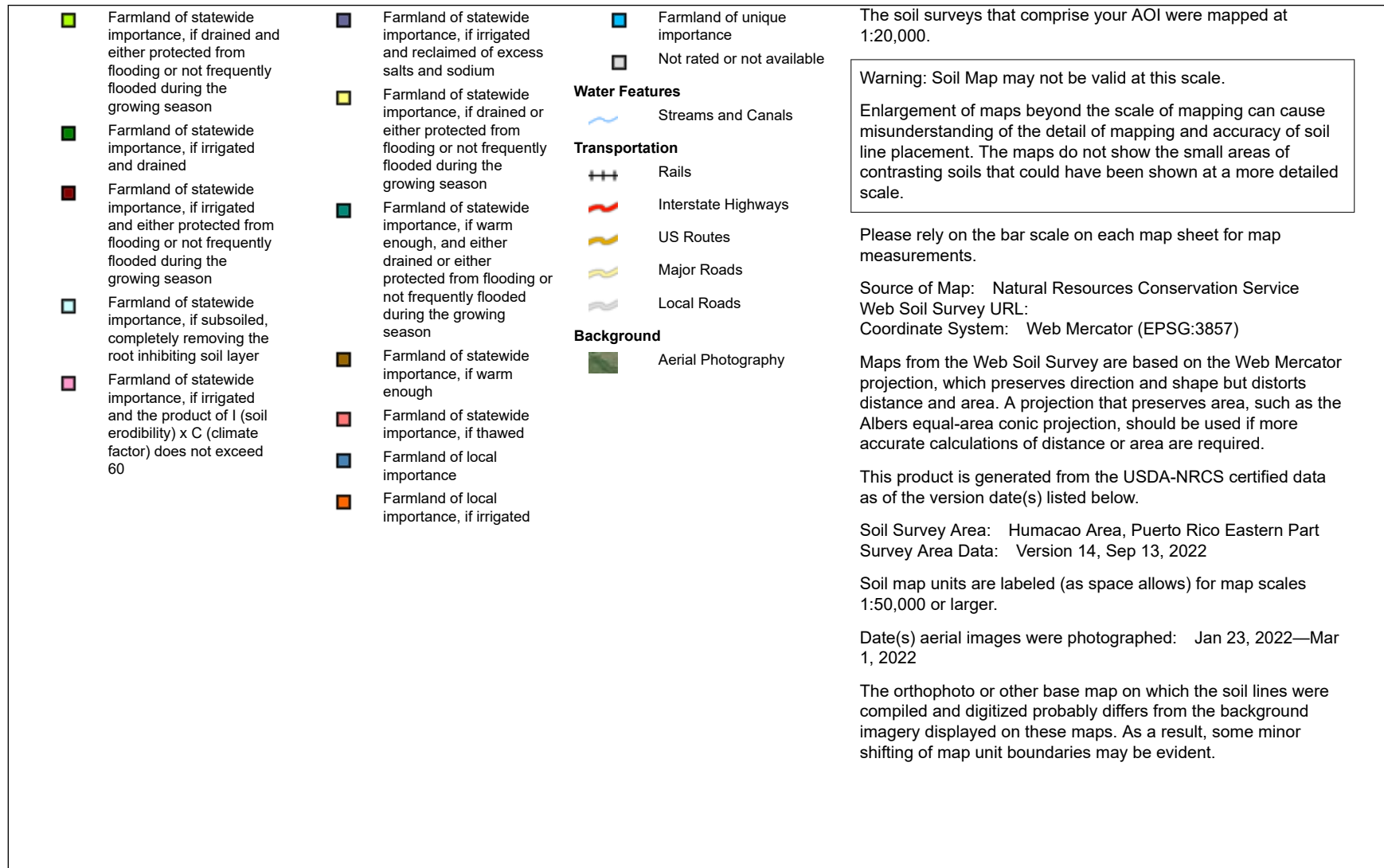
Soil Rating Lines

-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  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

Farmland Classification—Humacao Area, Puerto Rico Eastern Part
 ("Rehabilitación Plaza de Recreo Cristóbal Colón (PR-CRP- 000446))

	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 flooded during the growing season		Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium		Farmland of unique importance		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		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 growing season	Soil Rating Points			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, if irrigated and 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		Not prime farmland		Prime farmland if irrigated and reclaimed of excess salts and sodium
	Farmland of statewide importance		Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer		Farmland of statewide importance, if warm enough		Prime farmland if protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance
	Farmland of statewide importance, if drained		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 thawed		Prime farmland if irrigated		Farmland of statewide importance, if drained
	Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season				Farmland of local importance		Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
	Farmland of statewide importance, if irrigated				Farmland of local importance, if irrigated		Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if irrigated

Farmland Classification—Humacao Area, Puerto Rico Eastern Part
 ("Rehabilitación Plaza de Recreo Cristóbal Colón (PR-CRP- 000446))



Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UI	Urban land	Not prime farmland	31.9	100.0%
Totals for Area of Interest			31.9	100.0%

Description

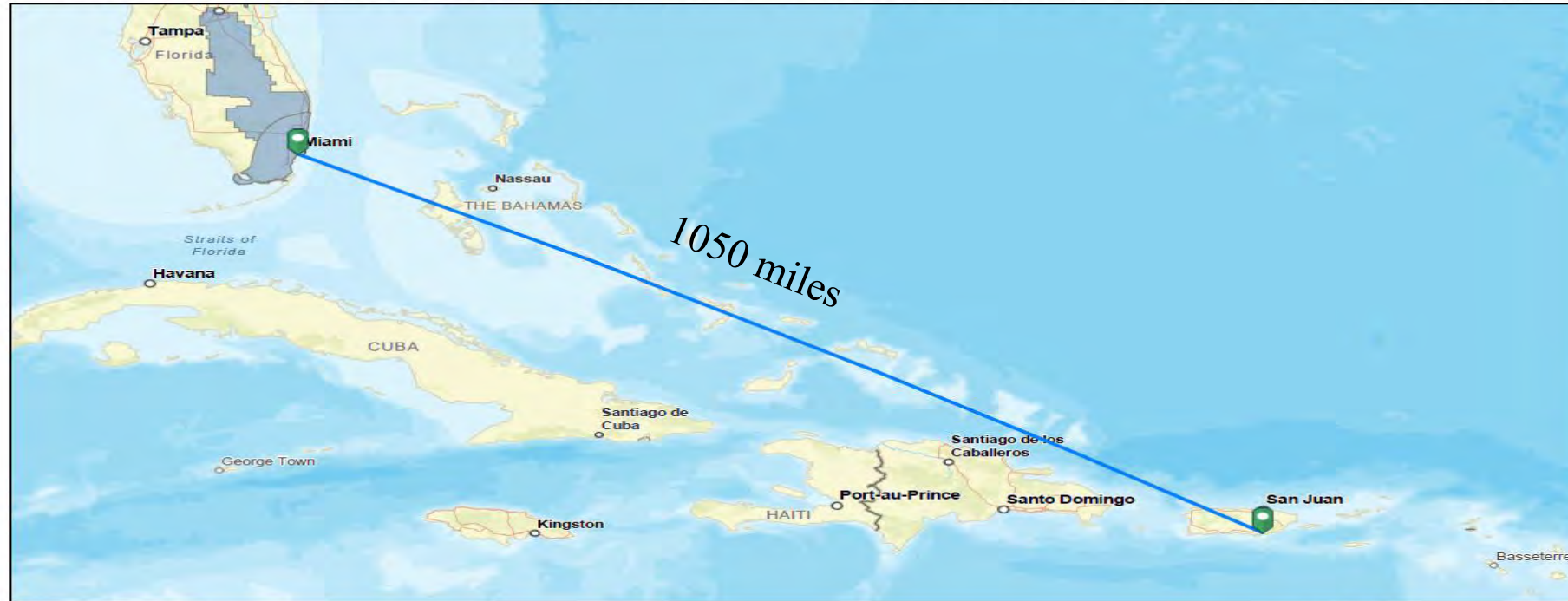
Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

Rating Options

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

Sole Source Aquifers - Rehabilitación Plaza de Recreo Cristobal Colón” (PR-CRP- 000446)



3/13/2025, 9:14:37 AM

Sole_Source_Aquifers

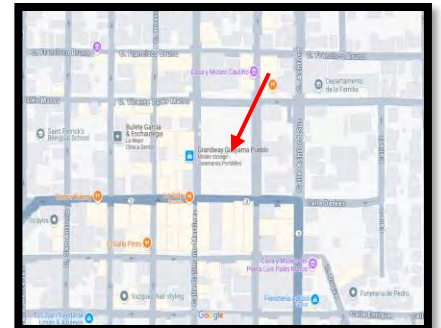
1:9,244,649
0 70 140 280 mi
0 115 230 460 km
Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA

Address:

Streets Derkes, Calimano, Santiago
Paler and Vicent Pales Matos,
Guayama, Puerto Rico

Coordinates:

Lat: 17.985259, Long: -66.113578
Nad83: X: 233866.6418
Y: 216837.7465



Sole Source Aquifers
“Rehabilitación Plaza de Recreo Cristóbal Colón”
(PR-CRP- 000446)

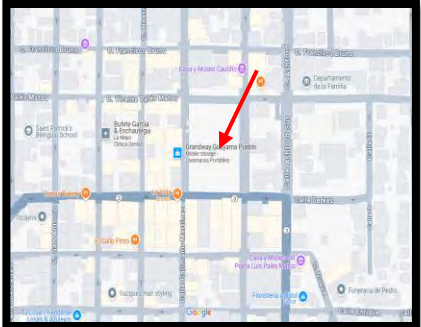


Wetlands Map PR-CRP-000446



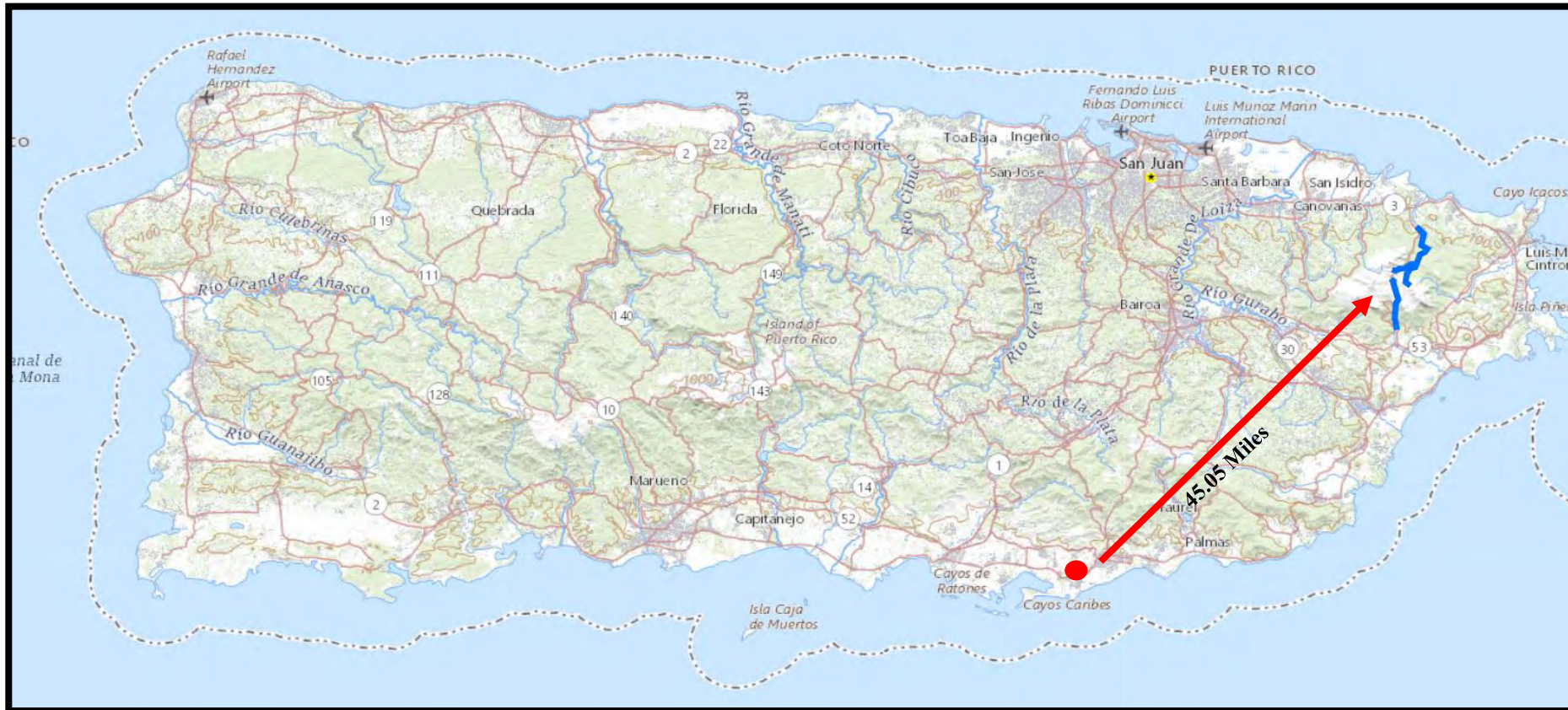
Address:
Streets Derkes, Calimano, Santiago
Paler and Vicent Pales Matos,
Guayama, Puerto Rico

Coordinates:
Lat: 17.985259, Long: -66.113578
Nad83: X: 233866.6418
Y: 216837.7465



Wetlands Protection Map
“Rehabilitación Plaza de Recreo Cristóbal Colón”
(PR-CRP- 000446)





Legend

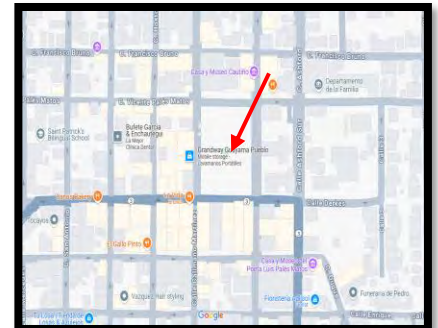
- National Wild and Scenic River
- Project Area

Address:

Streets Derkes, Calimano, Santiago Paler and Vicent Pales Matos, Guayama, Puerto Rico

Coordinates:

Lat: 17.985259, Long: -66.113578
Nad83: X: 233866.6418
Y: 216837.7465



Wild and Scenic Rivers Map “Rehabilitación Plaza de Recreo Cristóbal Colón” (PR-CRP- 000446)

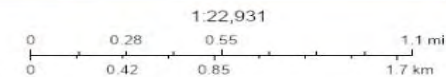


APPENDIX C

 Project Buffer
  Hazardous Waste (RCRAInfo)
  Water Dischargers (NPDES)

 Plaza Cristobal Colon
  Hazardous Waste (RCRAInfo)
  Water Dischargers (NPDES)

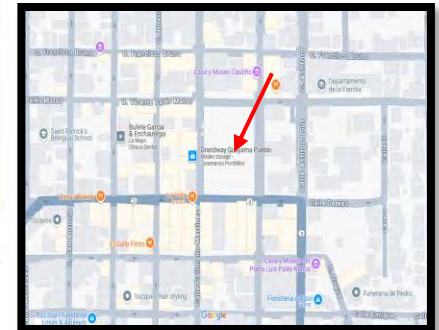
 Toxic Releases (TRI)
  Air Pollution (ICIS-AIR)
  Search Result (point)



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

Streets Derkes, Calimano, Santiago
Palmer and Vicent Pales Matos,
Guayama, Puerto Rico

Lat: 17.985259, Long: -66.113578
Nad83: X: 233866.6418
Y: 216837.7465



APPENDIX D

Detailed Facility Report



Detailed Facility Report

Facility Summary

PRASA WTP GUAYAMA FILTER PLANT

CORNER OF J.M. & ANGELI STREET, GUAYAMA, PR 00784

FRS (Facility Registry Service) ID: 110009814969
EPA Region: 02
Latitude: 17.990035
Longitude: -66.111372
Locational Data Source: FRS
Industries: --
Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	02/23/2018
Compliance Status	Violation Identified
Qtrs in Noncompliance (of 12)	9
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): Minor, Permit Admin Continued (PR0022578)
Resource Conservation and Recovery Act (RCRA): No Information
Safe Drinking Water Act (SDWA): No Information
[Go To Enforcement/Compliance Details](#)
[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		110009814969					N	17.990035	-66.111372
ICIS		2656995					N	17.990521	-66.11461
ICIS		2658320					N	17.990521	-66.11461
ICIS-NPDES	CWA	PR0022578	Minor: NPDES Individual Permit	Admin Continued		01/31/2023	N	17.9925	-66.115

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110009814969	PRASA WTP GUAYAMA FILTER PLANT	CORNER OF J.M. & ANGELI STREET, GUAYAMA, PR 00784	Guayama Municipio
ICIS		2656995	PRASA GUAYAMA WTP	CORNER OF J.M. & ANGELI STREETS, GUAYAMA, PR 00784	Guayama Municipio
ICIS		2658320	PRASA GUAYAMA WTP	CORNER OR J.M. & ANGELI STREETS, GUAYAMA, PR 00784	Guayama Municipio
ICIS-NPDES	CWA	PR0022578	PRASA GUAYAMA WTP	CORNER OF J.M. & ANGELI STREET, GUAYAMA, PR 00654	Guayama Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	PR0022578	4941	Water Supply

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
No data records returned			

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description
PR0022578	000	No Applicable Effluent Guidelines

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
No data records returned			

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
CWA	PR0022578	ICIS-NPDES	Offsite Record Review	Base Program - Desk Audit	EPA	05/21/2021	

Entries in *italics* are not counted as EPA official inspections.

Compliance Summary Data

Statute	Source ID	Current <u>SNC</u> (Significant Noncompliance) / <u>HPV</u> (High Priority Violation)	Current As Of	Qtrs with <u>NC</u> (Noncompliance) (of 12)	Data Last Refreshed
CWA	PR0022578	No	03/31/2023	9	07/28/2023

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type				QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13
CWA (Source ID: PR0022578)					04/01-06/30/20	07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23
	Facility-Level Status				Violation Identified	Violation Identified	Violation Identified	Violation Identified	Violation Identified	Violation Identified	Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	Violation Identified	No Violation Identified	Violation Identified
Quarterly Noncompliance Report History					Reportable Noncompliance	Reportable Noncompliance	Reportable Noncompliance	Reportable Noncompliance	Reportable Noncompliance	Reportable Noncompliance	Reportable Noncompliance	Resolved - Pending	Resolved - Pending	Resolved - Pending	Reportable Noncompliance	Resolved - Pending	
	Pollutant	Disch Point	Mon Loc	Freq													
► CWA	<u>BOD, 5-day, 20 deg. C</u>	001 - A	Effluent Gross	NMth	1420%	804%		136%	102%	154%	600%	84%	50%	48%	414%	60%	22
► CWA	<u>Copper, total (as Cu)</u>	001 - A	Effluent Gross	NMth					61%	31%	182%	111%		1111%	88%		3
► CWA	<u>Lead, total (as Pb)</u>	001 - Q	Effluent Gross	NMth							219%		2149%				
► CWA	<u>Temperature, water deg, centigrade</u>	001 - A	Effluent Gross	NMth						3%							
► CWA	<u>Turbidity</u>	001 - A	Effluent Gross	NMth							LIMIT VIOLATION	LIMIT VIOLATION		LIMIT VIOLATION	LIMIT VIOLATION		
► CWA	<u>pH</u>	001 - A	Effluent Gross	Neither		LIMIT VIOLATION											
Late or Missing Discharge Monitoring Report (DMR) Measurements																	
Counts of Late DMR Measurements															11		

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
No data records returned					

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

Formal Enforcement Actions

Last 5 Years

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

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100040503	Quebrada Corazon at mouth	GUAMANI RIVER	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
PR	2020	PRSQ47A	QUEBRADA CORAZON	Impaired - With Restoration Plan	PATHOGENS	Not Assessed	Insufficient Information	--	Not Supporting	--

Air Quality Nonattainment Areas

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

Pollutants

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

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

[DMR and TRI Multi-Year Loading Report](#)

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

NPDES ID	Description	2019	2020	2021	2022	2023
PR0022578	DMR Pollutant Loadings (lb/year)	17,427	4,347	10,674	6,386	6,684
PR0022578	DMR Pollutant Loadings - Load Over Limit (lb/year)	8,456	3,397	1,470	1,088	815
PR0022578	DMR Conventional Loadings (lb/year)	--	--	--	2,079	--
PR0022578	DMR Conventional Loadings - Load Over Limit (lb/year)	--	--	--	1,065	--
PR0022578	DMR Toxic-Weighted Loadings (lb-eq/year)	15.50	2.37	8.71	28.45	2.05
PR0022578	DMR Toxic-Weighted Loadings - Load Over Limit (lb-eq/year)	6.17	0.0081	3.53	22.31	0

Community

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the [EJScreen home page](#).

EJScreen Indexes Shown

Compare to

☒ US ☐ State

Index Type

☐ Environmental Justice ☒ Supplemental

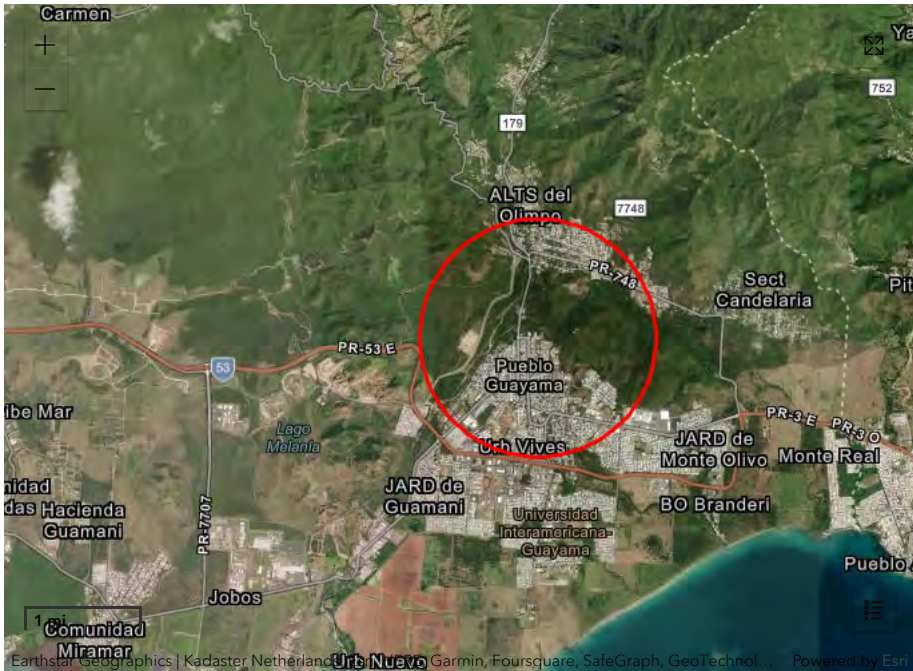
Related Reports

[EJScreen Community Report](#)

Download Data

Census Block Group ID: 720572705004	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	7	7
Particulate Matter 2.5	0	--
Ozone	0	--
Diesel Particulate Matter	0	--
Air Toxics Cancer Risk	35	38
Air Toxics Respiratory Hazard Index	17	23
Toxic Releases to Air	87	95
Traffic Proximity	99	99
Lead Paint	95	99
Risk Management Plan (RMP) Facility Proximity	99	99
Hazardous Waste Proximity	90	98
Superfund Proximity	99	99
Underground Storage Tanks (UST)	0	84
Wastewater Discharge	99	99

☐ Facility 1-mile Radius ☐ Facility Census Block Group



Demographic Profile of Surrounding Area (1 mile)

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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics (U.S. Census)	
Total Persons	10,260
Population Density	3,247/sq.mi.
Housing Units in Area	5,324

General Statistics (ACS (American Community Survey))	
Total Persons	7,018
Percent People of Color	100%
Households in Area	3,172
Households on Public Assistance	619
Persons With Low Income	5,841
Percent With Low Income	83%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.990035
Center Longitude	-66.111372
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,701 (53.64%)
\$15,000 - \$25,000	692 (21.82%)
\$25,000 - \$50,000	545 (17.19%)
\$50,000 - \$75,000	135 (4.26%)
Greater than \$75,000	98 (3.09%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	640 (6%)
Minors 17 years and younger	2,476 (24%)
Adults 18 years and older	7,784 (76%)
Seniors 65 years and older	1,947 (19%)

Race Breakdown (U.S. Census) - Persons (%)	
White	7,206 (70%)
African-American	1,840 (18%)
Hispanic-Origin	10,167 (99%)
Asian/Pacific Islander	21 (0%)
American Indian	74 (1%)
Other/Multiracial	1,118 (11%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	592 (12.62%)
9th through 12th Grade	442 (9.42%)
High School Diploma	1,977 (42.14%)
Some College/2-year	572 (12.19%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	895 (19.08%)

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)



Detailed Facility Report

Facility Summary

FARMACIA PABON

89 NORTE CALLE CALIMANO, GUAYAMA, PR 00784

FRS (Facility Registry Service) ID: 110071140116

EPA Region: 02

Latitude: 17.988255

Longitude: -66.114036

Locational Data Source: RCRAINFO

Industries: Health and Personal Care Stores

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active VSQG, (PRR000027359)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110071140116					N	17.988255	-66.114036
RCRAInfo	RCRA	PRR000027359	VSQG	Active (H)			N	17.988255	-66.114036

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110071140116	FARMACIA PABON	89 NORTE CALLE CALIMANO, GUAYAMA, PR 00784	Guayama Municipio
RCRAInfo	RCRA	PRR000027359	FARMACIA PABON	89 NORTE CALLE CALIMANO, GUAYAMA, PR 00784	Guayama Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
No data records returned			

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	PRR000027359	44611	Pharmacies and Drug Stores

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000027359	No	03/15/2025	0	03/14/2025

Three-Year Compliance History by Quarter

[illegible]

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
---------	--------	-----------	----------------	-------------	------

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
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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))		Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Total Persons	6,420	Children 5 years and younger	321 (5%)
Population Density	2,058/sq.mi.	Minors 17 years and younger	1,237 (19%)
Housing Units in Area	4,187	Adults 18 years and older	5,180 (81%)
Percent People of Color	100%	Seniors 65 years and older	1,617 (25%)
Households in Area	3,041		
Households on Public Assistance	402	Race Breakdown (ACS (American Community Survey)) - Persons (%)	
Persons With Low Income	5,371	White	3,036 (47%)
Percent With Low Income	84%	African-American	985 (15%)
		Hispanic-Origin	6,362 (99%)
		Asian	0 (0%)
		Hawaiian/Pacific Islander	0 (0%)
		American Indian	1 (0%)
		Other/Multiracial	920 (14%)
Geography		Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Radius of Selected Area	1 mi.	Less than 9th Grade	521 (12.09%)
Center Latitude	17.988255	9th through 12th Grade	342 (7.94%)
Center Longitude	-66.114036		
Total Area	3.121 sq.mi.		
Land Area	100%		
Water Area	0%		

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,631 (53.6%)
\$15,000 - \$25,000	606 (19.91%)
\$25,000 - \$50,000	577 (18.96%)
\$50,000 - \$75,000	137 (4.5%)
Greater than \$75,000	92 (3.02%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	1,728 (40.11%)
Some College/2-year	622 (14.44%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	837 (19.43%)

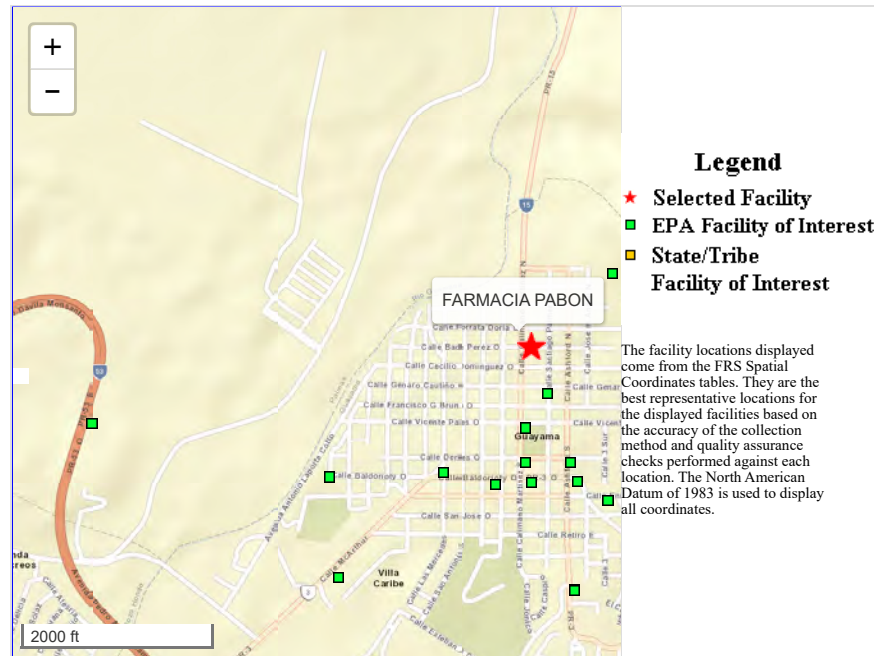
Related Topics: Envirofacts

FRS

FRS Facility Detail Report

FARMACIA PABON

EPA Registry Id: 110071140116
89 NORTE CALLE CALIMANO
GUAYAMA, PR 00784



Facility Registry Service Links:

- Facility Registry Service (FRS) Overview
- FRS Facility Query
- FRS Organization Query
- EZ Query
- FRS Physical Data Model
- FRS Geospatial Model

[Report an Error](#)

Environmental Interests

Information System	System Facility Name	Information System Id/Report Link	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM	FARMACIA PABON	PRR000027359	VSQG (Y)	RCRAINFO		

Additional EPA Reports: [MyEnvironment](#) [Enforcement and Compliance](#) [Site Demographics](#) [Facility Coordinates Viewer](#) [Environmental Justice Map Viewer](#) [Watershed Report](#)

Standard Industrial Classification Codes (SIC)				
No SIC Codes returned.				
Facility Codes and Flags				
EPA Region:	02			
Duns Number:				
Congressional District Number:	00			
Legislative District Number:				
HUC Code/Watershed:	21010004 / SOUTHERN PUERTO RICO			
US Mexico Border Indicator:				
Federal Facility:	NO			
Tribal Land:	NO			
Alternative Names				
No Alternative Names returned.				
Organizations				
Affiliation Type	Name	DUNS Number	Information System	Mailing Address
OPERATOR	INES V ROSARIO RIVERA		RCRAINFO	View
OWNER	INES V ROSARIO RIVERA		RCRAINFO	View

National Industry Classification System Codes (NAICS)					
Data Source	NAICS Code	Description	Primary		
RCRAINFO	44611	PHARMACIES AND DRUG STORES			
Facility Mailing Addresses					
Affiliation Type	Delivery Point	City Name	State	Postal Code	Information System
FACILITY MAILING ADDRESS	89 NORTE CALLE CALIMANO	GUAYAMA	PR	00784	RCRAINFO
OWNER	89 NORTE CALLE CALIMANO	GUAYAMA	PR	00784	RCRAINFO
OPERATOR	89 NORTE CALLE CALIMANO	GUAYAMA	PR	00784	RCRAINFO
REGULATORY CONTACT	ROAD 710 2.4 KM	GUAYAMA	PR	00653	RCRAINFO
Contacts					
Affiliation Type	Full Name	Office Phone	Information System	Mailing Address	
REGULATORY CONTACT	INES V ROSARIO RIVERA	787-315-0107	RCRAINFO	View	

Detailed Facility Report



Detailed Facility Report

Facility Summary

MUNICIPALITY OF GUAYAMA

VICENTE PALES MATOS STREET, GUAYAMA, PR 00784

FRS (Facility Registry Service) ID: 110057198438
EPA Region: 02
Latitude: 17.98569
Longitude: -66.11396
Locational Data Source: FRS
Industries: --
Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	12/10/2013
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): Minor, Permit Expired (PRR040061)
Resource Conservation and Recovery Act (RCRA): No Information
Safe Drinking Water Act (SDWA): No Information

[Go To Enforcement/Compliance Details](#)
[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		110057198438					N	17.98569	-66.11396
ICIS-NPDES	CWA	PRR040061	Minor: General Permit Covered Facility	Expired	Urban Stormwater (Small MS4)	06/30/2021	N	17.985833	-66.101389

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110057198438	MUNICIPALITY OF GUAYAMA	VICENTE PALES MATOS STREET, GUAYAMA, PR 00784	
ICIS-NPDES	CWA	PRR040061	MUNICIPALITY OF GUAYAMA	VICENTE PALES MATOS STREET, GUAYAMA, PR 00784	Guayama Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
No data records returned			

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description
No data records returned		

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
No data records returned			

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
No data records returned			

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
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No data records returned

Entries in italics are not counted as EPA official inspections.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRR040061	No	03/31/2023	0	07/28/2023

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
CWA (Source ID: PRR040061)		04/01-06/30/20	07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-07/28/23
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	Undetermined
	Quarterly Noncompliance Report History													

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100040502	Quebrada Branderi at mouth	--	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
PR	2020	<u>PRSQ48A</u>	QUEBRADA BRANDERI	Impaired - With Restoration Plan	PATHOGENS	Not Assessed	Insufficient Information	--	Not Supporting	--

Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-Site Releases	Total Off-Site Transfers
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No data records returned

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

Chemical Name

No data records returned

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

[DMR and TRI Multi-Year Loading Report](#)

No data records returned

Community

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the [EJScreen home page](#).

EJScreen Indexes Shown

Compare to

☒ US

☐ State

Index Type

☐ Environmental Justice

☒ Supplemental

Related Reports

[EJScreen Community Report](#)

Download Data

Census Block Group ID: 720572704001	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	7	7
Particulate Matter 2.5	0	--
Ozone	0	--
Diesel Particulate Matter	0	--
Air Toxics Cancer Risk	34	38
Air Toxics Respiratory Hazard Index	13	23
Toxic Releases to Air	82	97
Traffic Proximity	99	99
Lead Paint	98	99
Risk Management Plan (RMP) Facility Proximity	99	99
Hazardous Waste Proximity	90	99
Superfund Proximity	99	99
Underground Storage Tanks (UST)	0	95
Wastewater Discharge	98	99

☒ Facility 1-mile Radius ☐ Facility Census Block Group





Demographic Profile of Surrounding Area (1 mile)

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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics (U.S. Census)		Age Breakdown (U.S. Census) - Persons (%)	
Total Persons	11,060	Children 5 years and younger	811 (7%)
Population Density	3,516/sq.mi.	Minors 17 years and younger	2,981 (27%)
Housing Units in Area	5,652	Adults 18 years and older	8,079 (73%)
		Seniors 65 years and older	1,958 (18%)
General Statistics (ACS (American Community Survey))		Race Breakdown (U.S. Census) - Persons (%)	
Total Persons	8,141	White	7,483 (68%)
Percent People of Color	100%	African-American	1,980 (18%)
Households in Area	3,702	Hispanic-Origin	10,961 (99%)
Households on Public Assistance	831	Asian/Pacific Islander	24 (0%)
Persons With Low Income	6,824	American Indian	84 (1%)
Percent With Low Income	84%	Other/Multiracial	1,489 (13%)
Geography		Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Radius of Selected Area	1 mi.	Less than 9th Grade	579 (11.09%)
Center Latitude	17.98569	9th through 12th Grade	426 (8.16%)
Center Longitude	-66.11396	High School Diploma	2,193 (42%)
Land Area	100%	Some College/2-year	639 (12.24%)
Water Area	0%	B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,096 (20.99%)
Income Breakdown (ACS (American Community Survey)) - Households (%)			
Less than \$15,000	2,115 (57.15%)		
\$15,000 - \$25,000	726 (19.62%)		
\$25,000 - \$50,000	618 (16.7%)		
\$50,000 - \$75,000	158 (4.27%)		
Greater than \$75,000	84 (2.27%)		

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)



Detailed Facility Report

Facility Summary

P U C P R GUAYAMA CENTER

DERKES CORNER ASHFORD ST, GUAYAMA, PR 00784

FRS (Facility Registry Service) ID: 110007813107

EPA Region: 02

Latitude: 17.984703

Longitude: -66.112616

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD987381514)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007813107					N	17.984703	-66.112616
RCRAInfo	RCRA	PRD987381514	Other	Inactive ()			N	17.984703	-66.112616

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007813107	P U C P R GUAYAMA CENTER	DERKES CORNER ASHFORD ST, GUAYAMA, PR 00784	Guayama Municipio
RCRAInfo	RCRA	PRD987381514	P U C P R GUAYAMA CENTER	DERKES CORNER ASHFORD ST, GUAYAMA, PR 00784	Guayama Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRD987381514	No	03/15/2025	0	03/14/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRD987381514)		04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation											
	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
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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))		Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Total Persons	7,753	Children 5 years and younger	358 (5%)
Population Density	2,486/sq.mi.	Minors 17 years and younger	1,485 (19%)
Housing Units in Area	4,974	Adults 18 years and older	6,265 (81%)
Percent People of Color	100%	Seniors 65 years and older	1,945 (25%)
Households in Area	3,708		
Households on Public Assistance	518	Race Breakdown (ACS (American Community Survey)) - Persons (%)	
Persons With Low Income	6,429	White	3,898 (50%)
Percent With Low Income	83%	African-American	1,101 (14%)
		Hispanic-Origin	7,676 (99%)
		Asian	0 (0%)
		Hawaiian/Pacific Islander	0 (0%)
		American Indian	2 (0%)
		Other/Multiracial	992 (13%)
Geography		Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Radius of Selected Area	1 mi.	Less than 9th Grade	646 (12.28%)
Center Latitude	17.984703	9th through 12th Grade	374 (7.11%)
Center Longitude	-66.112616		
Total Area	3.121 sq.mi.		
Land Area	100%		
Water Area	0%		

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	2,016 (54.34%)
\$15,000 - \$25,000	662 (17.84%)
\$25,000 - \$50,000	725 (19.54%)
\$50,000 - \$75,000	168 (4.53%)
Greater than \$75,000	139 (3.75%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	2,067 (39.3%)
Some College/2-year	727 (13.82%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,135 (21.58%)



Detailed Facility Report

Facility Summary

FARMACIA EL AMAL #22

CALLE DERKES 22E ESQ CALIMANO, GUAYAMA, PR 00784

FRS (Facility Registry Service) ID: 110012267135

EPA Region: 02

Latitude: 17.984709

Longitude: -66.113982

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active VSQG, (PRR000014027)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110012267135					N	17.984709	-66.113982

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
RCRAInfo	RCRA	PRR000014027	VSQG	Active (H)			N	17.984709	-66.113982

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110012267135	FARMACIA EL AMAL #22	CALLE DERKES 22E ESQ CALIMANO, GUAYAMA, PR 00784	Guayama Municipio
RCRAInfo	RCRA	PRR000014027	FARMACIA EL AMAL #22	CALLE DERKES 22E ESQ CALIMANO, GUAYAMA, PR 00784	Guayama Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000014027	No	03/15/2025	0	03/14/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	
	RCRA (Source ID: PRR000014027)	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	11/01-03/31/25
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	
	Violation											
	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
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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
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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))		Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Total Persons	7,972	Children 5 years and younger	370 (5%)
Population Density	2,556/sq.mi.	Minors 17 years and younger	1,588 (20%)
Housing Units in Area	5,019	Adults 18 years and older	6,385 (80%)
Percent People of Color	100%	Seniors 65 years and older	1,924 (24%)
Households in Area	3,777		
Households on Public Assistance	538	Race Breakdown (ACS (American Community Survey)) - Persons (%)	
Persons With Low Income	6,632	White	4,007 (50%)
Percent With Low Income	84%	African-American	1,141 (14%)
		Hispanic-Origin	7,897 (99%)
		Asian	0 (0%)
		Hawaiian/Pacific Islander	0 (0%)
		American Indian	2 (0%)
		Other/Multiracial	1,013 (13%)
Geography		Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Radius of Selected Area	1 mi.	Less than 9th Grade	670 (12.47%)
Center Latitude	17.984709	9th through 12th Grade	396 (7.37%)
Center Longitude	-66.113982		
Total Area	3.121 sq.mi.		
Land Area	100%		
Water Area	0%		

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	2,073 (54.87%)
\$15,000 - \$25,000	670 (17.73%)
\$25,000 - \$50,000	721 (19.08%)
\$50,000 - \$75,000	184 (4.87%)
Greater than \$75,000	130 (3.44%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	2,129 (39.64%)
Some College/2-year	715 (13.31%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,143 (21.28%)



Detailed Facility Report

Facility Summary

CASA LUIS PALES MATOS

ASHFORD AVE & DUQUE ST, GUAYAMA, PR 00785

FRS (Facility Registry Service) ID: 110037441426

EPA Region: 02

Latitude: 17.984151

Longitude: -66.112425

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	02/27/2014
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active SQG,
(PRR000021568)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110037441426					N	17.984151	-66.112425
RCRAInfo	RCRA	PRR000021568	SQG	Active (H)			N	17.984151	-66.112425

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110037441426	CASA LUIS PALES MATOS	ASHFORD AVE & DUQUE ST, GUAYAMA, PR 00785	Guayama Municipio
RCRAInfo	RCRA	PRR000021568	CASA LUIS PALES MATOS	ASHFORD AVE & DUQUE ST, GUAYAMA, PR 00785	Guayama Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000021568	No	03/15/2025	0	03/14/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA	(Source ID: PRR000021568)	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation											
	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
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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))		Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Total Persons	8,105	Children 5 years and younger	370 (5%)
Population Density	2,599/sq.mi.	Minors 17 years and younger	1,551 (19%)
Housing Units in Area	5,164	Adults 18 years and older	6,555 (81%)
Percent People of Color	100%	Seniors 65 years and older	2,031 (25%)
Households in Area	3,872		
Households on Public Assistance	544	Race Breakdown (ACS (American Community Survey)) - Persons (%)	
Persons With Low Income	6,689	White	4,122 (51%)
Percent With Low Income	83%	African-American	1,131 (14%)
		Hispanic-Origin	8,025 (99%)
		Asian	0 (0%)
		Hawaiian/Pacific Islander	0 (0%)
		American Indian	2 (0%)
		Other/Multiracial	1,022 (13%)
Geography		Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Radius of Selected Area	1 mi.	Less than 9th Grade	679 (12.3%)
Center Latitude	17.984151	9th through 12th Grade	386 (6.99%)
Center Longitude	-66.112425		
Total Area	3.121 sq.mi.		
Land Area	100%		
Water Area	0%		

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	2,082 (53.81%)
\$15,000 - \$25,000	689 (17.81%)
\$25,000 - \$50,000	765 (19.77%)
\$50,000 - \$75,000	178 (4.6%)
Greater than \$75,000	155 (4.01%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	2,160 (39.12%)
Some College/2-year	751 (13.6%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,209 (21.89%)

Related Topics: Envirofacts

FRS

FRS Facility Detail Report

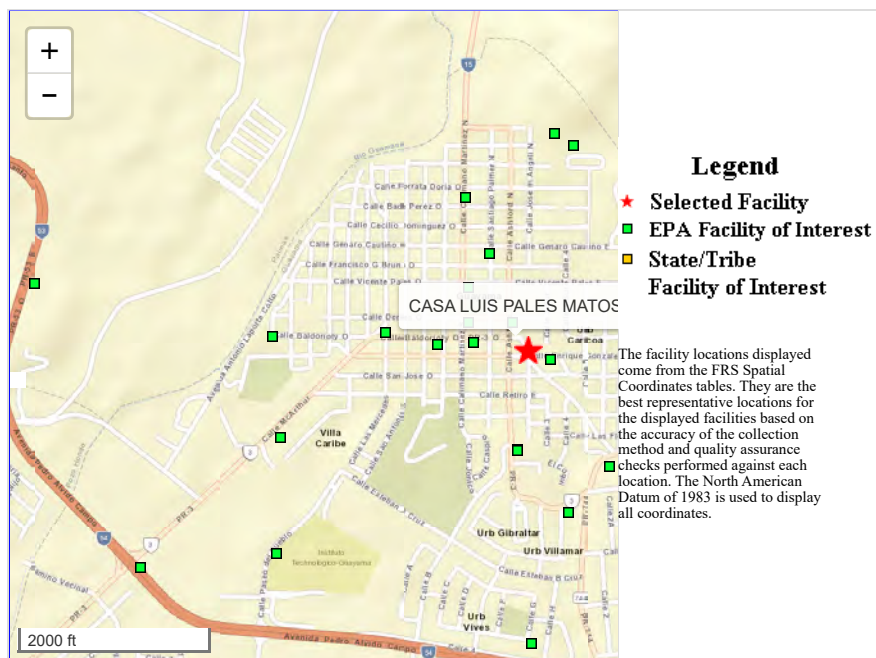
CASA LUIS PALES MATOS

EPA Registry Id: 110037441426
ASHFORD AVE & DUQUE ST
GUAYAMA, PR 00785

Facility Registry Service Links:

- Facility Registry Service (FRS) Overview
- FRS Facility Query
- FRS Organization Query
- EZ Query
- FRS Physical Data Model
- FRS Geospatial Model

[Report an Error](#)



Environmental Interests

Information System	System Facility Name	Information System Id/Report Link	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM	CASA LUIS PALES MATOS	PRR000021568	SQG (Y)	RCRAINFO		

Additional EPA Reports: [MyEnvironment](#) [Enforcement and Compliance](#) [Site Demographics](#) [Facility Coordinates Viewer](#) [Environmental Justice Map Viewer](#) [Watershed Report](#)

Standard Industrial Classification Codes (SIC)		National Industry Classification System Codes (NAICS)	
No SIC Codes returned.		No NAICS Codes returned.	
Facility Codes and Flags		Facility Mailing Addresses	
EPA Region:	02	Affiliation Type	Delivery Point
Duns Number:		REGULATORY CONTACT	PO BOX 360
Congressional District Number:	00	FACILITY MAILING ADDRESS	PO BOX 360
Legislative District Number:		City Name	GUAYAMA
HUC Code/Watershed:	21010004 / SOUTHERN PUERTO RICO	State	PR
US Mexico Border Indicator:		Postal Code	00785
Federal Facility:	NO	Information System	RCRAINFO
Tribal Land:	NO	Contacts	
Alternative Names		Affiliation Type	Full Name
No Alternative Names returned.		REGULATORY CONTACT	MIGUEL A MONTES
Organizations		Office Phone	Information System
No Organizations returned.		787-836-5050	RCRAINFO
		Mailing Address	View

Query executed on: MAR-21-2025

Detailed Facility Report



Detailed Facility Report

Facility Summary

PRASA GUAYAMA MICROBIOLOGICAL LAB

75 W ENRIQUE GONZALEZ, GUAYAMA, PR 00784

FRS (Facility Registry Service) ID: 110004889960
EPA Region: 02
Latitude: 17.983617
Longitude: -66.111523
Locational Data Source: RCRAINFO
Industries: --
Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): No Information
Resource Conservation and Recovery Act (RCRA): Inactive
Other, (PRD987378312)
Safe Drinking Water Act (SDWA): No Information
[Go To Enforcement/Compliance Details](#)
[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		<u>110004889960</u>					N	17.983617	-66.111523
RCRAInfo	RCRA	PRD987378312	Other	Inactive ()			N	17.983617	-66.111523

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<u>110004889960</u>	PRASA GUAYAMA MICROBIOLOGICAL LAB	75 W ENRIQUE GONZALEZ, GUAYAMA, PR 00784	Guayama Municipio
RCRAInfo	RCRA	PRD987378312	PRASA GUAYAMA MICROBIOLOGICAL LAB	75 W ENRIQUE GONZALEZ, GUAYAMA, PR 00784	Guayama Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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No data records returned

Entries in italics are not counted as EPA official inspections.

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	PRD987378312	No	07/29/2023	0	07/28/2023

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
	RCRA (Source ID: PRD987378312)	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation												
	Agency												

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

Air Quality Nonattainment Areas

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

Pollutants

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

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-Site Releases	Total Off-Site Transfers
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No data records returned

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

Chemical Name

No data records returned

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

[DMR and TRI Multi-Year Loading Report](#)

No data records returned

Community

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the [EJScreen home page](#).

EJScreen Indexes Shown

Related Reports

[EJScreen Community Report](#)

Compare to

☒ US ☐ State

Index Type

☐ Environmental Justice ☒ Supplemental

Download Data

Census Block Group ID: 720572704002	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	7	7
Particulate Matter 2.5	0	--
Ozone	0	--
Diesel Particulate Matter	0	--
Air Toxics Cancer Risk	38	38
Air Toxics Respiratory Hazard Index	23	23
Toxic Releases to Air	94	97
Traffic Proximity	99	99
Lead Paint	99	99
Risk Management Plan (RMP) Facility Proximity	99	99
Hazardous Waste Proximity	98	99
Superfund Proximity	99	99
Underground Storage Tanks (UST)	0	95
Wastewater Discharge	99	99

☐ Facility 1-mile Radius ☐ Facility Census Block Group

+

-



300 mi



Demographic Profile of Surrounding Area (1 mile)

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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA’s spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics (U.S. Census)	
Total Persons	12,641
Population Density	4,106/sq.mi.
Housing Units in Area	6,308

General Statistics (ACS (American Community Survey))	
Total Persons	9,356
Percent People of Color	100%
Households in Area	4,223
Households on Public Assistance	952
Persons With Low Income	7,723
Percent With Low Income	83%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.983617
Center Longitude	-66.111523
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	2,357 (55.83%)
\$15,000 - \$25,000	806 (19.09%)
\$25,000 - \$50,000	734 (17.39%)
\$50,000 - \$75,000	180 (4.26%)
Greater than \$75,000	145 (3.43%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	880 (7%)
Minors 17 years and younger	3,345 (26%)
Adults 18 years and older	9,297 (74%)
Seniors 65 years and older	2,170 (17%)

Race Breakdown (U.S. Census) - Persons (%)	
White	8,603 (68%)
African-American	2,255 (18%)
Hispanic-Origin	12,528 (99%)
Asian/Pacific Islander	27 (0%)
American Indian	88 (1%)
Other/Multiracial	1,669 (13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	653 (10.8%)
9th through 12th Grade	448 (7.41%)
High School Diploma	2,461 (40.71%)
Some College/2-year	792 (13.1%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,336 (22.1%)

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)

Detailed Facility Report



Detailed Facility Report

Facility Summary

SHELL CO PR LTD SS 2852 JOBOS

PR-3 KM 139.9, GUAYAMA, PR 00784

FRS (Facility Registry Service) ID: 110007818629
EPA Region: 02
Latitude: 17.981438
Longitude: -66.119561
Locational Data Source: RCRAINFO
Industries: --
Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): No Information
Resource Conservation and Recovery Act (RCRA): Inactive
Other, (PRR000005504), Inactive Other, (PRR000005041)
Safe Drinking Water Act (SDWA): No Information
[Go To Enforcement/Compliance Details](#)
[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		110007818629					N	17.981438	-66.119561
RCRAInfo	RCRA	PRR000005504	Other	Inactive ()			N		
RCRAInfo	RCRA	PRR000005041	Other	Inactive ()			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007818629	SHELL CO PR LTD SS 2852 JOBOS	PR-3 KM 139.9, GUAYAMA, PR 00784	Guayama Municipio
RCRAInfo	RCRA	PRR000005504	SHELL CO PR LTD SS 2852 JOBOS	RD PR 3 KM 139.9, GUAYAMA, PR 00784	Guayama Municipio
RCRAInfo	RCRA	PRR000005041	SHELL CO PR LTD SS 2852 JOBOS SHELL	CARR PR 3 KM 139.9, GUAYAMA, PR 00784	Guayama Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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No data records returned

Entries in italics are not counted as EPA official inspections.

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	PRR000005504	No	07/29/2023	0	07/28/2023
RCRA	PRR000005041	No	07/29/2023	0	07/28/2023

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
	RCRA (Source ID: PRR000005041)		10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency												
	RCRA (Source ID: PRR000005504)		10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency												

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

Air Quality Nonattainment Areas

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

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

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

[DMR and TRI Multi-Year Loading Report](#)

No data records returned

Community

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the [EJScreen home page](#).

EJScreen Indexes Shown

Compare to

US State

Index Type

Environmental Justice Supplemental

Related Reports

[EJScreen Community Report](#)

Download Data

Census Block Group ID: 720572706004	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	7	7
Particulate Matter 2.5	0	--
Ozone	0	--
Diesel Particulate Matter	0	--
Air Toxics Cancer Risk	37	38
Air Toxics Respiratory Hazard Index	22	23
Toxic Releases to Air	95	97
Traffic Proximity	99	99
Lead Paint	99	99
Risk Management Plan (RMP) Facility Proximity	99	99
Hazardous Waste Proximity	98	99
Superfund Proximity	99	99
Underground Storage Tanks (UST)	0	84
Wastewater Discharge	99	99

Facility 1-mile Radius

Facility Census Block Group

Demographic Profile of Surrounding Area (1 mile)

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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA’s spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics (U.S. Census)	
Total Persons	14,640
Population Density	4,622/sq.mi.
Housing Units in Area	6,965

General Statistics (ACS (American Community Survey))	
Total Persons	11,173
Percent People of Color	100%
Households in Area	4,811
Households on Public Assistance	1,102
Persons With Low Income	9,390
Percent With Low Income	86%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.981438
Center Longitude	-66.119561
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	2,575 (53.5%)
\$15,000 - \$25,000	977 (20.3%)
\$25,000 - \$50,000	916 (19.03%)
\$50,000 - \$75,000	252 (5.24%)
Greater than \$75,000	93 (1.93%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	1,098 (8%)
Minors 17 years and younger	4,154 (28%)
Adults 18 years and older	10,486 (72%)
Seniors 65 years and older	2,120 (14%)

Race Breakdown (U.S. Census) - Persons (%)	
White	9,894 (68%)
African-American	2,687 (18%)
Hispanic-Origin	14,515 (99%)
Asian/Pacific Islander	33 (0%)
American Indian	108 (1%)
Other/Multiracial	1,919 (13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	714 (10.05%)
9th through 12th Grade	542 (7.63%)
High School Diploma	2,962 (41.7%)
Some College/2-year	818 (11.52%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,537 (21.64%)

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)



Detailed Facility Report

Facility Summary

PONTIFICIA UNIVERSIDAD CATOLICA

ASHFORD 9S, GUAYAMA, PR 00784

FRS (Facility Registry Service) ID: 110004888471

EPA Region: 02

Latitude: 17.98107

Longitude: -66.11252

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	11/13/2008
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, (PR0000930487)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110004888471					N	17.98107	-66.11252
RCRAInfo	RCRA	PR0000930487	Other	Inactive ()			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004888471	PONTIFICIA UNIVERSIDAD CATOLICA	ASHFORD 9S, GUAYAMA, PR 00784	Guayama Municipio
RCRAInfo	RCRA	PR0000930487	PONTIFICIA UNIVERSIDAD CATOLICA	ASHFORD 9S, GUAYAMA, PR 00784	Guayama Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PR0000930487	No	03/01/2025	0	02/28/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PR0000930487)		04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation											
	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
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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))		Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Total Persons	10,188	Children 5 years and younger	443 (4%)
Population Density	3,266/sq.mi.	Minors 17 years and younger	1,990 (20%)
Housing Units in Area	6,165	Adults 18 years and older	8,198 (80%)
Percent People of Color	100%	Seniors 65 years and older	2,434 (24%)
Households in Area	4,770		
Households on Public Assistance	666	Race Breakdown (ACS (American Community Survey)) - Persons (%)	
Persons With Low Income	8,226	White	5,412 (53%)
Percent With Low Income	81%	African-American	1,316 (13%)
		Hispanic-Origin	10,092 (99%)
		Asian	0 (0%)
		Hawaiian/Pacific Islander	19 (0%)
		American Indian	5 (0%)
		Other/Multiracial	1,184 (12%)
Geography		Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Radius of Selected Area	1 mi.	Less than 9th Grade	853 (12.2%)
Center Latitude	17.98107	9th through 12th Grade	459 (6.57%)
Center Longitude	-66.11252		
Total Area	3.121 sq.mi.		
Land Area	100%		
Water Area	0%		

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	2,445 (51.27%)
\$15,000 - \$25,000	837 (17.55%)
\$25,000 - \$50,000	980 (20.55%)
\$50,000 - \$75,000	261 (5.47%)
Greater than \$75,000	246 (5.16%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	2,674 (38.26%)
Some College/2-year	876 (12.53%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,653 (23.65%)

Related Topics: Envirofacts

FRS

FRS Facility Detail Report

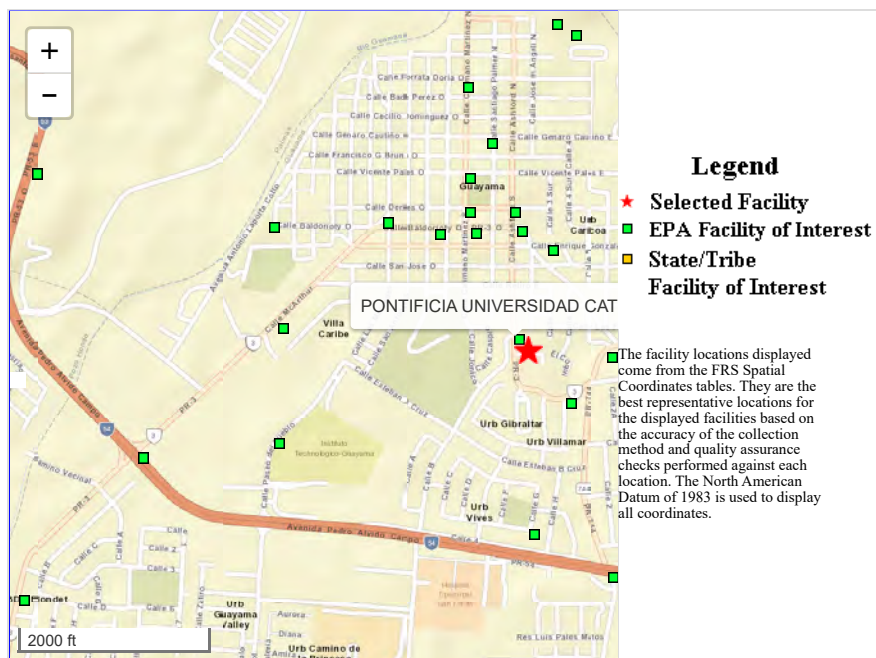
PONTIFICIA UNIVERSIDAD CATOLICA

EPA Registry Id: 110004888471
ASHFORD 9S
GUAYAMA, PR 00784

Facility Registry Service Links:

- Facility Registry Service (FRS) Overview
- FRS Facility Query
- FRS Organization Query
- EZ Query
- FRS Physical Data Model
- FRS Geospatial Model

[Report an Error](#)



Environmental Interests

Information System	System Facility Name	Information System Id/Report Link	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM	PONTIFICIA UNIVERSIDAD CATOLICA	PR0000930487	UNSPECIFIED UNIVERSE (N)	RCRAINFO		

Additional EPA Reports: MyEnvironment Enforcement and Compliance Site Demographics Facility Coordinates Viewer Environmental Justice Map Viewer Watershed Report

Standard Industrial Classification Codes (SIC)

No SIC Codes returned.

Facility Codes and Flags

EPA Region:	02
Duns Number:	
Congressional District Number:	00
Legislative District Number:	
HUC Code/Watershed:	21010004 / SOUTHERN PUERTO RICO
US Mexico Border Indicator:	
Federal Facility:	NO
Tribal Land:	NO

Alternative Names

No Alternative Names returned.

Organizations

No Organizations returned.

National Industry Classification System Codes (NAICS)

No NAICS Codes returned.

Facility Mailing Addresses

Affiliation Type	Delivery Point	City Name	State	Postal Code	Information System
FACILITY MAILING ADDRESS	PO BOX 809	GUAYAMA	PR	00785-0809	RCRAINFO

Contacts

No Contacts returned.

Query executed on: MAR-07-2025

Detailed Facility Report



Detailed Facility Report

Facility Summary

RUDY SERVICE STATION

RD 3 KM 138.1, GUAYAMA, PR 00785

FRS (Facility Registry Service) ID: 110007815515

EPA Region: 02

Latitude: 17.9806

Longitude: -66.109738

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	12/11/1996
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, (PRO008006033)
Safe Drinking Water Act (SDWA): No Information

[Go To Enforcement/Compliance Details](#)
[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		<u>110007815515</u>					N	17.9806	-66.109738
RCRAInfo	RCRA	PRO008006033	Other	Inactive ()			N	17.9806	-66.109738

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<u>110007815515</u>	RUDY SERVICE STATION	RD 3 KM 138.1, GUAYAMA, PR 00785	Guayama Municipio
RCRAInfo	RCRA	PRO008006033	RUDY SERVICE STATION	RD 3 KM 138.1, GUAYAMA, PR 00785	Guayama Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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No data records returned

Entries in italics are not counted as EPA official inspections.

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	PRO008006033	No	07/29/2023	0	07/28/2023

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
	RCRA (Source ID: PRO008006033)	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation												
	Agency												

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

Air Quality Nonattainment Areas

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

Pollutants

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

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-Site Releases	Total Off-Site Transfers
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No data records returned

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

Chemical Name

No data records returned

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

[DMR and TRI Multi-Year Loading Report](#)

No data records returned

Community

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the [EJScreen home page](#).

EJScreen Indexes Shown

Compare to

☒ US ☐ State

Index Type

☐ Environmental Justice ☒ Supplemental

Related Reports

[EJScreen Community Report](#)

Download Data

Census Block Group ID: 720572705002	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	7	7
Particulate Matter 2.5	0	--
Ozone	0	--
Diesel Particulate Matter	0	--
Air Toxics Cancer Risk	36	38
Air Toxics Respiratory Hazard Index	20	23
Toxic Releases to Air	90	97
Traffic Proximity	99	99
Lead Paint	99	99
Risk Management Plan (RMP) Facility Proximity	99	99
Hazardous Waste Proximity	97	99
Superfund Proximity	99	99
Underground Storage Tanks (UST)	0	95
Wastewater Discharge	99	99

☐ Facility 1-mile Radius ☐ Facility Census Block Group



Demographic Profile of Surrounding Area (1 mile)

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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA’s spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics (U.S. Census)	
Total Persons	14,899
Population Density	4,727/sq.mi.
Housing Units in Area	7,196

General Statistics (ACS (American Community Survey))	
Total Persons	11,169
Percent People of Color	100%
Households in Area	4,921
Households on Public Assistance	1,065
Persons With Low Income	8,937
Percent With Low Income	80%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.9806
Center Longitude	-66.109738
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	2,607 (52.98%)
\$15,000 - \$25,000	904 (18.37%)
\$25,000 - \$50,000	916 (18.61%)
\$50,000 - \$75,000	235 (4.78%)
Greater than \$75,000	259 (5.26%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	991 (7%)
Minors 17 years and younger	3,970 (27%)
Adults 18 years and older	10,929 (73%)
Seniors 65 years and older	2,457 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	10,214 (69%)
African-American	2,632 (18%)
Hispanic-Origin	14,774 (99%)
Asian/Pacific Islander	29 (0%)
American Indian	99 (1%)
Other/Multiracial	1,925 (13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	727 (9.95%)
9th through 12th Grade	482 (6.59%)
High School Diploma	2,881 (39.42%)
Some College/2-year	993 (13.59%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,743 (23.85%)

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)



Detailed Facility Report

Facility Summary

ISMAEL EESO SERVICE STATION

RD 3 KM 138.3, GUAYAMA, PR 00785

FRS (Facility Registry Service) ID: 110007813857

EPA Region: 02

Latitude: 17.979319

Longitude: -66.110938

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	12/11/1996
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, (PRN008006074)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007813857					N	17.979319	-66.110938
RCRAInfo	RCRA	PRN008006074	Other	Inactive ()			N	17.979319	-66.110938

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007813857	ISMAEL EESO SERVICE STATION	RD 3 KM 138.3, GUAYAMA, PR 00785	Guayama Municipio
RCRAInfo	RCRA	PRN008006074	ISMAEL EESO SERVICE STATION	RD 3 KM 138.3, GUAYAMA, PR 00785	Guayama Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRN008006074	No	03/01/2025	0	02/28/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA	(Source ID: PRN008006074)	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency										

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
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No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
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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))		Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Total Persons	10,920	Children 5 years and younger	471 (4%)
Population Density	3,501/sq.mi.	Minors 17 years and younger	2,087 (19%)
Housing Units in Area	6,526	Adults 18 years and older	8,832 (81%)
Percent People of Color	100%	Seniors 65 years and older	2,627 (24%)
Households in Area	5,074		
Households on Public Assistance	679	Race Breakdown (ACS (American Community Survey)) - Persons (%)	
Persons With Low Income	8,630	White	5,940 (54%)
Percent With Low Income	79%	African-American	1,315 (12%)
		Hispanic-Origin	10,816 (99%)
		Asian	0 (0%)
		Hawaiian/Pacific Islander	23 (0%)
		American Indian	8 (0%)
		Other/Multiracial	1,240 (11%)
Geography		Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Radius of Selected Area	1 mi.	Less than 9th Grade	871 (11.54%)
Center Latitude	17.979319	9th through 12th Grade	449 (5.95%)
Center Longitude	-66.110938		
Total Area	3.121 sq.mi.		
Land Area	100%		
Water Area	0%		

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	2,491 (49.1%)
\$15,000 - \$25,000	877 (17.29%)
\$25,000 - \$50,000	1,099 (21.66%)
\$50,000 - \$75,000	295 (5.82%)
Greater than \$75,000	311 (6.13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	2,821 (37.38%)
Some College/2-year	943 (12.5%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,908 (25.28%)

Related Topics: Envirofacts

FRS

FRS Facility Detail Report

ISMAEL EESO SERVICE STATION

EPA Registry Id: 110007813857

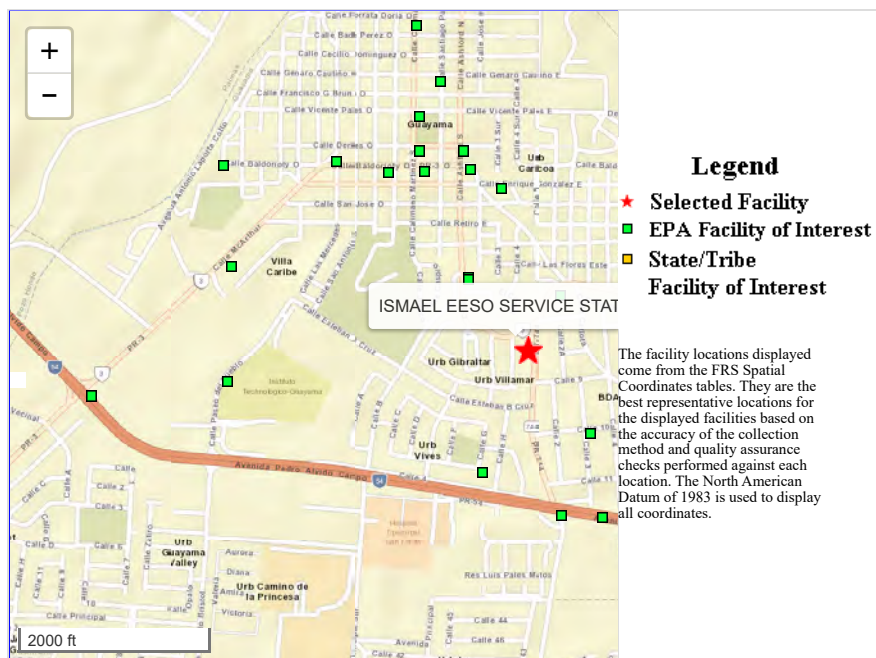
RD 3 KM 138.3

GUAYAMA, PR 00785

Facility Registry Service Links:

- Facility Registry Service (FRS) Overview
- FRS Facility Query
- FRS Organization Query
- EZ Query
- FRS Physical Data Model
- FRS Geospatial Model

[Report an Error](#)



Environmental Interests

Information System	System Facility Name	Information System Id/Report Link	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM	ISMAEL EESO SERVICE STATION	PRN008006074	UNSPECIFIED UNIVERSE (N)	RCRAINFO		

Additional EPA Reports: MyEnvironment Enforcement and Compliance Site Demographics Facility Coordinates Viewer Environmental Justice Map Viewer Watershed Report

Standard Industrial Classification Codes (SIC)

No SIC Codes returned.

Facility Codes and Flags

EPA Region:	02
Duns Number:	00
Congressional District Number:	-
Legislative District Number:	-
HUC Code/Watershed:	21010004 / SOUTHERN PUERTO RICO
US Mexico Border Indicator:	NO
Federal Facility:	NO
Tribal Land:	NO

Alternative Names

No Alternative Names returned.

Organizations

Affiliation Type	Name	DUNS Number	Information System	Mailing Address
OPERATOR	NON REGULATED		RCRAINFO	View
OWNER	NON REGULATED		RCRAINFO	View

National Industry Classification System Codes (NAICS)

No NAICS Codes returned.

Facility Mailing Addresses

Affiliation Type	Delivery Point	City Name	State	Postal Code	Information System
OPERATOR	NOT REQUIRED	NOT REQUIRED	PR	99999	RCRAINFO
FACILITY MAILING ADDRESS	RD 3 KM 138.3	GUAYAMA	PR	00785	RCRAINFO
OWNER	NOT REQUIRED	NOT REQUIRED	PR	99999	RCRAINFO

Contacts

No Contacts returned.

Query executed on: MAR-07-2025

Detailed Facility Report



Detailed Facility Report

Facility Summary

ISMAEL EESO SERVICE STATION

RD 3 KM 138.3, GUAYAMA, PR 00785

FRS (Facility Registry Service) ID: 110007813857

EPA Region: 02

Latitude: 17.979319

Longitude: -66.110938

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	12/11/1996
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, (PRN008006074)

Safe Drinking Water Act (SDWA): No Information

[Go To Enforcement/Compliance Details](#)
[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

Detailed Facility Report



Detailed Facility Report

Facility Summary

HOMECA RECYCLING CENTER CO INC

CARR 3 KM 139 BO-JOBOS, GUAYAMA, PR 00784

FRS (Facility Registry Service) ID: 110009437109

EPA Region: 02

Latitude: 17.984082

Longitude: -66.11488

Locational Data Source: RCRAINFO

Industries: Merchant Wholesalers, Durable Goods

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	12/13/1996
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active
VSQG, (PRO007001027)

Safe Drinking Water Act (SDWA): No Information

[Go To Enforcement/Compliance Details](#)
[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		<u>110009437109</u>					N	17.984082	-66.11488
RCRAInfo	RCRA	PRO007001027	VSQG	Active (H)			N	17.984082	-66.11488

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<u>110009437109</u>	HOMECA RECYCLING CENTER CO INC	CARR 3 KM 139 BO-JOBOS, GUAYAMA, PR 00784	Guayama Municipio
RCRAInfo	RCRA	PRO007001027	HOMECA RECYCLING CENTER CO INC	CARR 3 KM 139 BO-JOBOS, GUAYAMA, PR 00784	Guayama Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
--------	------------	----------	-----------------

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	PRO007001027	423510	Metal Service Centers and Other Metal Merchant Wholesalers

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 counted as EPA official inspections.

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	PRO007001027	No	05/27/2023	0	05/26/2023

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
	RCRA (Source ID: PRO007001027)	07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation												
	Agency												

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
---------	--------	-----------	----------------	-------------	------

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the [EJScreen home page](#).

EJScreen Indexes Shown

Compare to

☒ US ☐ State

Index Type

☐ Environmental Justice ☒ Supplemental

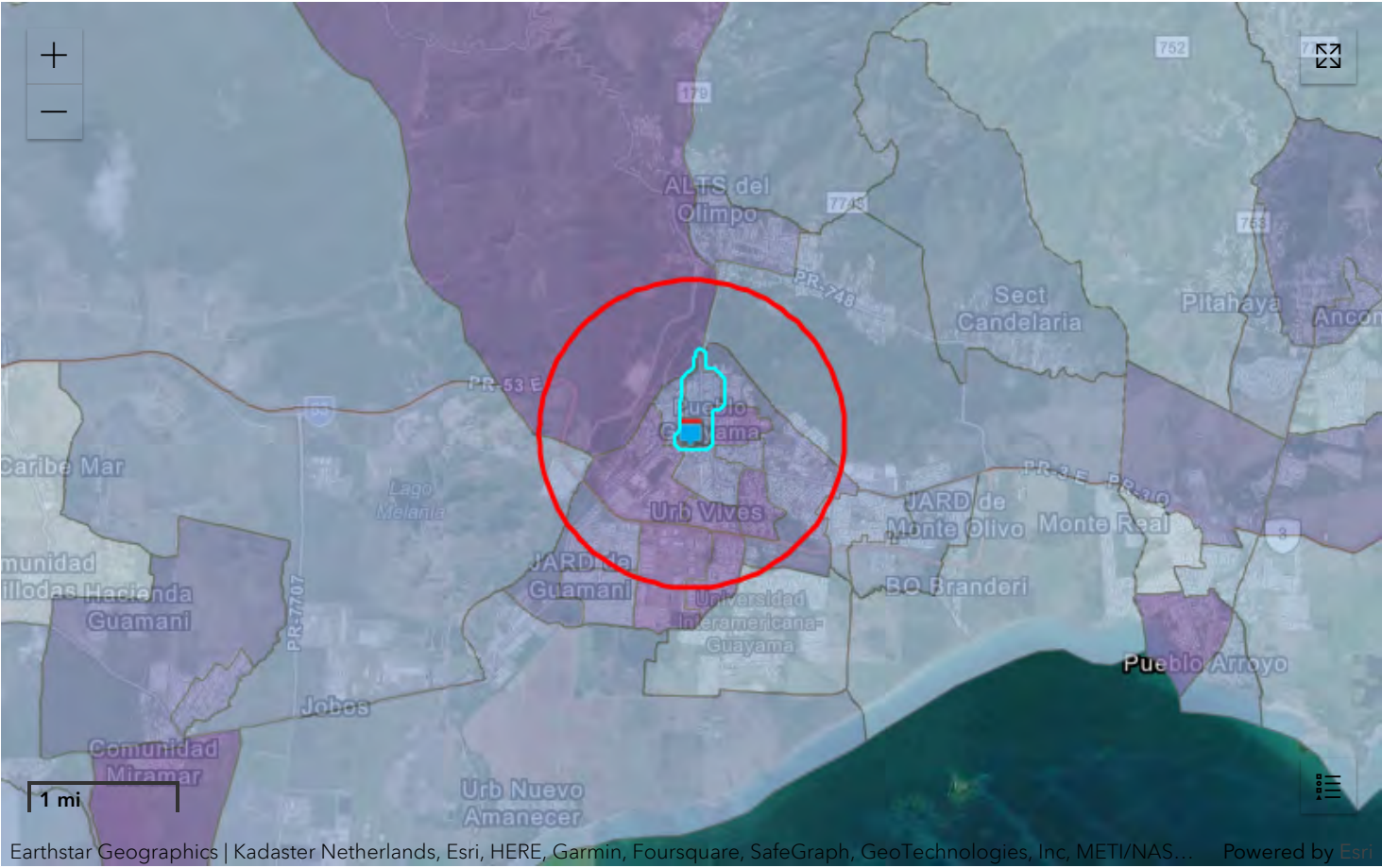
Related Reports

[EJScreen Report](#)

Download Data

Census Block Group ID: 720572704001	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	6	7
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	4
Air Toxics Cancer Risk	72	88
Air Toxics Respiratory Hazard Index	42	60
Traffic Proximity	98	99
Lead Paint	97	99
Risk Management Plan (RMP) Facility Proximity	99	99
Hazardous Waste Proximity	89	98
Superfund Proximity	99	99
Underground Storage Tanks (UST)	0	94
Wastewater Discharge	99	99

○ Facility 1-mile Radius □ Facility Census Block Group



Demographic Profile of Surrounding Area (1 mile)

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 2010 U.S. Census and 2016 - 2020 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics (U.S. Census)		Age Breakdown (U.S. Census) - Persons (%)	
Total Persons	12,409	Children 5 years and younger	899 (7%)

General Statistics (U.S. Census)	
Population Density	3,990/sq.mi.
Housing Units in Area	6,205
General Statistics (ACS (American Community Survey))	
Total Persons	9,679
Percent People of Color	100%
Households in Area	4,124
Households on Public Assistance	1,352
Persons With Low Income	8,159
Percent With Low Income	85%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.984082
Center Longitude	-66.11488
Land Area	100%
Water Area	0%
Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	2,404 (58.31%)
\$15,000 - \$25,000	757 (18.36%)
\$25,000 - \$50,000	708 (17.17%)
\$50,000 - \$75,000	158 (3.83%)
Greater than \$75,000	96 (2.33%)
Age Breakdown (U.S. Census) - Persons (%)	
Minors 17 years and younger	3,377 (27%)
Adults 18 years and older	9,032 (73%)
Seniors 65 years and older	2,094 (17%)
Race Breakdown (U.S. Census) - Persons (%)	
White	8,395 (68%)
African-American	2,227 (18%)
Hispanic-Origin	12,300 (99%)
Asian/Pacific Islander	26 (0%)
American Indian	99 (1%)
Other/Multiracial	1,663 (13%)
Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	681 (11.2%)
9th through 12th Grade	488 (8.02%)
High School Diploma	2,433 (40.01%)
Some College/2-year	595 (9.78%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,510 (24.83%)

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)

United States
Environmental Protection
Agency

EPA Home <<https://www.epa.gov/>> / Envirofacts <<https://epa.gov/>> / RCRAInfo <<https://epa.gov/envirofacts/rcrainfo>>

[Home <https://epa.gov/>](https://epa.gov/) | [Multisystem Search <https://epa.gov/envirofacts/multisystem/search>](https://epa.gov/envirofacts/multisystem/search) | [Topic Searches <https://www.epa.gov/enviro/topic-searches>](https://www.epa.gov/enviro/topic-searches) | [System Data Searches <https://www.epa.gov/enviro/system-data-searches>](https://www.epa.gov/enviro/system-data-searches) | [About the Data <https://www.epa.gov/enviro/about-data>](https://www.epa.gov/enviro/about-data) | [Data Downloads <https://www.epa.gov/enviro/data-downloads>](https://www.epa.gov/enviro/data-downloads) | [Widgets <https://www.epa.gov/enviro/widgets>](https://www.epa.gov/enviro/widgets) | [Services <https://www.epa.gov/enviro/web-services>](https://www.epa.gov/enviro/web-services) | [Mobile <https://www.epa.gov/enviro/uv-index-mobile-app>](https://www.epa.gov/enviro/uv-index-mobile-app) | [Other Datasets <https://www.epa.gov/enviro/other-datasets>](https://www.epa.gov/enviro/other-datasets)

KMART #3853
Handler ID: PRR000007641
PR HW 3 PLZ GUAYAMA B3
GUAYAMA, PR 00784
County Name: GUAYAMA
Latitude: 17.984082
Longitude: -66.11488
Hazardous Waste Generator:
Owner Name:

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

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
BRUCE KAYE	BEVERLY RD - B5 348A	HOFFMAN ESTATES	IL	60179	847-286-7810	Public
BRUCE KAYE	BEVERLY RD - B5 348A	HOFFMAN ESTATES	IL	60179	847-286-7810	Permit

Unspecified Universe for the facility listed above.

HANDLER TYPE
Not in a universe

No Process Information is available for the facility listed above.

NAICS CODE	NAICS DESCRIPTION
45299	ALL OTHER GENERAL MERCHANDISE STORES

No Waste Codes are available for the facility listed above.

Last updated on August 13, 2025

ASBESTOS CONTAINING BUILDING MATERIALS INSPECTION REPORT

AT

Plaza de Recreos Cristóbal Colón

Physical Address: Calle Vicente Pales #3, Guayama, Puerto Rico



Prepared by:

ShareTech Group

PO Box 1330, Caguas, P.R.
00726-1330

Tel.: (787)720-5869 Fax: (787)
720-2318

Submitted to:

Municipio de Guayama
Guayama, PR

May 8, 2023



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INTRODUCTION

The Municipality of Guayama retained the services of Sharetech Group Engineering PSC to provide professional environmental engineering consulting services to performing a limited scope asbestos assessment consisting of collecting bulk samples of suspect asbestos-containing building materials (ACBM) on a specific area related to a field reconnaissance site inspection of the subject area known as Plaza Cristóbal Colón. The municipality of Guayama will conduct renovation and modifications in the Plaza de Recreos Cristóbal Colón.



Figure #1: Plaza Publica Cristóbal Colon

The Asbestos Containing Building Materials (ACBM) inspection was conducted on April 21, 2023 at “Plaza de Recreos Cristóbal Colon” located on “Calle Vicente Pales #3” in the municipality of Guayama by Grace Berrios. The asbestos containing building materials sampling was performed to identify materials that contains asbestos fibers above allowable levels and to assist with compliance of local, state and federal regulations. If asbestos containing materials are found or identified, abatement or mitigation actions are required by regulations prior to obtaining the asbestos-free certifications.

The asbestos assessment consisted of collecting bulk samples of suspected asbestos containing materials. Three (3) bulk samples were collected. All sample were delivered to an



accredited laboratory for microscopic analysis for asbestos content via polarized light microscopy (PLM).

The results obtained are tabulated on Table #1.

The interpretation of the results, the conclusion and recommendations are presented on page 7 of this report.

METHODOLOGY AND EQUIPMENT

The asbestos assessment was conducted in accordance to the requirements of local, state and federal regulations. The following tasks were performed as part of this survey:

- Task 1) A walk-through and visual inspection of the area.
- Task 2) Bulk sampling of suspected asbestos containing building materials within the area.
- Task 3) Polarized Light Microscopy (PLM) Analysis of bulk samples.
- Task 4) Preparation of Report - This report summarizes the results of the asbestos assessment, was prepared for client use and discussions as they consider pertinent. Report includes findings, explanation of conditions presents during this assessment, interpretations of results, conclusions, and recommendations, as applicable.

Appendix A includes the laboratory results of the assessment and appendix B the sampling location photographs.

Throughout the inspection the following suspected ACBM were observed and sampled:

Stucco and floor concrete slab

Refer to figures #2, #3 and #5 for locations.



Figure #2: Stucco (PPG-01)



Figure #3: Floor concrete slab (PPG-02)



Figure #4: Floor concrete (PPG-03)

The inspection was performed in accordance with EPA-450/2-78-014 parts I and II, EPA 560/5-85-024, and 40 CFR 763. These procedures are for visual inspection of the building, collection and analysis of representative samples of suspect materials.

Samples collected were labeled and deliver to an accredited laboratory, Analytical Environmental Services International (AES) in San Juan, for microscopic analysis for asbestos content via polarized light microscopy (PLM) as recommended by the US EPA.



REPORT OF RESULT

Table #1- Asbestos Assessment Results

Table #1 Summarizes the asbestos Assessment Results for (3) bulk samples.

Table #1: Asbestos Containing Building Materials Assessment Plaza Cristóbal Colón, Puerto Rico												
Sample ID	Property ID	Functional Space	Homogeneous Material	Date	Comments	Material Characteristics						
						Asbestos Contains		Friable		Type		
						Y	N	Y	N	Surf	TSI	Misc.
PPG-01	Plaza Cristóbal Colón	Exterior	Stucco	04.21.2023	Beige color		x		x	x		
PPG-02	Plaza Cristóbal Colón	Exterior	Floor concrete	04.21.2023	various color		x		x	x		
PPG-03	Plaza Cristóbal Colón	Exterior	Floor concrete	04.21.2023	various color		x		x	x		

Note: A material is considered to be asbestos if it contains 1% or more of asbestos.

INTERPRETATION OF RESULT

The samples of materials collected taken of the areas of revealed laboratory analytical results of non-detected asbestos content, which means that the materials have no asbestos content or are below the 1% regulatory limit.

CONCLUSIONS AND RECOMMENDATIONS

No further actions are required based on the laboratory results obtained from the samples collected at the "Plaza de Recreos Cristóbal Colón".

Sharetech Group appreciates the opportunity to have provided these services. We would be glad to discuss any of the results contained in this report, at your convenience. If there are any questions concerning this report or results, please contact us.

ASBESTOS REPORT CERTIFICATION

Sharetech Group Engineering has performed this limited asbestos assessment in a thorough and professional manner consistent with commonly accepted industry standards. The inspection was conducted on April 21, 2023, by state-certified asbestos inspector, Grace Berrios ASB-0821-0452-SI, qualified by experience, education, and training.

Grace Berrios
EHS Technician



APPENDIX

APPENDIX A: LABORATORY ANALYTICAL REPORT



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907
PH. (787) 722-0220 Fax (787) 724-5788
Job ID: B23040051



REPORT NUMBER
RP23050305

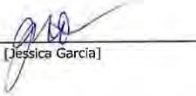
POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Share Tech Group	Date Collected:	04/21/2023
Project Name:	Plaza Cristobal Colon	Date Received:	04/25/2023
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
Client Sample ID B23040051.01 B23040051.01.A PPG-01 Layer % of Total :100% Date Analyzed: 04/26/2023 Sample Location: Empañetado de Jardin (Color Crema) Comments: Paint Included as Binders	Hard, Compact with Aggregates, Fibers Other - and Paint Lt. Gray	No		Cellulose 3	Sand/Aggregates 35 Binders/Paint 62
B23040051.02 B23040051.02.A PPG-02 Layer % of Total :100% Date Analyzed: 04/26/2023 Sample Location: Empañetado del Suelo (Color Varios) Comments: Paint Included as Binders	Hard, Compact with Aggregates Other - Fibers and Paint Lt. Gray	No		Cellulose 5	Sand/Aggregates 35 Binders/Paint 60
B23040051.03 B23040051.03.A PPG-03 Layer % of Total :100% Date Analyzed: 04/26/2023 Sample Location: Empañetado Rampa (Color Varios) Comments: Paint Included as Binders	Hard, Compact with Aggregates, Fibers Other - and Paint Lt. Gray	No		Cellulose 10	Sand/Aggregates 40 Binders/Paint 50

Comments:
For all heterogeneous and layered samples easily separated into sublayers, each component is analyzed and reported separately.

MICROANALYST: 
[Jessica Garcia]

QUALITY CONTROL: 
[Elme Rivera]

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

Page 1 of 2



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788

Job ID: B23040051



REPORT NUMBER



RP23050305

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Samples are analyzed by PLM using dispersion staining techniques in accordance with US EPA methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.

MICROANALYST:


[Jessica Garcia]

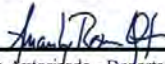
QUALITY CONTROL:


[Elme Rivera]

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



APPENDIX B: INSPECTOR CREDENTIALS

	TARJETA DE REGISTRO PARA LA REMOCION DE ASBESTO Esta tarjeta autoriza a: <i>Grace Berrios López</i> Inspector A trabajar en la remoción de asbesto en Puerto Rico. Esta persona NO es un empleado del DRNA.  Firma Autorizada - Departamento Recursos Naturales y Ambientales
ASB-1222-0541-SI Número de Registro	
13-dic-2023 Fecha de vencimiento	



GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

OGPE
Oficina de Gestión y Planificación

Área de Calidad de Agua

Forma PGC-009

CERTIFICACION DE NO PRESENCIA DE ASBESTO EN ESTRUCTURAS A DEMOLERSE

(Deberá completarse en letra de molde o impresa)

NUM. PERMISO: _____

Yo, Grace Berrios López, mayor de edad, casada, y vecino de Barranguitas
(Nombre) (Estado Civil) (Municipio)

Dirección Postal PO Box 1330, Caguas, Puerto Rico 00726
(Pueblo) (Zip Code)

Teléfonos: Residencial () - - Oficina (787) 720 - 5869 Ext. _____
Fax () - -

Certifico que:

1. La estructura localizada en Calle Vicente Pales #3 Guayama, Puerto Rico, la cual será objeto de una demolición se encuentra libre de asbesto. Proyecto: Rehabilitación de la Plaza de Recreos Cristóbal Colón
2. La información antes indicada es cierta y correcta.
3. Afirmando y reconozco las consecuencias de incluir y someter información falsa en este documento.
4. Para que así conste, firmo la presente certificación en Caguas de Puerto Rico,
(Municipio)
hoy día 8 de mayo de 2023


Firma y Sello del Profesional o
Firma del Inspector de Asbesto registrado por la JCA (Original)

Nota: Ingenieros o Arquitectos deberán someter evidencia de que se encuentra al día en el pago de sus cuotas de colegiación e Inspectores de Asbesto deberán someter evidencia de la tarjeta de registro provista por la JCA.

Dirección Física: Ave. Ponce de León 1306, Carr. Estatal 6638, Sector el Cinco, Río Piedras, PR 00926
Dirección Postal: Apartado 11488, Santurce, PR 00910-1488
Tel. (787) 767-6181 • Fax (787) 767-1952



LEAD BASED PAINT INSPECTION REPORT

AT
Plaza Cristóbal Colon

Physical Address: Plaza Publica Cristóbal Colon, Guayama, Puerto Rico



Prepared by:

ShareTech Group

PO Box 1330, Caguas, P.R.
00726-1330

Tel.: (787)720-5869 Fax: (787)
720-2318

Submitted to:

Municipio de Guayama

May 12, 2023



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INTRODUCTION

The Municipality of Guayama retained the services of Sharetech Group Engineering PSC to provide professional environmental engineering consulting services consisting of performing a limited Lead Based Paint (LBP) inspection. The LBP inspection was conducted as part of Municipality of Guayama commitment to comply with local, state, and federal regulations and for identify paint that contains lead above allowable levels that could result in harm to workers, including construction personnel.

Lead Based Paint inspection was conducted on April 21, 2023, located on Plaza Publica Cristobal Colon, Guayama, PR, by Grace Berrios, accredited lead inspector. The inspection consisted of the evaluation of Plaza Cristobal Colon.



Figure #1: Plaza Publica Cristóbal Colon

LBP inspection conforming to HUD guidelines was performed to identify all lead-based paints on a surface-by-surface basis. A total of 84 readings were taken including 3 readings for calibration purposes using portable X-ray fluorescence (XRF) spectrum analyzer paint tests, Niton XLp 300 Series Analyzer. The results obtained are tabulated on Table #2: LBP Assessment Results on Appendix A. The Interpretation of the results, conclusions and recommendations are on page 6.

METHODOLOGY AND EQUIPMENT

The Lead Based Paint Sampling Procedure was designed to evaluate and document all the data obtained from the inspection in a sequential method that provided confidence of the results presentation.

The survey was performed following the methodology established in the HUD Guidelines for the Evaluation and Control of Lead Based Paint in Housing (2012 revision) and the Natural Resources and Environmental Department (DRNA by Spanish acronym) former PREQB Lead Based Paint Abatement Control Regulation.

An X-Ray Fluorescence (XRF) Lead Analyzer was used to test the paint for lead. This analyzer is a nondestructive method of testing paint and provides immediate results for each test conducted. If paint contains lead equal to or greater than 1.0 mg/cm², it is considered to be lead-based paint. The higher the reading on the XRF, the higher the lead content of the paint. The surfaces evaluation was performed as follows:

- If the lead concentration measured by the XRF Spectrum Analyzer is less than 1.0 mg/cm² it is considered negative.
- If the lead concentration measured by the XRF Spectrum Analyzer is equal or greater than 1.0 mg/cm² it is considered positive.



Figure #2: Image of Niton XLp 300 Series XRF Analyzer

The performance characteristics sheet for the instrument is attached at the end of this report. The spectrum analyzer automatically subtracts from a spectrum the fluorescence from the substrate of the paint, to give an accurate reading of lead content without taking of samples or



stripping of the paint. This performed via a computer program stored in the analyzer, which gives an instantaneous readout of the lead content of a site in milligrams of lead per square centimeter of surface area (mg/cm^2). The Niton Xlp 300A Series XRF Analyzers with serial number 114739, is calibrate before and during the survey.

The inspection was conducted following EPA's work practice standards for conducting lead-based paint activities (40 CFR 745.227), the U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (Guidelines) with the 1997, 2000 and 2012 revisions, and all State and local regulations.

Sharetech Group completed the lead-based paint inspection and investigation to identify all lead-based paint on a surface-by-surface basis. An average of 84 readings, including 3 readings for calibration, were collected at identified surfaces of the evaluated areas using portable X-ray fluorescence (XRF) spectrum analyzer paint testes, Niton XLp 300 Series Analyzer by state-certified lead inspector. Refer to Appendix D for inspector accreditations.



REPORT OF RESULT

The readings collected at Plaza Cristobal Colon revealed non-detected Lead Base Paint content, which means that no lead content is equal or greater than 1.0 mg/cm^2 . Please refer to the Appendix A: Table #1: LBP Inspection Results for Plaza Cristobal Colon, for the detailed analytical testing results for each distinct area inspected.

INTERPRETATION OF RESULT

The survey was performed following the methodology established in the HUD Guidelines for the Evaluation and Control of Lead Based Paint Housing and Natural Resources Environmental Department (DRNA by acronym in Spanish) Lead Based Paint Abatement Control Regulation. The surfaces evaluation was performed as follows:

- If the lead concentration measured by the XRF Spectrum Analyzer is less than 1.0 mg/cm^2 it is considered negative.
- If the lead concentration measured by the XRF Spectrum Analyzer is equal or greater than 1.0 mg/cm^2 it is considered positive.

CONCLUSIONS AND RECOMMENDATIONS

No further actions are required based on results obtained from the readings collected at Plaza Cristobal Colon.

Sharetech Group appreciates the opportunity to have provided these services. We would be glad to discuss any of the results contained in this report, at your convenience. If there are any questions concerning this report or results, please contact us.

DISCLOSURE

According to the Federal Law (24 CFR part 35 and 40 CFR part 745) a copy of this summary must be provided to new tenants and purchasers of this facility/property, before they become obligated under a lease or sales contract. The entire report must also be provided to new purchasers and be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet, including standard warning language in their leases or sales contracts to ensure that parents have the information necessary to protect their children from lead-based paint hazards.

The Occupational Safety and Health Administration (OSHA) Lead in Construction Standard states that “negative” readings (i.e., those below the HUD/EPA definition of what constitutes LBP (1.0 mg/cm^2)) does not relieve contractors from performing exposure assessments



(personal air monitoring) on their employees per the OSHA Lead Standard and should not be interpreted as lead free. Although a reading may indicate “negative”, airborne lead concentrations still may exceed the OSHA Action Level or the OSHA Permissible exposure limit (PEL) depending on the work activity.

ENVIRONMENTAL ASSESSMENT REPORT CERTIFICATION

Sharetech Group Engineering has performed this lead- based paint inspection in a thorough and professional manner consistent with commonly accepted industry standards. The inspection was conducted on April 21, 2023 by Grace Berríos state-certified inspector LBPI-36122-427, qualified by experience, education, and training in the recognition of lead-based paint and approved sampling techniques using the Niton XLp-300.

Erick Pagán Ortiz
EHS Technician



APPENDIX

APPENDIX A: LEAD-BASED PAINT ASSESSMENT RESULTS

Table #1: LBP Assessment Results

		Lead Based Paint Inspection Plaza Cristobal Colon, Guayama PR.							
Sample ID	Property ID	Date	Functional Space	Description*	Color	Subst. (wood (w), ceramic(c.), metal (m), concrete (con), Gypsum board (GB)	XRF Readings	Pos/Neg	Comments - *Refer to photos for location
1	Plaza Cristobal Colon	4/21/2023	Det. Calibration						
2	Plaza Cristobal Colon	4/21/2023	Calibration				0.90		Range (0.8 to 1.2 mg/cm2)
3	Plaza Cristobal Colon	4/21/2023	Exterior	Painted line	Yellow	Con	0.00	Neg	ground
4	Plaza Cristobal Colon	4/21/2023	Exterior	Ramp	Blue	Con	0.08	Neg	
5	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
6	Plaza Cristobal Colon	4/21/2023	Exterior	Curb	Yellow	Con	0.01	Neg	
7	Plaza Cristobal Colon	4/21/2023	Exterior	Electric Pole	Black	M	0.00	Neg	
8	Plaza Cristobal Colon	4/21/2023	Exterior	Electric Pole	Black	M	0.00	Neg	
9	Plaza Cristobal Colon	4/21/2023	Exterior	Garbage can	Green	M	0.00	Neg	Support
10	Plaza Cristobal Colon	4/21/2023	Exterior	Garbage can	Green	M	0.11	Neg	
11	Plaza Cristobal Colon	4/21/2023	Exterior	Grid	Green	M	0.00	Neg	
12	Plaza Cristobal Colon	4/21/2023	Exterior	Wall	Beige	M	0.00	Neg	Front of theater
13	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Green	W	0.00	Neg	
14	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Black	M	0.00	Neg	Support
15	Plaza Cristobal Colon	4/21/2023	Exterior	Electric Pole	Black	M	0.00	Neg	
16	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Green	W	0.00	Neg	
17	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
18	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Black	M	0.00	Neg	Support
19	Plaza Cristobal Colon	4/21/2023	Exterior	Grid	Green	M	0.00	Neg	
20	Plaza Cristobal Colon	4/21/2023	Exterior	Wall	Beige	Con	0.00	Neg	
21	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Green	W	0.00	Neg	

		Lead Based Paint Inspection Plaza Cristobal Colon, Guayama PR.							
Sample ID	Property ID	Date	Functional Space	Description*	Color	Subst. (wood (w), ceramic(c.), metal (m), concrete (con), Gypsum board (GB)	XRF Readings	Pos/Neg	Comments - *Refer to photos for location
22	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Black	M	0.00	Neg	Support
23	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Green	W	0.00	Neg	
24	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
25	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Black	M	0.00	Neg	
26	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Green	W	0.00	Neg	
27	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
28	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
29	Plaza Cristobal Colon	4/21/2023	Exterior	Electric Pole	Black	M	0.00	Neg	
30	Plaza Cristobal Colon	4/21/2023	Exterior	Garbage can	Green	M	0.00	Neg	Support
31	Plaza Cristobal Colon	4/21/2023	Exterior	Garbage can	Green	M	0.11	Neg	
32	Plaza Cristobal Colon	4/21/2023	Exterior	Monument	Beige	Con	0.00	Neg	Wall
33	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
34	Plaza Cristobal Colon	4/21/2023	Exterior	Monument	White	Con	0.00	Neg	
35	Plaza Cristobal Colon	4/21/2023	Exterior	Electric Pole	Black	M	0.00	Neg	
36	Plaza Cristobal Colon	4/21/2023	Exterior	Painted line	Yellow	Con	0.00	Neg	
37	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
38	Plaza Cristobal Colon	4/21/2023	Exterior	Ramp	Blue	Con	0.00	Neg	
39	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
40	Plaza Cristobal Colon	4/21/2023	Exterior	Painted line	Yellow	Con	0.00	Neg	
41	Plaza Cristobal Colon	4/21/2023	Exterior	Grid	Green	M	0.00	Neg	
42	Plaza Cristobal Colon	4/21/2023	Exterior	Electric Pole	Black	M	0.00	Neg	

		Lead Based Paint Inspection Plaza Cristobal Colon, Guayama PR.							
Sample ID	Property ID	Date	Functional Space	Description*	Color	Subst. (wood (w), ceramic(c.), metal (m), concrete (con), Gypsum board (GB)	XRF Readings	Pos/Neg	Comments - *Refer to photos for location
43	Plaza Cristobal Colon	4/21/2023	Exterior	Wall	Beige	Con	0.00	Neg	
44	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Green	W	0.00	Neg	
45	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
46	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
47	Plaza Cristobal Colon	4/21/2023	Exterior	Garbage can	Green	M	0.00	Neg	Support
48	Plaza Cristobal Colon	4/21/2023	Exterior	Garbage can	Green	M	0.00	Neg	
49	Plaza Cristobal Colon	4/21/2023	Exterior	Monument	Beige	Con	0.00	Neg	
50	Plaza Cristobal Colon	4/21/2023	Exterior	Electric Pole	Black	M	0.00	Neg	
51	Plaza Cristobal Colon	4/21/2023	Exterior	Grid	Green	M	-0.28	Neg	
52	Plaza Cristobal Colon	4/21/2023	Exterior	Wall	Beige	Con	0.00	Neg	
53	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Green	W	0.00	Neg	
54	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Black	M	0.00	Neg	Support
55	Plaza Cristobal Colon	4/21/2023	Exterior	Garbage can	Green	M	0.00	Neg	
56	Plaza Cristobal Colon	4/21/2023	Exterior	Electric Pole	Black	M	0.00	Neg	
57	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Green	W	0.00	Neg	
58	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Black	M	0.02	Neg	Support
59	Plaza Cristobal Colon	4/21/2023	Exterior	Grid	Green	M	0.00	Neg	
60	Plaza Cristobal Colon	4/21/2023	Exterior	Wall	Beige	Con	0.00	Neg	
61	Plaza Cristobal Colon	4/21/2023	Exterior	Garbage can	Green	M	0.00	Neg	
62	Plaza Cristobal Colon	4/21/2023	Exterior	Electric Pole	Black	M	0.00	Neg	
63	Plaza Cristobal Colon	4/21/2023	Exterior	Grid	Green	M	0.00	Neg	

		Lead Based Paint Inspection Plaza Cristobal Colon, Guayama PR.							
Sample ID	Property ID	Date	Functional Space	Description*	Color	Subst. (wood (w), ceramic(c.), metal (m), concrete (con), Gypsum board (GB)	XRF Readings	Pos/Neg	Comments - *Refer to photos for location
64	Plaza Cristobal Colon	4/21/2023	Exterior	Wall	Beige	Con	0.00	Neg	
65	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Green	W	0.01	Neg	
66	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Black	M	0.00	Neg	Support
67	Plaza Cristobal Colon	4/21/2023	Exterior	Garbage can	Green	M	0.00	Neg	
68	Plaza Cristobal Colon	4/21/2023	Exterior	Painted line	Blue	Con	0.00	Neg	
69	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
70	Plaza Cristobal Colon	4/21/2023	Exterior	Painted line	Yellow	Con	0.00	Neg	
71	Plaza Cristobal Colon	4/21/2023	Exterior	Electric Pole	Black	M	0.00	Neg	
72	Plaza Cristobal Colon	4/21/2023	Exterior	Monument	Beige	Marble	0.00	Neg	
73	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
74	Plaza Cristobal Colon	4/21/2023	Exterior	Wall	Beige	Con	0.00	Neg	
75	Plaza Cristobal Colon	4/21/2023	Exterior	Painted line	Yellow	Con	0.01	Neg	
76	Plaza Cristobal Colon	4/21/2023	Exterior	Null					Due to movement of equipment while sampling
77	Plaza Cristobal Colon	4/21/2023	Exterior	Painted line	Yellow	Con	0.30	Neg	
78	Plaza Cristobal Colon	4/21/2023	Exterior	Garbage can	Green	M	0.00	Neg	
79	Plaza Cristobal Colon	4/21/2023	Exterior	Grid	Green	M	0.00	Neg	
80	Plaza Cristobal Colon	4/21/2023	Exterior	Wall	Beige	Con	0.00	Neg	
81	Plaza Cristobal Colon	4/21/2023	Exterior	Electric Pole	Black	M	0.00	Neg	
82	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Green	W	0.00	Neg	
83	Plaza Cristobal Colon	4/21/2023	Exterior	Bench	Black	M	0.00	Neg	Support
84	Plaza Cristobal Colon	4/21/2023	Calibration				1.10		Range (0.8 to 1.2 mg/cm2)

**APPENDIX B: ASSESSMENT PHOTOGRAPHS**

Plaza Cristóbal Colón
Guayama, PR
Lead readings photographs



03



04



06



07



08



09



Plaza Cristóbal Colón
Guayama, PR
Lead readings photographs



10



11



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Plaza Cristóbal Colón
Guayama, PR
Lead readings photographs



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Plaza Cristóbal Colón
Guayama, PR
Lead readings photographs



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Plaza Cristóbal Colón
Guayama, PR
Lead readings photographs



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Plaza Cristóbal Colón
Guayama, PR
Lead readings photographs



41



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Plaza Cristóbal Colón
Guayama, PR
Lead readings photographs



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Plaza Cristóbal Colón
Guayama, PR
Lead readings photographs



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Plaza Cristóbal Colón
Guayama, PR
Lead readings photographs



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66



Plaza Cristóbal Colón
Guayama, PR
Lead readings photographs



67



68



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74



Plaza Cristóbal Colón
Guayama, PR
Lead readings photographs



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Plaza Cristóbal Colón
Guayama, PR
Lead readings photographs



82



83

**APPENDIX C: LEAD CERTIFICATIONS AND INSPECTOR LICENSES AND ACCREDITATIONS**





APPENDIX D: NITON XLP - PERFORMANCE CHARACTERISTIC SHEET

Niton XLP 300, 9/24/2004, ed. 1

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: Niton LLC

Tested Model: XLP 300

Source: ^{109}Cd

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLI and XLP series:

XLI 300A, XLI 301A, XLI 302A and XLI 303A.

XLP 300A, XLP 301A, XLP 302A and XLP 303A.

XLI 700A, XLI 701A, XLI 702A and XLI 703A.

XLP 700A, XLP 701A, XLP 702A, and XLP 703A.

Note: The XLI and XLP versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0



Niton XLp 300, 9/24/2004, ed. 1

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

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

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

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

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

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

Square the average for each testing combination.

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

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

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

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

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

Compute the average of all ten original XRF results.

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

Find the absolute difference of the two averages.



Niton XLP 300, 9/24/2004, ed. 1

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

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

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm ²)		
	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.



GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

OGPE
Oficina de Gestión de Permisos

Área de Calidad de Agua

Forma PGC-010

**CERTIFICACION DE NO PRESENCIA DE PINTURA CON BASE DE PLOMO
EN ESTRUCTURAS A DEMOLERSE**
(Deberá completarse en letra de molde o impresa)

NUM. PERMISO: _____

Yo, Grace Bernier, mayor de edad, casada, y vecino de Barranguitas
(Inspector o Evaluador de Riesgos) (Estado Civil) (Municipio)

Dirección Postal PO BOX 1330, Caguas, PR 00736
(Pueblo) (Zip Code)

Teléfonos: Residencial (____) ____-____ Oficina (787) 720-5869 Ext. ____
Fax (____) ____-____

Certifico que:

1. Estoy certificado por la Junta de Calidad Ambiental como (☒ Inspector / ☐ Evaluador de Riesgos) con Número de Certificación _____, la cual se encuentra vigente.
2. La estructura localizada en la Plaza Publica Cristobal Colon, Caguas la cual será objeto de una demolición se encuentra libre de pintura con base de plomo.
3. La información antes indicada es cierta y correcta.
4. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
5. Para que así conste, firmo la presente certificación en Caguas de Puerto Rico,
(Municipio)
hoy día 30 de enero de 2025

Grace Bernier
Firma del Inspector o Evaluador de Riesgos (en original)

Nota : Deberá someter evidencia de la tarjeta o certificado provista por la JCA.

CERTIFICACIÓN PLOMO PUERTO RICO



Esta tarjeta autoriza a:

Grace Berrios López

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

Disciplina: **Inspector**

Fecha de Expiración: Enero 16, 2026

Certificación #:
LBPI-01725-014




Firma Autorizada
Departamento de Recursos Naturales y
Ambientales



DEPARTMENT OF

HOUSING

GOVERNMENT OF PUERTO RICO

**Date:** [8/6/2025]**From:** Erick A. Pagán Ortiz

Environmental Specialist

Sharetech Group LLC

Application Number: PR-CRP-000446**Project: Revitalization Plaza de Recreo Cristobal Colon****Re: Justification for the Infeasibility and Impracticability of Radon Testing**

After reviewing Application Number PR-CRP-000446 under the CDBG-DR Program, administered by the Puerto Rico Department of Housing (**PRDOH**), to complete the property's contamination analysis in accordance with 24 C.F.R. § 50.3(i) and 24 C.F.R. § 58.5(i), we have determined that testing the property's radon levels is infeasible and impracticable.

Per the U.S. Department of Housing and Urban Development's (**HUD**) CPD Notice 23-103, the recommended best practices and alternative options for radon testing are infeasible and impracticable in this case due to the following reason[s]:

- As required by the CPD Notice 23-103, the scientific data reviewed in lieu of testing must consist of a minimum of ten documented test results over the previous ten years. If there are less than ten documented results over this period, it is understood that there is a lack of scientific data. The latest report for radon testing in Puerto Rico was prepared in 1995 by the U.S. Department of the Interior in Cooperation with the U.S. Environmental Protection Agency. No other completed studies and reports on radon testing are available in Puerto Rico.

- There is no available science-based or state-generated information for Puerto Rico for the last ten years that can be used to determine whether the project site is in a high-risk area. The Department of Health and Human Services, Centers for Disease Control and Prevention (**CDC**), National Environmental Public Health Tracking, and Radon Testing map do not include Puerto Rico data.
- There are only two (2) licensed professionals in Puerto Rico who can conduct radon testing using the American National Standards Institute/American Association of Radon Scientists and Technologists (**ANSI/AARST**) testing standards, which makes it difficult, time-consuming, and highly expensive to coordinate and secure a site visit for the contamination evaluation.
- Do-it-yourself (**DIY**) radon test kits are known to be unreliable in assuring and controlling the quality of the test results; they are not readily available in Puerto Rico, and the cost and time required for purchasing and sending them for analysis are unreasonable when weighed against the results' reliability and the need for prompt results.
- Local authorities in Puerto Rico do not have the specialized radon monitoring equipment or trained staff needed to conduct the radon testing analysis and ensure proper quality control and quality assurance practices are adhered to. We also do not have a radiation laboratory certified for radon testing.

As part of the evaluation for this determination, PRDOH sent information requests to six (6) local agencies at the state and federal levels. We received responses from the following agencies:

- United States Geological Survey;
- Centers for Disease Control and Prevention;
- Puerto Rico Department of Health; and
- United States Environmental Protection Agency.

The agencies mentioned above confirmed the lack of scientific data on Radon testing for Puerto Rico and the technical difficulties that we face to comply with HUD's Radon testing requirement. For the above-mentioned reasons, Radon testing is infeasible and impracticable for this property, and no further consideration of Radon is needed for the environmental review.

Radon Attachments
Appendix D – Exhibit #14



August 20, 2024

Mrs. Carmen R. Guerrero Pérez
Director
Caribbean Environmental Protection Division
City View Plaza II – Suite 7000
#48 Rd. 165 km 1.2
Guaynabo, PR 00968-8069

Via email: guerrero.carmen@epa.gov

RE: Request for information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

This Notice emphasizes the importance of radon testing and mitigation in ensuring safe living environments, particularly in HUD-assisted properties. PRDOH, as the grantee of the Community Development Block Grant for Disaster Recovery and Mitigation (CDBG-DR/MIT), is responsible for ensuring compliance with environmental requirements under CDBG-DR/MIT programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels, testing practices, and any mitigation efforts within the islands of Puerto Rico.

Specifically, we are seeking for possible availability of the following information:

Radon testing data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.

Barbosa Ave. #506, Building Juan C. Cordero Davila, Rio Piedras, PR 00926 | P.O. Box 21365 San Juan, PR 00926-1365
Tel: (787) 274-2527 | www.caribbean.gov



August 20, 2024

Dr. Silvina Canelos
Professor
College of Engineering
University of Puerto Rico – Mayagüez Campus
259 Norte Blvd. Alfonso Valdés Cobán
Mayagüez, Puerto Rico

Via email: silvina.canelos@upr.edu

RE: Request for information regarding available data on radon testing and levels within Puerto Rico

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Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or mitigation.

Policies and guidelines – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

Historical data – If available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements. If some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely,

William O. Rodriguez Rodriguez, Esq.
Secretary

CC: Mr. Oleg Poverkin, Poverkin.Oleg@epa.gov
Mr. Matthew Lantia, lantia.matthew@epa.gov

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Sincerely,

William O. Rodriguez Rodriguez, Esq.
Secretary

CC: Dr. Carlos Marín, carlos.marin@upr.edu



August 20, 2024

Dr. Jessica Izarry
Director
Office of Island Affairs
U.S. Centers for Disease Control and Prevention
1324 Cll Canada, San Juan, 00920
Guaynabo, PR 00968-8069

Via email: OIA@cdc.gov

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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Barbosa Ave #606, Building Juan C. Cordero Davila, Rio Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365
Tel: (787) 274-2527 | info@prdoh.pr.gov

CDBG-DR/MIT Program
Request for Information in relation with HUD CDP-23-103 for Puerto Rico
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Sincerely,


William O. Rodríguez Rodríguez, Esq.
Secretary



August 20, 2024

Mrs. Anais Rodríguez
Secretary
Puerto Rico Department of Natural Resources
Carretera 8838, km. 6.3, Sector El Cinco,
Rio Piedras San Juan, PR 00926

Via email: anais.rodriguez@dnpa.pr.gov

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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Tel: (787) 274-2527 | info@prdoh.pr.gov

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Sincerely,


William O. Rodríguez Rodríguez, Esq.
Secretary

CC: Mr. Luis Márquez, secretariadnpa@dnpa.pr.gov
Eng. Amarilis Rosario, aire@dnpa.pr.gov
Mrs. Elda Orrego, ortegad@dnpa.pr.gov



GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Dr. Carlos R. Mellado López
Secretary
Puerto Rico Department of Health
P.O. Box 70184
San Juan, PR 00936-8184

Via email: drccarlos.mellado@salud.pr.gov

RE: Request for information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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Barbosa Ave. #506, Building Juan C. Cordero Davila, Rio Piedras, PR 00930 | P.O. Box 23265 San Juan, PR 00926-1305
Tel: (787) 274-2527 | info@cederobase.pr.gov



GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Mrs. Holly Weyers
Regional Director, Southeast – Puerto Rico
US Geological Survey
3916 Sunset Ridge Road
Raleigh, NC 27607

Via email: hweyers@usgs.gov

RE: Request for information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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CDBG-DR/MIT Program
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Sincerely,


William C. Rodríguez Rodríguez, Esq.
Secretary

Cc: Mr. Raúl Hernández Doble, rhernandez2@salud.pr.gov

CDBG-DR/MIT Program
Request for information in relation with HUD CDP-23-103 for Puerto Rico
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Sincerely,


William C. Rodríguez Rodríguez, Esq.
Secretary

Cc: Mr. R. Randall Schumann, rschumann@usgs.gov

From: Charp, Paul (CDC/NCEH/DEHSP) <pac4@cdc.gov>
Sent: Tuesday, September 3, 2024 6:36 AM
To: Miranda, Sandra (CDC/PHIC/DPS); Irizarry, Jessica (CDC/PHIC/DPS); Rzeszutarski, Peter (CDC/NCEH/DEHSP); Vinson, D. Aaron (CDC/NCEH/DEHSP)
Cc: Kostak, Liana (CDC/PHIC/DPS); Vazquez, Germaine (CDC/NCEH/DEHSP)
Subject: RE: REHi: Puerto Rico Request for Information- Randon testing and levels

Good morning, Sandra and others,

In response to the request from Mr. William Rodriguez of the Department of Housing, Government of Puerto Rico, I have reviewed all the available data within the CDC National Environmental Public Health Tracking Network system for data related to radon in Puerto Rico. In addition to the tracking data available on the internet, I also reached out to Mr. Aaron Vinson of the NCEH Tracking Branch.

I was not able to find any data in the CDC systems and this was confirmed by Mr. Vinson. We also reached out the US Environmental Protection Agency who indicated they had no radon data in their systems. Please relay this information to Mr. Rodriguez in your response to his requests

If you have any additional questions, please contact me.

Thank you and best regards,

Paul A. Charp, Ph.D., Fellow, HPS
Senior Health Physicist
Emerging Environmental Hazards and Health Effects Branch (EEHHEB)
Division of Environmental Health Science and Practice (DEHSP)
National Center for Environmental Health (NCEH)
Centers for Disease Control and Prevention (CDC)
pcharp@cdc.gov
770-488-0723 office
404.388.0614 Cell



From: Schumann, R. Randall <rschumann@usgs.gov>
Sent: Wednesday, August 21, 2024 4:39 PM
To: Melanie Medina Smaine <mmedina@vivienda.pr.gov>; Weyers, Holly S <hsweyers@usgs.gov>
Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>
Subject: RE: Request for Information- Radon testing and levels

Dear Ms. Medina Smaine,

In the early 1990s the U.S. Geological Survey (USGS) conducted geologic assessments of radon potential for all 50 states and the territories of Guam and Puerto Rico, in collaboration with the U.S. EPA. I conducted the geologic radon potential assessment for Puerto Rico. The PDF file of the report is too large to attach to this message but it can be obtained at <https://pubs.usgs.gov/of/1993/0292k/report.pdf>. The USGS did not conduct indoor radon testing and we did not conduct field studies associated with this assessment; it was based on existing data. Mr. David Saldana of the Puerto Rico Department of Health kindly provided us with data for 610 homes that were tested for indoor radon by his agency between 1993 and 1995, which are summarized in the report. I am not aware of any other radon-related geologic studies conducted in the Commonwealth of Puerto Rico by the U.S. Geological Survey.

Best regards,

R. Randall Schumann
Scientist Emeritus
U.S. Geological Survey
Geosciences and Environmental Change Science Center
Denver, Colorado, USA
rschumann@usgs.gov
<https://www.usgs.gov/staff-profiles/r-randall-schumann>

From: Raul Hernandez Doble <rhernandez2@salud.pr.gov>
Sent: Wednesday, August 21, 2024 2:13:31 PM
To: Melanie Medina Smaine <mmedina@vivienda.pr.gov>; Dr. Carlos Mellado <drcarlos.mellado@salud.pr.gov>
Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Mayra Toro Tirado <mtoro@salud.pr.gov>
Subject: RE: [EXTERNAL]Request for Information- Radon testing and levels

Good afternoon. Ms. Medina

I regret to inform that we do not have any recent information on radon testing, since we do not have a certified radiation laboratory certified for radon testing. There are companies that sell test kits available online that can be done and mailed to a testing laboratory. There are also lists of radon contractors and these companies that process radon testing cartridges with instructions, on the Environmental Protection Agency Indoor air Quality web page. The last radon study in Puerto Rico done by the PR Department of Health was done on the year 1993.

Raul Hernandez Doble
Director, Seccion Salud Radiologica
Division de Salud Ambiental
Secretaria Auxiliar para la Vigilancia y la Proteccion de la Salud Publica
rhernandez2@salud.gov.pr
Phone: (787)765-2929 ext. 3210

From: Reyes, Brenda <Reyes.Brenda@epa.gov>
Sent: Wednesday, September 18, 2024 11:48 AM
To: Cesar O Rodriguez Santos <cesarrodriguez@drna.pr.gov>; Maritza Rosa Olivares <maritzarosaolivares@drna.pr.gov>; Silvina Cancelos Mancini <silvina.cancelos@upr.edu>; Melanie Medina Smaine <mmedina@vivienda.pr.gov>
Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Povetko, Oleg (he/him/his) <Povetko.Oleg@epa.gov>
Subject: RE: Request for Information- Randon testing and levels

Saludos.

La EPA esta trabajando una respuesta a su petición. Se sometió borrador a la directora y el subdirector para su aprobación y firma.

Brenda Reyes Tomassini
Public Affairs
U.S. EPA
Region 2
Caribbean Environmental Protection Division
(787) 977-5869/(787) 977-5865
Mobile: 202-834-1290

From: Silvina Cancelos Mancini <silvina.cancelos@upr.edu>
Sent: Friday, September 6, 2024 15:04
To: Melanie Medina Smaine <mmedina@vivienda.pr.gov>
Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Maritza Rosa Olivares <maritzarosaolivares@drna.pr.gov>; Reyes, Brenda <Reyes.Brenda@epa.gov>; Povetko, Oleg <Povetko.Oleg@epa.gov>
Subject: Re: Request for Information- Randon testing and levels

Estimada Melanie Medina

Quería dejarle saber que recibimos su correo el 21 de agosto al igual que el de Maritza Rosa el pasado 4 de septiembre. Ya las personas involucradas de EPA, junto conmigo y el Dr. Marín estamos al tanto del asunto y estamos trabajando para poder enviarles la información.

Atentamente

Silvina Cancelos
Professor
Associate Director
Mechanical Engineering Department
University of Puerto Rico - Mayaguez
Call BOX 9000 Mayaguez PR 00680
Tel: 787-832-4040 ext 5956
email: silvina.cancelos@upr.edu



Bubble Dynamics Lab
University of Puerto Rico - Mayaguez



EPA REGION 2
CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION

September 23, 2024

VIA EMAIL

William O. Rodriguez Rodriguez, Esq.
Secretary
Puerto Rico Department of Housing
Barbosa Ave. 606 Building Juan C. Cordero
San Juan, PR 00917
Email: W.Rodriguez@vivienda.pr.gov

RE: EPA Response to August 20, 2024 request for information of data on radon testing and levels in Puerto Rico

Dear Honorable Secretary Rodriguez Rodriguez:

This communication is in response to your letter of August 20, 2024 addressed to the Puerto Rico Department of Natural and Environmental Resources (DNER) and referred to the U.S. Environmental Protection Agency (EPA) regarding available data on radon testing and levels within Puerto Rico.

EPA's National Radon Action Plan 2021–2025 sets a goal for the nation to find, fix and prevent high indoor radon levels in 8 million buildings by 2025 and prevent 3,500 lung cancer deaths per year. Under this Plan, leaders from across multiple sectors are working together to plan, guide, and sustain nationwide action to prevent exposure to radon.

Due to the lack of data in Puerto Rico, EPA undertook an investigation in collaboration with the University of Puerto Rico-Mayaguez (UPRM) Campus, Departments of Civil Engineering and Surveying and Mechanical Engineering, to find out if radon presented a problem in Puerto Rico. Up until 2021, the only data we had for Puerto Rico was a 1993–1995 mail-in radon screening study referred to by the U.S. Geological Survey report (USGS, 1995) in which the USGS concluded that several areas of Puerto Rico have the geologic potential to generate indoor radon levels exceeding the EPA Action Level of 4 pCi/L (picocuries per liter), perhaps locally reaching very high levels above 50 pCi/L, if a house construction and

ventilation allow for soil-gas radon to enter and concentrate within the structure.¹ According to the USGS report, most of these areas are located in the northwest part of the island. Please note that the actual 1993–1995 study documentation is not available to the EPA.

Typical radon testing technology used in mainland United States (charcoal canisters or electric-powered devices) are impractical in Puerto Rico because of high humidity and power outages. The recovery and rebuilding of communities following the aftermath of 2017 Hurricanes Irma and Maria presented an opportunity to develop radon prevention and mitigation strategies in 2019. Initially, EPA sampled indoor radon air in over 170 single-family residences in the municipalities of San Sebastian, Lares, Ciales, Arecibo, Morovis, Camuy, and Hatillo and later expanded the project to other municipalities such as Rincon, Aguada, Aguadilla, Isabela, Quebradillas, Barceloneta and Vega Baja. The quality assurance protocols were anchored in American National Standards Institute/American Association of Radon Scientists and Technologists (ANSI/AARST) standards of practice (ANSI/AARS, 2019). The sampling was designed in two stages: scoping and confirmatory sampling. The scoping sampling was conducted using Corentium Home (CH) electronic monitors and E-Perm systems. Locations measuring above the EPA Action Level of 4 pCi/L with CH were measured at the second stage of the sampling using RAD7 and Corentium Pro Continuous Radon Monitors (CRMs). Nationally certified radon sampling professionals led by one such professional from the UPRM conducted confirmatory sampling in the second stage. Also, during the study, the nationally certified radon mitigation professionals inspected several homes with elevated indoor radon levels.

Mapping radon in Puerto Rico proved to be a complicated endeavor given the COVID-19 pandemic in 2020. EPA and UPRM continue to work on the project, however, results have not been finalized, and no scientific report has been published yet. Unfortunately, EPA cannot share preliminary data at this time because it contains privileged information. Nevertheless, preliminary data from the study does show homes with levels over 4 pCi/L (EPA Action Level) that might need mitigation to protect the health of their inhabitants.

Although many states have developed laws and regulations governing radon disclosure, certification, and mitigation, Puerto Rico lacks legislation or mandatory radon testing provisions for new construction, remodeling, selling or buying homes. Given this loophole and aiming to answer your request, the EPA can provide information on Best Management Practices for sampling indoor radon in Puerto Rico.

¹ **Reference:** USGS. Geologic Radon Potential of Guam and Puerto Rico, Report 93-292-K. Washington, DC: USGS. Retrieved 9/11/2024, from <https://pubs.usgs.gov/of/1993/0292k/report.pdf>.

CITY VIEW PLAZA II BUILDING, 7TH FLOOR
ROUTE 185 GUAYNABO, PR 00968

2

If you have any questions or need any additional information, please contact me at 787-977-5865 or guerrero.carmen@epa.gov or have your staff contact Reyes, Brenda at reyes.brenda@epa.gov or (787) 977-5869.

Sincerely,

**CARMEN
GUERRERO
PEREZ**

Carmen R. Guerrero Pérez
Director

Digitally signed by
CARMEN GUERRERO PEREZ
Date: 2024.09.23 09:41:39
-04'00'

cc: Roberto Mendez, Esq (Acting Secretary, PR Department of Natural and Env. Resources)
Melany Medina: mmedina@vivienda.pr.gov
Elaine Dume Mejia: Edume@vivienda.pr.gov
Luz S Colon Ortiz: Lcolon@vivienda.pr.gov
Aldo A. Rivera-Vazquez: aarivera@vivienda.pr.gov
Cesar O. Rodriguez: cesarrodriquez@drna.pr.gov
Marita Rosa Olivares: maritzarosaolivares@drna.pr.gov



“FIELD ASSESSMENT REPORT”

Rehabilitación Plaza Cristóbal Colon

Project No. CRP-000446
April 11, 2023

Preparado por:

ShareTech Group, PSC
Yaxandra Curet Cotto
PO Box 1330
Caguas, PR 00726-1330

Sometido a:

Ilia Soto Vega
Directora
Programas Federales / Recuperación y Reconstrucción
Municipio de Guayama
Calle Vicente Pales Matos
Guayama, Puerto Rico 00784



Abril 11, 2023

Ilia Soto Vega
Directora
Programas Federales / Recuperación y Reconstrucción
Municipio de Guayama

Calle Vicente Pales Matos
Guayama, Puerto Rico 00784

Estimada Sra. Soto:

Presentamos el reporte documento las condiciones existentes de los elementos que componen la Plaza Publica Cristóbal Colon ubicada en el casco urbano del Municipio de Guayama. Este reporte incluye fotos de algunos de los elementos que se encuentran en el interior de la plaza y que será parte de la rehabilitación de esta. Asimismo, incluye el plan de trabajo propuesto para las facilidades y los resultados de un amuestra que se realizó a la terminación de piso.

Certificamos que durante esta visita se tomó la información que se requería para poder presentar un diseño que atienda los daños que esta área experimento. Las recomendaciones se elaboraron de conformidad con los códigos y reglamentos locales y federales.

Cordialmente,

Ing. Yaxandra Curet Cotto
Coordinador de Proyecto
ShareTech Group

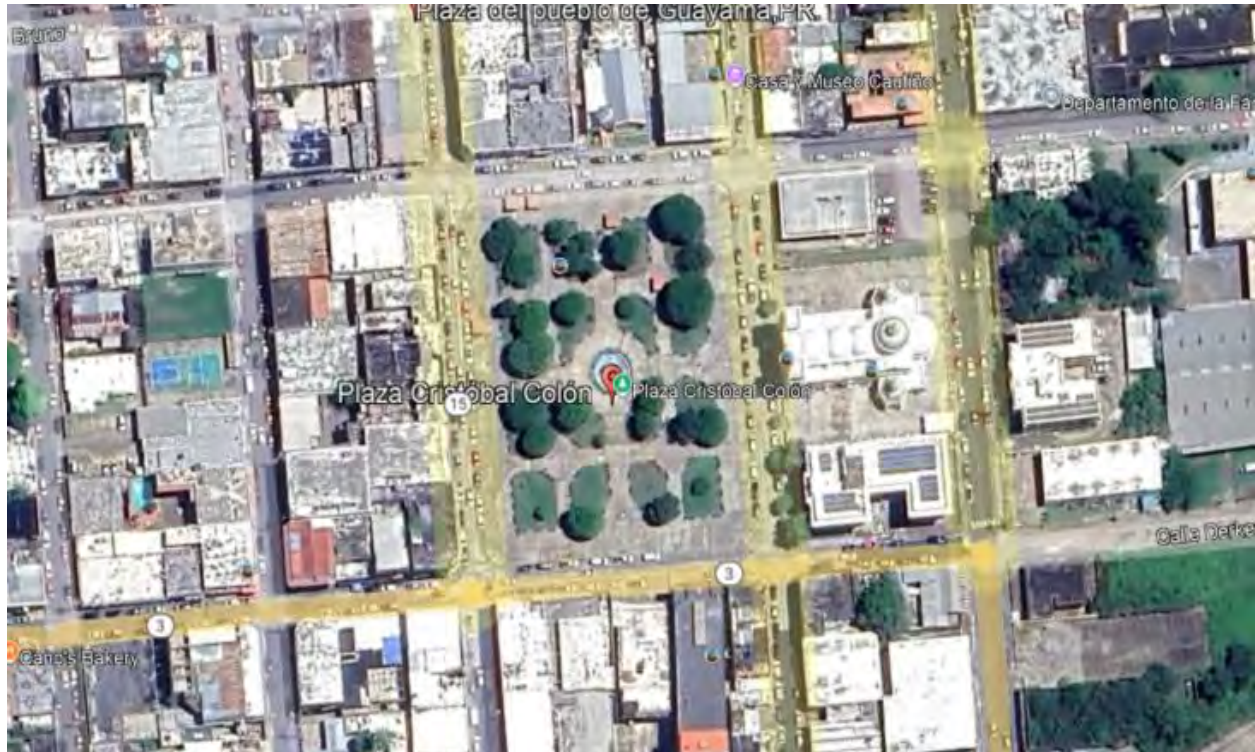


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Descripción Facilidades: Plaza Publica Cristóbal Colon

Mapa de Localización



- **Tipo de facilidad:** Histórica
- **Numero de catastro:** 420-042-103-01
- **Numero del Mapa de inundación:** 72000C2130J
- **Área aproximada:** 7,150.537 metros cuadrados
- **Coordenadas:** Latitud: 17.985066, Longitud: -66.113442

El solar colinda, por el Norte, con la Alcaldía Municipal; por el Sur, con el Teatro Calimano; por el Este, con la Iglesia Católica y por el Oeste, con la antigua estructura del Cine Campoamor. En su interior se construyeron monumentos dedicados a los soldados del cuarto de Ohio, a los veteranos de la guerra de Corea y al poeta Luis Pales Matos. En su centro se instaló una fuente en mármol gris de estilo rococo con una altura de veintitrés pies de altura. Está ubicada en una zona x, según los mapas de FEMA y la topografía se puede considerar 100% llana.

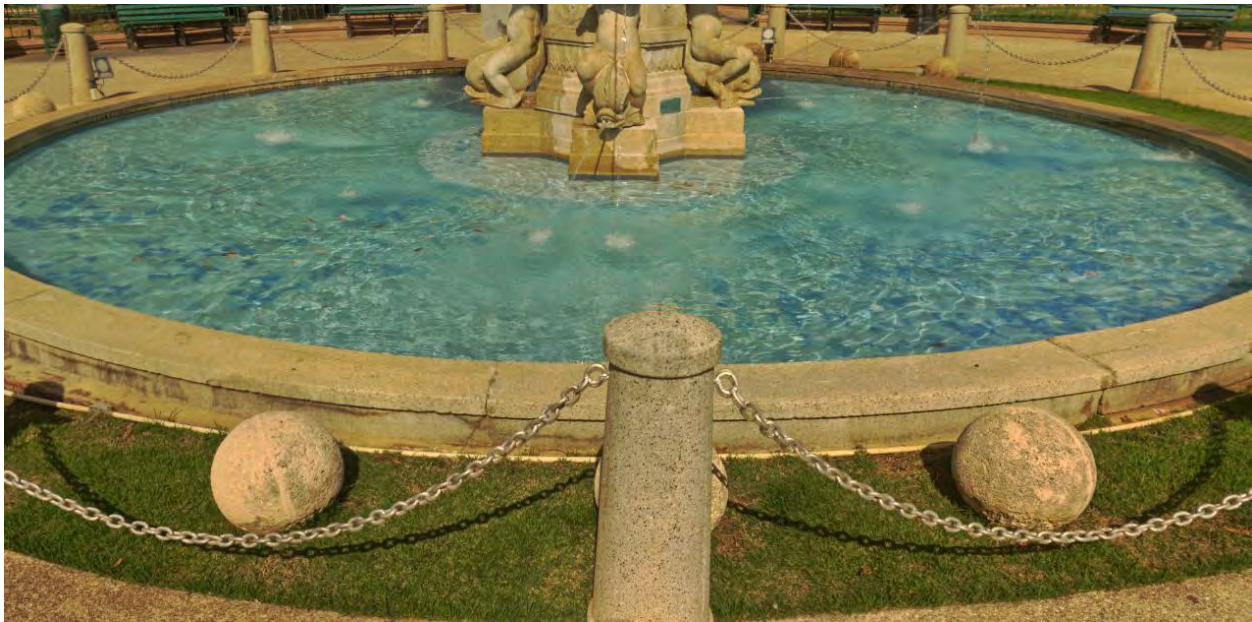
Condiciones Existentes

Durante la visita que se realizó al proyecto se documentaron algunas de las condiciones existentes de los elementos que componen la plaza. El propósito de la vista era documentar las condiciones de los elementos para luego establecer como se atenderían mediante la rehabilitación.

Fuente:







Fuente ubicada en el centro de la plaza.

Presenta grietas en los querubines, tubería expuesta, pintura desmerecida donde se poza el agua y limo.

Bomba de la fuente



Presenta corrosión y deterioro en sus elementos.

Monumentos



Algunas de las letras se han despegado y los pedestales presentan deterioro

Foto con el dron de las condiciones existentes



“Core” a losa de piso

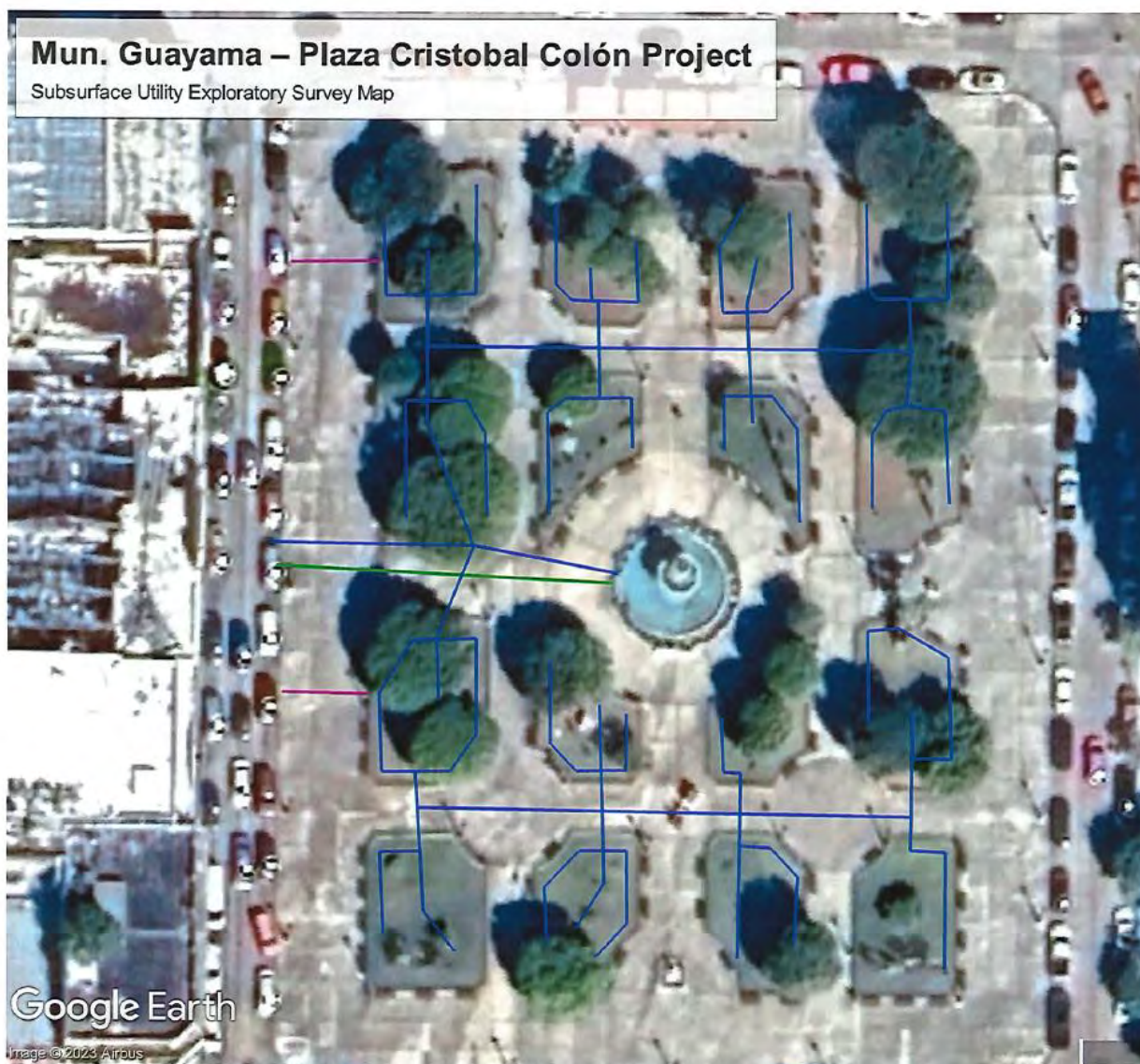
Se realizaron tres (3) core para confirmar el espesor de la terminación del piso existente.



La muestra # 1 se tomó frente a la Casa Cautiño, la muestra # 2 fue cerca de la caseta donde los residentes juegan dominó y la muestra # 3 fue en la esquina de La Vida. Como podrán observar, el terreno de la plaza es irregular. En un área la muestra hasta el terreno es de aproximadamente de 10" sin embargo en el lado opuesto es de alrededor de 8". Este asunto será evaluado por un ingeniero civil y estructural para determinar los métodos de instalación de la nueva terminación.

Tuberria soterrada

Mediante usa de maquinas especializadas se pudo hacer un escaneo de las tuberias que se encuentran debajo de la terminacion de la plaza y suplen a los jardines.



En la foto se muestra la distribucion de la tuberia potable y sanitaria.Las otras utilidades identificadas podran ser revisadas en el reporte del SUE.



PLAN DE TRABAJO PROPUESTO

La acción propuesta se encuentra en la lista de acciones aprobadas como exclusión categórica, bajo acciones de demolición o reconstrucción por tratarse de una remodelación de área existente cuya construcción es ministerial en la clasificación donde ubica conforme al reglamento vigente. El área de ocupación total es de 7,1150.537 metros cuadrados al igual que el área de construcción bruta de piso.

Consta de dieciséis (16) en su interior que están delimitados por muros de hormigón de aproximadamente 12 pulgadas y verja ornamentales de aproximadamente 3.5 pies altura. Estos elementos serán reparados y pintados como parte de los trabajos propuestos. También se propone remover las plantas, los receptáculos y el sistema de riego de cada uno de los jardines para remplazarlo con elementos igual o similar a los existentes. Se añade a estos elementos la instalación de luminarias y bocinas.

Los bancos existentes están compuestos de acero y madera. Con el fin de mantener la integridad de la plaza, se propone reparar y pintar las partes en acero de cada uno de los bancos y se recomienda el remplazo de los elementos de madera.

Los zafacones se removerán para instalar zafacones de igual forma y tamaño para mantener la homogeneidad entre estos elementos y aumentar la capacidad de almacenaje. Cada uno de estos zafacones tendrá el escudo del Municipio en la parte frontal.

La fuente que está ubicada en el centro de la plaza tiene 23 pies de altura y se recomienda que sea restaurada. Como parte de nuestro diseño se recomienda el lavado de esta pieza, el sellado de las grietas, el aumento de diámetro de la tubería de desagüe, la relocalización de sistema de bomba a uno de los jardines que queda alrededor de esta y la instalación de nuevas luminarias en el perímetro.

Los postes existentes permanecerán, solo se propone que sean reparados y pintados.

La terminación de piso existente, de 1 a 1.5 pulgadas de espesor, se recomienda remover. También se recomienda la reparación de la base donde se instalará la nueva terminación. Los encintados en todo el perímetro de la plaza se verán afectados con estos trabajos por lo que se recomiendan demoler y construir con una altura no mayor de 6" pulgadas. Se construirán ocho (8) rampas en las esquinas de la plaza para proveer acceso a las personas con impedimento.

La plaza cuenta con cuatro (4) monumentos en su interior. Dos de ellos se mantendrán en su localización, Monumento de Luis Pales Matos y el Obelisco, y los otros dos serán relocalizados en jardines alrededor de la fuente, las tarjas. Al Monumento de Luis Pales Matos y el Obelisco se le removerán las plantas existentes, se sembrará grama y se le instalará una verja ornamental. A Las tarjas se le construirá un nuevo pedestal para instalarlas. También se propone la construcción de un cuarto eléctrico para proveer seguridad a todos los paneles que energizan la plaza. Este estará compuesto de una



pared de bloque sé que se combina con una parde de hormigón existente, dos portones y techo de metal.

Como nuevo elemento a integrar a la plaza se propone la instalación de mesas con bancos en los cuatro círculos interiores de la plaza. También se propone la siembra de árboles en los jardines que están en la parte sur de la plaza y en el perímetro de la fuente.

Si hay alguna pregunta o comentario con lo antes expuesto no dude en contactar nuestras oficinas. Se estará trabajando el diseño conceptual en base a la información recopilada con la intención de presentar las mejores alternativas para rehabilitar este proyecto y mantener la esencia que lo caracteriza.

APPENDIX E



PUERTO RICO DEPARTMENT OF HOUSING
CDBG-DR PROGRAM
CITY REVITALIZATION PROGRAM

LEVEL OF ENVIRONMENTAL REVIEW DETERMINATION

Subrecipient Name:	Municipality Guayama
Project Name:	"Rehabilitación Plaza De Recreo Cristobal Colón"
Project ID Number:	PR-CRP-000446
Location Lat/Long:	17.985259, -66.113578
Estimated Funding Amount:	\$ 1,750,000.00

Project Description (Include all actions which are either geographically or functionally related):

The Municipality of Guayama proposes the rehabilitation of the plaza known as Cristóbal Colón. During the passage of Hurricane María, the irrigation system of the gardens, the floor finishes of the entire plaza, the benches and its enormous and distinctive trees were affected. The fountain that is installed in its center, its chlorination system and the filters of the pumps were also affected. During the rehabilitation it is intended to relocate the existing electrical panels, repair the electrical and irrigation system of the gardens, install solar lighting, replace the floor slab finish, renovate the monuments, build access ramps in front of the historical or municipal structures, replace the wood of all the benches, paint the ornamental fences in the gardens and mend the walls. It is also considered to plant more trees in the gardens to fill the empty spaces of fallen trees and to plant grass. See attachment for more details.

I have reviewed and determined that the abovementioned project has the following Level of Environmental Review:

- ☐ Exempt Activities per 24 CFR 58.34
- ☐ Categorically Excluded Activities not Subject to 58.5 (CENST per 24 CFR 58.35(b))
- ☒ Categorically Excluded Activities Subject to 58.5 (CEST per 24 CFR 58.35(a))
- ☐ Activities Requiring an Environmental Assessment per 24 CFR 58.36



☐ **Exempt Activities per 24 CFR 58.34**

☐	58.34(a) (1). Environmental & other studies, resource identification & the development of plans & strategies;
☐	58.34(a) (2) Information and financial services;
☐	58.34(a) (3) Administrative and management activities;
☐	58.34(a) (4) Public services that will not have a physical impact or result in any physical changes, including but not limited to services concerned with employment, crime prevention, childcare, health, drug abuse, education, counseling, energy conservation and welfare or recreational needs;
☐	58.34(a) (5) Inspections and testing of properties for hazards or defects;
☐	58.34(a) (6) Purchase of insurance;
☐	58.34(a) (7) Purchase of tools;
☐	58.34(a) (8) Engineering or design costs;
☐	58.34(a) (9) Technical assistance and training;
☐	58.34(a) (10) Assistance for temporary or permanent improvements that do not alter environmental conditions and are limited to protection, repair, or restoration activities necessary only to control or arrest the effects from disasters or imminent threats to public safety including those resulting from physical deterioration;
☐	58.34(a) (11) Payment of principal and interest on loans made or obligations guaranteed by HUD;
☐	58.34(a) (12) Any of the categorical exclusions listed in §58.35(a) provided that there are no circumstances that require compliance with any other Federal laws and authorities cited in §58.5.

☐ **Categorically Excluded Activities not Subject to 58.5
(CENST per 24 CFR 58.35(b))**

☐	58.35(b).1. Tenant-based rental assistance;
☐	58.35(b) 2. Supportive services including, but not limited to, health care, housing services, permanent housing placement, day care, nutritional services, short-term payments for rent/mortgage/utility costs, and assistance in gaining access to local, State, and Federal government benefits and services;
☐	58.35(b) 3. Operating costs including maintenance, security, operation, utilities, furnishings, equipment, supplies, staff training and recruitment and other incidental costs;
☐	58.35(b) 4. Economic development activities, including but not limited to, equipment purchase, inventory financing, interest subsidy, operating expenses and similar costs not associated with construction or expansion of existing operations;
☐	58.35(b) 5. Activities to assist homebuyers to purchase existing dwelling units or dwelling units under construction, including closing costs and down payment assistance, interest buy-downs, and similar activities that result in the transfer of title.
☐	58.35(b). 6. Affordable housing pre-development costs including legal, consulting, developer and other costs related to obtaining site options, project financing, administrative costs and fees for loan commitments, zoning approvals, and other related activities which do not have a physical impact.
☐	58.35(b). 7. Approval of supplemental assistance (including insurance or guarantee) to a project previously approved under this part, if the approval is made by the same responsible entity that conducted the environmental review on the original project and re-evaluation of the environmental findings is not required under §58.47.



**☐ Categorically Excluded Activities Subject to 58.5
(CEST per 24 CFR 58.35(a))**

☒	58.35(a) (1). Acquisition, repair, improvement, reconstruction, or rehabilitation of public facilities and improvements (other than buildings) when the facilities and improvements are in place and will be retained in the same use without change in size or capacity of more than 20 percent (e.g., replacement of water or sewer lines, reconstruction of curbs and sidewalks, repaving of streets);
☐	58.35(a) (2). Special projects directed to the removal of material and architectural barriers that restrict the mobility of and accessibility to elderly and handicapped persons;
	58.35(a) (3). Rehabilitation of buildings and Improvements when the following conditions are met:
☐	58.35(a) (3) (i). <i>In the case of a building for residential use (with one to four units), the density is not increased beyond four units, the land use is not changed, and the footprint of the building is not increased in a floodplain or in a wetland;</i>
☐	58.35(a) (3) (ii). <i>In the case of multifamily residential buildings: (A) Unit density is not changed more than 20 percent; (B) The project does not involve changes in land use from residential to non-residential; and (C) The estimated cost of rehabilitation is less than 75 percent of the total estimated cost of replacement after rehabilitation.</i>
☐	58.35(a) (3) (iii). <i>In the case of non-residential structures, including commercial, industrial, and public buildings:</i> <i>(A) The facilities and improvements are in place and will not be changed in size or capacity by more than 20 percent; AND</i> <i>(B) The activity does not involve a change in land use, such as from non-residential to residential, commercial to industrial, or from one industrial use to another.</i>
☐	58.35(a) (4) (i) <i>An individual action on up to four dwelling units where there is a maximum of four units on any one site. The units can be four one-unit buildings or one four-unit building or any combination in between; or</i>
☐	58.35(a) (4) (ii) <i>An individual action on a project of five or more housing units developed on scattered sites when the sites are more than 2,000 feet apart and there are not more than four housing units on any one site.</i> 58.35(a) (iii) <i>Paragraphs (a) (4) (i) and (ii) of this section do not apply to rehabilitation of a building for residential use (with one to four units) (see paragraph (a) (3) (i) of this section).</i>
☐	58.35(a) (5). Acquisition (including leasing) or disposition of, or equity loans on an existing structure, or acquisition (including leasing) of vacant land provided that the structure or land acquired, financed, or disposed of will be retained for the same use.
☐	58.35(a) (6). Combinations of the above activities.



☐ **Activities Requiring an Environmental Assessment per 24 CFR 58.36**

I have reviewed and determined that the above-mentioned project cannot be classified as one of the following types of projects or activities:

- ☐ Exempt in accordance with 24 CFR 58.34
- ☐ Categorically Excluded Not Subject to §58.5 in accordance with 24 CFR 58.35 (b)
- ☐ Categorically Excluded Subject to §58.5 in accordance with 24 CFR 58.35 (a)
- ☐ Environmental Impact Statement in accordance with 24 CFR 58.37 (an EIS determination requires specific consultation with the PRDOH prior to authorization)

The Environmental Review must be an **Environmental Assessment**. Projects requiring preparation of an Environmental Assessment must also comply with §58.5 and §58.6. The worksheets and checklists prepared for these authorities must be incorporated into the Environmental Assessment.

Prepared by:

Obrair Vazquez Motin

Subrecipient Signature

16/05/23

Date Signed

May Bous Lopez

Environmental Consultant Signature

May 8, 2023

Date Signed

Grace Berrios Lopez

Environmental Consultant Name (printed)

Authorized by:

Steve Swick

GM Environmental Specialist Signature

5/19/2023

Date Signed

Steve Swick

GM Environmental Specialist Name (printed)

Additional Comments:

Subrecipient Name: Municipality Guayama
Project Name: "Rehabilitación Plaza de Recreo Cristóbal Colón"
Project ID Number: PR-CRP-000446
Location Lat/Long: 17.985259, -66.113578
Estimated Funding Amount: \$ 1,750,000.00

Project Description:

The Municipality of Guayama proposes the rehabilitation of the playground known as Christopher Columbus, which is located in the urban area of the town and is visited daily by tourists or residents of the area. This consists of sixteen (16) gardens that are delimited by walls and ornamental fences on its perimeter. Inside, receptacles were installed for merchants who participate in activities in the square and an irrigation system for the plants and trees that were planted in them. In addition to the gardens, the square has a fountain in its center of two (2) floors, four (4) cherubs and a pump system that allows the water inside to be kept in constant movement by trickles. Other elements that we can find in this recreational area are garbage dumps, wooden and steel benches and ornamental posts.

The square resides in an area of urban land (SNS) located between the streets Derkes, Calimano, Santiago Paler and Vicente Pales Matos of the Municipality of Guayama with a capacity of 7,150,537 square meters, according to CRIM and with cadaster number of: 420-042-103-01.

The site adjoins, to the north, with the Municipal Mayor's Office; in the South, with the Calimano Theater; on the East, with the Catholic Church and on the West, with the old structure of the Campoamor Cinema. Inside were built monuments dedicated to the soldiers of the Ohio room, veterans of the Korean War and poet Luis Pales Matos.

According to the Zoning Map, the land is located within an H4 Historic Zone. This district is established to classify existing commercial areas or to create new ones that meet the needs of various neighborhoods or residential communities, as well as commerce of intermediate intensity in the founding centers of the municipalities. The site is located within a flood zone X, according to sheet number 72000C2130J effective November 18, 2009 of FEMA's flood susceptible maps. A zone X is an area of moderate or minimal flood risk from the main source of flooding in the area. Flood risk, determined by specific methods. The topography can be considered 100% flat.

During Hurricane Maria, the entire city was affected in its residential, commercial and municipal infrastructure. Despite this some of these infrastructures are in use, but require repair due to the damage they suffered. An example of this infrastructure is the playground which is our reference project. During the atmospheric phenomenon, the irrigation system of the gardens, the completion of the floor slab of the entire square, the benches, and its huge and distinctive trees were affected. The fountain that is installed in its center was also affected. Tree branches and other objects brought by the strong winds of the phenomenon impacted the structure causing damage to the elements that compose it. Some of these elements are the figures of the cherubs, the chlorination system and the filters of the pumps. This has

caused the Municipality to hire maintenance services for this structure since it is one of the historical and cultural attractions of the Municipality.

During the rehabilitation of the square it is intended to integrate the infrastructure that we understand to be necessary for the relocation of the existing electrical panels, repair the electrical and irrigation system of the gardens, install solar spotlights, replace the completion of the floor slab, renovate the monuments, build access ramps in front of the historical or municipal structures for easy access by visitors, replace the wood of all the benches that contain the square, paint the ornamental fences of the gardens and repair the walls. It is also considered to plant more trees in the gardens to fill in the empty spaces of fallen trees and plant grass.

With the activities described above, an opportunity is proposed for merchants to want to locate in the vicinity of the project causing greater economic activity in the area. As for the community, the improvements will not affect its free daily operation after the area is rehabilitated.



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

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

Thursday, January 30, 2025

Lauren B Poche

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

SHPO-CF-12-20-24-04 PR-CRP-000446 (Guayama) - Rehabilitación Plaza de Recreo Cristobal Colón

Dear Ms. Poche,

Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation. The State Historic Preservation Officer (SHPO) is to advise and assist federal agencies and other responsible entities when identifying historic properties, assessing effects upon them, and considering alternatives to avoid or reduce the project's effects.

After a review of all the documentation provided, the PRSHPO agrees with your finding that the proposed project will have no adverse effect upon historic properties.

Please note that should the Agency discover any historic properties including archaeological findings at any point during project implementation, you should notify the SHPO immediately. If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/ SG



Cuartel de Ballajá (Tercer Piso), Calle Norzagaray, Esq. Beneficencia, Viejo San Juan, PR 00901 | PO Box 9023935, San Juan, PR 00902-3935



GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela

Executive Director

Puerto Rico State Historic Preservation Office

Cuartel de Ballajá, Third Floor

San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE

Director

Division of Environmental Permitting and Compliance

Office of Disaster Recovery

December 20, 2024

Carlos A. Rubio Cancela
State Historic Preservation Officer
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá (Tercer Piso)
San Juan, PR 00902-3935

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program
Section 106 NHPA Effect Determination Submittal for PR-CRP-000446,
Rehabilitación Plaza de Recreo Cristobal Colón, Guayama, Puerto Rico – No
Adverse Effect, Conditioned

Dear Architect Rubio Cancela,

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

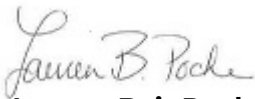
On behalf of PRDOH, HORNE is submitting documentation for the proposed Rehabilitación Plaza de Recreo Cristobal Colón project in the Guayama Traditional Urban Center, which is eligible for listing in the National Register of Historic Places. The Municipality of Guayama proposes to rehabilitate the plaza, including the removal and replacement of the plaza floor slab, improvements to the existing fountain, relocation of existing monuments, tree planting and vegetation, demolition of existing ramps and construction of new access ramps, new curb construction, and construction of walls at the electrical panel area. The project also includes the installation of an irrigation system, installation of sound and lighting systems, replacement of trash cans and refurbishing of existing

benches, and repairs to the planting walls and fence. The full scope of the project is described in the submitted documentation, which includes mapping, photographs, and the 90% design plans.

Based on the documentation provided, the Program requests a concurrence with a determination that "**No Adverse Effect**" is appropriate for this undertaking, conditioned to archaeological monitoring during all ground-disturbing activities. If this condition is deemed appropriate, an archaeological monitoring plan will be prepared and submitted to the PRSHPO for review and concurrence of the appropriateness of its implementation for this undertaking. for review and concurrence of the appropriateness of its implementation for this undertaking.

If you have any questions or concerns, please contact me by email at lauren.poche@horne.com or phone at 225-405-7676.

Kindest regards,



Lauren Bair Poche. M.A.

Architectural Historian, EHP Senior Manager
LBP/KPS

Attachments

PR-CRP-000446

**Rehabilitación Plaza de Recreo Cristobal
Colón Project**

Guayama, Puerto Rico

Section 106 Effect Determination Form

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guayama	
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón	
Project Number: PR-CRP-000446	

Project Location: Calle Vicente Palés, Barrio Pueblo, Guayama PR 00784	
Project Coordinates: Lat. 17.985198, Long. -66.113575	
TPID (Número de Catastro): 420-042-103-01-000	
Type of Undertaking: ☒ Substantial Repair ☐ New Construction	
Construction Date (AH est.): 1832 @ 1836	Property Size (acres): 1.77 acres (7,150.537 sm)

SOI-Qualified Architect/Architectural Historian: Heidi J. Dilan; edited by Imandra Martínez Castañeda assisted by Larissa García Cabrera	
Date Reviewed: 5/26/23, 7/24/23, 8/23/23, 3/18/24, 7/28/24, 9/25/24, 12/19/24	
SOI-Qualified Archaeologist: Maritza Torres Martínez edited by Imandra Martínez Castañeda assisted by Larissa García Cabrera	
Date Reviewed: 5/26/23, 7/14/23, 11/16/23, 3/30/24, 7/19/24, 9/25/24, 12/19/24	

In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the NRHP and any properties not listed that would be considered eligible for listing that are located within the geographic area of potential effects (APE) of the proposed project and assessing the potential effects of its undertakings on these historic properties.

Project Description (Undertaking)¹

The project entails a series of improvements to be carried out in the Plaza de Recreo Cristobal Colón, located in the Municipality of Guayama, Puerto Rico. The scope of work includes both demolition or reconstruction actions with the intention to enhance the overall infrastructure and aesthetics of the Plaza. The following **Images A** shows the existing conditions, **Image B** the demolition plan, and **Image C** the proposed improvements to the Plaza.

The project undertaking can be divided among the following major sections:

1. Removal and replacement of the Plaza floor slab.
2. Ramps demolition and construction of new access ramps.
3. Construction of walls at the electrical panel area.
4. Improvements to the existing fountain and relocation of the existing pump.
5. Relocation of existing monuments.
6. Tree planting and vegetation.
7. Installation of the irrigation system.
8. Installation of sound and lighting system.
9. Replacement of trash cans and refurbishing of existing benches.
10. New curb construction.

¹ According to 90% of the project plans.



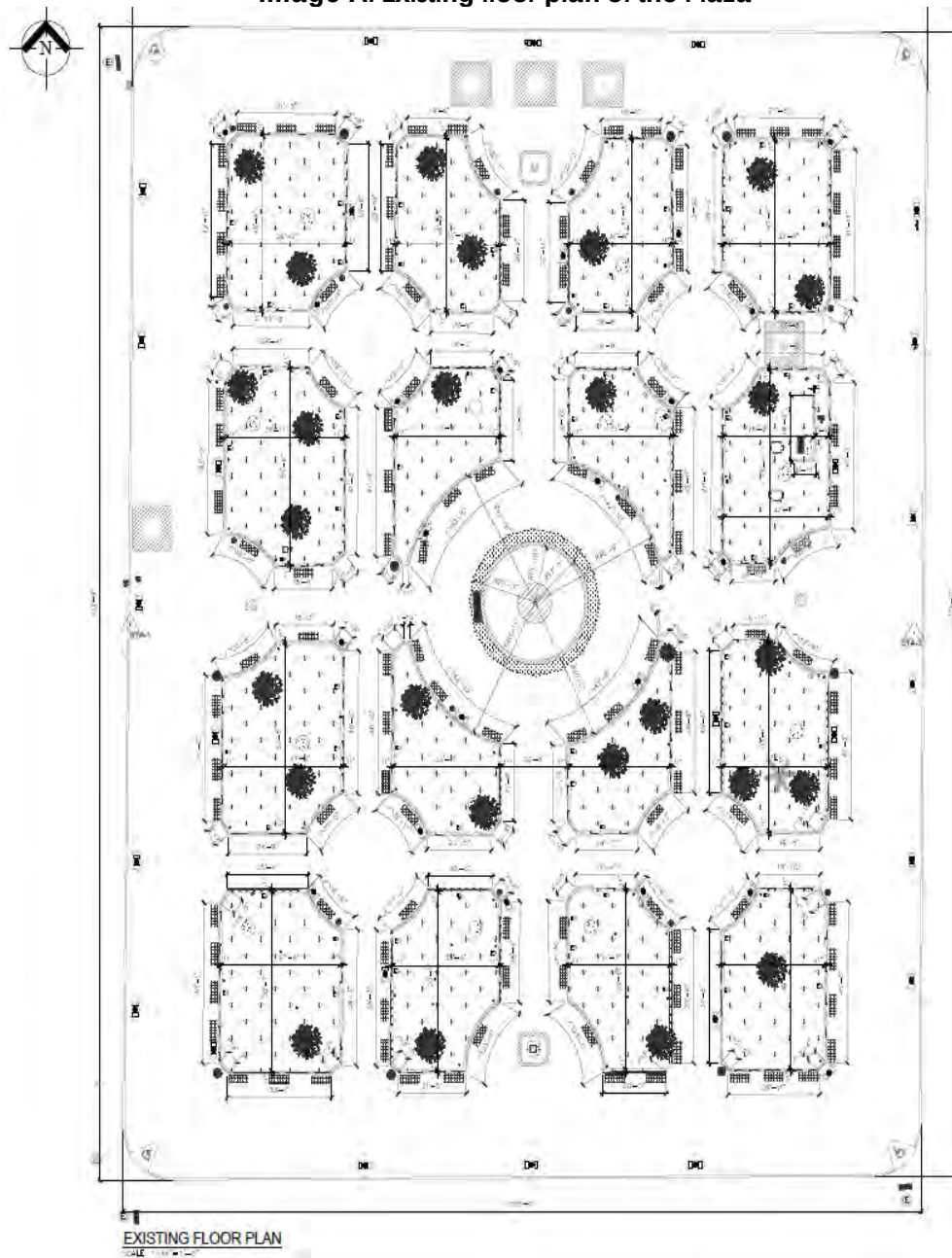
Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446

11. Planting bed walls and fence repairs.

Image A: Existing floor plan of the Plaza



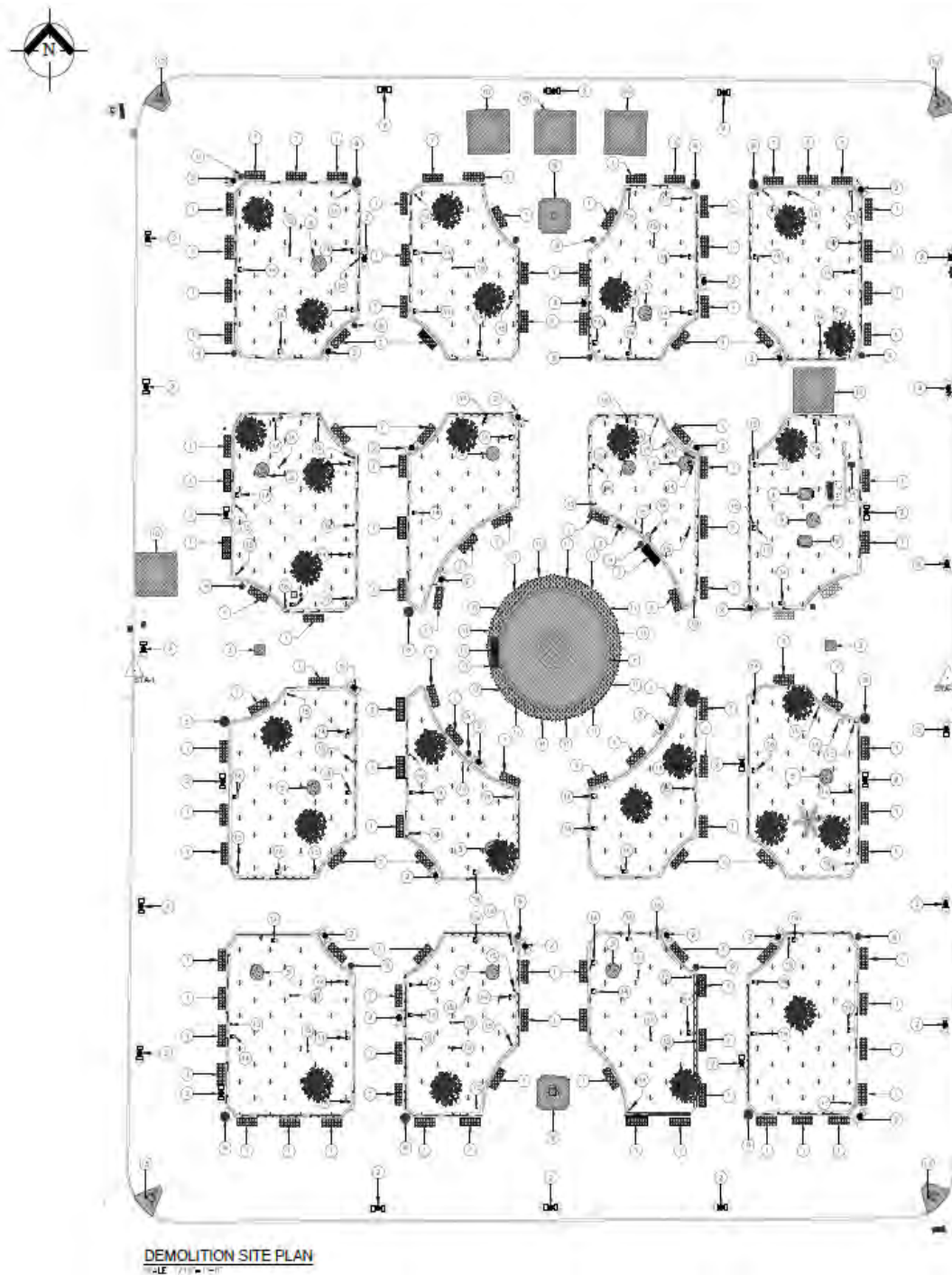


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Image B: Demolition plan.



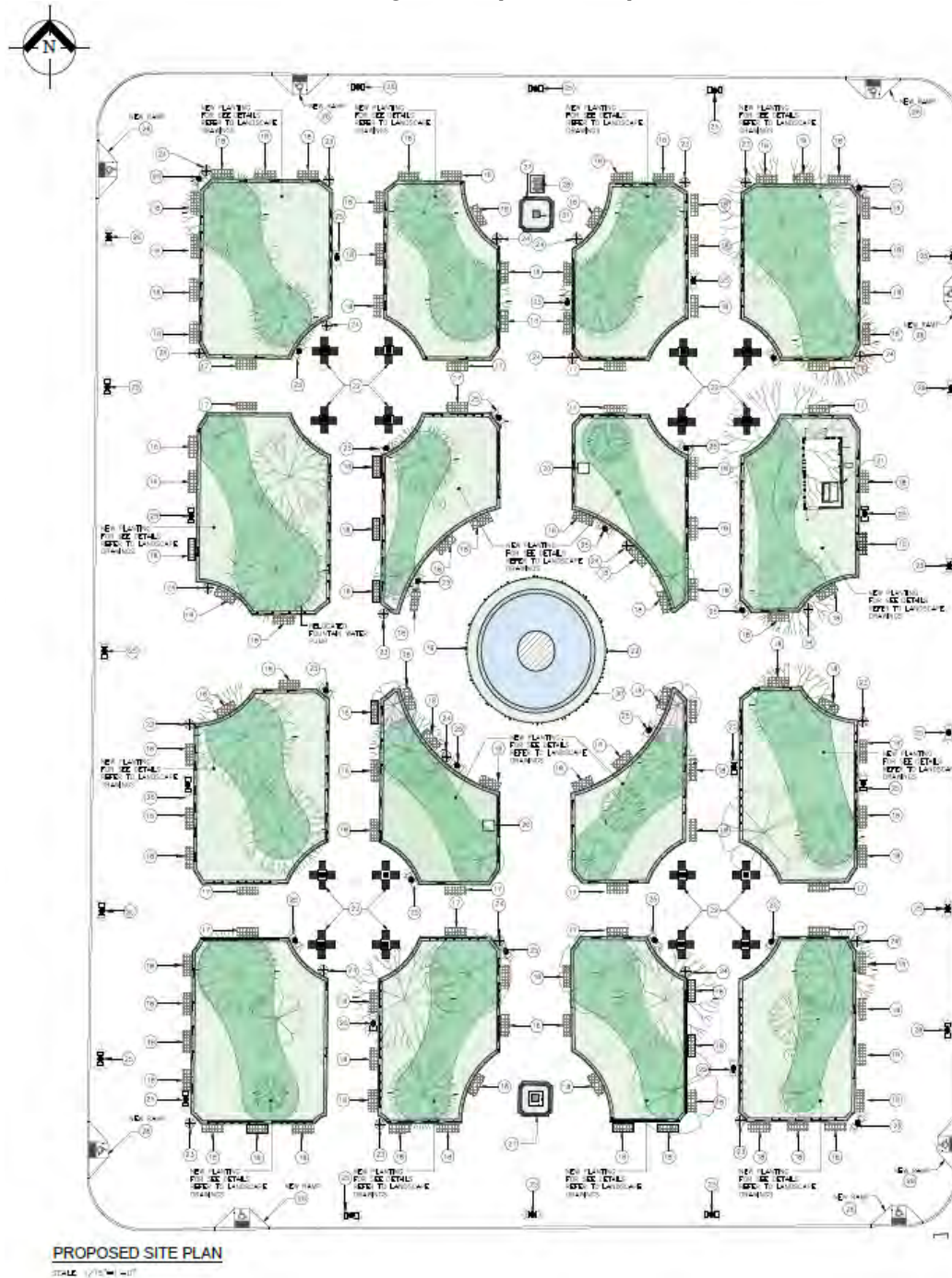


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Image C: Proposed site plan.



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1. Removal and replacement of the plaza floor slab:

All existing pavements will be demolished and removed due to cracks and spalling at control joints. Based on the square core, the existing floor finish is 1 inch thick and the floor slab underneath is approximately 9 inches thick. Therefore, it is recommended to remove only 1 inch of depth from the existing floor finish. The existing floor finish will be replaced with durable and visually appealing prefabricated tiles bearing an exposed aggregate finish, similar to the existing one, enhancing the longevity and visual appeal of the Plaza's surface. The pathways within the Plaza will undergo various improvements, including repaving or scarifying work to enhance their quality and safety. Since the existing floor is on top of an existing concrete slab, ground-disturbing activities will be kept to a minimum.

2. Ramps demolition and construction of new access ramps:

To enhance accessibility to the Plaza, the construction of new access ramps will be undertaken near historical structures and municipal areas to contribute to pedestrian crossing. These ramps will be designed to provide convenient and easy access for all visitors and comply with the ADA requirements. See **Image D** for the location of the ramps.

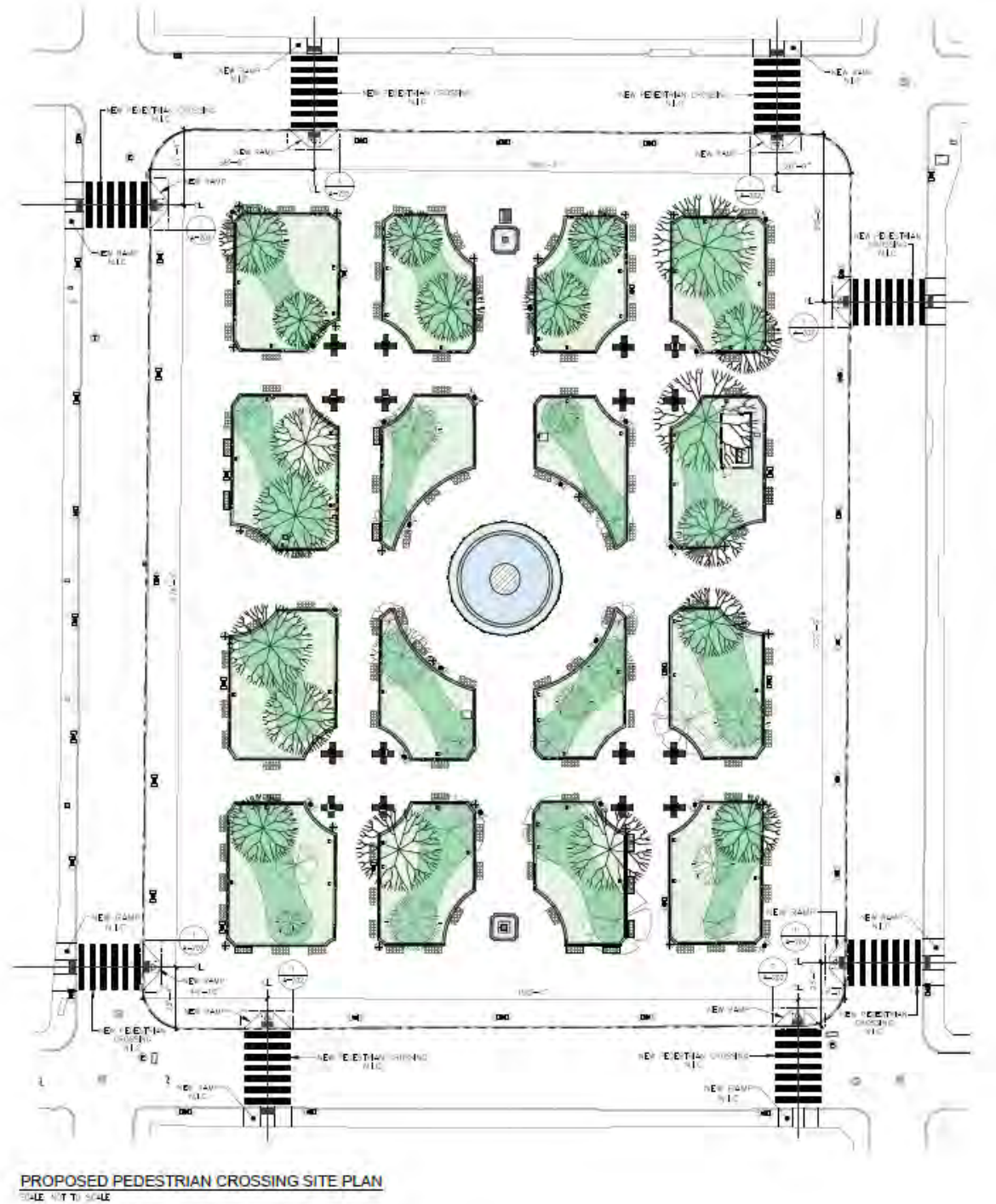


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Image D: Proposed pedestrian crossing site plan and access ramp location.





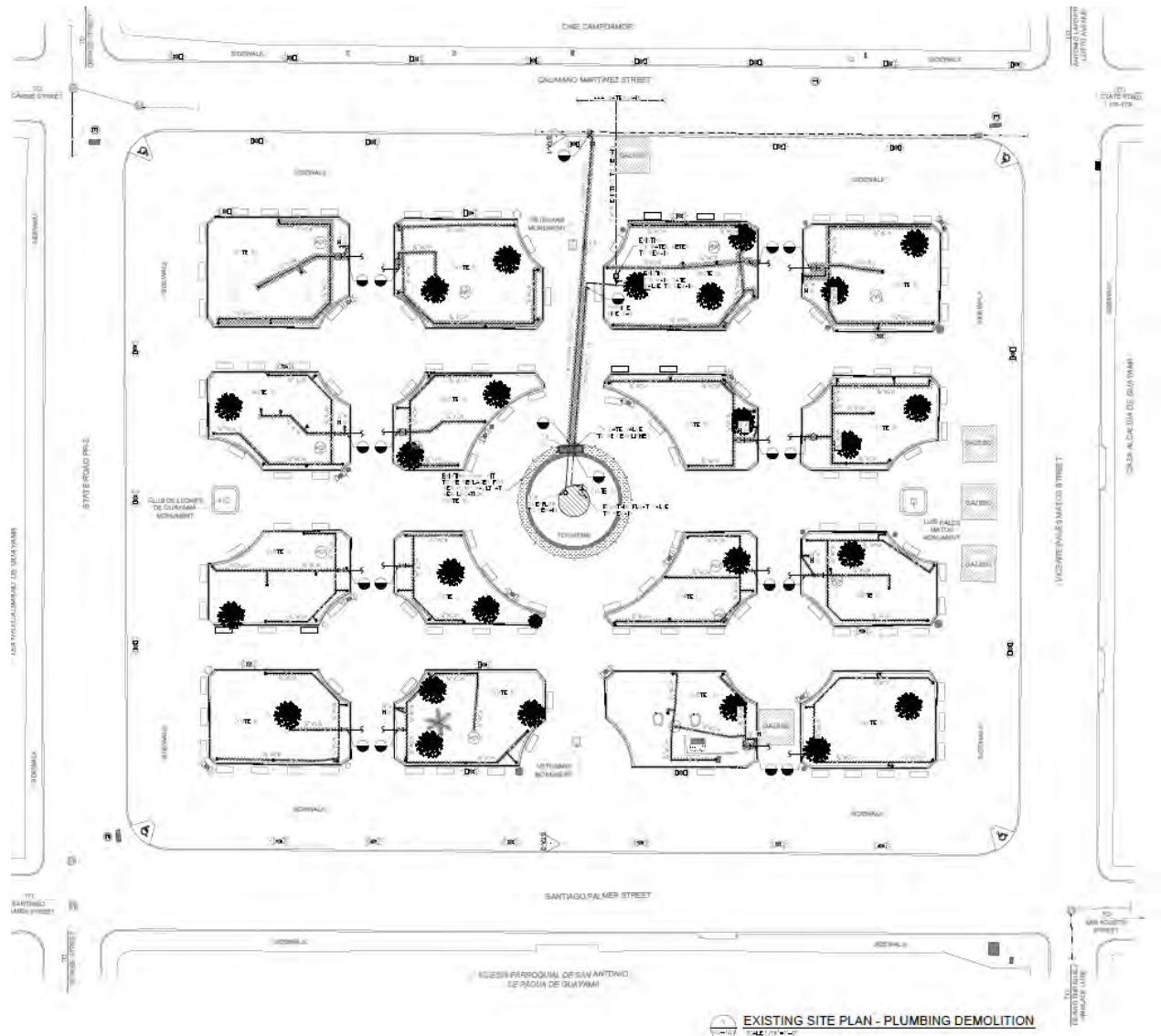
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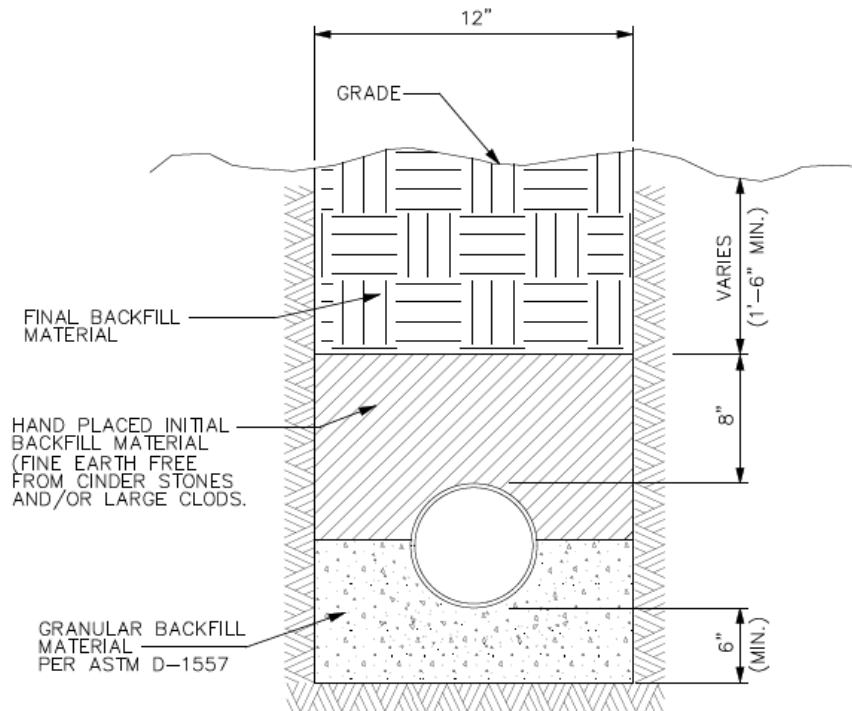
becoming a captivating centerpiece within the Plaza. **Images F and G** show details of the plumbing demolition plan and pipe excavations.

Image F: Existing site plan. Plumbing demolition.



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Image G: Section for the pipe excavation and replacement

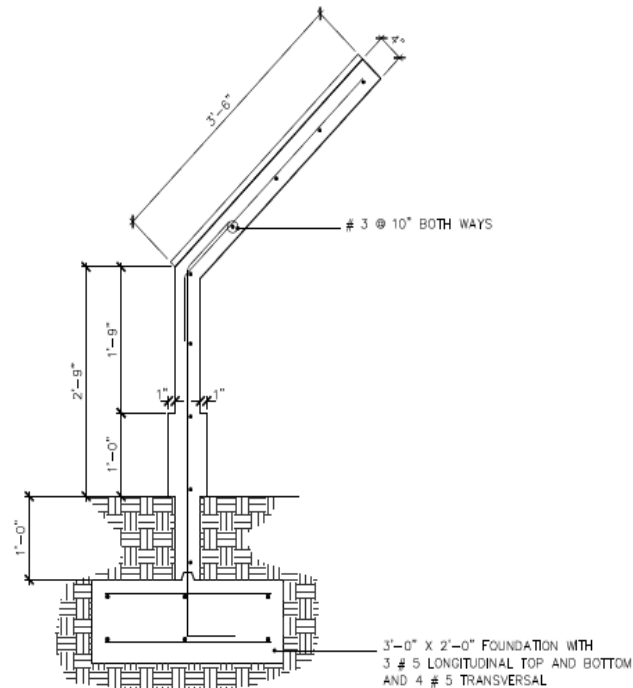


5. Relocation of existing monuments:

Monuments within the Plaza will undergo restoration and renovation to preserve their historical significance. The pedestals of two of the four monuments will be relocated. This relocation will require the construction of two new pedestals with footings approximately 3 feet deep, 3 feet long and 2 feet wide. See **Image H** for details of the monument “tarja” (base).

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Image H: Tarja concrete detail.



TARJA CONCRETE DETAIL

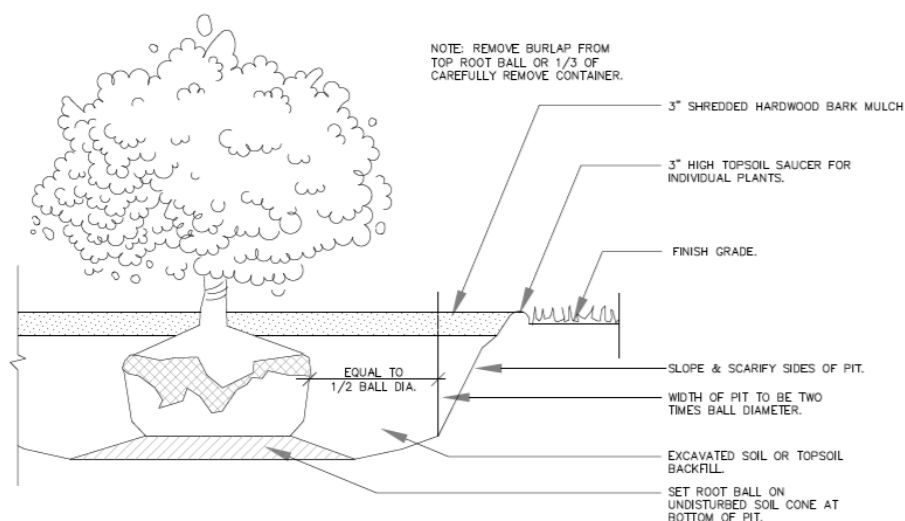
SCALE: 3/4"=1'-0"

6. Tree planting and vegetation:

A planting initiative will be implemented to improve the aesthetics and greenery of the Plaza. Additional trees will be carefully selected and planted in the planting beds, filling the empty spaces left by fallen trees and enhancing the overall beauty of the Plaza. The trees proposed to be planted will be from 8 to 10 feet tall, requiring an excavation of approximately 2 to 3 feet deep. These trees are planned to be planted in four of the planting beds closest to the fountain and in the one that is South of the Plaza. The planting beds are approximately 1 foot high, so only 2 feet of additional excavation below the existing floor finish will be required to plant the trees. See **Image I** for details.

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Image I: Tree planting details



7. Installation of the irrigation system:

The electrical and irrigation systems of the planting beds will be replaced, existing piping will be removed, and new piping will be installed with a minimum depth of 1'6" and a maximum depth of 2'6", being upgraded for improved functionality. In addition, it is proposed that all the soil from the planting beds be removed, the pipes be replaced, new topsoil, and new plants and grass. The sprinkler system and receptacles will be repaired to ensure proper irrigation and functionality.

8. Installation of sound and lighting system:

To create a vibrant ambiance and provide opportunities for events and performances, a lighting and sound system will be installed in the planting beds area. To enhance visibility, safety, and security during evening hours, a strategic installation of solar lighting will be installed throughout the Plaza. A new lighting system and sound system will be installed in the gardens.

9. Replacement of trash cans and refurbishing of existing benches:

The existing wood of the benches will be replaced with 2"x2"x6' composed wood. The metal parts will be cleaned with a wire brush, primed, and painted. The trash cans will be replaced, and new tables and chairs will be installed.

10. New curb construction:

A new curb of 2 feet wide will be built around the plaza.

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11. Planting bed walls and fence repairs:

The historical elements of the Plaza will be restored. The walls that delimit each planting bed will be repaired, and the ornamental fences on their perimeter will be repaired and then painted. Topsoil will be placed in all planting beds, and the proposed plants will be planted. Two concrete bases will be constructed with foundations 2 feet deep for the installation of two existing sinks in the project.

Other excavations for the trenches of the electrical, potable, sanitary, and sound pipes will have a maximum depth of 2 feet.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the Area of Potential Effect (APE) is the geographic area or areas within which the development may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and scope of the work, the Program has determined that the direct APE for this project is 1.77 acres (7,150.537 sm), with dimensions of approximately 98 meters in length and 75.3 meters in width. Demolition activities are limited to the footprint of the existing Plaza, surrounded by the following streets: Vicente Palés Matos to the north, Eleuterio Derkes to the south, Santiago Palmer to the east, and Calimano Martínez to the west. The direct APE of the project area is within the Guayama Traditional Urban Center, property eligible to the National Register of Historic Places under the US Department of the Interior and also designated as a historic zone by the Puerto Rico Planning Board since 1992.

The visual APE encompasses the viewshed of the proposed project, including the facades of the buildings that face the Plaza, its intersections, and the areas where new structures or elements that impact the urban landscape will be constructed and installed. The Visual APE measures approximately 350 meters in length and 323 meters in width, covering an area of about 113,050 square meters. The project can be observed from Santiago Palmer (east), Vicente Palés Matos (north), Derkés (south), and Calimano Martínez (west) Streets, approximately 20 meters away from the plaza. The visual APE comprises an urban architectural context of commercial, institutional, and residential buildings dating from approximately the late 19th century to late 20th century. In this case, buildings such as the Municipal Hall, Campoamor Theater, San Antonio de Padua church, Calimano Theater, and Casa Museo Cautiño (NRHP listed) can be distinguished. The properties vary from one to three levels. The materiality of the building structures ranges from brick to concrete, including wood and metal in some cases. The context exhibits such architectural style elements as neoclassical, traditional architecture (vernacular), neo-Romanesque, modern, and many others.

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Historic Background

“This is one of the prettiest plazas on the island, the flowers are unusually well kept and the Cathedral is considered the finest on the Island” (1899, Photogravures of picturesque Porto Rico).

The Guayama region, located on the southeastern coast of Puerto Rico, has a rich pre-Columbian history that dates back several centuries before the arrival of Europeans. According to Sued Badillo (1989, p. 20) in his work *Guayama: Notas para su historia*, this area has been inhabited since approximately 325 BC. The first inhabitants of Guayama belonged to archaic cultures characterized by a subsistence economy based on hunting, fishing, and gathering fruit. Over time, these communities evolved into more complex societies, such as the Taíno culture, which predominated on the island during European contact. The Taínos were farmers, potters, and navigators, organized into chiefdoms under the authority of a cacique. Guayama derives its name from Cacique Guayama (Sued Badillo, 1989, p. 22).

The town of Guayama was founded in 1736². In the text of Iñigo Abad y Lasierra, 1778, the author describes the city as consisting of 200 grouped houses arranged around a square, with the plaza and the church located at the center. He also describes its material composition, like that of the bohíos, as a form of adaptation to the island's climate, following the constructive traditions of the Taínos.

(...) Este Pueblo de Guayama es el primero por esta costa desde la ciudad de Puerto Rico, que tiene sus casas congregadas; y serán hasta 200, formadas en un espacio cuadro, dejando su iglesia y plaza en el centro (...) La fábrica de las casas de este pueblo, y aún de toda la isla, excepto las de la capital, está ideada con consulta de la necesidad de materiales, temperamento del clima y circunstancias del país. Son con poca diferencia como las que tenían los indios

² From its foundation until the beginning of the 19th century, Guayama's economy was focused on small fruits, tobacco, cattle, sugar cane, and coffee, among others. The sugar plantation economy proliferated in the coastal zone of the island. Guayama was one of the most significant centers of this economic sector, which peaked in the 19th century. During this period, Guayama also participated in producing coffee, tobacco, and other minor crops, although on a smaller scale (Tirado, Alexis, 2024). The presence of numerous haciendas, centrals, and colonies—primarily sugarcane plantations—highlights the historical significance of Guayama. Twenty-one haciendas have been documented as historic resources in the SHPO inventory. Some of these haciendas and sugar mills played a crucial role in sugar production, including the Guamaní sugar mill and the Machete sugar mill, both from the 20th century. Other notable haciendas, such as Hacienda Carlota, Hacienda La Tuna, and Hacienda Vives (also known as La Esperanza), date back to the 19th century. The latter hacienda is listed in the U.S. Department of the Interior's National Register of Historic Places (*Resumen Arqueológico del municipio de Guayama. Sitios Arqueológicos de Guayama. OECH*).

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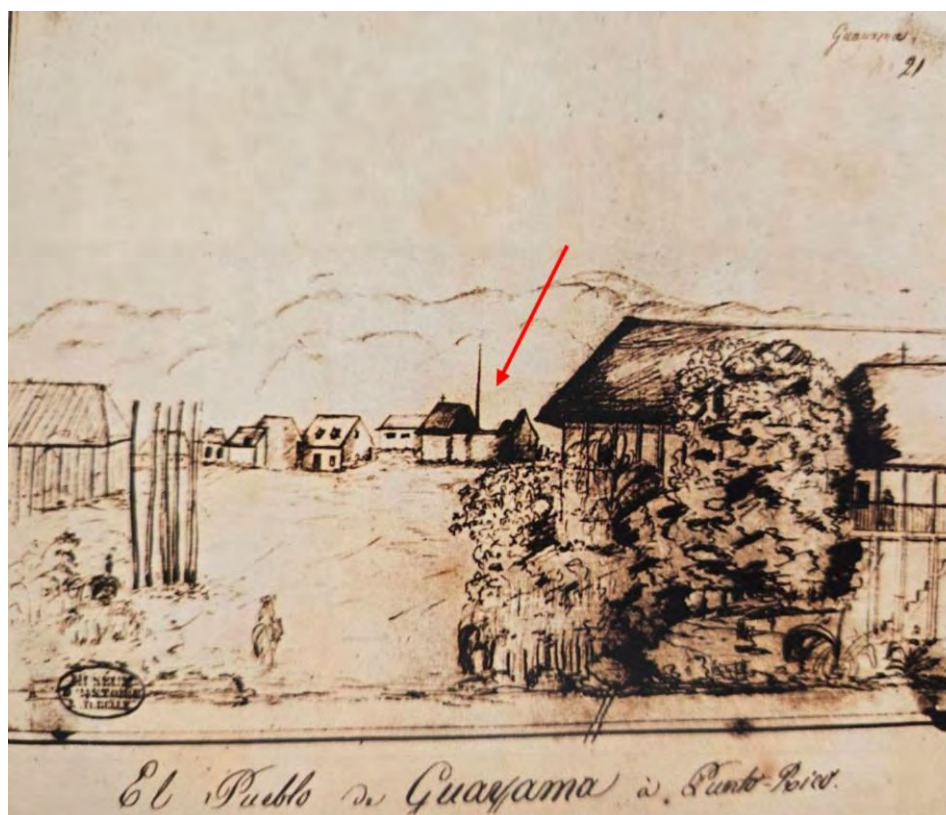
naturales de la isla, de quienes sin duda aprendieron los españoles su construcción³.

A few years later, in his work, *Memorias Geográficas, Históricas y Estadísticas de la Isla de Puerto Rico* published in 1824, Pedro Tomás de Córdoba describes Guayama as a town with significant agricultural value and notable advancements in this sector of the economy. He also emphasizes that the condition and structure of its roads were superior to those in other parts of the island. The Catholic church in Guayama was also established in 1736, and dedicated to San Antonio de Padua. The original structure underwent reconstruction between 1827 and 1873, although the temple was inaugurated this year (1873) without the northern chapel of the atrium. Between 1876 and 1899, various storms and hurricanes caused damage to elements of the building, including the rose window, lantern glass, and lead sheet roof. Around 1920, the original roof was replaced with concrete. Plee's 1821 drawing shows the church without a roof and a general overview of the composition of the village. (Figure 1). In 1840, the town featured a king's house, a town hall, a jail (all made of wood), and two schools.

³Sepúlveda Aníbal, 2004

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Figure 1. 1821. Drawing by Augusto Plee. The drawing shows the roofless church before the reconstruction of 1827. (Source: Sepúlveda Aníbal, V1, p.91).

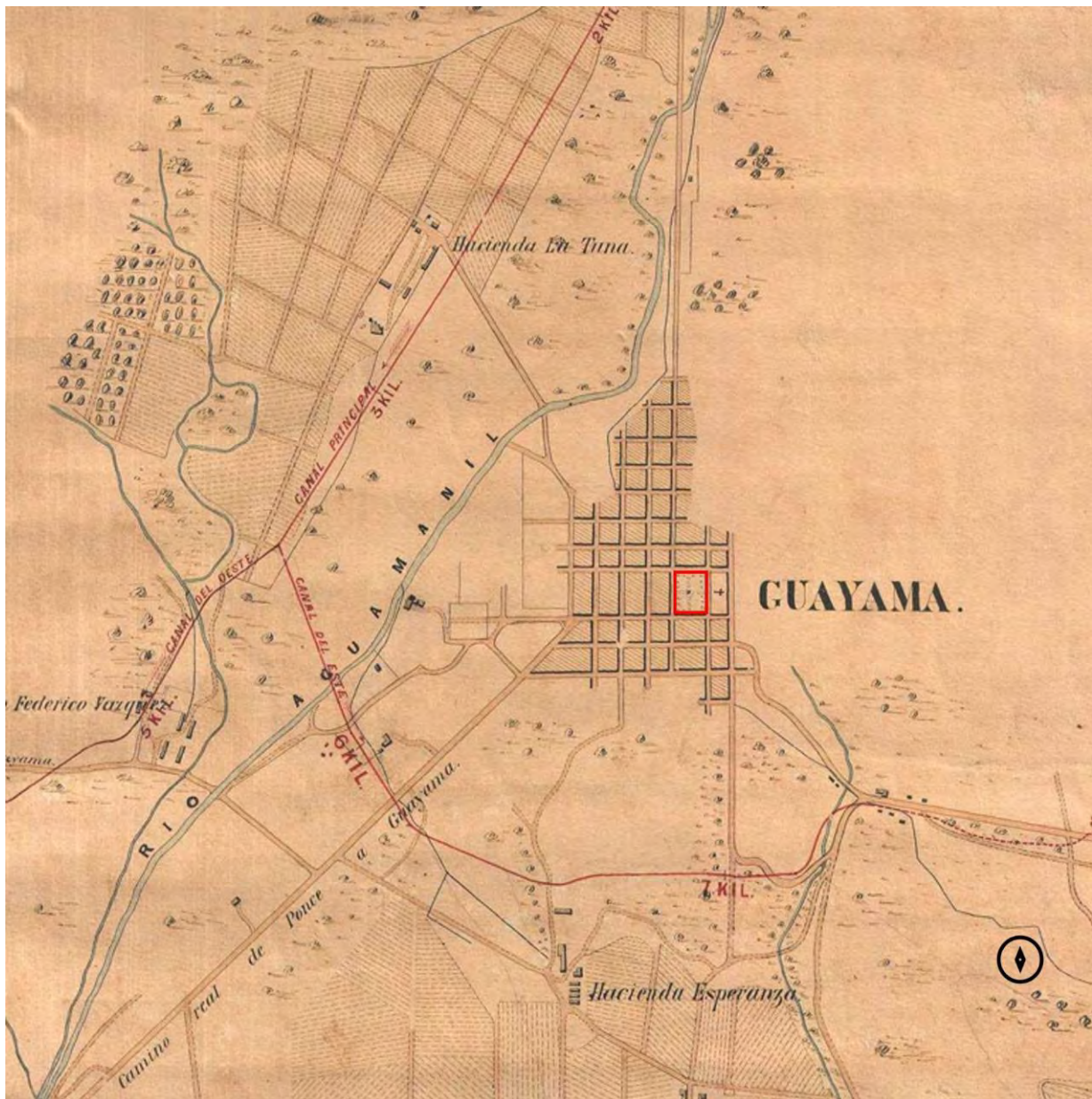


On April 11, 1832, a major fire destroyed two-thirds of the town's houses and the Hacienda de la Tuna. This event prompted a reconfiguration of the urban layout; the streets were spaced out and arranged in a linear pattern (*Calles espaciadas y tiradas a cordel*)⁴. An existing map of Guayama, created in 1865 as part of a plan for irrigation canals in the region (Figure 2), illustrates the urban grid consisting of six streets running north to south and twelve streets running east to west. The grid is bordered on the west by the Camino Real, the main road connecting Ponce to Guayama. Between 1865 and 1884, the city expanded westward. By 1884, a map of the city showed nine streets running north to south and twelve streets running east to west (Figure 3).

⁴ *Leyes de los Reynos de las Indias*, 1774.

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Figure 2. 1865. Guayama, Proyecto de Riego de Guayama hasta la hacienda Bayrie (Plan detail). Project parcel location is highlighted in red. (Source: Archivo Nacional Digital de Puerto Rico).



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Figure 3. 1884, sketch of the town of Guayama by Francisco Larrea y Liso and Manuel Moriano y Vivó. Project parcel location is highlighted in red. (Source: Aníbal Sepúlveda Rivera, Puerto Rico urbano: Atlas histórico de la ciudad puertorriqueña, Vol. 3: p. 182)



The Aguamaní River, located to the west and flowing north to south, served as a physical barrier to further development in that direction. This condition favored the use of the southeastern lands for the city's expansion, reaching more than two hundred blocks in the 1913 regulatory map (Figure 7). According to this map, although part of the blocks were not urbanized (Ejido area), it was already a city of great magnitude compared to others on the island at that time. Some of the structures or buildings identified on this map are the Aqueduct (northeast of the Plaza), Jail (northeast of the Plaza), Future Municipal Department (northwest of the Plaza), Train Station (West of the Plaza), Old hospital (Southwest of the Plaza), Municipal

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Hospital (Southwest of the Plaza), Church and City Hall (North of the Plaza), Catholic Church (East of the Plaza), Washington School (Southwest of the Plaza), Market Square (Southwest of the Plaza) and Derkes School (Southeast of the Plaza). The location of the cemetery built in 1844 (Sepúlveda, 2004, V3, p. 183. Also present on 19th-century maps) and the railroad tracks to the west of the town can also be defined (Figure 7). Although it does not appear on this map, there is evidence of the location in front of the plaza of the military barracks of the U.S. troops (Figure 7)

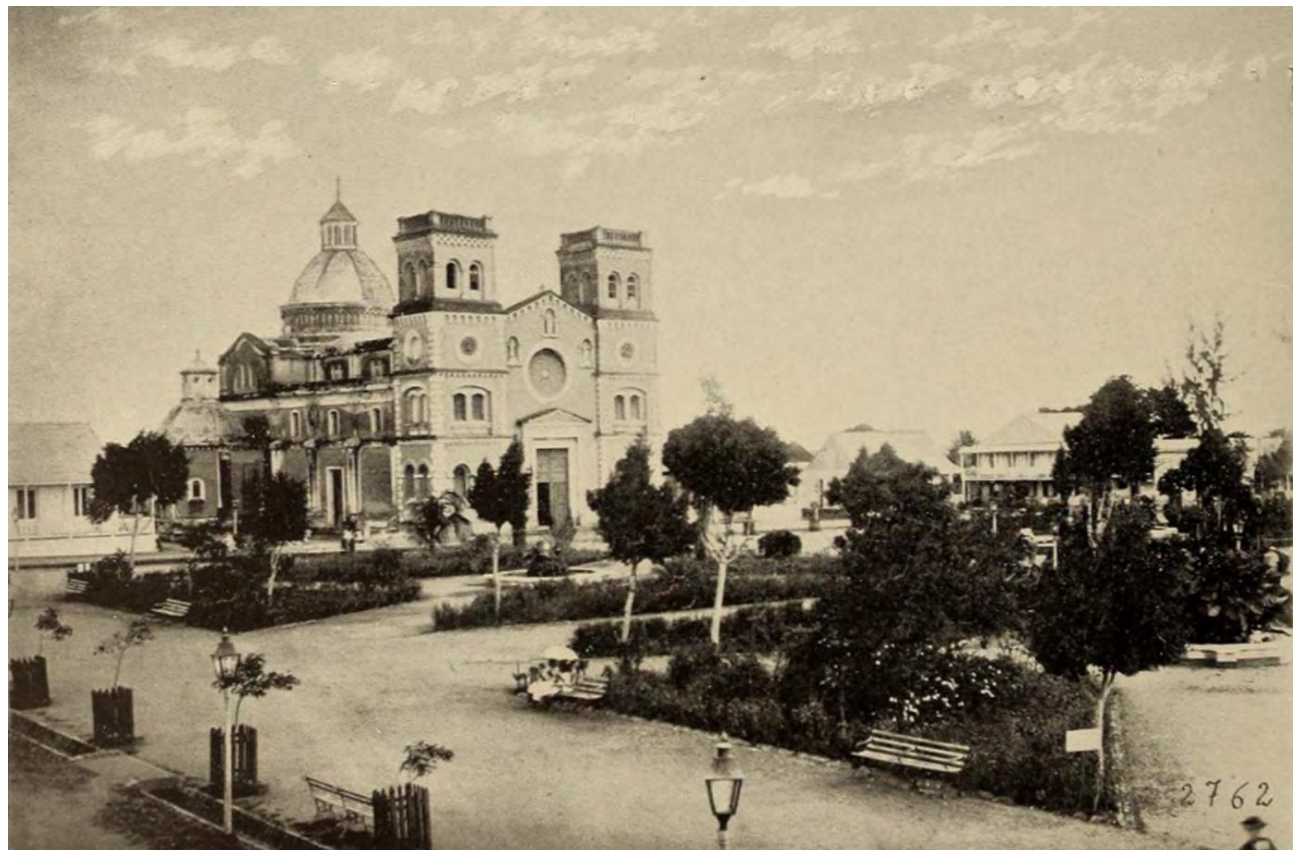
Two details stand out in the 1899, 1900, and 1910 images (Figures 4, 5, 6). First is the description of the square, which emphasizes its significance on the island: *"This is one of the prettiest plazas on the island, the flowers are unusually well kept and the Cathedral is considered the finest on the Island"*. Second is the detail regarding the drains along the edge of the square, which are constructed from bricks and feature small bridges for access into the square area. Another detail that can be observed in these historical images is the materiality of the square's floor, apparently rammed earth-leveled with the surrounding streets. At the beginning of the 20th century, maps depicted the square's parterre-shaped design organized along two main axes (north to south and east to west). An 1899, 1900, and 1910 photograph and a 1922 map (Figure 8) illustrate the triangular arrangement of the plant beds and the central fountain is further confirmed by a photograph of the plaza taken in 1910.⁵ A 1930s picture and 1940s plan present a plaza floor layout reflecting the Beaux-Arts style, which suggests that between 1922 and 1930 the square was rehabilitated. The floor of the square was replaced with concrete, and the planters were modified in both shape and quantity, resulting in 16 planters that are still preserved today. Additionally, the side drains were covered, and new elements, such as street lamps, were added to the street furniture (Figures 9-13). This period aligns with the introduction of the architectural and social principles of the City Beautiful Movement in Puerto Rico. The construction of Luis Muñoz Rivera Park in Puerta de Tierra in 1926 by the firm Bennett Parson & Frost marked the beginning of this movement's development on the island⁶.

⁵ According to A M'Mahon, Bernard, 1806 (p.67), *"A parterre, is a spacious level plot of ground, divided into many partitions, of different figures and dimensions; by means of edgings or lines of dwarf-box, &c. or by verges of grass-turf, and tracks of sand, fine gravel, shell, and scroll-work, &c"*.

⁶ United States Department of the Interior. National Register of Historic Place Registration Form. *Luis Muñoz Rivera Park*.

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Figure 4. Ca. 1899. Cathedral and Plaza of Guayama (Source: Photogravures of picturesque Porto Rico, The Library of Congress. [Photogravures of picturesque Porto Rico : Free Download, Borrow, and Streaming : Internet Archive](#))



Cathedral and Plaza, Guayama.

This is one of the prettiest plazas on the Island, the flowers are unusually well kept and the Cathedral is considered the finest on the Island.

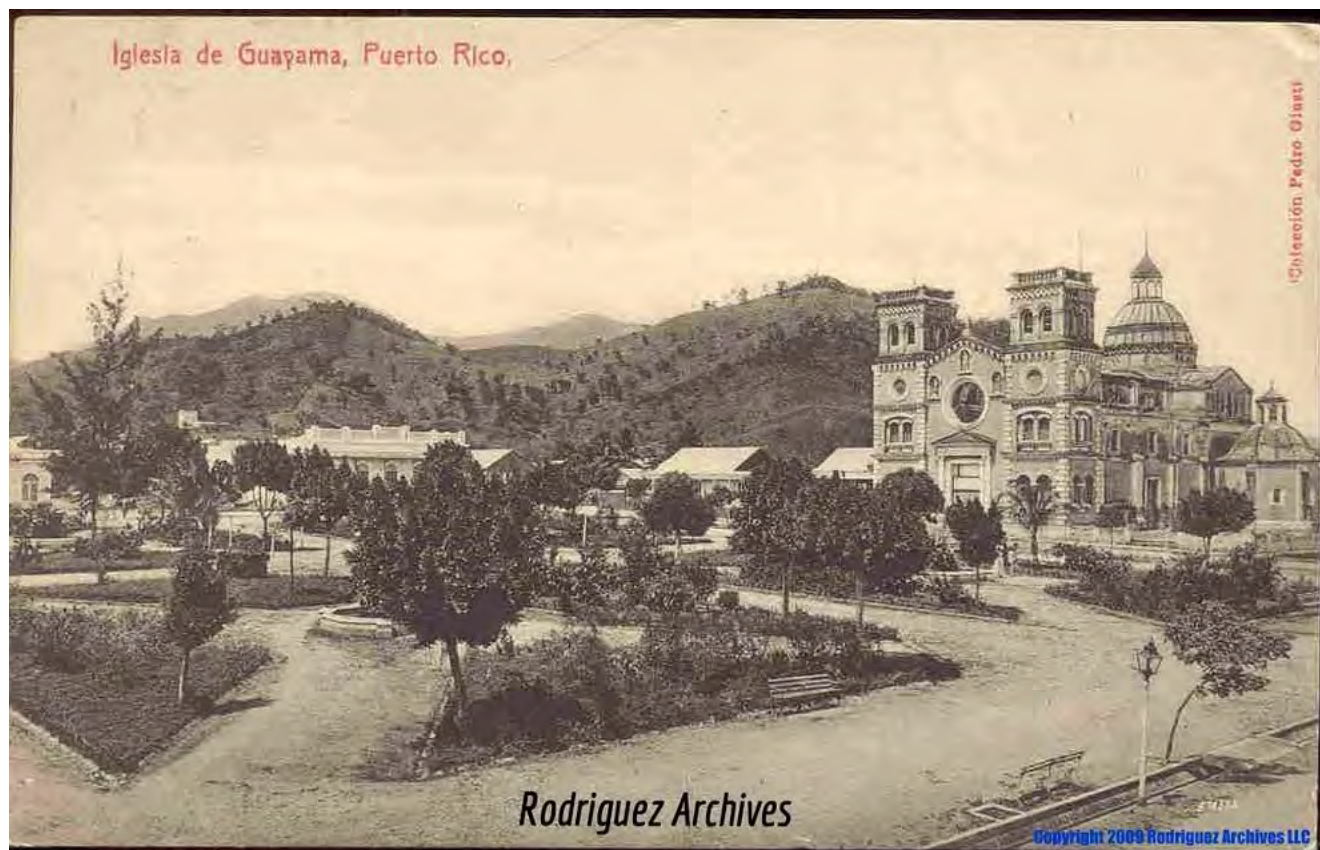
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Figure 5. Ca. 1900. The Cathedral and Public Square at Guayama, Porto Rico. (Source: Archivo histórico y fotográfico de PR)



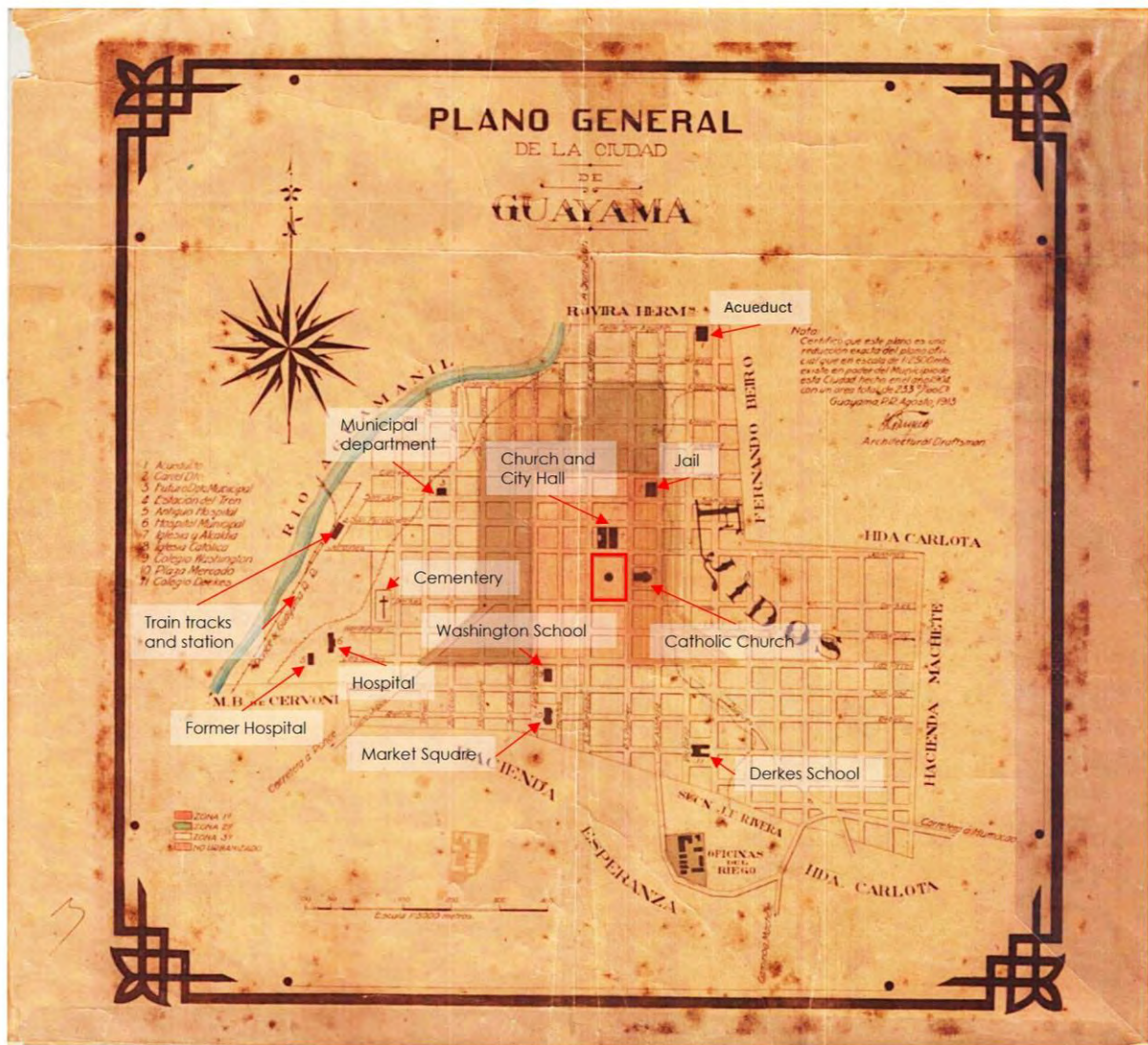
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Figure 6. 1910, Plaza de Guayama. Source: Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>.



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Figure 7. A: 1913, *Plano General de la ciudad de Guayama*. Project parcel location is highlighted in red. (Source: Archivo Nacional Digital de Puerto Rico). B: 1901. *Cuartel Militar Americano* (Source: Sepúlveda, 2004. P. 186)



A

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B

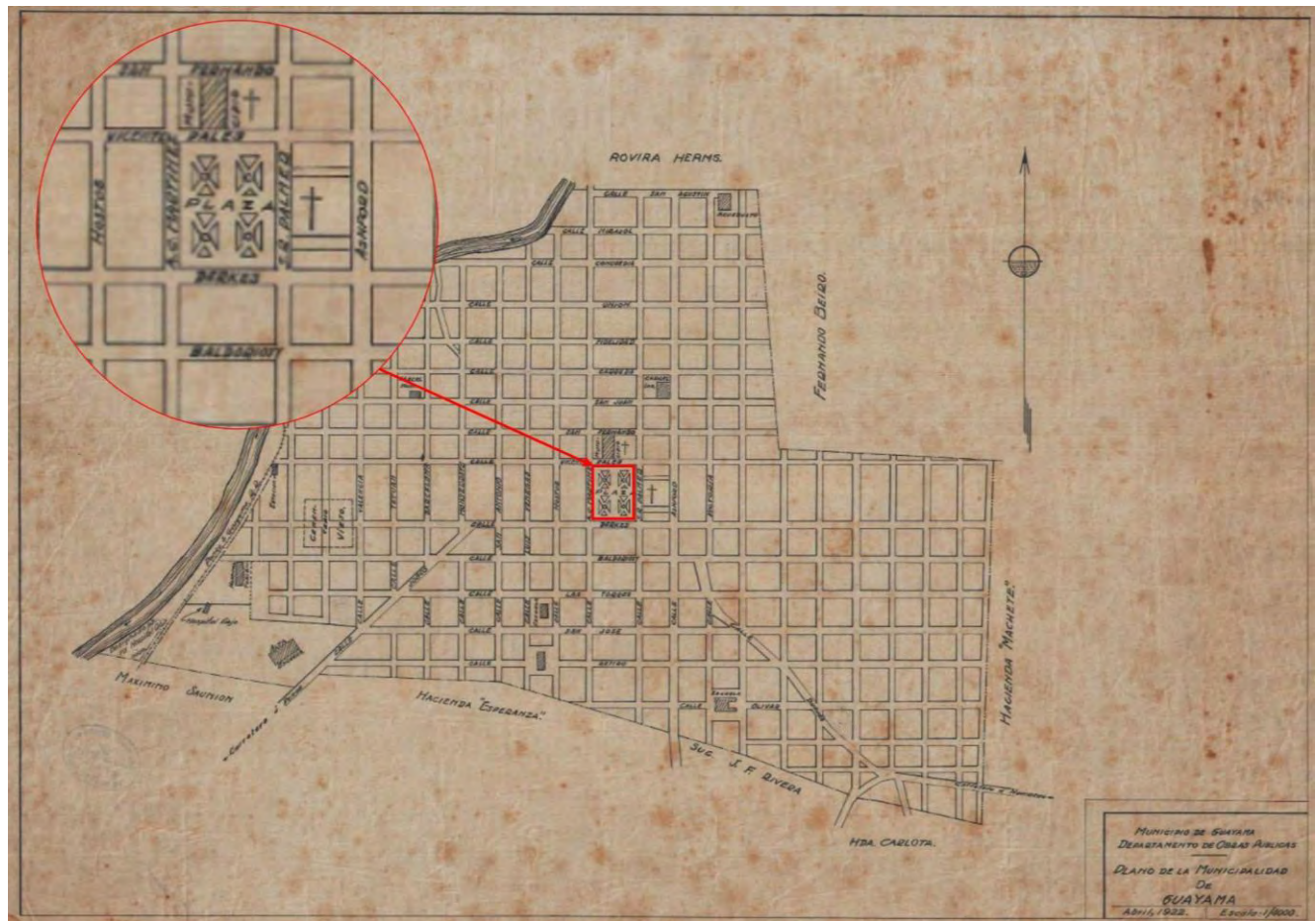


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Figure 8. 1922. Guayama Municipality, Department of Public Works. Project parcel location is highlighted in red (Source: Archivo Nacional Digital de Puerto Rico).



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Figure 9. Ca. 1930, Plaza de Guayama (Source: Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>)



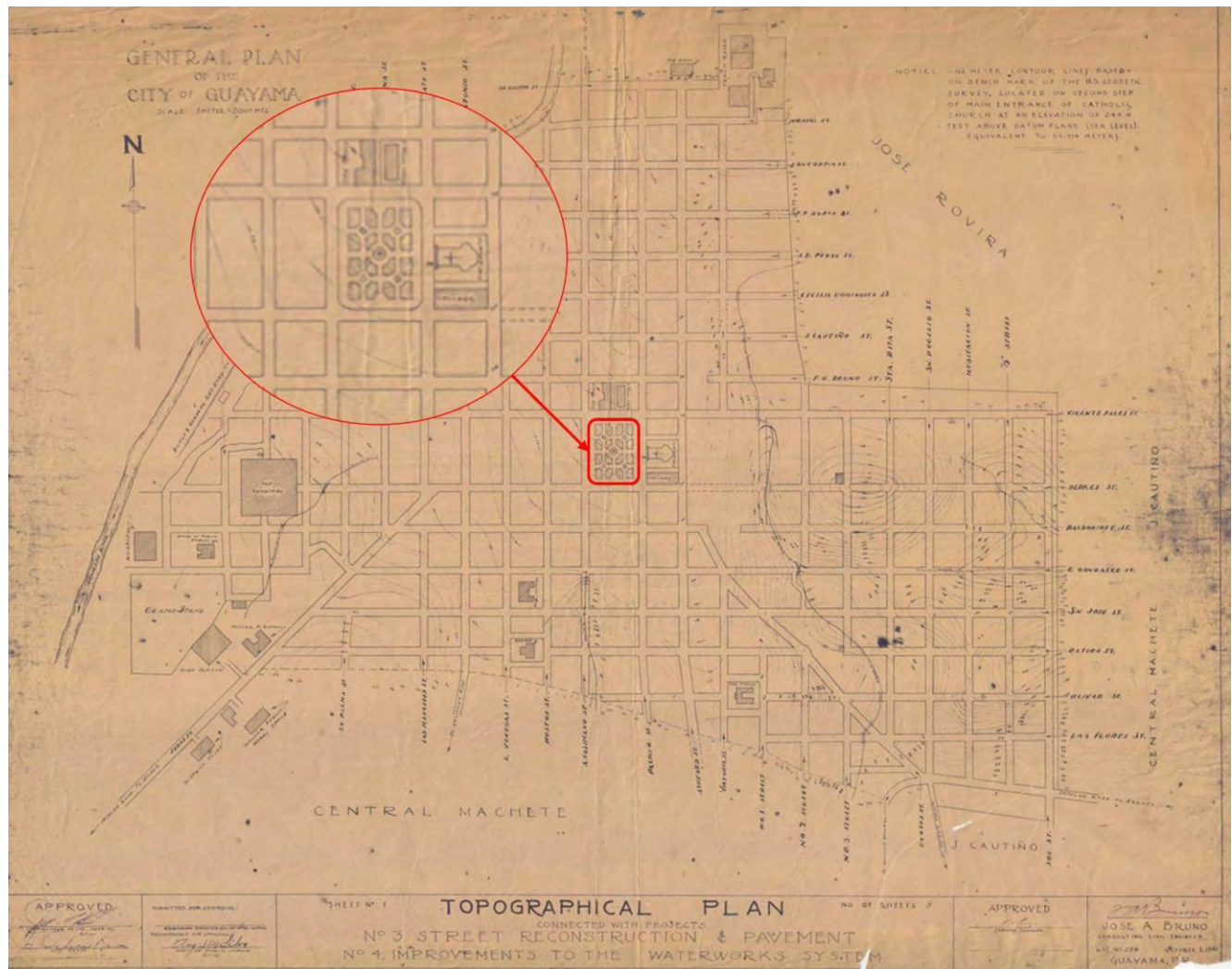


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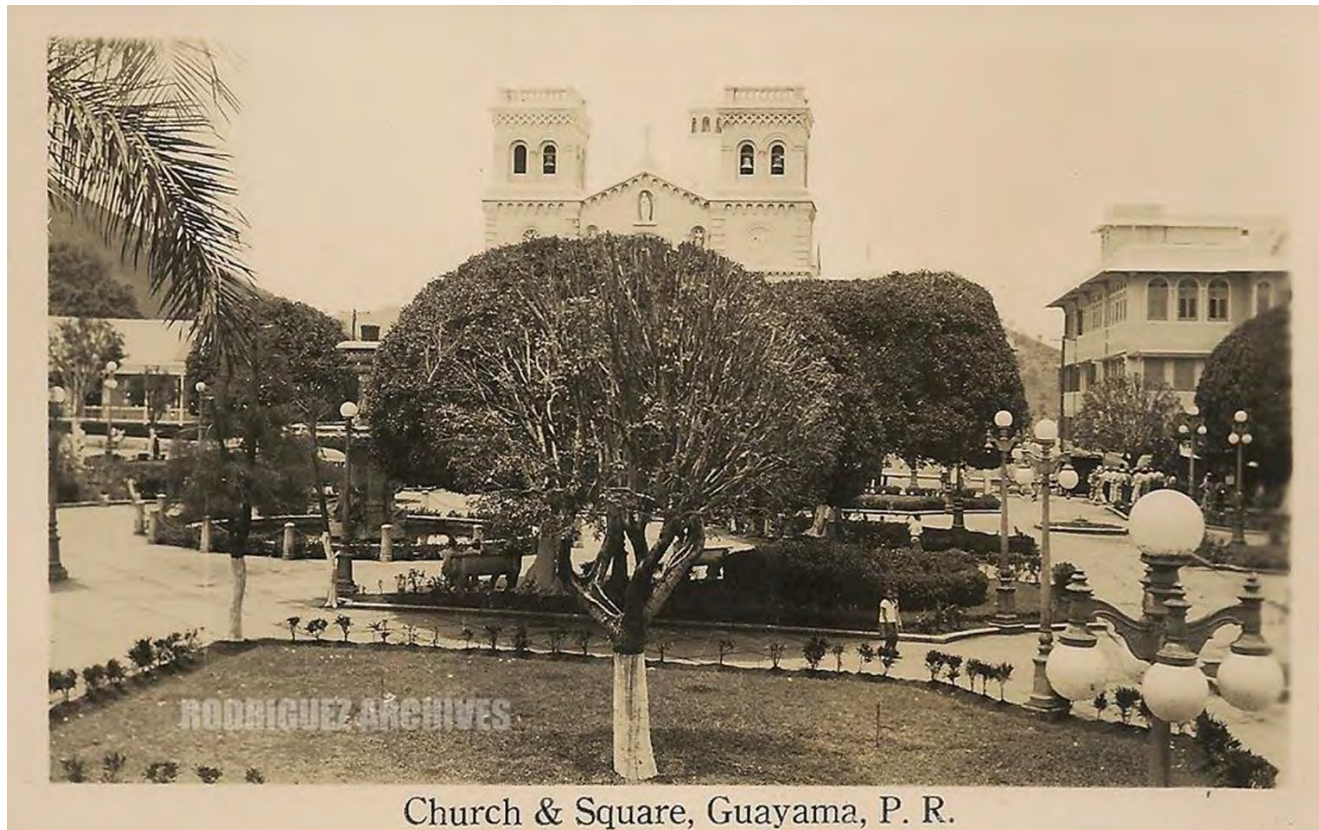
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Figure 10. 1940. General Plan of the City of Guayama. Project parcel location is highlighted in red.
(Source: Archivo Nacional Digital de Puerto Rico).



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Figure 11. Ca. 1930, Plaza de Guayama (Source: Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>)



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Figure 12. Ca. 1930, Plaza de Guayama. (Source: Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>).



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Figure 13. Ca. 1930-1940. A: Plaza de Colon showing City Hall, Guayama and buildings surrounding the Plaza. B: Detail City Hall, Guayama. C: Casa Parroquial, Guayama. D: Iglesia Metodista, Guayama. (Source: Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>).



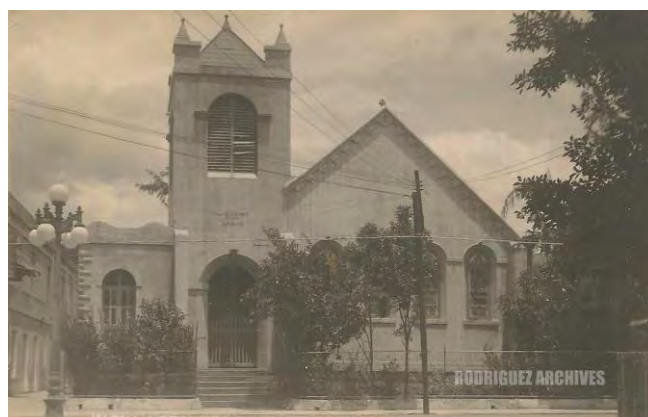
A



B



C



D

From 1930 to 1970, Guayama's urban development significantly transformed from a mainly agricultural economy centered on sugar production to an industrial one, greatly altering its urban and social structure. In the 1930s, Guayama's economy was primarily based on agriculture, especially sugar cane. However, the Great Depression had a significant impact on the local economy, leading to labor movements and an increasing recognition of the need to diversify economic activities. During this period, urban infrastructure remained largely unchanged (Figure14). The onset of World War II and the subsequent years brought notable changes. Under the Industrial Development program, the Puerto Rican government encouraged industrialization to revitalize the economy. In Guayama, this initiative led to the establishment of new industries and the expansion of urban infrastructure to support a growing

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industrial workforce. Between 1951 and 1967, significant urban development occurred to the east and south of the urban center, resulting in the creation of new industries, single-family homes, and public housing (Figures 1 and 16). Industrialization peaked in Guayama with the establishment of petrochemical complexes, such as the Phillips Petroleum Company, in 1968. This industrial growth attracted many workers, leading to increased urbanization and expansion of the city. New housing developments were constructed, and road infrastructure was improved to better connect the industrial areas to the urban center (The 1946, 1952 and 1962 historical topographic maps can be found in Other Maps section of this document, pages 68-70).

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Figure 14. 1937. East of the Guayama center. Note that the area of the Ejidos mentioned in the 1922 map continues to develop slowly in the late 1937s (Source: DTOP, Puerto Rico).



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Figure 15. 1951. Guayama Urban Center. (Source: DTOP, Puerto Rico).



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Figure 16. 1967. Guayama Urban Center. (Source: USGS Earth Explorer)



Between 1970 and 1990 Guayama's urban development continued to be shaped by the industrialization that had begun in earlier decades (Figures 17-19). However, the municipality faced economic and social challenges that impacted on its growth and urban planning. During this time, Puerto Rico experienced a slowdown in economic growth, which affected areas like Guayama. Despite having established industries, the local economy began to exhibit signs of stagnation. Additionally, this period saw a significant migration of residents to

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more developed urban areas or to the mainland United States in search of better economic opportunities. This migration adversely affected the socioeconomic development of Guayama and contributed to the rapid urban expansion that had occurred in previous decades.

The economic slowdown that began in the early 21st century has resulted in a deceleration of urban development (Figure 20), posing challenges for the planning and expansion of infrastructure, particularly in towns outside the island's metropolitan area. Furthermore, natural disasters, such as Hurricane Maria in 2017, have severely impacted the island's infrastructure and economy. Despite these difficulties, the historic center of Guayama has managed to preserve key elements of its history, which are significant to both society and the island's architectural heritage. The central plaza has maintained its architectural form since its remodeling in the early 20th century, and the historic center retains enough integrity to be recognized as an important part of the island's history).

Figure 17. 1977. Guayama Urban Center. (Source: USGS Earth Explorer)



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Figure 18. 1983. Guayama Urban Center. (Source: USGS Earth Explorer)



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Figure 19. 1994. Guayama Urban Center. (Source: Google Earth)



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Figure 20. 2017. Guayama Urban Center detail. (Source: Google Earth).



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Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area, or direct Area of Potential Effect, is the Plaza de Recreo Cristobal Colón. Moreover, the review also shows that in the Plaza there is a recorded archaeological site and the plaza itself is a historic property, eligible to the National Register of Historic Places under criterion A and C, same as the Iglesia San Antonio de Padua which is less than a quarter mile of the APE. (see table 1) Eleven archaeological surveys have been conducted, of which seven were negative for archaeological resources, and four resulted positive for cultural resources.

The project area has been studied to prevent adverse impact to cultural resources of historical and prehistoric interest. This section discusses known archaeological resources within approximately ¼ mile radius of the APE. Through investigations in the inventories of the Puerto Rico State Historic Preservation Office (PRSHPO) and *Instituto de Cultura Puertorriquena* (ICP), the potential for damage to intact, historical or archaeological sites in the APE, with potential for investigation, as well as background impacts to the project area, were analyzed. A brief description was included of the identified archaeological resources, addressing site type, cultural association, artifacts, date/period, and distance to the APE. Previous archaeological investigations conducted for those sites, relevant to the discussion, were reviewed. (Table 2) Recorded historical resources identified in the archives were identified on a map and a discussion of the archaeological potential of pre-colonial and colonial resources was included.

Guayama is located in the eastern part of the geographic region of the Southern Coastal Plain of Puerto Rico. It has numerous bodies of water of great importance, among them are: Río Guamani, Río Seco, Lago Melanía, Laguna Las Mareas, the Carite Reservoir, and the Estuario de Jobanes. This significant ecological potential, along with its mangroves, keys, and reefs, made Guayama an ideal space for the first settlers to exploit the land in search of marine resources and raw material, as shown by the exploitation patterns of the archaeological sites in Puerto Rico and the Caribbean. This characteristic makes the area appropriate for human habitation. Through archaeological data, Guayama has evidenced that human groups from pre columbian cultures have settled in its territory.

Guayama has approximately a hundred cultural resources identified in the site files of the PRSHPO and ICP. The cultural resources investigation shows that five are historic structures located within the urban center of Guayama, eligible to the NRHP. These structures fall within the quarter-mile radius of the APE, being only one archaeological site reported (GY0100012/Antiguo Cementerio), which is also located in the project site according to the SHPO inventory. Nevertheless, historic documents indicate that the old cemetery was built in

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1844 (Sepúlveda, 2004, V3, p.183), and was located west on the outskirts of the urban center, as seen in the 1884 sketch map (Figure 3).

The area of the plaza and its surroundings have had numerous interventions that have required archaeological studies in some cases. Guayama, in general, has approximately 76 archaeological studies that have been carried out for different projects. As mentioned above, and following a quarter mile radius from the APE, eleven are relevant to the analysis in this document. In 1995, archaeologist Marlene Ramos conducted a Phase IA-IB study 0.01 miles southwest of the APE for the project *Apartamentos multipisos de vivienda social*, with negative results for cultural resources. That same year, Antonio Daubón made a phase IA 0.22 miles from the APE, for the *Urb. Estancias Vigía* project, with negative results as well. Information provided by Arch. Jorge Ortiz Colom, Conservationist of the *Instituto de Cultura Puertorriquena* indicates that in the year 2000, the floor slab of the plaza was replaced; and in 2001 and 2002, during construction works on the streets adjacent to the plaza, pre contact artifacts and complete human burials were identified.

In 2003, human skeletal remains were identified during archaeological monitoring works carried out by Virginia Rivera and Harry Alemán in the excavations made with heavy machinery for the project *Mejoras al soterrado mobiliario urbano*. These findings of human remains, or complete burials were recovered under Vicente Palés Matos Street. Vicente Palés street is located north of the Plaza, between Santiago Palmer and Calimano streets. This underground construction project did not include the Plaza.

During this same project, and under the intersection of the Vicente Palés street with Santiago Palmer street, specifically in front of Casa Cautiño, a cobblestone floor was found. In addition, human remains such as teeth, molars, and a fragment of a lower jaw were identified on the south side of Vicente Palés street, adjacent to Santiago Palmer street in front of Casa Cautiño as well. The excavation trench that was made along the west side of Santiago Palmer street (that runs 36.40 meters south from Vicente Palés Street), also identified an organized combination of human bones, called an ossuary. As a consequence, the archaeologist recommended that no further underground interventions be carried out on Vicente Palés street. Additionally, a cannon was also found under Calimano street. Following the same project on August 21, 2003, a 45 linear meters of an open-air trench had been excavated along Calimano Street, and no cultural remains of colonial materials were identified. However, brick fragments were observed in the profile of the trench slab. The concrete slabs of the streets were demolished and the sidewalks widened. The street around the square was left in a single lane. No other study related to this project was received by the *Consejo de Arqueología Terrestre*, and no other reports were provided on the excavations of the other streets.

Also in 2003, archaeologist Harry Alemán made a phase IA for five different lots in the urban center. The project *8 solares vacantes para diseño de unidades de vivienda*, consisted on the construction of structures for public housing at 0.19 miles SW, 0.23 miles W, 0.13 miles NW, 0.19

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miles NW, and 0.21 miles SE of the APE. The results of this archaeological study were negative to cultural resources.

In 2010, archaeologist Sharon Meléndez conducted a Historic Preservation Fund archaeological survey, funded by the National Park Service through the PRSHPO. The objective of this survey, called *Sitios Brujos: Reconocimiento General de Sitios Arqueológicos*, was to identify and update the data of the archaeological sites registered in Guayama. Part of this survey encompasses the boundaries of the historic zone (Figure 7). In the following year, Harry Alemán carried out a phase IA for the remodeling project of Guayama's City Hall, 0.01 miles N of the APE. As a result for this study, and because the city hall is a historic structure made of stone and brick, the report led to a recommendation that the project continues under the supervision of the ICP's program, *Patrimonio Histórico Edificado*. As the last archaeological report listed for Guayama, in 2012, archaeologist Alemán made another phase IA for the project, *Remodelación de la Casa del Rey*, 0.12 miles NE of the APE. This study was made to document the historic structure, also made of brick and stone. A phase IB was recommended, but not carried out, as the agency that evaluated the project endorsed it.

Based on the data presented, of previous archaeological investigations, registered cultural resources, and the project's development history, the APE shows to have high integrity and archaeological potential. It is understood that the proposed improvements for this project, as presented, have a high probability of affecting the integrity of the historic resources, both above and below ground, especially due to the use of heavy machinery to reach the estimated depths that some tasks required. The varied depths for these works are approximate and there is a risk of impacting remains such as, but are not limited to, human bones, mortar and masonry floors; as well as other historical materials related to the daily life of the military, and civilian occupants of the colonial area.

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Table 1: Archaeological Sites

Site Name	SHPO ID # Referenced Topographic Map Image # ()	IPRC ID # Code Number	Distance of proposed Project mi=miles mts=meters	Description	NRHP National Register of Historic Properties
Iglesia San Antonio de Pádua	GY0200031	GM-6	189.7 mts	Church, HG-4	Yes
Antiguo Cementerio	GY0100012	n/a	0.00	Old cemetery	no data

Table 2: Previous Archaeological Research Reviewed

Author/ Researcher	Year	Phase/Title	SHPO/IPRC code Num.	Results	Distance/ Direction
Sharon Meléndez	2010	Sitios Brujos: Reconocimiento General de Sitios Arqueológicos.	BCAT-312	Positive Reconnaissance general study only.	0.25 mi
Marlene Ramos	1995	Fase IA-IB Apartamentos multipisos de Vivienda social	GM-95-07-08 GM-95-07-09 (2nd)	Negative	0.01 mi W
Antonio Daubón	1995	Fase 1A. Urb. Estancias Vigía	GM-95-07-06	Negative	0.22 mi NE
Virginia Rivera y Harry Alemán	2003	Fase Monitoria Soterrado, Mobiliario urbano, mejoras carreteras, aceras	GM-03-16-03 SHPO: GY0078	Positive (historic) Ossuary (human bones) Stone and brick structure. Fragments of tiles and ceramics. complete burials. No more studies.	0.01 mi N, S, E and W.
Harry Alemán	2011	Fase IA Remodelación de casa Alcaldía	GM-11-20-05	Positive Historic material Stone and brick structure. Recommended remodeling of the structure continues under the supervision of the Patrimonio	0.01 mi N

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				Histórico Edificado program.	
Harry Alemán	2012	Fase 1A Remodelación Casa del Rey	GM-12-21-03	Positive Historic material Alemán recommended a Phase 1-B study, but the agency sent a letter of endorsement.	0.12 mi NE
Harry Alemán Five studies	2003	Fase 1A. 8 solares vacantes para diseño de unidades de vivienda	GM-03-14-05-1 GM-03-14-05-2 GM-03-14-05-3 GM-03-14-05-4 GM-03-14-05-5	Negative	0.19 mi SW 0.23 mi W 0.13 mi NW 0.19 mi NW 0.21 mi SE

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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 this current 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 undertaking will take place in a contributing site (*Plaza de Recreo*) of the **Guayama Urban Center** which is **eligible as a District to the National Register of Historic Places** (NRHP) and within the locally recognized Guayama Historic Zone by Puerto Rico Planning Board (1992).

It's important to emphasize that the island's plazas de recreo (recreational squares) are essential elements in the urban history of our island cities. Beyond their architectural significance, they have historically served as centers for social and cultural life in the island's towns. The Plaza Cristobal Colón is eligible for the National Register of Historic Places under criteria A and C. Additionally, it is a contributing site to the eligible Guayama Historic District. In Puerto Rico, there exists a notable relationship between the institutional and religious buildings located at the foundational centers of the cities and those surrounding the plazas, such as the mayor's offices and churches. Guayama is not exempt from this configuration. Surrounding the *Plaza de Guayama* are significant examples of Guayama's institutional, recreational, domestic, educational, military, and religious architecture; including the Municipal Mayor's Office, the Cautiño House (Casa Cautiño), the San Antonio de Padua Church (Iglesia Parroquia de San Antonio de Padua), the Calimano Theater, the San Antonio School, the Campoamor Movie Theater, The *Cuartel General de Tropas Estadounidenses*, and the First Methodist Church of Guayama.

It is important to note that Guayama has three properties listed in the National Register of Historic Places (NRHP). Two of them (Iglesia Parroquia de San Antonio de Padua, east, and Casa Cautiño (north), are in front of the plaza. The other listed property is located 0.25 miles southeast of the plaza (Eleuterio Derkes Grammar School). These three properties are described below:

1. **Iglesia Parroquial de San Antonio de Padua de Guayama** (visual APE) at 17.985223, -66.112944 (0.04 miles East of the APE) The structure was included in the National Register of Historic Places on July 30, 1976 (NRHP number 76002248) under criteria A and C. The San Antonio de Padua Parish Church features influences from both neo-Romanesque and Carolingian styles. Constructed in 1874, the church has a cruciform layout, consisting of three naves with arcades and two semicircular chapels at the ends of the transept, which are covered by domes. A large dome prominently highlights the space above the transept⁷ (architect unknown).
2. **Casa Cautiño** (visual APE) at 17.985833, -66.113297 (0.08 miles North of the APE) The

⁷ National Register of Historic Places, Nomination Form.

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Cautiño House in Guayama was included in the National Register of Historic Places on June 11, 1984 (NRHP number 84003137) under criteria C. The church was designed by architect Texidor and was built in 1887 for Don Genaro Cautiño Vázquez. This one-story structure features an interior patio and has a floor plan shaped like the letter "C." Its architectural style blends neoclassical elements with French rococo influences. Currently, it serves as a museum.⁸

3. **Eleuterio Derkes Grammar School** at 17.981983, -66.111782 (0.25 miles Southeast of the APE) The Eleuterio Derkes School, also known as the Magueyes School, was included in the National Register of Historic Places on April 8, 1987 (NRHP number 87001312) under criteria C. The school was constructed in 1908 in Guayama. While the architect of the building remains unknown, the contractor was Antonio Higuera, who served as the head of the School Buildings Division under the Commissioner of Education during the early 20th century. The school features a C-shaped floor plan and neoclassical elements on its façade. The structure is elevated on a podium, and the main entrance is accentuated by a staircase, pilasters, and a pediment.⁹

Additionally, there are 25 NRHP-eligible properties within ¼ mile radius of the Guayama Traditional Urban Center, including the *Plaza de Recreo Cristóbal Colón* which is individually eligible to the NRHP (Table 1). The architecture of Guayama, established in 1736 and continuing to the present day, showcases an evolution shaped by various styles and historical events that influenced its urban development. This evolution includes a strong Spanish influence prior to 1898, followed by the impact of the United States after that year. The city's buildings reflect a range of architectural styles aligned with the trends of their respective periods. These styles vary from modest vernacular structures to significant institutional and religious buildings, including neo-Romanesque, neoclassical, modernist, art deco, and Romanesque, among others, which together define Guayama's architectural landscape.

As mentioned in the historical background, the fire of 1832 devastated a significant portion of the city, leading to a reconstruction that utilized more durable materials and emphasized better urban planning. During this time, notable buildings, including the Church of San Antonio de Padua, were constructed. In the 20th century, architecture experienced a diversification of styles in response to new trends. A prime example is the Cautiño House, designed by the Guayamese architect Manuel Texidor and built between 1882 and 1887. Puerto Rican architecture incorporates local stylistic and material adaptations, making it challenging to categorize buildings strictly within specific architectural styles, and Guayama exemplifies this diversity. The area surrounding Plaza Colón in Guayama features a mosaic of buildings that retain their historical significance and integrity. Among these are the City Hall, the parish house, the first Methodist church of Guayama, the Cautiño house, the Church of San Antonio de Padua, the Calimano Theater, the San Antonio School, and the old barracks of the U.S. troops.

⁸ *Ibidem.*

⁹ *Ibidem.*

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Table. 1 NRHP listed and eligible historic properties within a quarter-mile radius of APE¹⁰

Image	Coordinates	Address	Name	Date	NHRP
	17°59'06.8"N 66°06'48.8"W		Plaza de Recreo Cristóbal Colón	It features laurels from India, a fountain donated by the Cautiño family that was brought from France in 1918, several monuments a bust of Luis Palés Matos.	Eligible under criteria A, B, C and D
	17°59'06.8"N 66°06'46.6"W	#5 Ashford Street	San Antonio de Padua Church	1874. Neo Romanesque structure. It was first constructed in 1736 of masonry and wood. It was rebuilt twice in the 19th century. Designer unknown.	Listed in 1976 under criteria C.
	17°59'09.0"N 66°06'49.3"W	Vicente Palés Street	City Hall	Originally constructed in 1916 and renovated in 1920, it features elements of classical architecture and resembles Arroyo City Hall.	Eligible under criteria C

¹⁰ Some of the information presented in the table was obtained from: *Eligible properties of Guayama, SHPO*.

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	17°59'07.0"N 66°06'50.9"W	Calimano Martínez street	Cine Campoamor	1920. It has both classical and modernist elements.	Eligible under criterion A and C
	17°59'09.0"N 66°06'47.9"W	#1 Santiago Palmer street corner Vicente Palés street	Casa Cautiño	In 1887, architect Texidor designed a building that blended Neo- classical style with the popular architecture of southern Puerto Rico at that time, combining European mannerism with elements reminiscent of Art Nouveau.	Listed in 1984 under criteria C.
	17°59'09.3"N 66°06'48.5"W	#4 Vicente Palés Street	Methodist Church	Ca. 1902. It has a neo- romantic language, with a gabled roof and a lateral tower.	Eligible under criteria C.

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	17°59'04.9"N 66°06'48.2"W	Derkes street	Calimano Theater/Guayama Theater	ca. 1938. Art Deco.	Eligible under criteria A and C.
	17°59'05.7"N 66°06'46.3"W	Santiago Palmer street	Colegio San Antonio	1933. It has a modernist language with large eaves on corbels.	Eligible under criterion A and C.
	17°59'07.7"N 66°06'42.3"W	Vicente Palés street	Colegio San Antonio II	1947. Art Deco.	Eligible under criteria C.

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	17°59'06.4"N 66°06'44.6"W	Ashford street	Casa Parroquial	ca. 1930-1946. It has elements of Spanish historicism with balconies on 3 facades.	Eligible under criteria C.
	17°58'55.1"N 66°06'42.4"W	José María Anguelí street	Eleuterio Derkes School	1908. One story C-shaped structure with neo-classical elements.	Listed in 1987 under criteria C.
	17°59'12.8"N 66°06'45.8"W	Ashford street	Cárcel y Casa del Rey	Ca. 1879. One-story building with neoclassical elements	Eligible under criterion A and C.

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	17°59'09.1"N 66°06'50.7"W	Calimano Martínez Street corner Vicente Palés Street	Cuartel General de Tropas Estadounidenses	Ca. 19th century. It seems to have been altered	Eligible under criteria A and C.
	17°59'11.3"N 66°06'51.8"W		Tomás Cano & Co.	1854/1910. Commercial use. Composed of 3 naves. It has modernist language with classical elements. In one of the lateral naves it reads "Nieves Construction Corp.".	Eligible under criteria C.
	17°59'07.6"N 66°06'50.7"W	Calimano Martínez street	CAP Building	ca. 1927. It has neo-Mannerist language, with Corinthian pilasters.	Eligible under criteria C.

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	17°59'6.15"N 66° 6'50.88"W "W	Calimano Martínez street	Building left to Campoamor Cinema Building A in map	1916. It has a neoclassical language, with cornices and a continuous balcony.	Eligible under criteria C.
	17°59'04.6"N 66°06'45.6"W	Ashford street corner Derkes street	Pabellón de la Fama del Deporte Guayamés	ca. XIX-XX century. Vernacular house in wood. It has a gable roof and preserves elements such as vents on lateral sales.	Eligible under criteria C.
	17°59'03.4"N 66°06'49.3"W	Baldorioty street	Bernardini Teather	ca. 1913. Seems to be altered	Eligible under criteria A and C.

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	17°59'02.8"N 66°06'49.4"W	#8 Baldorioty street	Structure at #8 Baldorioty Street Building B on Map	Ca. 1920. Vernacular house with gable roof. It preserves original mosaics in columns of the balcony and frieze.	Eligible under criteria C.
	17°59'02.5"N 66°06'46.8"W	Palmer street corner Baldorioty street	Former Fire Station	Date not defined. The language is Hispano- Arabic with chamfered corner of alfiz and tower with lobed arches.	Eligible under criteria C.
	17°59'02.8"N 66°06'45.0"W	Ashford street corner Duque street	Luis Palés Matos residency	Ca. 1910. Vernacular wooden house with Victorian influenced composition.	Eligible under criteria B and C

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	17°59'00.6"N 66°06'46.0"W	Ashford street corner Enrique street	Police Station	ca. 1937. The building has elements of Spanish historicism and Mission style.	Eligible under criteria C.
	17°59'00.1"N 66°06'53.4"W	Hostos street	George Washington School I	ca. 1901. It has modernist language with "secession" elements. The original building seems to have had a gable roof. On the parapet it says that it was enlarged and renovated in 1914.	Eligible under criteria A and C.
	17°58'57.2"N 66°06'53.4"W	Hostos street	George Washington School II	The original plan was "L" shaped, then it was enlarged to a "C" shape between 1946-1952. It has a modernist language	Eligible under criteria A and C.

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	17°59'08.9"N 66°06'45.7"W	Ashford street corner Vicente Palés street	Dominguez Family Residency	ca. 1900. Vernacular house with classical elements such as Doric columns on a continuous and cushioned balcony. It is attributed to engineer José Antonio Bruno [Dominguez].	Eligible under criteria C.
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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 HOUSING
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Determination

The following historical properties have been identified within the Area of Potential Effect:

Direct Effect:

- o Plaza de Recreo Cristóbal Colón

Indirect/Visual Effect:

- o Guayama Urban Center
- o Casa Cautiño
- o San Antonio de Padua Church
- o City Hall
- o Colegio San Antonio
- o Tetro Calimano
- o CAP Building
- o Cine Campoamor
- o Building in the Calimano Martínez street, adjacent to the CAP building
- o Methodist Church
- o Casa Parroquial
- o Headquarters of US Troops

Based on the results of our historic property identification efforts, the Program has determined that project actions **will not adversely affect** the historic properties within the Area of Potential Effect specifically the *Plaza Cristobal Colón*. The proposed architectural elements will not alter the plaza's historical integrity or the landmark visual relationship between the built environment of the square or the Guayama eligible Historic District. In addition, key features of the *Plaza* that have been preserved since the early 20th century, including the 16 planters, the fountain, and the overall spatial design, will remain unchanged during this intervention.

However, the probability of finding intact historic materials buried beneath the plaza is high. The layers of earlier materials that may be disturbed by the proposed scope of work may provide significant data regarding the past uses of the public plaza and life in general in the sociocultural, political, and civic center of Guayama. Structural elements, mortar and masonry floors, remains of artifacts related to the civilian and military use of the plaza, human bones, as well as other historical materials may be found during excavations. Therefore, the presence of an SOI-qualified archaeological monitor is recommended during ground disturbance activities.

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

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

☐ No Historic Properties Affected

☒ No Adverse Effect

Condition (if applicable): **Archaeological Monitoring** during all demolitions, excavations, and ground-disturbing activities. Archaeological Monitoring. Given the historic context of the project area within the Guayama Traditional Urban Center, the presence of an SOI-Qualified Archaeological Monitor is recommended during the ground-disturbing activities.

☐ Adverse Effect

Proposed Resolution (if applicable)

This Section is to be Completed by SHPO Staff Only

The Puerto Rico State Historic Preservation Office has reviewed the above information and:	
☐ Concurs with the information provided. ☐ Does not concur with the information provided.	
Comments:	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:



Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446

Project (Parcel) Location - Aerial Map.



Description: Map showing in red the location of the APE of the proposed project at *Plaza de Recreo Cristóbal Colón* in Guayama, Puerto Rico. (Source: Puerto Rico Planning Board Office. <https://gis.jp.pr.gov/mipr/>)

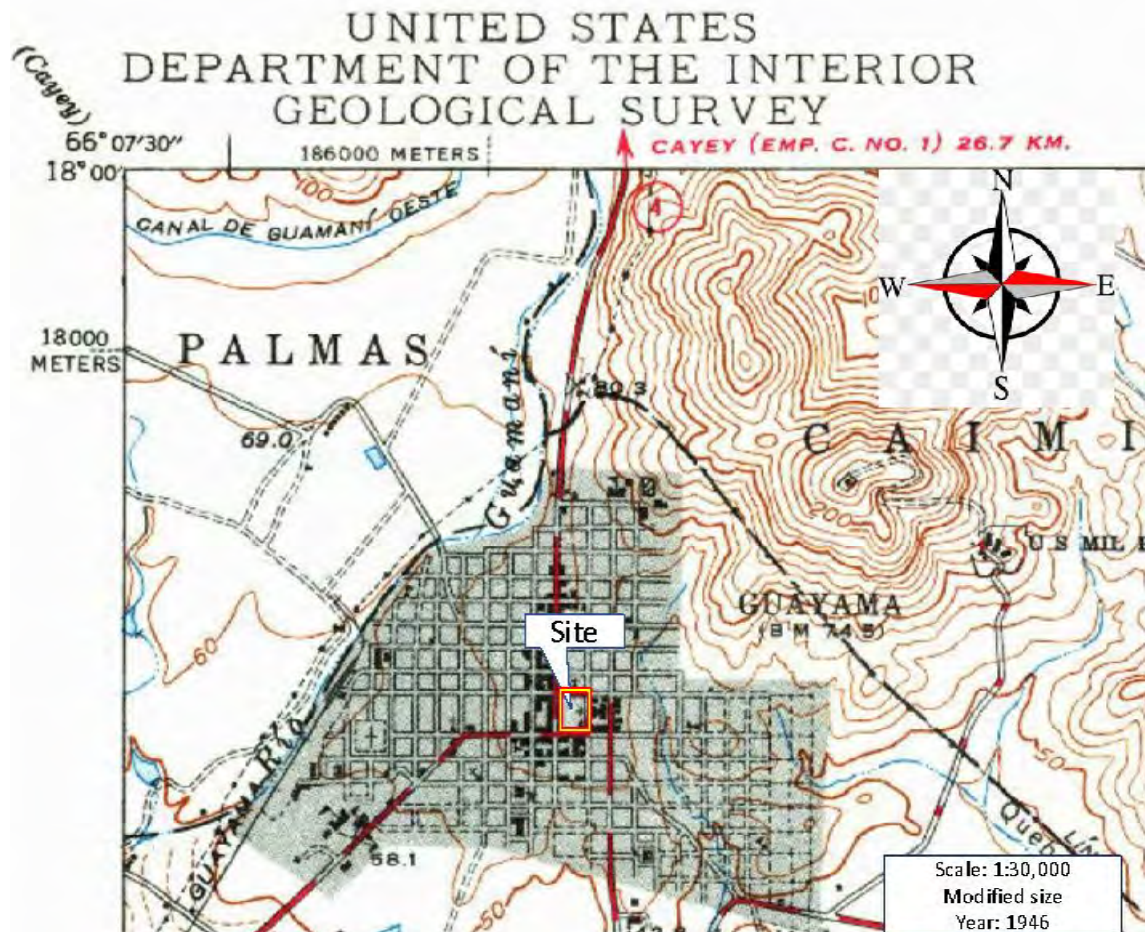


Subrecipient: Municipality of Guayama

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Project Number: PR-CRP-000446

Project (Parcel) Location – Topographic map.



1946 USGS topographic map showing the location of the APE of the proposed project at Plaza de Recreo Cristóbal Colón in Guayama, Puerto Rico. Scale 1:30,000 modified (Source: USGS Topographic map)

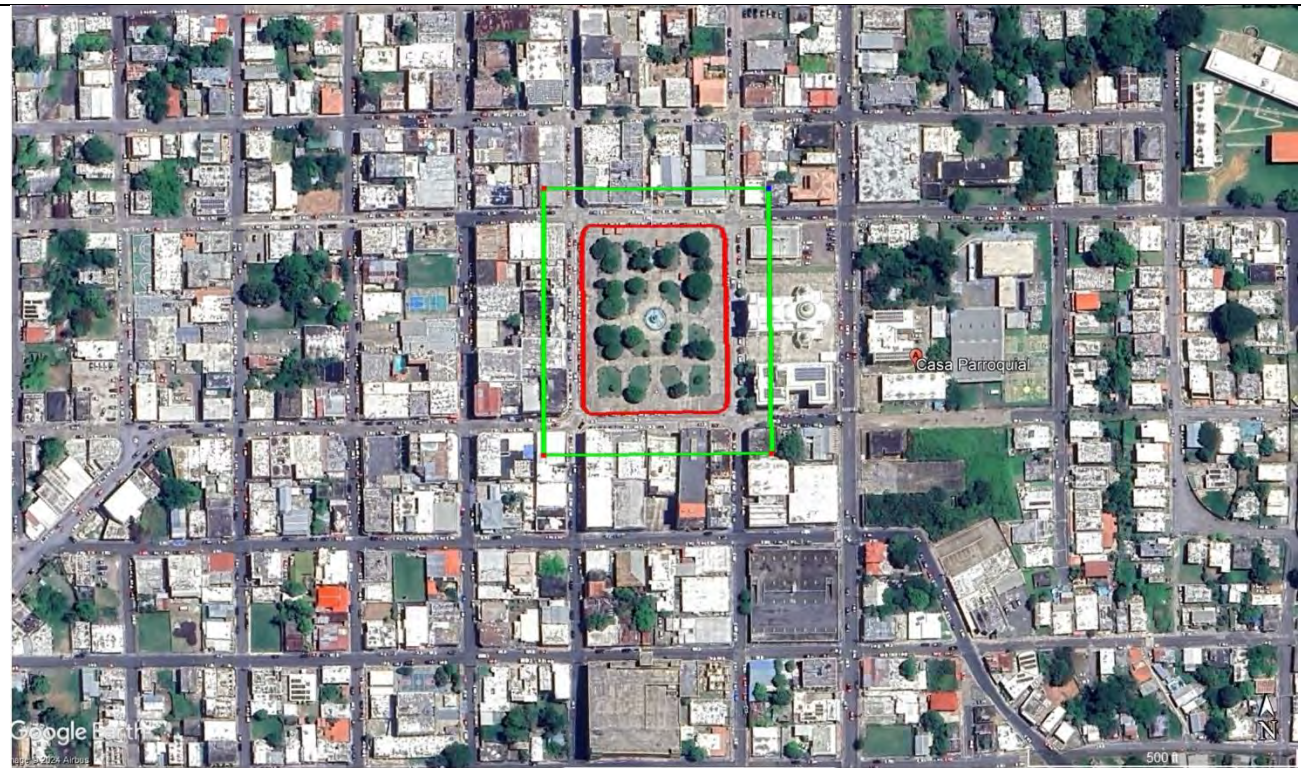


Subrecipient: Municipality of Guayama

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Area of Potential Effect Map- Aerial Map



 Direct APE  Visual APE

Source: Google earth

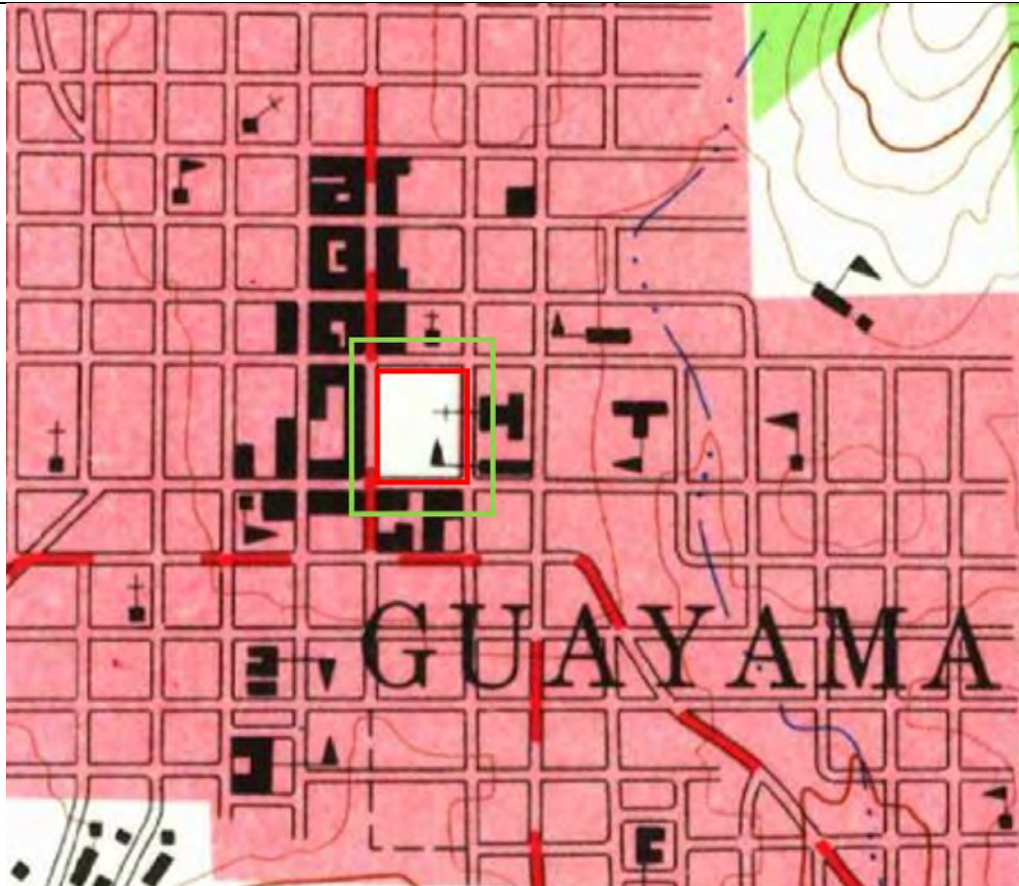


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

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Area of Potential Effect Map – Topographic Map



 Direct APE  Visual APE

1960, USGS Topographic Map. Escala 1:20000 (Source: Historical Topo Map Explores, <https://livingatlas.arcgis.com/>).

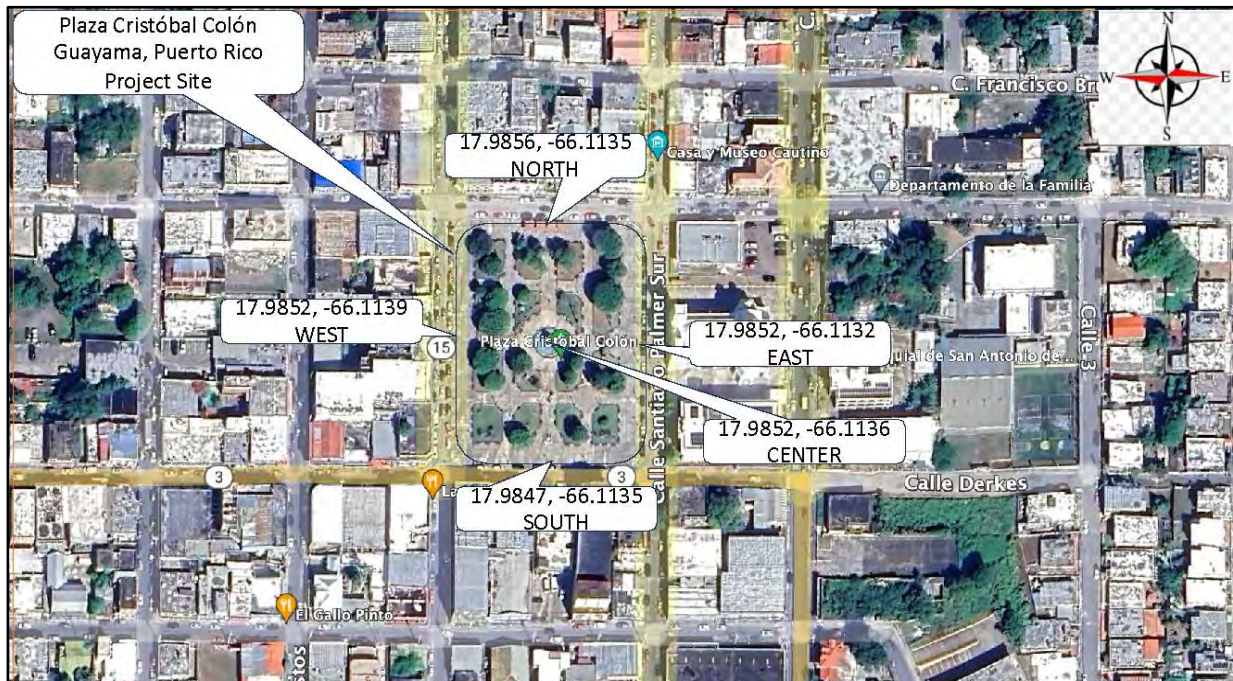


Subrecipient: Municipality of Guayama

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Figure 1: Project (Parcel) Location – Area of Potential Effect Map (Aerial)



Location of the APE of the proposed project at Plaza de Recreo Cristóbal Colón in Guayama, Puerto Rico. Location: Latitude 17.9851, Longitude -66.1135. (Source: CostaVisPR [May 17, 2023, <https://costavispr.org>]) Map not to scale.

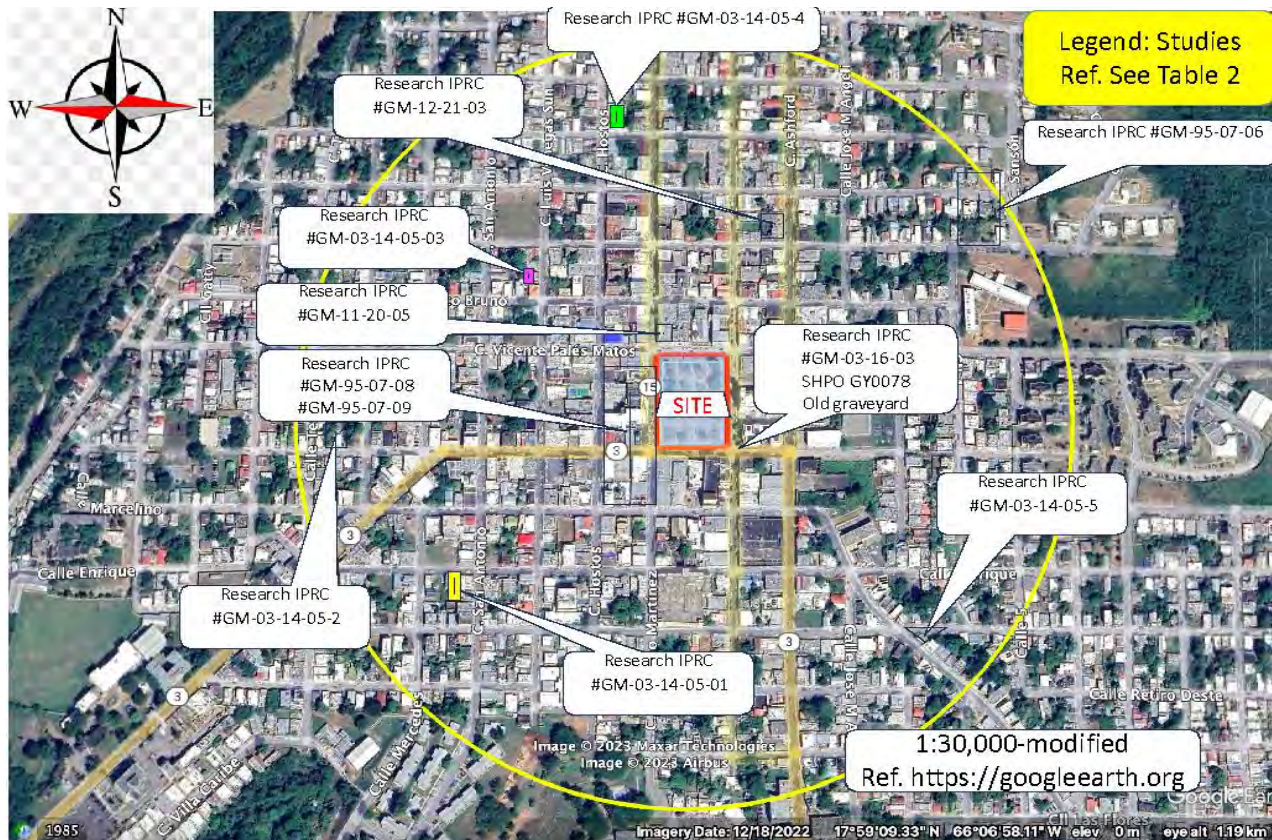


Subrecipient: Municipality of Guayama

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Project (Parcel) Location with Previous Investigations - Aerial Map



Location of the proposed project at Plaza de Recreo Cristóbal Colón in Guayama, Puerto Rico, and previous archaeological studies within 1/4 mile of the APE. Scale 1:30,000 modified. (Reference: Google Earth). See the additional survey in the following figure.

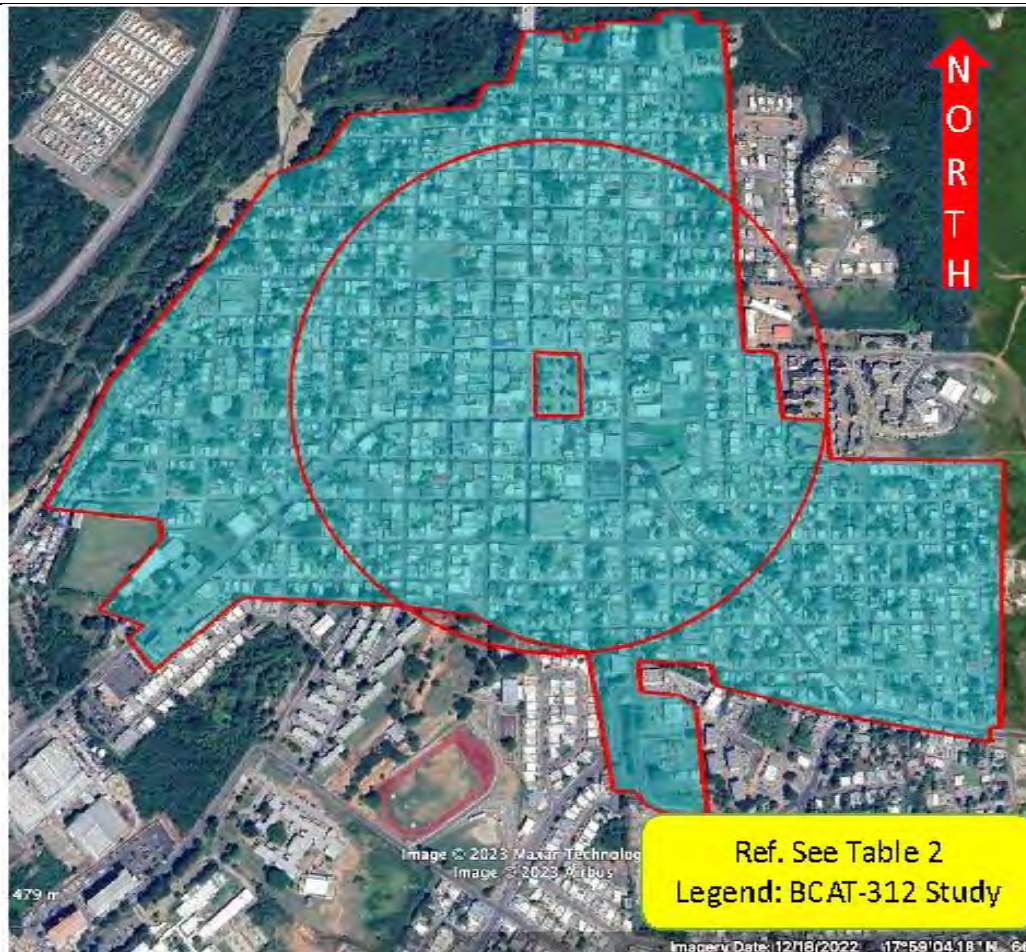


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

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Additional previous archaeological research reviewed



Map showing the boundaries of archaeological study BCAT-312 conducted by Sharon Meléndez in 2010 in and around Plaza de Recreo Cristóbal Colón in Guayama, Puerto Rico. In red polygon show the Historical Zone of the Municipality of Guayama (Source: BCAT-312 by Sharon Meléndez, Google Earth, 2023).

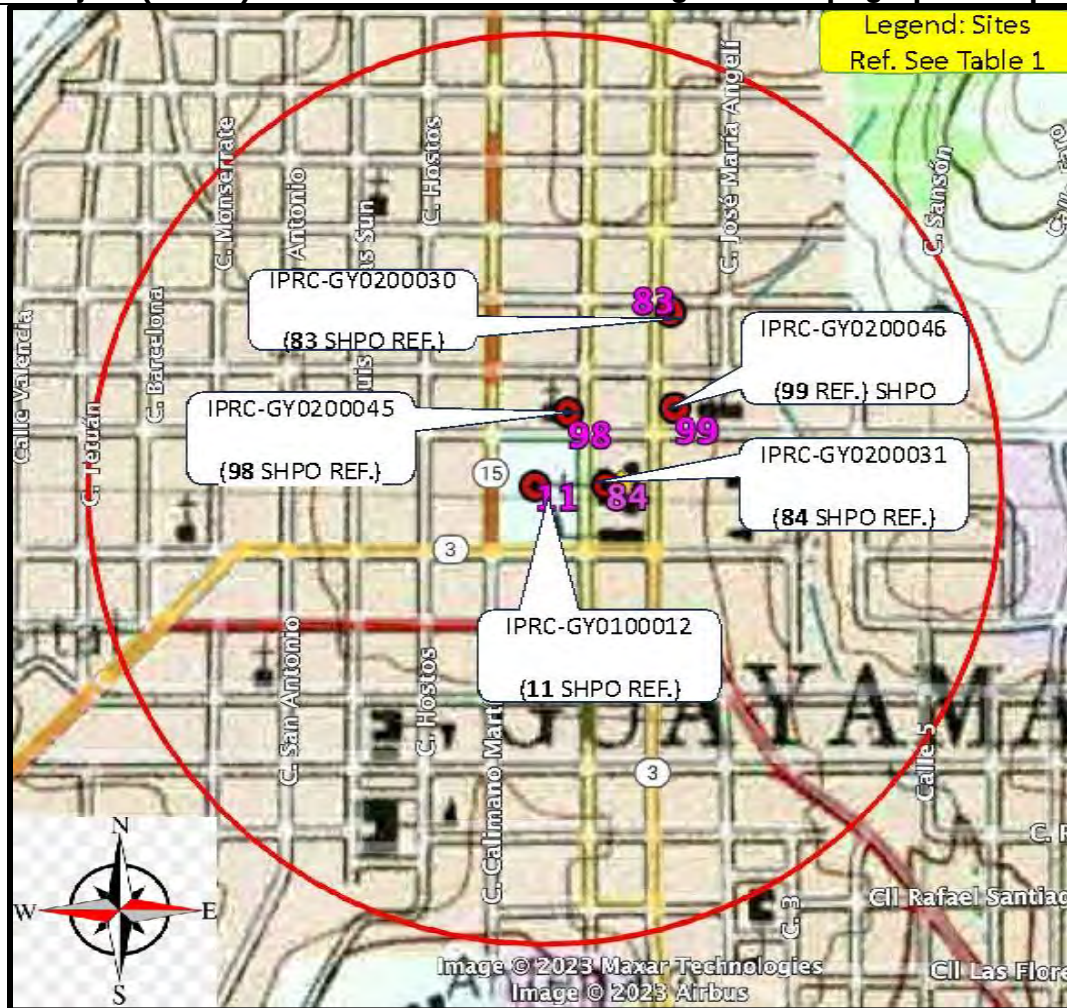


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

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Project (Parcel) Location with Previous Investigations- Topographic Map



1946 USGS topographic map showing the location of the proposed project at *Plaza de Recreo Cristóbal Colón* in Guayama, Puerto Rico, and known cultural resources within 1/4 mile of the APE. This archaeological survey documents the archaeological sites and locations that were documented while the research was being conducted.

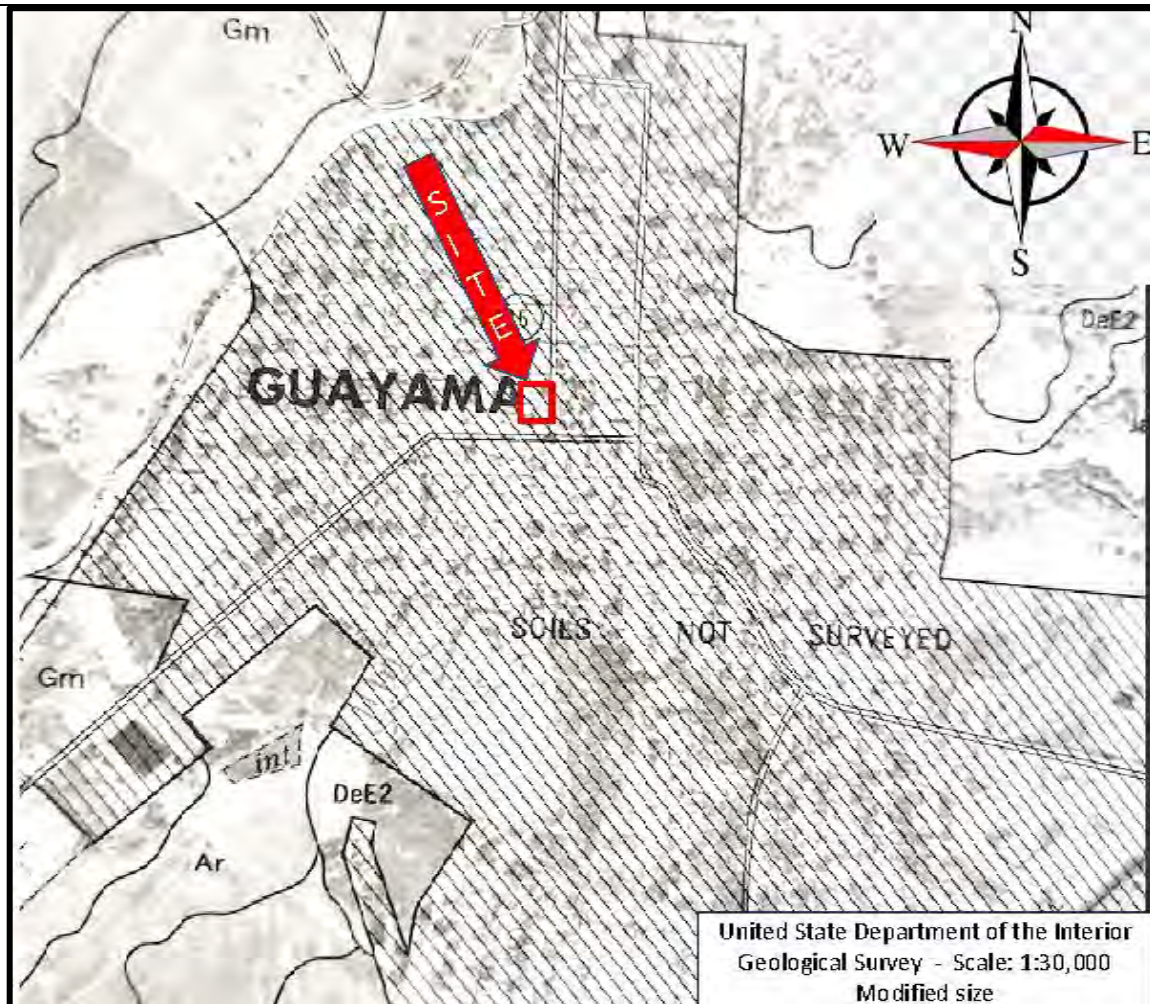


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Figure 4: Project (Parcel) Location – Soils Map



USGS soil fragment map showing the soils within the APE of the proposed project at Plaza de Recreo Cristóbal Colón in Guayama, Puerto Rico. Scale 1:30,000 modified. USGS Soil fragment map – Soils not surveyed

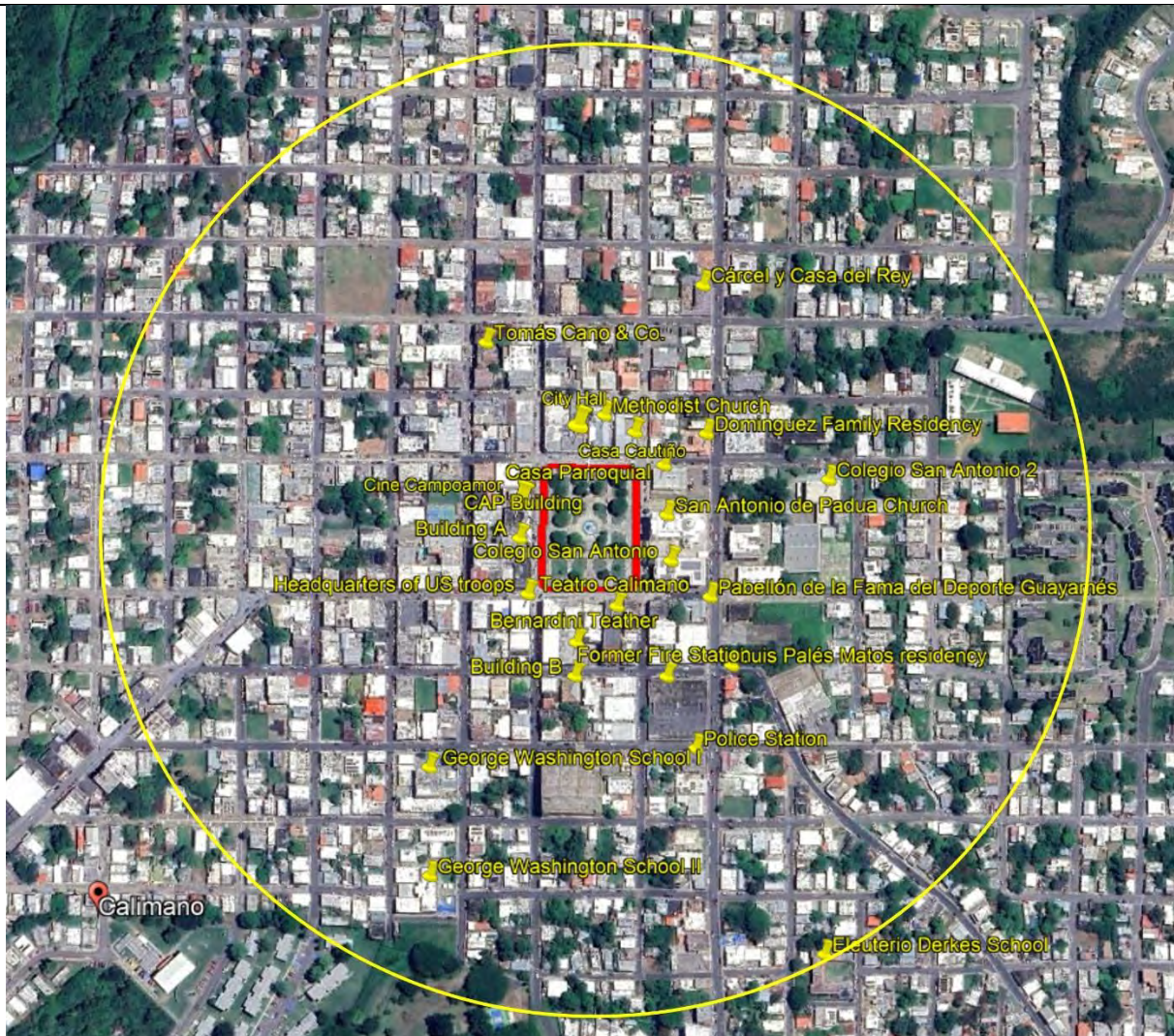


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

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Project (Parcel) Location with Previously Recorded Cultural Resources-Aerial Map



Source: Google Earth 2024.

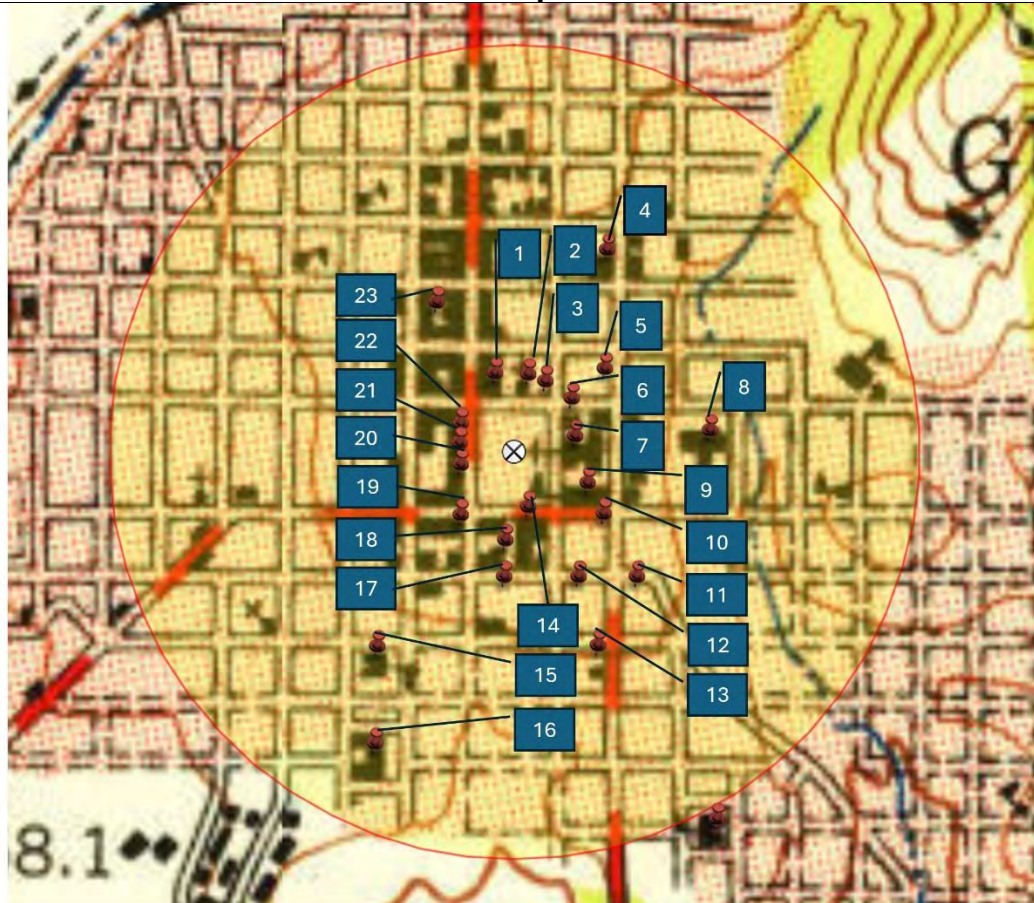


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Project (Parcel) Location with Previously Recorded Cultural Resources-Topographic map



1. City Hall
2. Methodist Church
3. Casa Cautiño
4. Cárcel y Casa del Rey
5. Dominguez Family Residency
6. Casa Parroquial
7. San Antonio de Padua Church
8. Colegio San Antonio II
9. Colegio San Antonio I
10. Pabellón de la Fama de Deportes Guayamés
11. Luis Pales Matos Residency
12. Former Fire Station

13. Police Station
14. Teatro Calimano
15. George Washington School I
16. George Washington School II
17. Building B
18. Bernardini Theater
19. Headquarters US Troops
20. Building A
21. Cine Campoamor
22. CAP Building
23. Tomás Cano & Co.

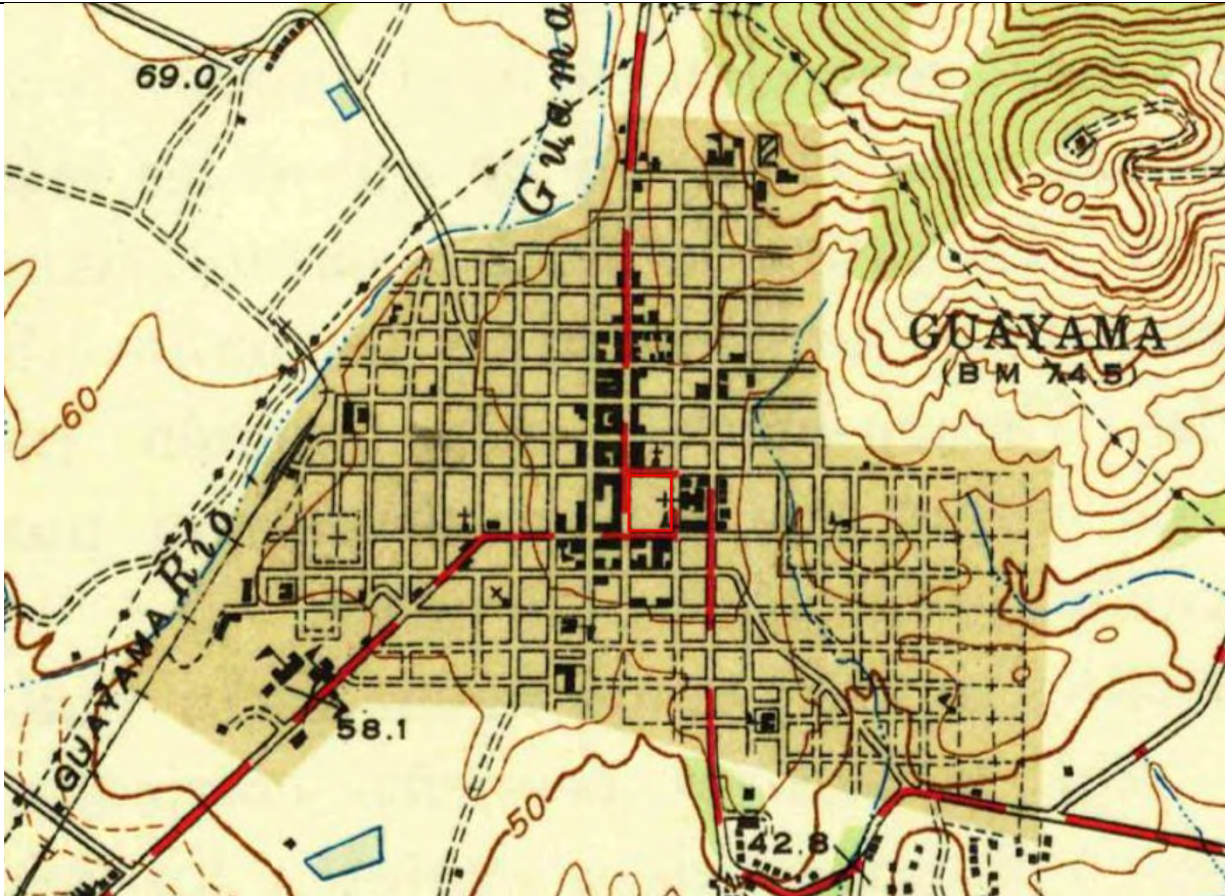


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Other Maps. 1946 Topographical map of Guayama. Original scale 1:30 000. APE is highlight in red (Source: USGS Historical Topo Map Explorer. <https://livingatlas.arcgis.com/topomapexplorer>)





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Other Maps. 1952 Topographical map of Guayama. Original scale 1:30 000. APE is highlight in red (Source: USGS Historical Topo Map Explorer.
<https://livingatlas.arcgis.com/topomapexplorer>)



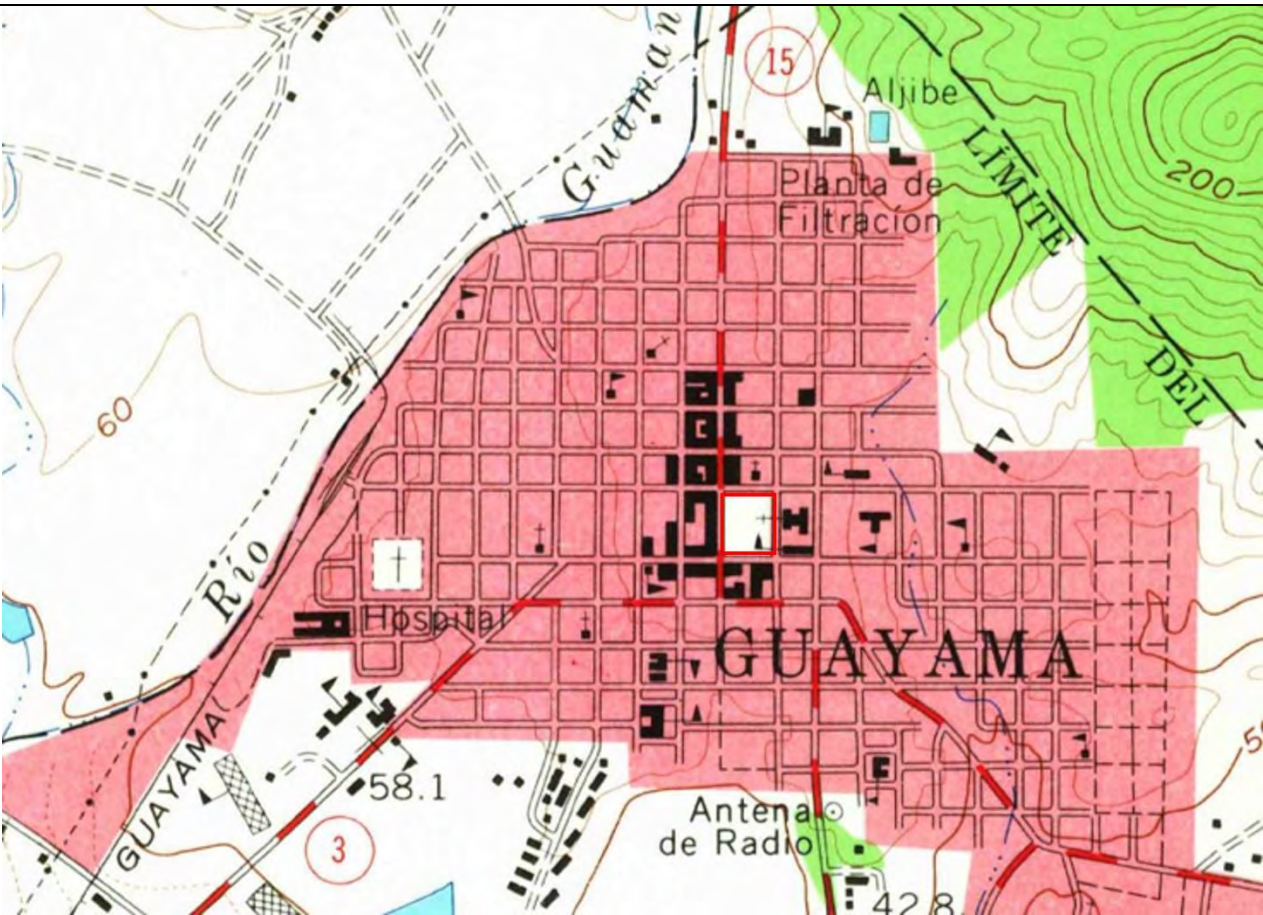


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

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Other Maps. 1962 Topographical map of Guayama. Original scale 1:20 000. APE is highlight in red (Source: USGS Historical Topo Map Explorer. <https://livingatlas.arcgis.com/topomapexplorer>)





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Direct APE Photo Key Map



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Photo #1	View from Derkes Street at the South (17.984737, -66.113576) towards the Plaza fountain
3/5/2024	
	
Photo #2	View from the Plaza fountain (17.985109, -66.113577) towards the South (Derkes Street)
3/5/2024	

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Photo #3	View from the Plaza fountain (17.985109, -66.113577) towards the Southeast corner (Int. Derkes and Palmer Streets)
3/5/2024	



Photo #4	View from the Plaza fountain (17.985109, -66.113577) towards the Southwest corner (Int. Derkes and Calimano Streets)
3/5/2024	

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Photo #5	View from the Palmer Street at the East (17.985179, -66.113220) towards the Plaza fountain
3/5/2024	



Photo #6	View from the Plaza fountain (17.985171, -66.113502) towards the East (Palmer Street)
3/5/2023	



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Photo #7	View from the Plaza fountain (17.985171, -66.113502) towards the Northeast corner (Int. Palmer and Pales Matos Streets)
3/5/2024	



Photo #8	View from the Plaza fountain (17.985171, -66.113502) towards the Southeast corner (Int. Palmer and Derkes Streets)
3/5/2024	

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Photo #9	View from the Pales Matos Street at the North (17.985604, -66.113571)
3/5/2024	towards the Plaza fountain



Photo #10	View from the Plaza fountain (17.985260, -66.113572) towards the North
3/5/2023	(Pales Matos Street)

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Photo #11	View from the Plaza fountain (17.985260, -66.113570) towards the Northwest corner (Int. Calimano and Pales Matos Streets)
3/5/2024	



Photo #12	View from the Plaza fountain (17.985260, -66.113570) towards the Northeast corner (Int. Palmer and Pales Matos Streets)
3/5/2024	

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Photo #13 3/5/2024	View from the Calimano Street at the West (17.985202, -66.113895) towards the Plaza fountain
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Photo #14 3/5/2024	View from the Plaza fountain (17.985174, -66.113639) towards the West (Calimano Street)
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Photo #15	View from the Plaza fountain (17.985174, -66.113639) towards the Southwest
3/5/2024	corner (Int. Calimano and Derkes Streets)



Photo #16	View from the Plaza fountain (17.985174, -66.113639) towards the Northwest
3/5/2024	corner (Int. Calimano and Pales Matos Streets)

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Photo #17	View from the corner of Pales Matos and Palmer Streets (17.985585, -
3/5/2024	66.113235) towards the fountain



Photo #18	View from the corner of Pales Matos and Calimano Streets (17.985606, -
3/5/2024	66.113901) towards the fountain

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Photo #19	View from the corner of Calimano and Derkes Streets (17.984742, 66.113920) towards the fountain	-
3/5/2024		



Photo #20	View from the corner of Derkes and Palmer Streets (17.984738, 66.113257) towards the fountain	-
3/5/2024		

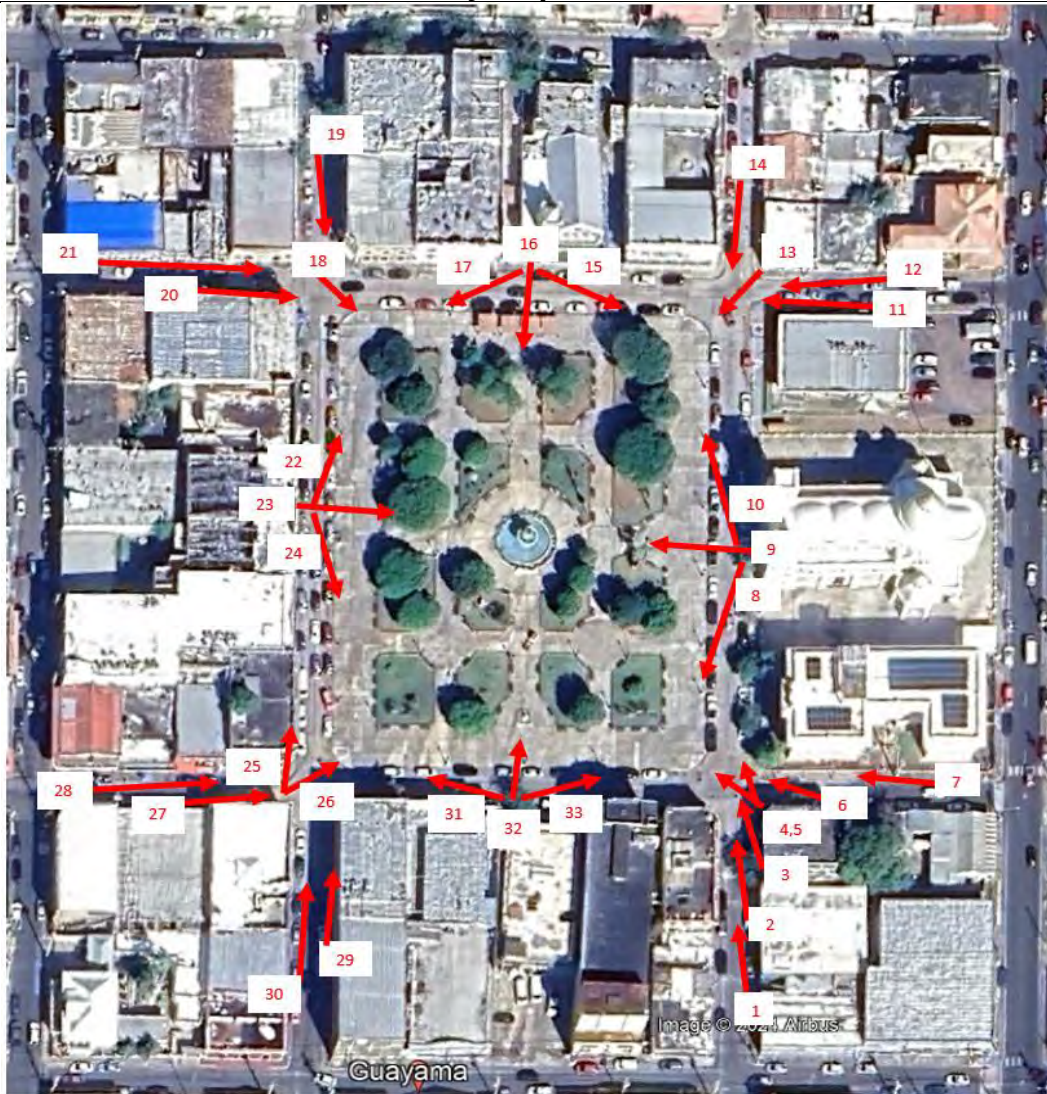


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Photo Key Map. Visual APE



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Photo #1 3/5/2024	View from Palmer Street (17.984333, -66.113122) looking North towards the Plaza
	
Photo #2 3/5/2024	View from Palmer Street (17.984491, -66.113115) looking North towards the Plaza

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Photo #3 3/5/2024	View from Palmer Street (17.984545, -66.113109) looking North towards the Plaza
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Photo #4 3/5/2024	View from the corner of Palmer and Derkes Streets (17.984637, -66.113101) looking towards the Southeast corner and South side of the Plaza
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Photo #5 3/5/2024	View from the corner of Palmer and Derkes Streets (17.984637, -66.113101) looking towards the Southeast corner and East side of the Plaza
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Photo #6 3/5/2023	View from Derkes Street (17.984658, -66.113039) looking towards the Southeast corner of the Plaza
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Photo #7

3/5/2024

View from Derkes Street (17.984657, -66.112998) looking West towards the South of the Plaza



Photo #8

3/5/2024

View from Palmer Street (17.984661, -66.112684) looking Southwest towards the Southeast corner of the Plaza

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Photo #9 3/5/2024	View from Palmer Street (17.984661, -66.112684) looking West towards the fountain of the Plaza
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Photo #10 3/5/2023	View from Palmer Street (17.984661, -66.112684) looking Northwest towards the Northeast corner of the Plaza
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Photo #11 3/5/2024	View from Pales Matos Street (17.985633, -66.112832) looking West towards the North of the Plaza
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Photo #12 3/5/2024	View from Pales Matos Street (17.985685, -66.112757) looking West towards the North of the Plaza
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Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446



Photo #13
3/5/2024

View from the corner of Palmer and Pales Matos Streets (17.985698, -66.113115) towards the Northeast corner of the Plaza



Photo #14
3/5/2024

View from Palmer Street (17.985983, -66.113111) looking South towards the East side of the Plaza

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guayama	
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón	
Project Number: PR-CRP-000446	



Photo #15	View from Pales Matos Street (17.985719, -66.113561) looking Southeast
3/5/2024	towards the Northeast corner of the Plaza



Photo #16	View from Pales Matos Street (17.985719, -66.113561) looking South towards
3/5/2024	the Plaza

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guayama	
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón	
Project Number: PR-CRP-000446	



Photo #17 3/5/2024	View from Pales Matos Street (17.985719, -66.113561) looking Southwest towards the Northwest corner of the Plaza
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Photo #18 3/5/2024	View from the corner of Pales Matos and Calimano Streets (17.985728, -66.113988) looking Southeast towards the Northwest corner of the Plaza
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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 HOUSING
Subrecipient: Municipality of Guayama	
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón	
Project Number: PR-CRP-000446	

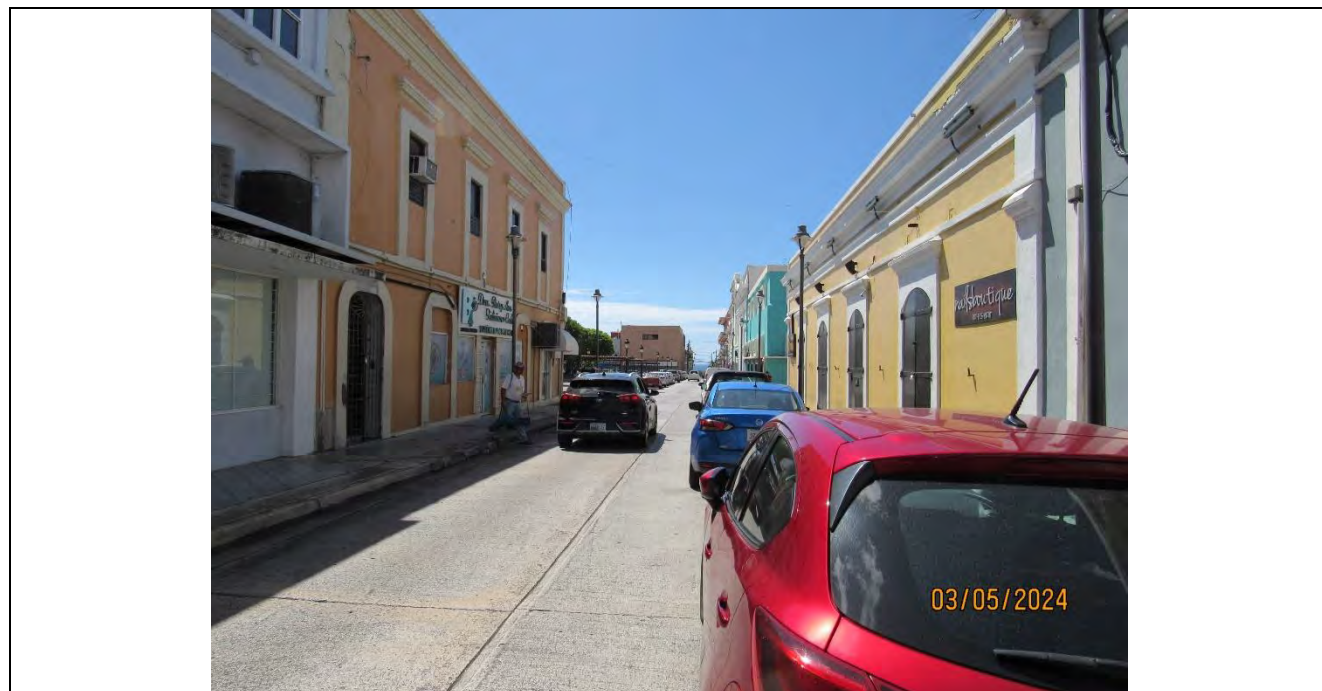


Photo #19 3/5/2024	View from Calimano Street (17.985982, -66.113982) looking South towards the Plaza
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Photo #20 3/5/2024	View from Pales Matos Street (17.985666, -66.114257) looking East towards the Plaza
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Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446



Photo #21

3/5/2024

View from Pales Matos Street (17.985716, -66.114313) looking East towards the Plaza



Photo #22

3/5/2024

View from Calimano Street (17.985201, -66.113984) looking Northeast towards the Northwest corner of the Plaza



Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446



Photo #23

3/5/2024

View from Calimano Street (17.985201, -66.113984) looking East toward the Plaza



Photo #24

3/5/2024

View from Calimano Street (17.985201, -66.113984) looking Southeast towards the Southwest corner of the Plaza



Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446



Photo #25

3/5/2024

View from the corner of Calimano and Derkes Streets (17.984661, 66.114029) towards the West side of the Plaza

-



Photo #26

3/5/2024

View from the corner of Calimano and Derkes Streets (17.984661, 66.114029) towards the South side of the Plaza

-

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guayama	
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón	
Project Number: PR-CRP-000446	



Photo #27 3/5/2024	View from Derkes Street (17.984655, -66.114309) looking East towards the South of the Plaza
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Photo #28 3/5/2024	View from Derkes Street (17.984689, -66.114452) looking East towards the South of the Plaza
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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 HOUSING
Subrecipient: Municipality of Guayama	
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón	
Project Number: PR-CRP-000446	

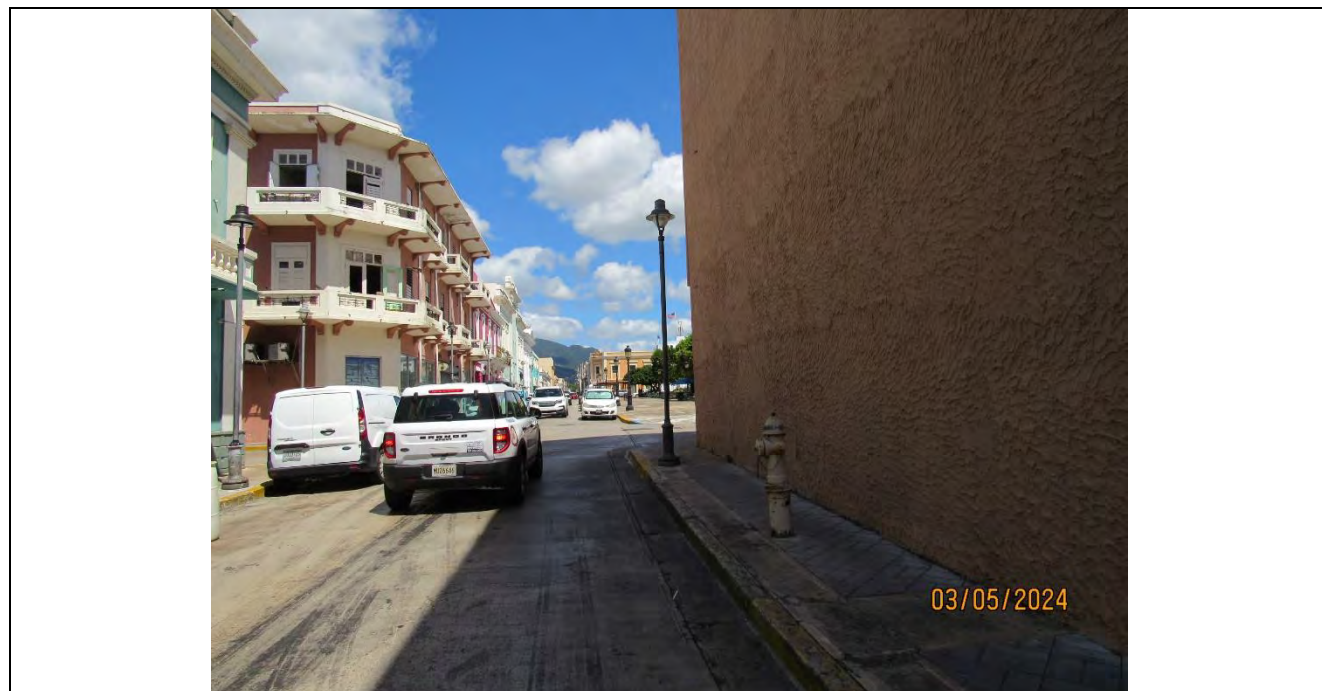


Photo #29 3/5/2024	View from Calimano Street (17.984534, -66.113956) looking North towards the West of the Plaza
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Photo #30 3/5/2024	View from Calimano Street (17.984356, -66.114016) looking North towards the West of the Plaza
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Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446



Photo #31

3/5/2024

View from Derkes Street (17.984658, -66.113589) looking Northwest towards the Southwest corner of the Plaza



Photo #32

3/5/2024

View from Derkes Street (17.984658, -66.113589) looking North towards the South of the Plaza

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446



Photo #33

3/5/2024

View from Derkes Street (17.984658, -66.113589) looking Northeast towards the Southeast corner of the Plaza

PR-CRP-000446

**Rehabilitación Plaza de Recreo Cristobal
Colón Project**

Guayama, Puerto Rico

90% Design Drawings



STATE HISTORIC
**PRESERVATION
OFFICE**

GOVERNMENT OF PUERTO RICO

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

Wednesday, March 19, 2025

Lauren Bair Poche

HORNE – Architectural Historian Manager
10000 Perkins Rowe, Suite 610 Bldg. G
Baton Rouge, LA 70810

**SHPO-CF-12-20-24-04, PR-CRP-000446 REHABILITACIÓN PLAZA DE
RECREO CRISTOBAL COLÓN, GUAYAMA, PUERTO RICO**

Dear Ms. Poche,

We acknowledge receipt of the archaeological monitoring work plan submitted on February 17, 2025, prepared by archaeologist Imandra Martínez and archaeologist Larissa Garcia Cabrera for the case mentioned above. The plan is deemed acceptable, and we concur with its implementation.

Please notify the PRSHPO the archaeological monitoring start date 48 hours prior to the initiation of work. If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela
State Historic Preservation Officer

CARC/GMO/ODJR/SG



OFICINA ESTATAL DE
CONSERVACIÓN HISTÓRICA
OFICINA DEL GOBERNADOR
STATE HISTORIC
PRESERVATION OFFICE
OFFICE OF THE GOVERNOR



GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela

Executive Director

Puerto Rico State Historic Preservation Office

Cuartel de Ballajá, Third Floor

San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE

Director

Division of Environmental Permitting and Compliance

Office of Disaster Recovery

February 17, 2025

Carlos A. Rubio Cancela
State Historic Preservation Officer
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá (Tercer Piso)
San Juan, PR 00902-3935

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program

Re: SHPO-CF-12-20-24-04 - PR-CRP-000446, - Rehabilitación Plaza de Recreo Cristobal Colón, Guayama, Puerto Rico – Archaeology Monitoring Work Plan Submission

Dear Architect Rubio Cancela,

On behalf of the Puerto Rico Department of Housing (PRDOH), we thank you for your letter dated February 10, 2025, in response to the submission of documentation for PR-CRP-000446, Rehabilitación Plaza de Recreo Cristobal Colón project. The letter stated that after the review of all documentation the PRSHPO agrees with PRDOH's finding that the proposed project will have no adverse effect upon historic properties conditioned to archaeological monitoring during all ground-disturbing activities.

As such, we are submitting the requested Archaeological Monitoring prepared by Archaeologist Imandra Martínez with assistance from Archaeologist Larissa García Cabrera. We are requesting your review of the prepared plan and concurrence that the implementation of the plan is appropriate for the undertaking.

Please contact me with any questions or concerns by email at lauren.poche@horne.com or phone at 225-405-7676.

Kindest regards,



Lauren Bair Poche. M.A.

Architectural Historian, EHP Senior Manager
LBP/KPS

Attachments

PRDOH CDBG-DR CRP PROGRAM

Rehabilitación Plaza de Recreo Cristóbal Colón Guayama, Puerto Rico

PR-CRP-000446/SHPO-CF-12-20-24-04



Archaeological Monitoring Plan

Imandra Martínez, Archaeologist– Plexos Group
Assisted by Archaeologist Larissa García Cabrera

February 2025

*Incorporating the Archaeological Monitoring Work Plan Template developed by Archaeologist
Sharon Meléndez Ortiz, HORNE PR, 2023*

PREAMBLE

The Municipality of Guayama is seeking Community Development Block Grant disaster recovery funds financed by the federal Department of Housing and Urban Development due to damage received by the 2017 Hurricanes Irma and Maria. The Puerto Rico Department of Housing (PRDOH) has established an Agreement between PRDOH and the Municipality of Guayama for the City Revitalization Program as part of the Community Development Block Grant for Disaster Recovery (CDBG-DR) Program. The Municipality of Guayama proposes to rehabilitate and renovate the *Plaza Cristobal Colón* located in the Guayama Traditional Urban Center (Eligible District to the National Register of Historic Places, NRHP); between streets Vicente Palés Matos Street to the north, Eleuterio Derkes Street (PR-3) to the south, Calimano Martínez Street (PR-15) to the west, and Santiago Palmer Street to the east. (17.985198, -66.113575) (Figures 1 and 2). The Puerto Rico State Historic Preservation Office (PRSHPO), in a letter dated January 30, 2025, concurred with a finding of No Adverse Effect for this undertaking conditioned to the implementation of archaeological monitoring during any ground-disturbing and excavations activities.

Following the 90% construction plans, the undertaking will include: the removal and replacement of the Plaza floor slab, ramps demolition and construction of new access ramps, construction of walls at the electrical panel area, improvements to the existing fountain, and relocation of the existing pump, relocation of existing monuments, tree planting and vegetation, installation of the irrigation system, installation of sound and lighting system, replacement of trash cans and refurbishing of existing benches, new curb construction & planting bed walls and fence repairs. It is essential that the areas related to electricity, plumbing, and communication services all require trench excavations.

According to CRP-000924, Section 106 NHPA Effect Determination¹ the Direct Area of Potential Effect (APE) for this undertaking is 1.77 acres (7,150.537 sqm), with dimensions of approximately 98 meters in length and 75.3 meters in width. The project's direct APE is within the boundaries of the Guayama Traditional Urban Center, eligible for the National Register of Historic Places as a District. In addition, it has also been designated as a historic zone by the Puerto Rico Planning Board since 1992. In the same document, the Visual APE is defined as:

The visual APE encompasses the viewshed of the proposed project, including the facades of the buildings that face the Plaza, its intersections, and the areas where new structures or elements that impact the urban landscape will be constructed and installed. The Visual APE measures approximately 350 meters in length and 323 meters in width, covering an area of about 113,050 square meters. The project can be observed from Santiago Palmer (east), Vicente Palés Matos (north), Derkés

¹ Dilan Heidy and Maritza Torrez edited by Imandra Martínez assisted by Larissa García Cabrera. CRP-000446, Section 106 NHPA Effect Determination. Rehabilitación Plaza de Recreo Cristobal Colón, City Revitalization Program, 2024.

(south), and Calimano Martínez (west) Streets, approximately 20 meters away from the plaza. The visual APE comprises an urban architectural context of commercial, institutional, and residential buildings dating from approximately the late 19th century to late 20th century.

The objectives of this archaeological monitoring plan are: (1) to establish measures to prevent indirect adverse effects on known historical resources; (2) to establish the protocol to be followed in archaeological monitoring; (3) to establish the protocol to be followed if previously unknown resources are identified; (4) to establish the protocol to be followed if there are any unexpected or previously unanticipated adverse effects; (5) to locate, evaluate and document archaeological resources during project development; (6) to recover as much archaeological information as possible during excavation and construction; (7) to conserve and enhance the value of the archaeological resources located and documented; and (8) in the event that the archaeological resource cannot be conserved in situ, to conserve it through documentation (preservation by record).

This document complies with applicable federal and state laws, regulations, and guidelines, and is consistent with the Secretary of the Interior's (SOI) Guidelines for Archeological Documentation, the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, and Regulation #8932 of the Institute of Puerto Rican Culture (ICP). The plan was prepared by archaeologist Imandra Martínez, who meets the Professional Qualifications Standards set forth in 36 CFR Part 61.

This scope of work is divided into six (6) sections and one (1) appendix. The section following this preamble discusses the proposed construction works. The third section includes a brief description of the historic properties located within the APE and of the archaeological potential of the area. The fourth section provides a detailed description of the archaeological monitoring procedure to be carried out before, during and after the construction works. The fifth section includes the professional qualifications of the team that will implement this monitoring plan, and the last section includes the references cited. The plan closes with an appendix with a model of monitoring daily activity sheet (Appendix A).

Figure 1. Project Location. Topographic Map of Guayama, 1970. The project location is highlighted in red. (Source: TopoView, [Get Maps | topoView](#)).

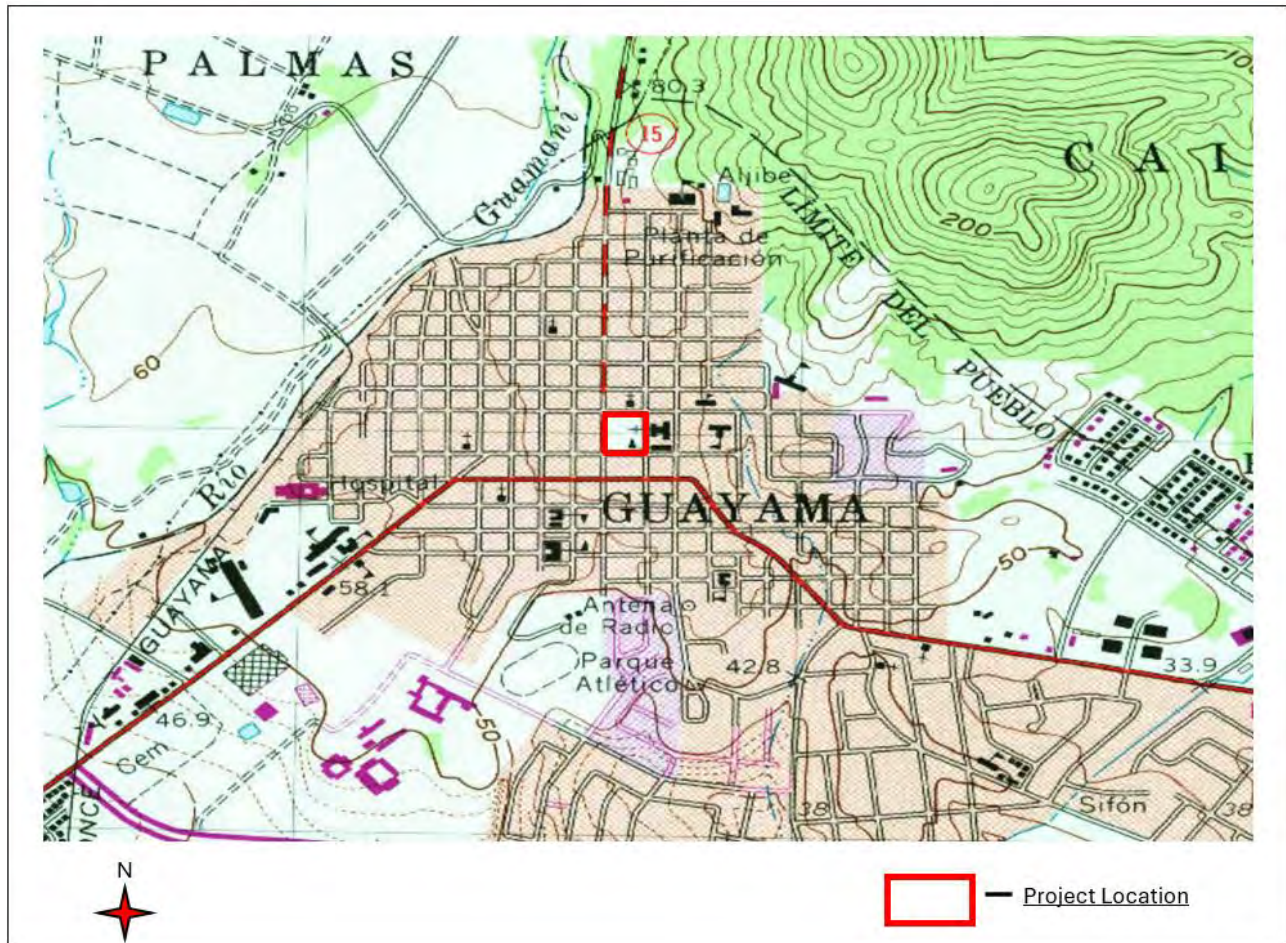


Figure 2. Project Location. Area of Potential Effect Map, Plaza Cristóbal Colón (Source: ArcGIS, 2025).



1. PROJECT DESCRIPTION

The project aims to improve Plaza de Recreo Cristóbal Colón, located in the Municipality of Guayama. The plaza is surrounded by four streets: Vicente Palés Matos Street on the northside, Eleuterio Derkes Street (PR-3) on the southside, Calimano Martínez Street (PR-15) on the westside, and Santiago Palmer Street to the east. In addition, as stated by Section 106 of the project, the direct APE stands at an estimated 98 meters in length and 75.3 meters in width. The project includes activities related to bringing the plaza into compliance with the Americans with Disabilities Act (ADA). Improvements will also be made to the mechanical, electrical, and water drainage infrastructure. New trees will be planted, new street furniture will be installed, and concrete elements will be added to the electric panel area. The tasks to be carried out, including those related to demolition and excavation, are detailed below.

Demolition, excavations and new construction tasks

According to the 90% project plans, the general improvements are as follows:

Plaza surfacing:

- **Removal** of the existing Plaza existent flooring
- Placement of a new exposed aggregate concrete surface on top of the existing concrete slab of the Plaza
- **Demolition** of existing curbs around the Plaza
- Construction of new curb around Plaza
- **Demolition** of four existing sidewalk handicapped ramps
- Construction of eight sidewalk handicapped ramps

Flora:

- Planting of 13 new trees (6" pot size) – excavation for new trees (**appx 2'-0" 3'-0" deep**)
- Planting of new ground cover (**appx 1'-0" deep**)

Furnishings:

- Installation of benches (remove and refurbish benches) and new trash bins (new) - anchored
- Refurbishing of existing planter walls – concrete and iron fence
- Repairs to existing light poles – remove and repair

- Refurbishing of existing bollards - refurbish

Concrete:

- Relocation of existing monuments
- Remove landmarks plaques (2) and construction of 2 new bases inside planters (**appx 2'-0" - 3'-0" deep foundation base**)
- Reinstall plaques on the bases inside the planters
- Install fences around 2 other existing landmarks (bust & obelisk)
- Construction of a new wall, slab on grade and metal grille roof to enclose the existing electrical panels (**max of appx 1'-8" deep excavation for the foundations and base**)

Mechanical and electrical:

- Replacement of the pump for the existing fountain
- Installation of new piping for the fountain pump system (**appx 3'-0" deep excavation**)
- Installation of an irrigation system throughout the planters.
- Installation of a lighting system and speaker system (**depth 6"**)

The demolition works and excavations inside the plaza will be performed using lightweight equipment. The contractor shall take precautions during demolition works on environmentally, architecturally, and archaeologically sensitive areas. During the demolition and construction process, erosion and sedimentation control measures will be implemented to avoid sediment discharge into the road surface and storm sewer system during rainfall events.

Figure 3. Demolition site plan of **Plaza Cristóbal Colón** (Source: 90% Construction Document, Share Tech Group Engineering, P.S. C., drawing number AD-101).

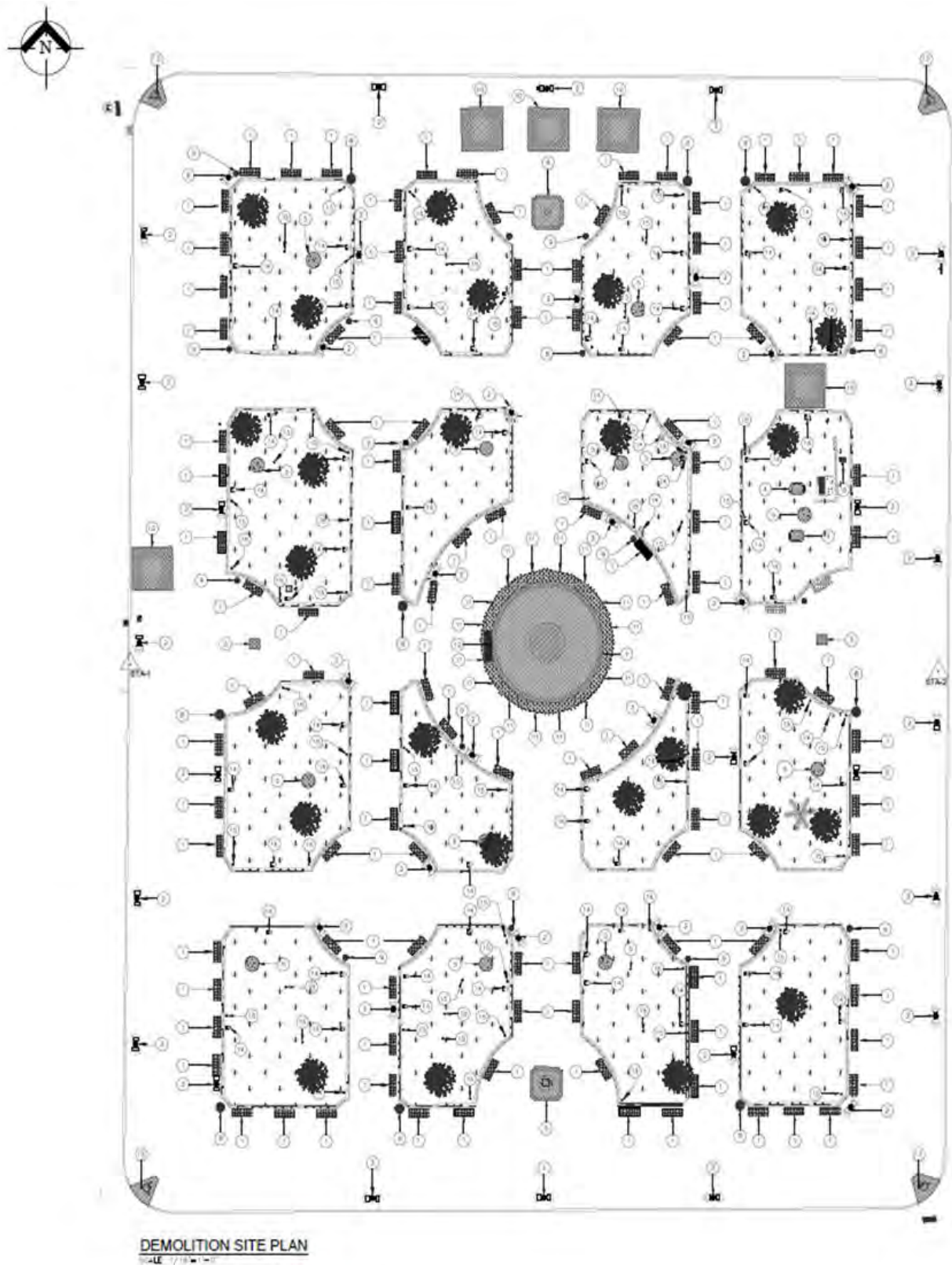


Figure 4. Proposed Site Plan of **Plaza Cristóbal Colón** (Source: 90% Construction Document, Share Tech Group Engineering, P.S. C., drawing number A-201).

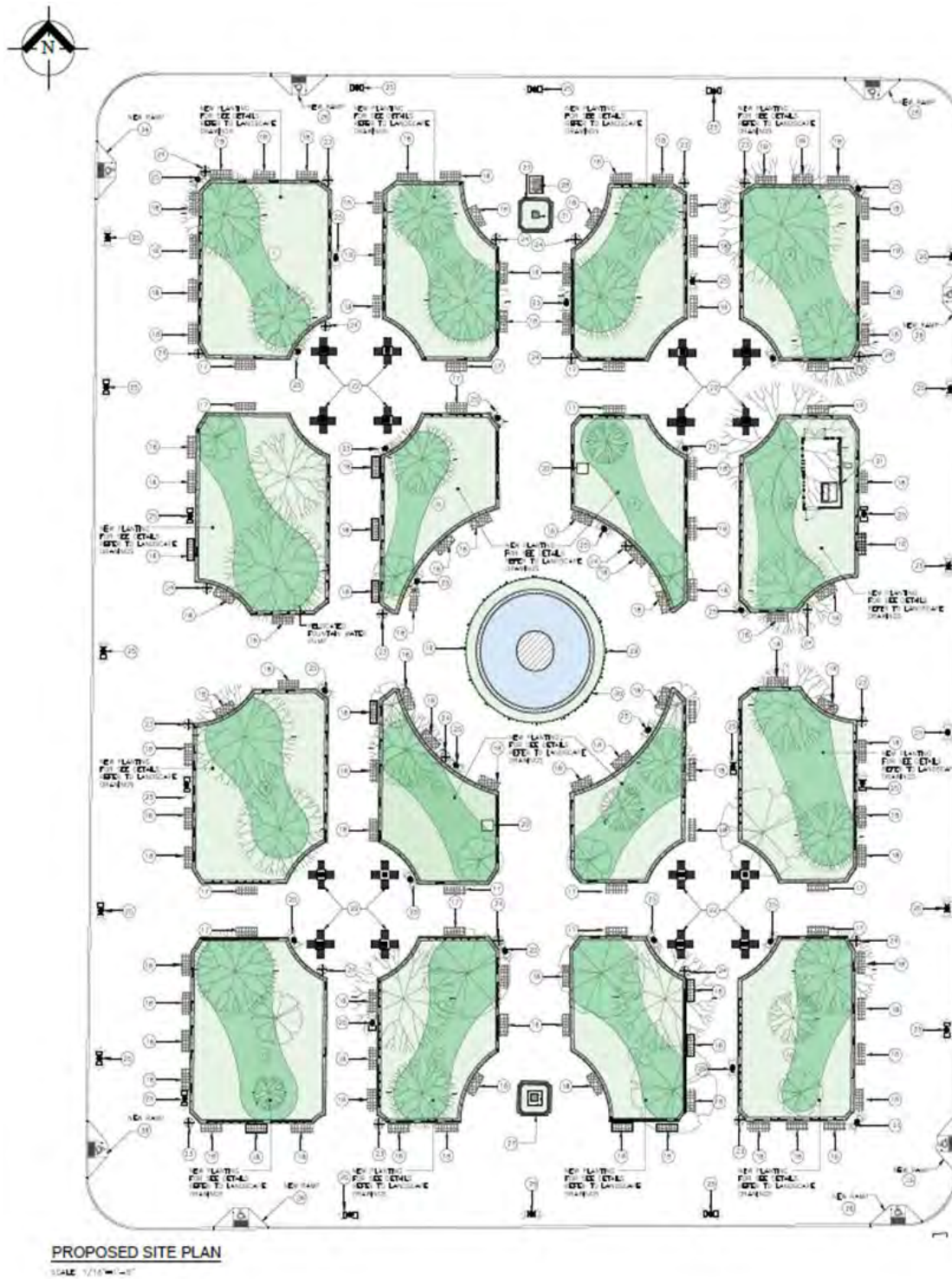
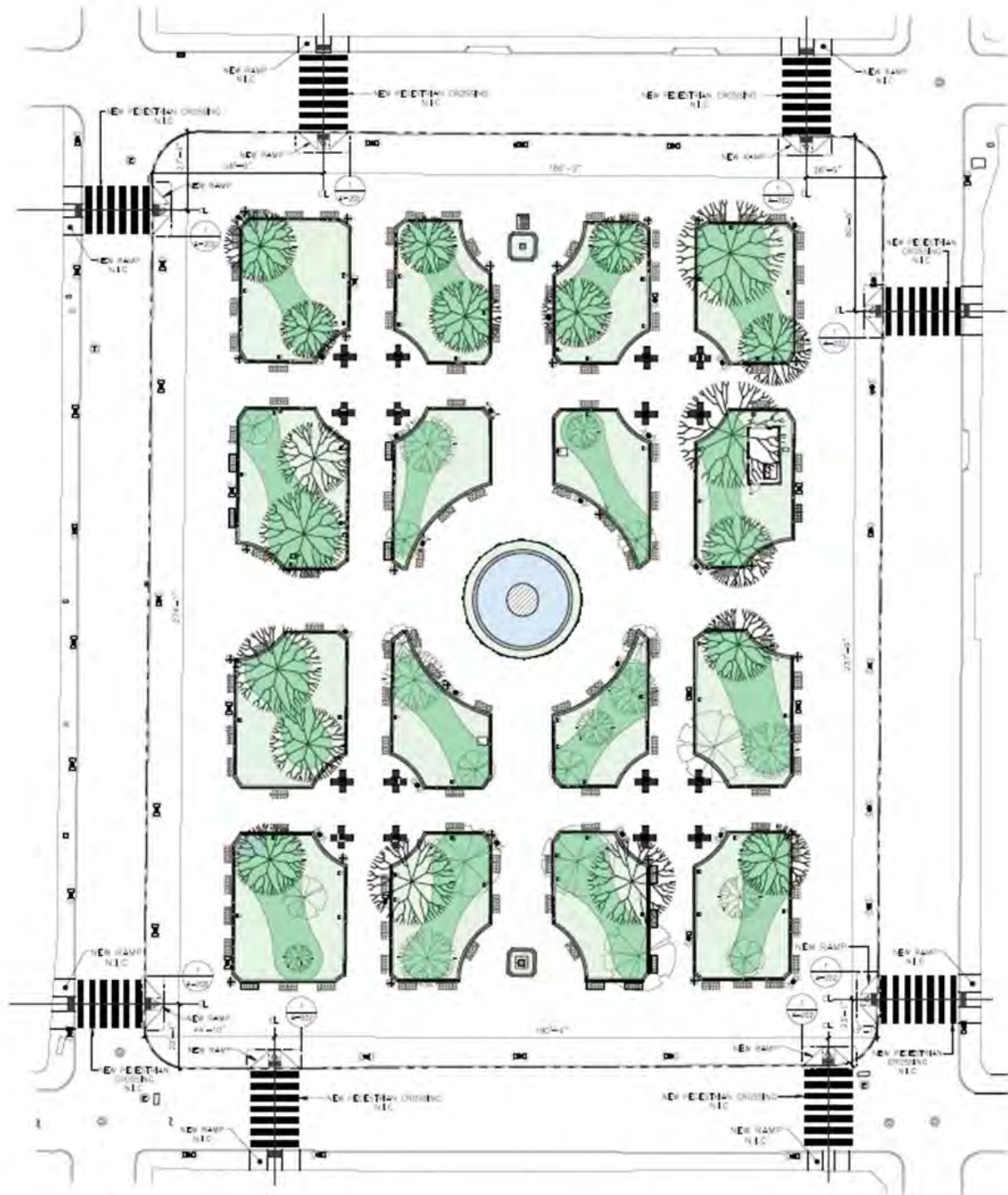
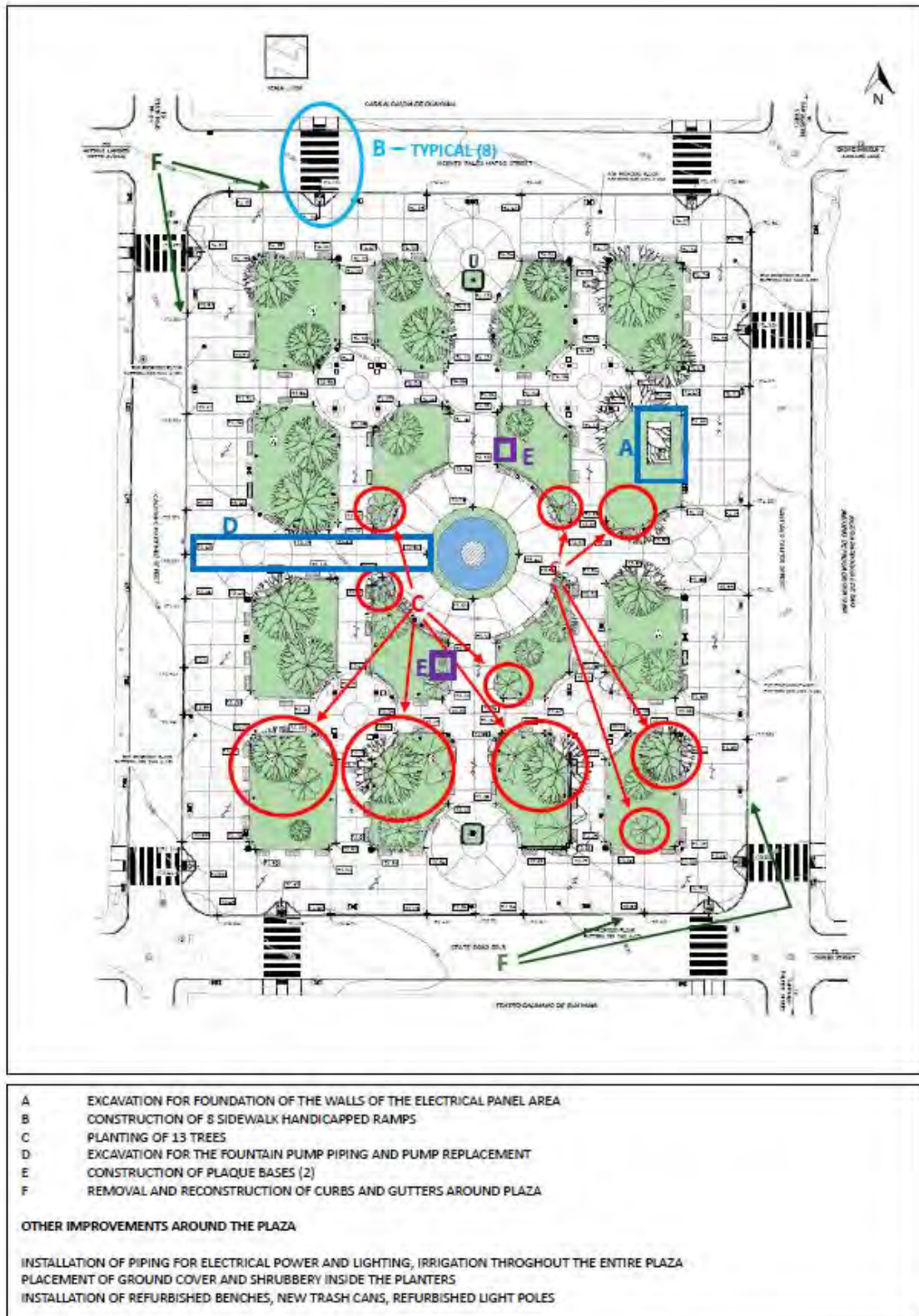


Figure 5. Proposed pedestrian crossing site plan and access ramp location (Source: 90% Construction Document, Share Tech Group Engineering. P.S. C., drawing number AD-202).



PROPOSED PEDESTRIAN CROSSING SITE PLAN
SCALE: NOT TO SCALE

Figure 6. Improvements location (Source: 90% Construction Document, Share Tech Group Engineering, P.S. C., drawing number AD-202).



2.

HISTORIC PROPERTIES WITHIN THE APE

The project area is in the official public plaza of the Municipality of Guayama (Plaza de Recreo Cristóbal Colón). According to the previous investigation by Heidi Dilan, Maritza Torres, and Imandra Martínez, *Rehabilitación Plaza de Recreo Cristobal Colón, PR-CRP-000446, Puerto Rico 2017 Disaster Recovery, CDBG-DR Program, City Revitalization Program (CRP), Section 106 NHPA Effect Determination, 2023/2024*, the foundation of Guayama town dates to 1736, focusing its economy in small fruits, tobacco, cattle, and coffee, among others, until the beginning of the 19th century, but primarily in sugar cane plantations. The sugar industry was the highlight of the historical significance of Guayama, being evidenced by the numerous haciendas, centrals, and colonies that were established in Guayama. Twenty-one of these haciendas have been registered as historic properties in the State Historic Preservation Office inventory, including Hacienda Vives/La Esperanza, listed in the National Register of Historic Places. According to Tomás de Córdoba, in 1840 the town already had a king house, a town hall, a wooden jail, and two schools. Also, the church originally built in 1736 underwent reconstruction between 1827 and 1873. From 1876 to 1899 the church suffered damages due to various storms and hurricanes that impacted the island, leading to a replacement of the original roof in 1920 with concrete.

According to the *Section 106 NHPA Effect Determination form (2024)*, in 1832 the town's urban layout underwent a reconfiguration due to a major fire that destroyed two-thirds of its houses, from grouped bohío-like houses around a square to streets that were spaced out and arranged in a linear pattern. By 1913 the town's development went west using the Aguamaní River as a physical barrier as it flows north to south. By this time Guayama was considered a city of great magnitude in comparison with the other towns of the island, later transforming its agricultural economy into an industrial one, leading to the construction of new industries, single-family homes, public housing, and the expansion of urban infrastructure to support a growing industrial workforce. By the end of the 20th century, Guayama faced economic and social challenges that impacted on its growth and urban planning resulting in a significant migration of its residents. This economic slowdown continued with the turn of the century being worsened by natural disasters, like Hurricane Maria in 2017, affecting its infrastructure along with the economy.

The project will directly impact Plaza de Recreo Cristóbal Colón, which is part of the NRHP-eligible Guayama Traditional Urban Center District. It is important to note that the Plaza de Recreo Cristóbal Colón is eligible for the National Register of Historic Places (NRHP) and contributes to the Guayama Historic District. The Plaza is a crucial element in the urban history of our towns. In addition to its architectural significance, it has historically served as a center for social and cultural life in the island's communities. It has yielded and may continue to yield essential information about the urban development of the Guayama Traditional Urban Center. Cristóbal Colón Square was established in the 18th century as the center of the original

Guayama town. Key features of the Plaza have been preserved since the early 20th century. Although there have been several interventions over the years, these projects did not result in significant structural or spatial changes.

Plaza de Recreo Cristóbal Colón is in the heart of the Guayama Traditional Urban Center and is surrounded by other historic properties that are either eligible for the NRHP or already listed. These include Casa Cautiño (1887, NRHP listed), San Antonio de Padua Church (1874, NRHP listed), City Hall (originally built in 1916 and renovated in 1920), Colegio San Antonio (1933), Teatro Calimano (ca. 1938), CAP Building (ca. 1927), Cine Campoamor (1920), a building on Calimano Martínez Street adjacent to the CAP Building (1916), Methodist Church (1902), Casa Parroquial (1930-1946), and the Headquarters of US Troops (ca. 19th century).

Archaeological Potential

Cultural resource studies cited in the Section 106 NHPA Effect Determination Form (Dilan & Torres, 2023 & 2024, edited by Martínez 2024) reveal the historical significance of the project area. Guayama's urban center has had numerous construction projects that in some cases have required archaeological surveys. Four out of eleven studies yielded positive results within a quarter-mile radius of the project area. The positive studies closest to the area began in 2003 with archaeological monitoring during an underground construction project, in which skeletal remains, a cobblestone floor, an ossuary, a cannon, and brick fragments were identified under the surrounding streets of the plaza. A reconnaissance archaeological survey, *Sitios Brujos: Reconocimiento General de Sitios Arqueológicos* was carried out in 2010 as a general study to identify and update the archaeological sites data registered for Guayama, including the boundaries of the historic zone. In 2011, a Phase IA survey was made for the remodeling of the city hall project 0.01 miles north of the APE. Because the city hall is a historic stone and brick structure, the archaeologist recommended that the *Patrimonio Histórico Edificado* program supervise the process. The following year, another phase IA was made to document the historic city hall but this time a phase IB was recommended but not carried out.

Even though Guayama has geographic characteristics that make it ideal for pre-Columbian cultures to settle, there are no pre-Columbian archaeological sites reported in the quarter-mile radius of the urban center, nor have these above-mentioned surveys recorded any. Only one archaeological site was already reported according to the PRSHPO inventory (GY0100012/Antiguo Cementerio). It is located within the project site, in the plaza center. However, according to the 1884 sketch map presented by Anibal Sepúlveda, the old cemetery was located west on the outskirts of the TUC. On the other hand, cultural resources investigations made through the ICP and PRSHPO inventories, there are five historic structures located within the quarter-mile radius of the Guayama TUC that are eligible for the NRHP.

The potential for unearthing archaeological materials during ground-disturbing activities is considered non-negligible. The project area is at the heart of the NRHP-eligible District Guayama Traditional Urban Center and together with the presented data the APE has high

archaeological potential. The proposed project is very likely to affect the integrity of the above and below-ground historic resources. Therefore, historic infrastructural elements, pavements, sidewalks, drainage systems, and lighting systems could be uncovered during demolition and reconstruction activities associated with the early stages of the public plaza. Similarly, human bones, mortar and masonry floors, ceramics, glass, or metal artifacts related to past lifestyles of the military, and civilian occupants of the colonial area could be retrieved. Previous cultural layers impacted by disasters like fires, earthquakes, or hurricanes could be identified, among other artifacts of archaeological value. Also, attention should be paid to the effects of demolitions and vibrations on the historic structures listed or eligible for the NRHP, especially the historic church. Below is a series of images related to the site's historical and archaeological significance and historical uses.

Figure 7. 1865. Guayama, Proyecto de Riego de Guayama hasta la hacienda Bayrie (Plan detail). The project parcel location is highlighted in red. (Source: Archivo Nacional Digital de Puerto Rico).

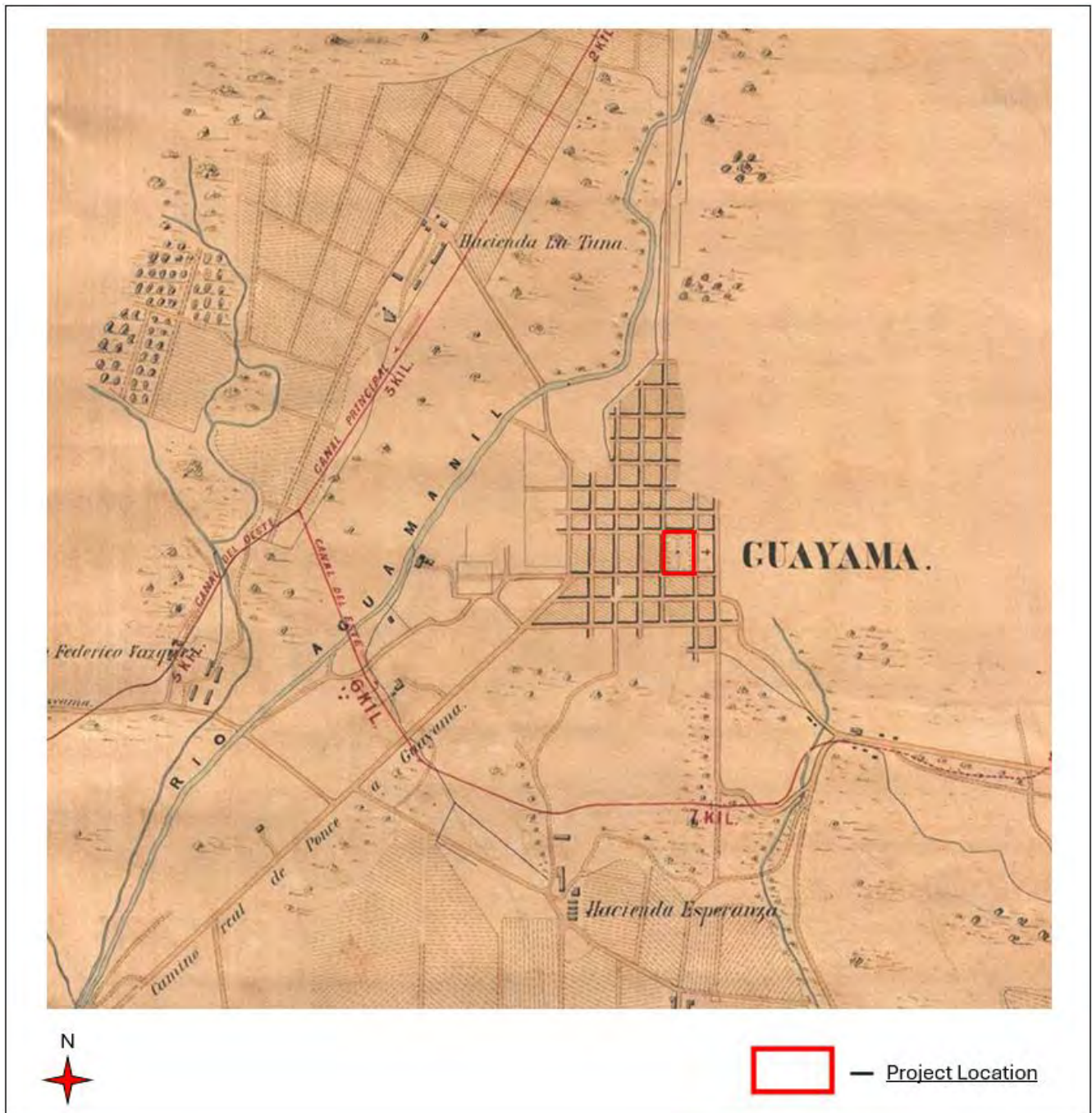


Figure 8. 1884, sketch of the town of Guayama by Francisco Larrea y Liso and Manuel Moriano y Vivó. Project parcel location is highlighted in red. (Source: Aníbal Sepúlveda Rivera, Puerto Rico urbano: Atlas histórico de la ciudad puertorriqueña, Vol. 3: p. 182)



Figure 9. 1922. Guayama Municipality, Department of Public Works. Project parcel location is highlighted in red (Source: Archivo Nacional Digital de Puerto Rico).

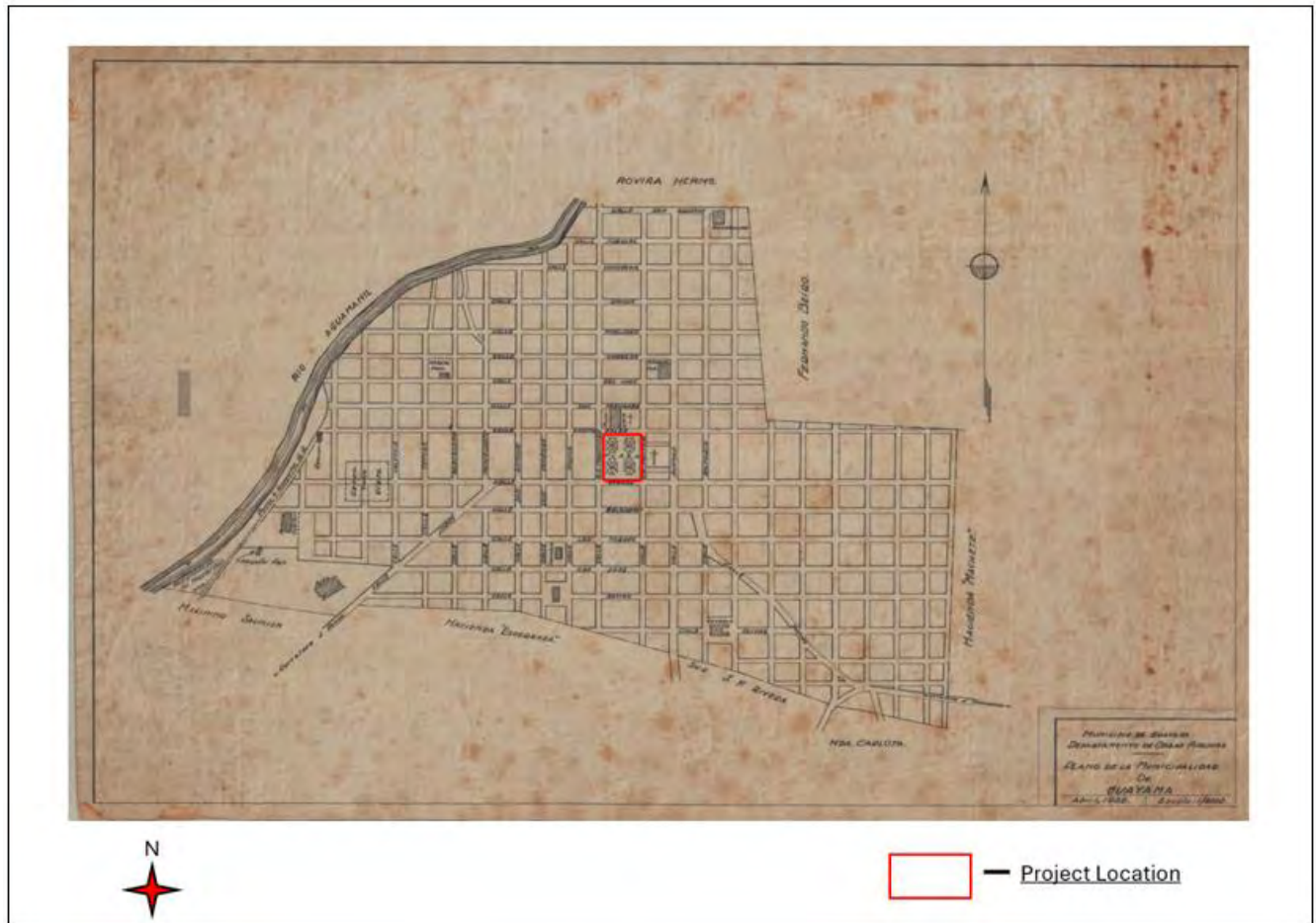


Figure 10. 1937. East of the Guayama center. Project parcel location is highlighted in red (Source: DTOP, Puerto Rico).



Figure 11. 1951. Guayama Urban Center. (Source: DTOP, Puerto Rico).



Figure 12. 1967. Guayama Urban Center. (Source: USGS Earth Explorer)



Figure 13. Ca. 1910. Plaza de Guayama (Source: Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>)



Figure 14. Ca. 1930, Plaza de Guayama (Source: Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>)

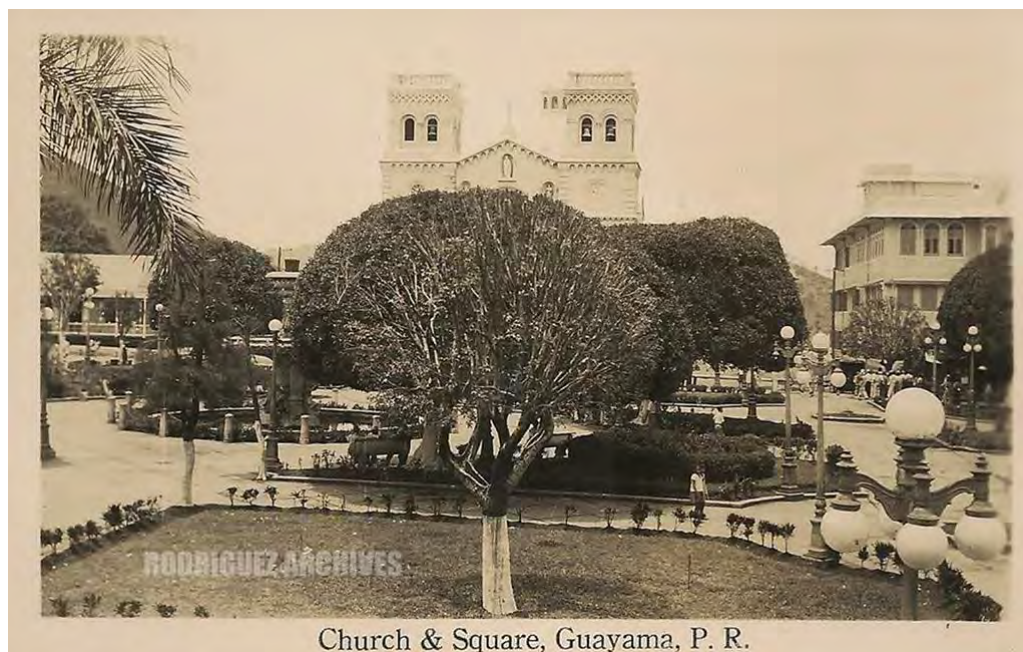


Figure 15. Ca. 1930-1940. A: Plaza de Colón showing City Hall, Guayama and buildings surrounding the Plaza. B: Detail City Hall, Guayama. C: Casa Parroquial, Guayama. D. Iglesia Metodista, Guayama. (Source: PR-CRP- 000446. Plaza Cristobal Colón. Guayama, Puerto Rico. Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>).

A



B



C



D



Figure 16. Plaza Existing conditions. A: View from Derkes Street at the South; B: View from the Plaza Southwest corner; C: View from the Calimano Street; D: View towards the West; E: View from Calimano and Derkes Streets intersection; F: View from Pales Matos and Calimano Streets intersection (Source: Source: PR-CRP- 000446. Plaza Cristobal Colón. Guayama, Puerto Rico)

A



B



C



D



E



F



3. ARCHAEOLOGICAL MONITORING PROCEDURE

The monitoring activities can be divided into three groups: activities before the project begins, activities during construction, and post-construction activities. Monitoring is limited to activities that entail demolition, excavations, and earth movements. Those reconstruction activities that do not entail excavations or earth movements do not require an archaeological monitor. However, if there are activities with heavy equipment taking place in the vicinity of historic buildings, there should be a monitor present to prevent accidents and indirect impacts.

A. Before Construction Begins

1. The Municipality/Construction Manager (CM) will notify the Project Manager (PM), Grant Manager (GM), and Monitor of the proposed activities' start date. The PM is responsible for coordination between the CM and the SOI-qualified archaeologist who will oversee the monitoring (Monitor).
2. Before any demolition or construction begins, the Municipality, PM, CM, GM, and Monitor will have a kickoff meeting to discuss the procedure for archaeological monitoring, including the coordination protocol between the Monitor and the Contractor. The Monitor will provide an orientation on the area's cultural resources and potential resources and their proper treatment. The Monitor will also explain which project activities require archaeological monitoring.
3. The Municipality, CM, PM, and construction crew will complete and sign a statement outlining the activities that may not be performed without the Monitor's presence, demonstrating their understanding and commitment to following the archaeological monitoring procedures.
4. The Monitor shall document the NHRP-eligible or potentially eligible building through detailed descriptions, photos, and scale drawings. Particular attention shall be paid to the construction stages of the building and to other associated structures that may exist within the project's area of potential effect. This data must be included in the final report.

B. During Demolition and Construction

1. The Monitor shall be in the field during all project activities involving demolition and ground disturbance, and activities with heavy machinery or lightweight equipment in the vicinity of historic buildings; access and clear sightlines to all demolition and excavation activities and debris removal will be provided to the Monitor.
2. The Monitor shall provide instructions directly to the construction field personnel concerning how to proceed when there is a potential to impact an archaeological resource. The construction field personnel will abide by these requests: excavate slowly, stop the excavation work to evaluate a finding, etc.
3. The Monitor shall keep a record of monitored activities. The Monitor shall fill out the Daily Record of Activities Form (see **Appendix A**). These forms should be sent weekly to the GM for review and will be attached to the final report as an appendix.

4. After the demolition and removal of surfaces, the Monitor shall document any exposed subsurface feature and shall complete a scale plan drawing. The amount, size, and placement of excavation units needed to document the features, if any, shall depend on the size and complexity of the feature being documented. If necessary to understand the context of the identified resource, the Monitor should conduct archival research of primary sources (like previous project files, newspapers, journals), cartographic sources, and historical images.
5. The Monitor shall document all other archaeological remains identified during construction activities, except for previously unidentified historically significant findings (refer to B-7 below). The documentation shall include a detailed description of the discovery, context, horizontal and vertical provenience, photos, and a plan drawing. This documentation shall be done within a reasonable amount of time, trying not to impact on the project schedule as much as possible.
6. Any subsurface feature may be demolished and removed after being documented by the Monitor and approved by the GM. The information recorded will be included in the final report.
7. If the identified archaeological remains are considered historically significant – i.e., complex structures, pre-colonial remains or stratified deposits – the Monitor shall instruct the construction crew to (1) immediately cease work in the vicinity of the discovery, (2) take all reasonable measures to avoid or minimize harm to the property, and (3) notify the Municipality, PM, CM, and GM. The GM shall immediately notify the SHPO, as per stipulation III.B.1.b. of the PA. The following protocol shall be followed:
 - a. The Monitor shall make a preliminary assessment of the findings. The assessment shall include a description of the discovery, location, horizontal and vertical extent (if known), context, photographs, and drawings including a site plan. The assessment shall also include a work plan for implementing a National Register of Historic Places' eligibility evaluation of the exceptional remains.
 - b. The assessment and NRHP-eligibility evaluation work plan shall be submitted via email to the PM and GM within 24 hours of the discovery. The GM will comment on the work plan within 24 hours of receiving it.
 - c. The Monitor shall implement the work plan after receiving the GM's authorization to proceed. After completing the fieldwork, the Monitor shall prepare an End of Field Report, summarizing the results. Said report should include an NRHP-eligibility determination. The End of Field Report shall be submitted via email to the PM and GM within 48 hours after completing the fieldwork.
 - d. The GM shall notify the SHPO of the NRHP-eligibility determination.
 - i. If the finding is **not eligible** to the NRHP, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO disagrees with the NRHP determination and makes a timely objection within 48 hours of the notification.
 - ii. If the finding is **eligible** to the NRHP, the criteria of adverse effect shall be applied. If the project activities do not adversely affect the

findings, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO makes a timely objection within 48 hours of the notification.

If the project activities have an **adverse effect** on the NRHP-eligible finding, Data Recovery will be implemented as a Treatment Measure per Appendix F of the PA. The Monitor shall develop a data recovery plan with a research design consistent with the Secretary of the Interior's Guidelines for Archeological Documentation (http://www.nps.gov/history/localaw/arch_stnds 7.htm) and the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, at <https://www.achp.gov/protectinghistoricproperties/Section 106 Archaeology Guidance>. The data recovery plan shall be submitted via email to the GM for comments. The GM shall be responsible for submitting the data recovery plan to the SHPO for comments and approval. This treatment measure does not apply to burials or human remains (refer to II.B.11 of this work plan).

8. If any additional construction activities are added or design changes are made after the project has begun, the Municipality, CM and PM shall inform the GM and the Monitor prior to performing the work. The Monitor, in conjunction with GM, shall evaluate these activities and apply the adverse effect criteria. If it is determined that the effect is adverse, the archaeologist will provide recommendations on how to avoid, minimize, or mitigate the adverse effect. These recommendations will be consulted with the SHPO prior to implementation. The SHPO will have 15 days to comment on the recommendations. If no communication is received within that time frame it will be assumed that the SHPO has no objection and concurs with the recommendations outlined.
9. If during construction activities historic property is affected in an unanticipated manner, the CM shall stop work immediately, and inform the Municipality, PM, GM and Monitor. The Monitor, in conjunction with GM, shall evaluate the unanticipated effects and apply the adverse effect criteria within no more than 24 hours. If the effect is determined to be adverse, the Monitor and GM will provide recommendations on how to avoid, minimize, or mitigate such adverse effects. The GM shall consult with the SHPO on the recommendations prior to implementation. The SHPO will have 48 hours to comment on the recommendations. If no communication is received within that time frame, it will be understood that the SHPO has no objection and concurs with the recommendations outlined.

C. After Construction Ends

1. Upon the completion of archaeological monitoring, the Municipality, PM and GM shall be notified. The estimated date of delivery of the final report shall be indicated in the said notification.
2. A technical report shall be prepared detailing monitored construction activities, documentary research (if any), documentation of archaeological features and other findings, and analysis and interpretation of the results. The report must

include visual information, such as drawings and photos, and a sketch plan of all the documented findings. The report shall be submitted to the GM no later than two (2) weeks after completing the archaeological monitoring work. The GM shall submit the report to the SHPO no later than one (1) week after receiving it.

D. Human Remains

If human remains are discovered, the protocol established in Stipulation III.B.1.c. of the PA must be followed:

1. Stop working immediately.
2. Notify the local law enforcement office and coroner/medical examiner following applicable Commonwealth statute(s).
3. Protect the remains from any harm.
4. The GM shall be responsible for notifying the SHPO within twenty-four (24) hours of identifying human remains.

4. PROFESSIONAL QUALIFICATIONS

The Monitor must meet the minimum Secretary of the Interior's Professional Qualifications Standards for Archaeology established in 36 CFR Part 61. These are: a graduate degree in archaeology, anthropology, or closely related field, plus at least one (1) year of full-time professional experience or equivalent specialized training in archaeological research, administration, or management; at least four (4) months of supervised field and analytic experience in general Puerto Rican archaeology; the demonstrated ability to carry research to completion; and at least one (1) year of full-time professional experience at a supervisory level in the study of archaeological resources of the pre-Columbian and colonial periods. Please see https://www.nps.gov/history/local-law/arch_stnds_9.htm for more information.

The SOI-qualified archaeologist shall not defer their monitoring responsibilities to any other person who does not meet the minimum professional qualifications. Any additional personnel to intervene in monitoring efforts shall have vast experience in historic archaeology, in working in evaluation (Phase II), documentation (Phase III), and monitoring projects dealing with colonial period properties. The Principal Investigator may not transfer his or her duties, obligations, and responsibilities to subordinates or other technicians who are not professionally trained in archaeology.

5. CITED REFERENCES

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Dilan Heidy and Maritza Torrez edited by Imandra Martínez assisted by Larissa García Cabrera. CRP-000446, Section 2024. 106 NHPA Effect Determination. Rehabilitación Plaza de Recreo Cristobal Colón, City Revitalization Program,

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s/f *Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines for Historical Documentation*.
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APPENDIX A: MONITORING DAILY ACTIVITY SHEET

 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING	PUERTO RICO 2017 DISASTER RECOVERY City Revitalization Program ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES
Case ID:	Project Location:
Municipality:	Project Coordinates (lat/long):

SOI Qualified-Archaeologist:
Date of Monitoring: Click or tap to enter a date.
Work Hours:

<u>Description of work performed by contractor and supervised by the Monitor:</u>		
	YES	NO
Was an archaeological remain documented during the day. If yes, include the required information below.	☐	☐
Was an exceptional archaeological remain identified during the day? If yes, explain below.	☐	☐
Have the construction activities affected a previously unidentified property or a known historic property in an unanticipated manner? If yes, explain below.	☐	☐
Has there been a change in the scope of work of the project? If yes, explain below.	☐	☐

 GOVERNMENT OF PUERTO RICO GOBIERNO DE PUERTO RICO	PUERTO RICO 2017 DISASTER RECOVERY City Revitalization Program ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES
Case ID:	Project Location:
Municipality:	Project Coordinates (lat/long):

Site Photos	
Direction of Photo: Click here to enter text. Description: Click here to enter text.	
Direction of Photo: Click here to enter text. Description: Click here to enter text.	

APPENDIX B: 90% DESIGN PLANS



Gobierno de Puerto Rico

Oficina Estatal de Conservación Histórica

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

February 10, 2025

Lauren Bair Poche, M.A.

EHP Senior Manager

Architectural Historian, Government Services

HORNE

SHPO-CF-12-20-24-04 PR-CRP-000446 (Guayama) - Rehabilitación Plaza de Recreo Cristobal Colón (Substitutes January 30, 2025 NAE letter)

Dear Ms. Poche:

Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation. The State Historic Preservation Officer (SHPO) is to advise and assist federal agencies and other responsible entities when identifying historic properties, assessing effects upon them, and considering alternatives to avoid or reduce the project's effects.

After a review of all the documentation provided, the PRSHPO agrees with your finding that the proposed project will have no adverse effect upon historic properties conditioned to archaeological monitoring during all ground-disturbing activities.

Please note that should the Agency discover any historic properties including archaeological findings at any point during project implementation, you should notify the SHPO immediately. If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio-Cancela

State Historic Preservation Officer

CARC/GMO/eds





GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela

Executive Director

Puerto Rico State Historic Preservation Office

Cuartel de Ballajá, Third Floor

San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE

Director

Division of Environmental Permitting and Compliance

Office of Disaster Recovery

December 20, 2024

Carlos A. Rubio Cancela
State Historic Preservation Officer
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá (Tercer Piso)
San Juan, PR 00902-3935

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program
Section 106 NHPA Effect Determination Submittal for PR-CRP-000446,
Rehabilitación Plaza de Recreo Cristobal Colón, Guayama, Puerto Rico – No
Adverse Effect, Conditioned

Dear Architect Rubio Cancela,

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

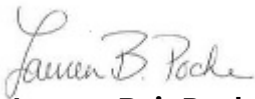
On behalf of PRDOH, HORNE is submitting documentation for the proposed Rehabilitación Plaza de Recreo Cristobal Colón project in the Guayama Traditional Urban Center, which is eligible for listing in the National Register of Historic Places. The Municipality of Guayama proposes to rehabilitate the plaza, including the removal and replacement of the plaza floor slab, improvements to the existing fountain, relocation of existing monuments, tree planting and vegetation, demolition of existing ramps and construction of new access ramps, new curb construction, and construction of walls at the electrical panel area. The project also includes the installation of an irrigation system, installation of sound and lighting systems, replacement of trash cans and refurbishing of existing

benches, and repairs to the planting walls and fence. The full scope of the project is described in the submitted documentation, which includes mapping, photographs, and the 90% design plans.

Based on the documentation provided, the Program requests a concurrence with a determination that "**No Adverse Effect**" is appropriate for this undertaking, conditioned to archaeological monitoring during all ground-disturbing activities. If this condition is deemed appropriate, an archaeological monitoring plan will be prepared and submitted to the PRSHPO for review and concurrence of the appropriateness of its implementation for this undertaking. for review and concurrence of the appropriateness of its implementation for this undertaking.

If you have any questions or concerns, please contact me by email at lauren.poche@horne.com or phone at 225-405-7676.

Kindest regards,



Lauren Bair Poche. M.A.

Architectural Historian, EHP Senior Manager
LBP/KPS

Attachments

PR-CRP-000446

**Rehabilitación Plaza de Recreo Cristobal
Colón Project**

Guayama, Puerto Rico

Section 106 Effect Determination Form

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guayama	
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón	
Project Number: PR-CRP-000446	

Project Location: Calle Vicente Palés, Barrio Pueblo, Guayama PR 00784	
Project Coordinates: Lat. 17.985198, Long. -66.113575	
TPID (Número de Catastro): 420-042-103-01-000	
Type of Undertaking: ☒ Substantial Repair ☐ New Construction	
Construction Date (AH est.): 1832 @ 1836	Property Size (acres): 1.77 acres (7,150.537 sm)

SOI-Qualified Architect/Architectural Historian: Heidi J. Dilan; edited by Imandra Martínez Castañeda assisted by Larissa García Cabrera	
Date Reviewed: 5/26/23, 7/24/23, 8/23/23, 3/18/24, 7/28/24, 9/25/24, 12/19/24	
SOI-Qualified Archaeologist: Maritza Torres Martínez edited by Imandra Martínez Castañeda assisted by Larissa García Cabrera	
Date Reviewed: 5/26/23, 7/14/23, 11/16/23, 3/30/24, 7/19/24, 9/25/24, 12/19/24	

In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the NRHP and any properties not listed that would be considered eligible for listing that are located within the geographic area of potential effects (APE) of the proposed project and assessing the potential effects of its undertakings on these historic properties.

Project Description (Undertaking)¹

The project entails a series of improvements to be carried out in the Plaza de Recreo Cristobal Colón, located in the Municipality of Guayama, Puerto Rico. The scope of work includes both demolition or reconstruction actions with the intention to enhance the overall infrastructure and aesthetics of the Plaza. The following **Images A** shows the existing conditions, **Image B** the demolition plan, and **Image C** the proposed improvements to the Plaza.

The project undertaking can be divided among the following major sections:

1. Removal and replacement of the Plaza floor slab.
2. Ramps demolition and construction of new access ramps.
3. Construction of walls at the electrical panel area.
4. Improvements to the existing fountain and relocation of the existing pump.
5. Relocation of existing monuments.
6. Tree planting and vegetation.
7. Installation of the irrigation system.
8. Installation of sound and lighting system.
9. Replacement of trash cans and refurbishing of existing benches.
10. New curb construction.

¹ According to 90% of the project plans.



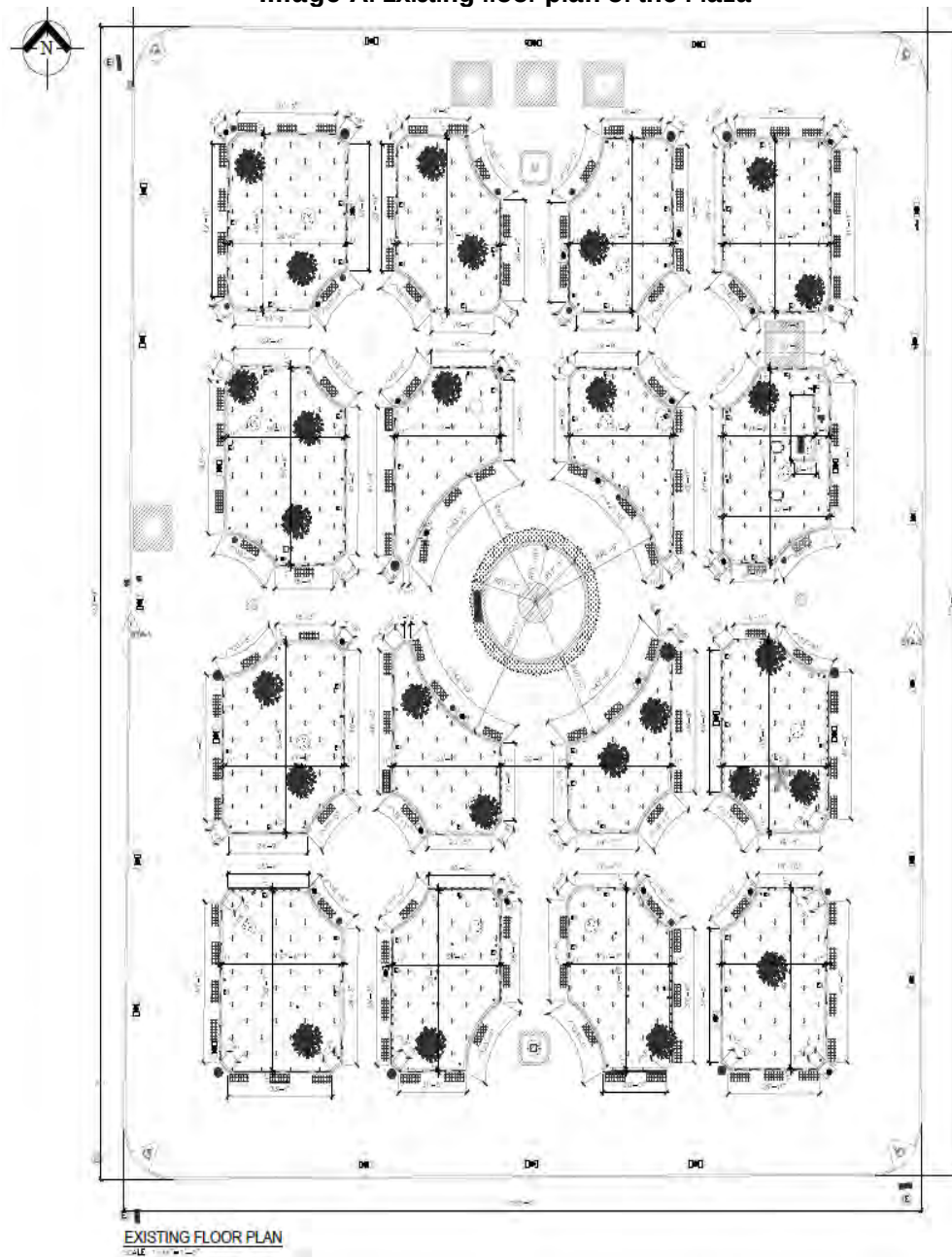
Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446

11. Planting bed walls and fence repairs.

Image A: Existing floor plan of the Plaza



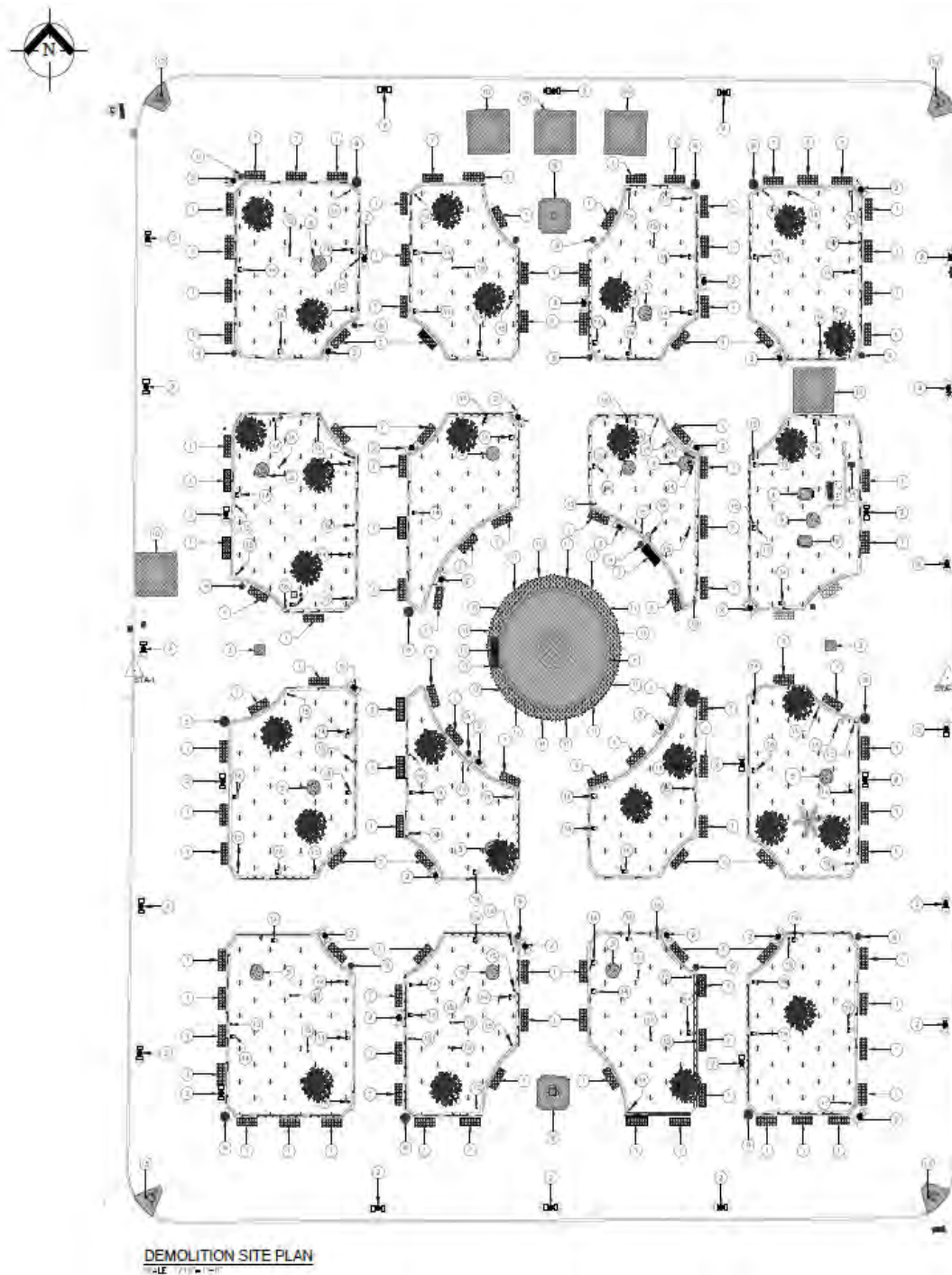


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446

Image B: Demolition plan.



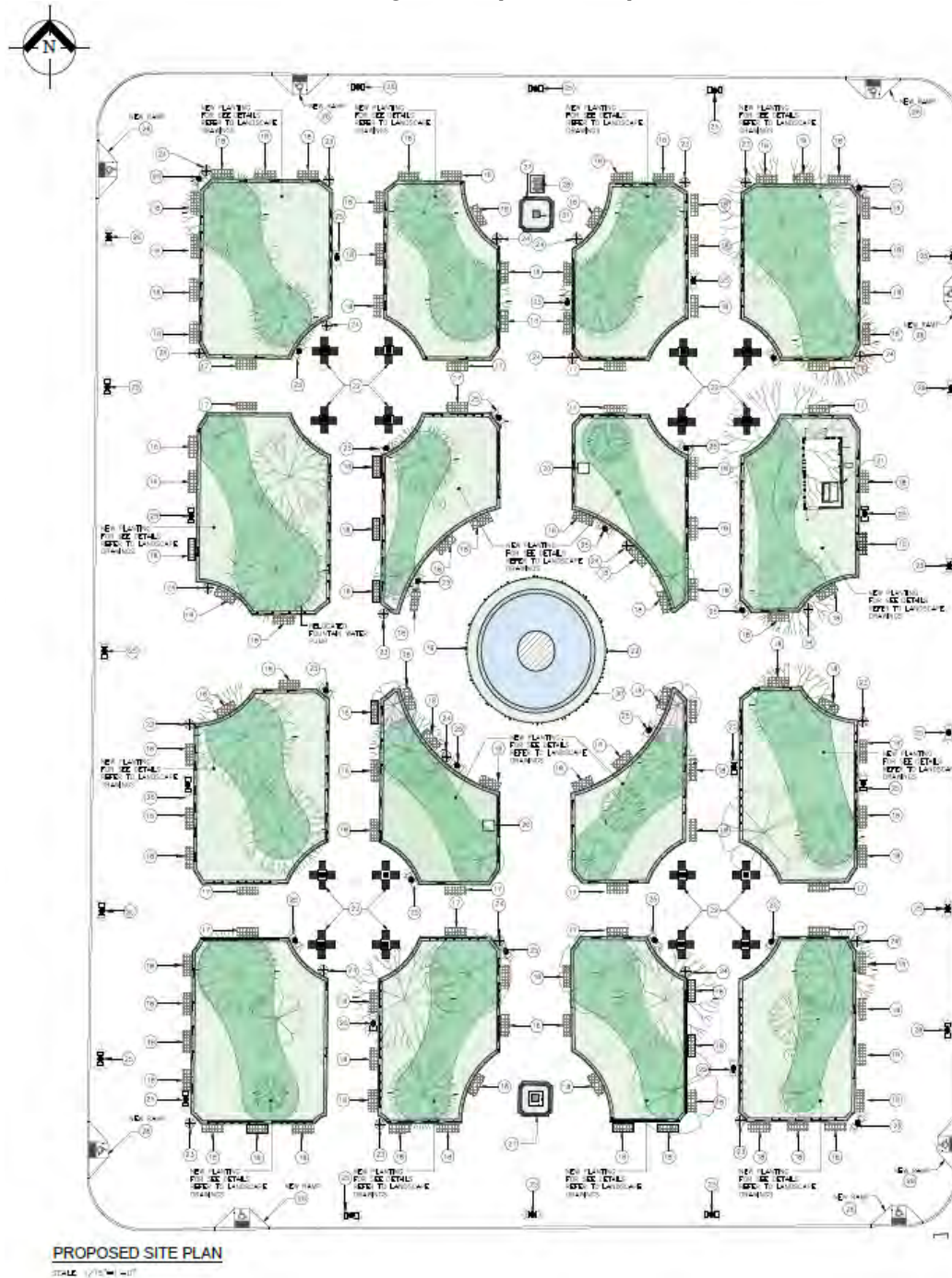


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446

Image C: Proposed site plan.



PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guayama	
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón	
Project Number: PR-CRP-000446	

1. Removal and replacement of the plaza floor slab:

All existing pavements will be demolished and removed due to cracks and spalling at control joints. Based on the square core, the existing floor finish is 1 inch thick and the floor slab underneath is approximately 9 inches thick. Therefore, it is recommended to remove only 1 inch of depth from the existing floor finish. The existing floor finish will be replaced with durable and visually appealing prefabricated tiles bearing an exposed aggregate finish, similar to the existing one, enhancing the longevity and visual appeal of the Plaza's surface. The pathways within the Plaza will undergo various improvements, including repaving or scarifying work to enhance their quality and safety. Since the existing floor is on top of an existing concrete slab, ground-disturbing activities will be kept to a minimum.

2. Ramps demolition and construction of new access ramps:

To enhance accessibility to the Plaza, the construction of new access ramps will be undertaken near historical structures and municipal areas to contribute to pedestrian crossing. These ramps will be designed to provide convenient and easy access for all visitors and comply with the ADA requirements. See **Image D** for the location of the ramps.

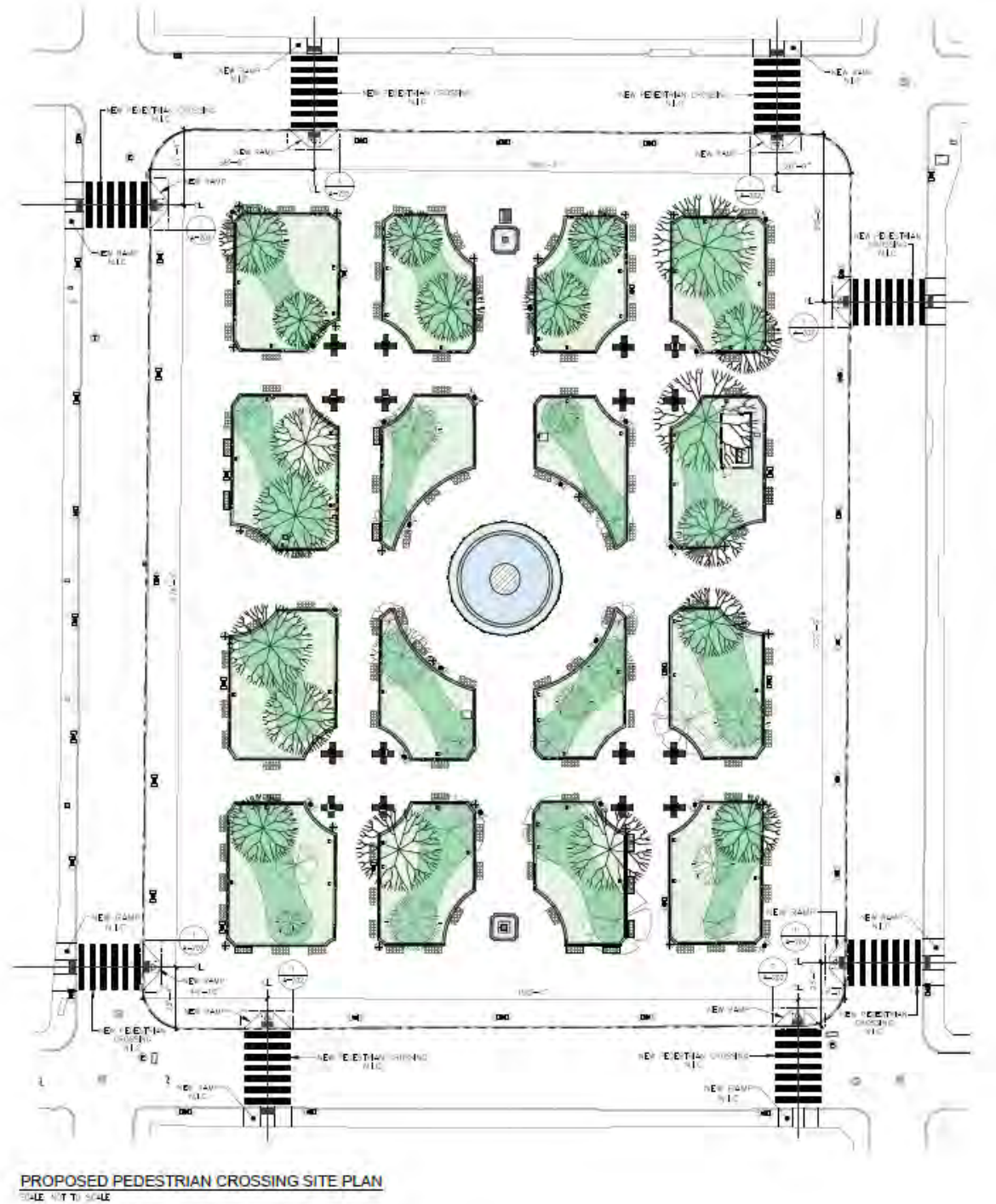


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446

Image D: Proposed pedestrian crossing site plan and access ramp location.

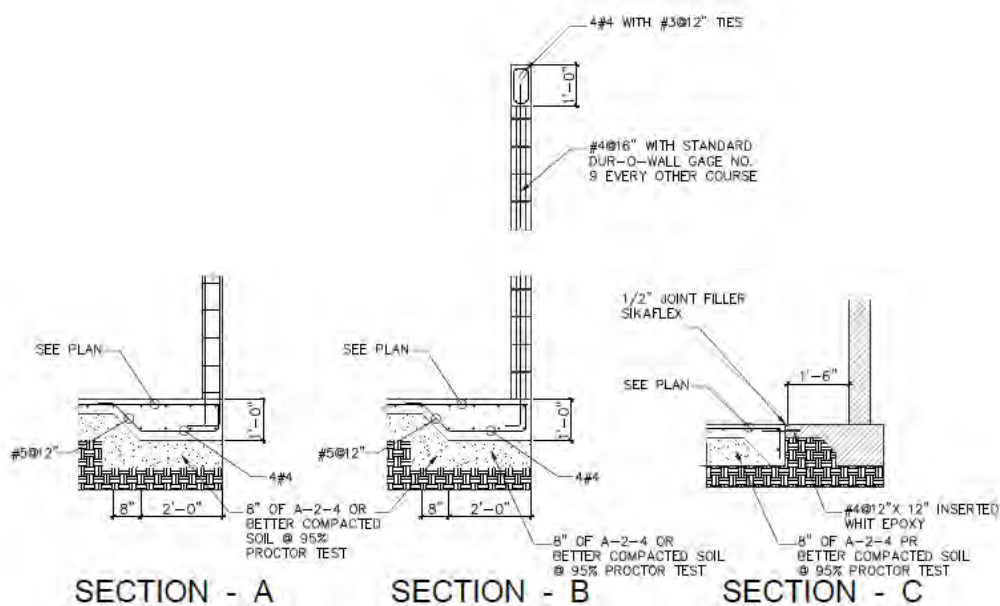


PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guayama	
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón	
Project Number: PR-CRP-000446	

3. Construction of walls at the electrical panel area:

Necessary excavations will be carried out for the construction of the proposed electrical room wall in the planting bed area. A maximum 12-inch-thick floor slab will be constructed for a block wall installation in the electrical room. An excavation is proposed in the electrical room for the construction of a footing to support a block wall with a column to provide security to the electrical panels. These footings will have a depth of 2 feet from ground level and a width of approximately 4 feet. **Image E** shows details of the wall to be constructed.

Image E: Section of the wall for the electrical panel room



4. Improvements to the existing fountain and relocation of the existing pump:

The refurbishing of the fountain includes the elements of the fountain, such as the cherubs and plates. The 3-inch diameter storm sewer line that runs from the fountain valve box through the catch basin adjacent to the street will be replaced by a 4-inch PVC pipe. The pumping system will be replaced and relocated to one of the planting beds. This relocation will require excavation, filling, and installation of new pipes. The dimensions of the new pump are approximately 5 feet long, 4.5 feet wide, and 3.25 feet deep. The entire irrigation system inside all planting beds that go through the main city water valve will be demolished and its irrigation lines will be replaced. The mechanical system of the fountain will be restored to its optimal functioning state,



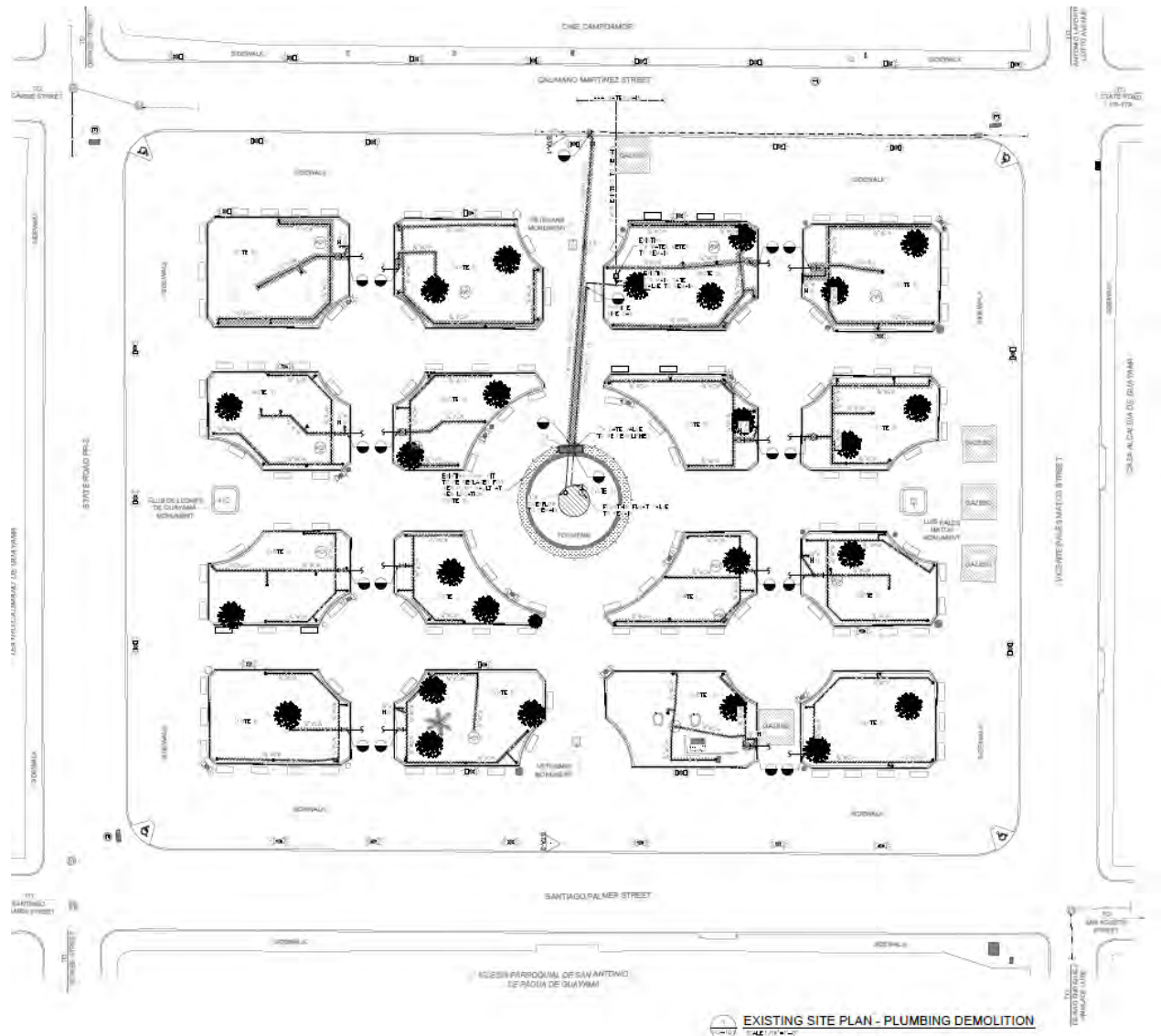
Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446

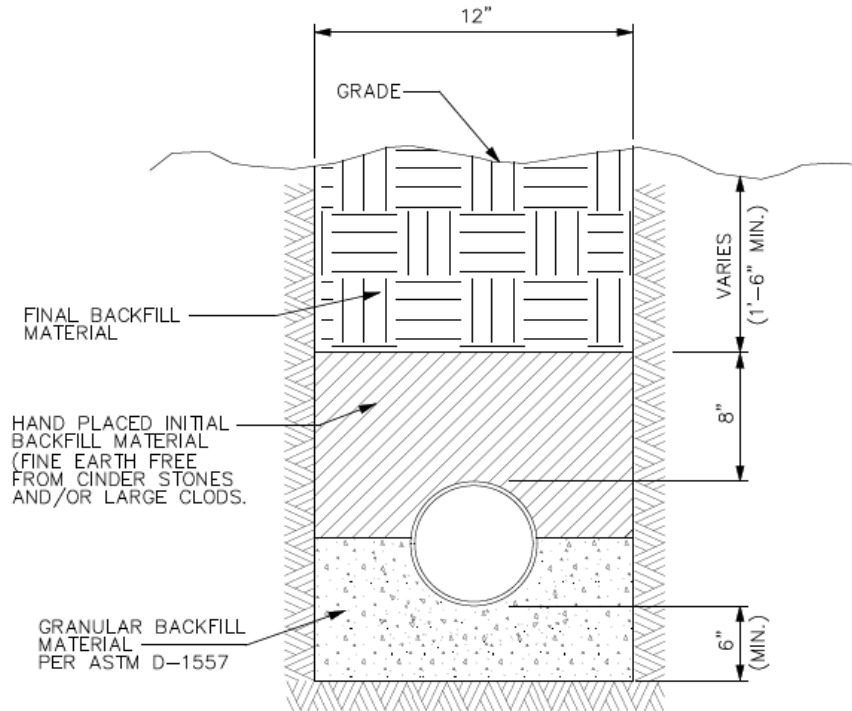
becoming a captivating centerpiece within the Plaza. **Images F and G** show details of the plumbing demolition plan and pipe excavations.

Image F: Existing site plan. Plumbing demolition.



PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guayama	
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón	
Project Number: PR-CRP-000446	

Image G: Section for the pipe excavation and replacement

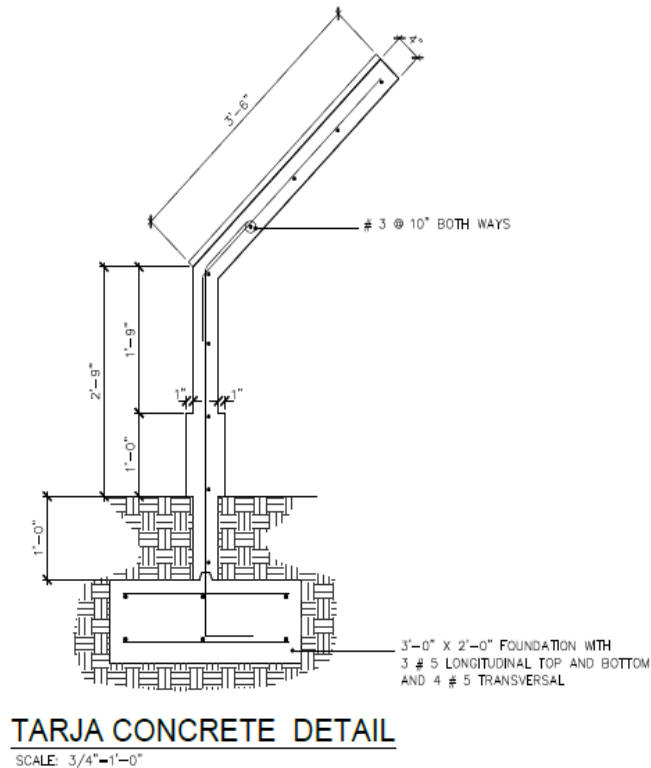


5. Relocation of existing monuments:

Monuments within the Plaza will undergo restoration and renovation to preserve their historical significance. The pedestals of two of the four monuments will be relocated. This relocation will require the construction of two new pedestals with footings approximately 3 feet deep, 3 feet long and 2 feet wide. See **Image H** for details of the monument “tarja” (base).

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Image H: Tarja concrete detail.

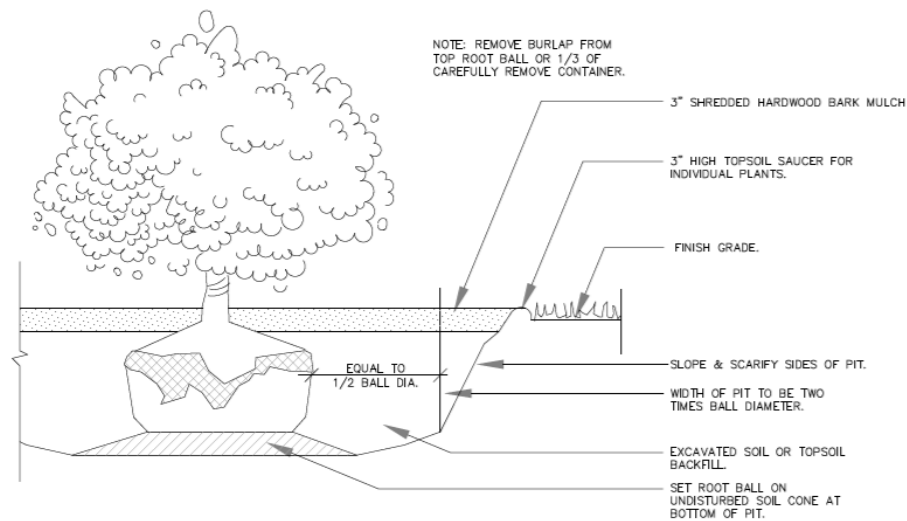


6. Tree planting and vegetation:

A planting initiative will be implemented to improve the aesthetics and greenery of the Plaza. Additional trees will be carefully selected and planted in the planting beds, filling the empty spaces left by fallen trees and enhancing the overall beauty of the Plaza. The trees proposed to be planted will be from 8 to 10 feet tall, requiring an excavation of approximately 2 to 3 feet deep. These trees are planned to be planted in four of the planting beds closest to the fountain and in the one that is South of the Plaza. The planting beds are approximately 1 foot high, so only 2 feet of additional excavation below the existing floor finish will be required to plant the trees. See **Image I** for details.

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Image I: Tree planting details



7. Installation of the irrigation system:

The electrical and irrigation systems of the planting beds will be replaced, existing piping will be removed, and new piping will be installed with a minimum depth of 1'6" and a maximum depth of 2'6", being upgraded for improved functionality. In addition, it is proposed that all the soil from the planting beds be removed, the pipes be replaced, new topsoil, and new plants and grass. The sprinkler system and receptacles will be repaired to ensure proper irrigation and functionality.

8. Installation of sound and lighting system:

To create a vibrant ambiance and provide opportunities for events and performances, a lighting and sound system will be installed in the planting beds area. To enhance visibility, safety, and security during evening hours, a strategic installation of solar lighting will be installed throughout the Plaza. A new lighting system and sound system will be installed in the gardens.

9. Replacement of trash cans and refurbishing of existing benches:

The existing wood of the benches will be replaced with 2"x2"x6' composed wood. The metal parts will be cleaned with a wire brush, primed, and painted. The trash cans will be replaced, and new tables and chairs will be installed.

10. New curb construction:

A new curb of 2 feet wide will be built around the plaza.

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11. Planting bed walls and fence repairs:

The historical elements of the Plaza will be restored. The walls that delimit each planting bed will be repaired, and the ornamental fences on their perimeter will be repaired and then painted. Topsoil will be placed in all planting beds, and the proposed plants will be planted. Two concrete bases will be constructed with foundations 2 feet deep for the installation of two existing sinks in the project.

Other excavations for the trenches of the electrical, potable, sanitary, and sound pipes will have a maximum depth of 2 feet.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the Area of Potential Effect (APE) is the geographic area or areas within which the development may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and scope of the work, the Program has determined that the direct APE for this project is 1.77 acres (7,150.537 sm), with dimensions of approximately 98 meters in length and 75.3 meters in width. Demolition activities are limited to the footprint of the existing Plaza, surrounded by the following streets: Vicente Palés Matos to the north, Eleuterio Derkes to the south, Santiago Palmer to the east, and Calimano Martínez to the west. The direct APE of the project area is within the Guayama Traditional Urban Center, property eligible to the National Register of Historic Places under the US Department of the Interior and also designated as a historic zone by the Puerto Rico Planning Board since 1992.

The visual APE encompasses the viewshed of the proposed project, including the facades of the buildings that face the Plaza, its intersections, and the areas where new structures or elements that impact the urban landscape will be constructed and installed. The Visual APE measures approximately 350 meters in length and 323 meters in width, covering an area of about 113,050 square meters. The project can be observed from Santiago Palmer (east), Vicente Palés Matos (north), Derkés (south), and Calimano Martínez (west) Streets, approximately 20 meters away from the plaza. The visual APE comprises an urban architectural context of commercial, institutional, and residential buildings dating from approximately the late 19th century to late 20th century. In this case, buildings such as the Municipal Hall, Campoamor Theater, San Antonio de Padua church, Calimano Theater, and Casa Museo Cautiño (NRHP listed) can be distinguished. The properties vary from one to three levels. The materiality of the building structures ranges from brick to concrete, including wood and metal in some cases. The context exhibits such architectural style elements as neoclassical, traditional architecture (vernacular), neo-Romanesque, modern, and many others.

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Historic Background

“This is one of the prettiest plazas on the island, the flowers are unusually well kept and the Cathedral is considered the finest on the Island” (1899, Photogravures of picturesque Porto Rico).

The Guayama region, located on the southeastern coast of Puerto Rico, has a rich pre-Columbian history that dates back several centuries before the arrival of Europeans. According to Sued Badillo (1989, p. 20) in his work *Guayama: Notas para su historia*, this area has been inhabited since approximately 325 BC. The first inhabitants of Guayama belonged to archaic cultures characterized by a subsistence economy based on hunting, fishing, and gathering fruit. Over time, these communities evolved into more complex societies, such as the Taíno culture, which predominated on the island during European contact. The Taínos were farmers, potters, and navigators, organized into chiefdoms under the authority of a cacique. Guayama derives its name from Cacique Guayama (Sued Badillo, 1989, p. 22).

The town of Guayama was founded in 1736². In the text of Iñigo Abad y Lasierra, 1778, the author describes the city as consisting of 200 grouped houses arranged around a square, with the plaza and the church located at the center. He also describes its material composition, like that of the bohíos, as a form of adaptation to the island's climate, following the constructive traditions of the Taínos.

(...) Este Pueblo de Guayama es el primero por esta costa desde la ciudad de Puerto Rico, que tiene sus casas congregadas; y serán hasta 200, formadas en un espacio cuadro, dejando su iglesia y plaza en el centro (...) La fábrica de las casas de este pueblo, y aún de toda la isla, excepto las de la capital, está ideada con consulta de la necesidad de materiales, temperamento del clima y circunstancias del país. Son con poca diferencia como las que tenían los indios

² From its foundation until the beginning of the 19th century, Guayama's economy was focused on small fruits, tobacco, cattle, sugar cane, and coffee, among others. The sugar plantation economy proliferated in the coastal zone of the island. Guayama was one of the most significant centers of this economic sector, which peaked in the 19th century. During this period, Guayama also participated in producing coffee, tobacco, and other minor crops, although on a smaller scale (Tirado, Alexis, 2024). The presence of numerous haciendas, centrals, and colonies—primarily sugarcane plantations—highlights the historical significance of Guayama. Twenty-one haciendas have been documented as historic resources in the SHPO inventory. Some of these haciendas and sugar mills played a crucial role in sugar production, including the Guamaní sugar mill and the Machete sugar mill, both from the 20th century. Other notable haciendas, such as Hacienda Carlota, Hacienda La Tuna, and Hacienda Vives (also known as La Esperanza), date back to the 19th century. The latter hacienda is listed in the U.S. Department of the Interior's National Register of Historic Places (*Resumen Arqueológico del municipio de Guayama. Sitios Arqueológicos de Guayama. OECH*).

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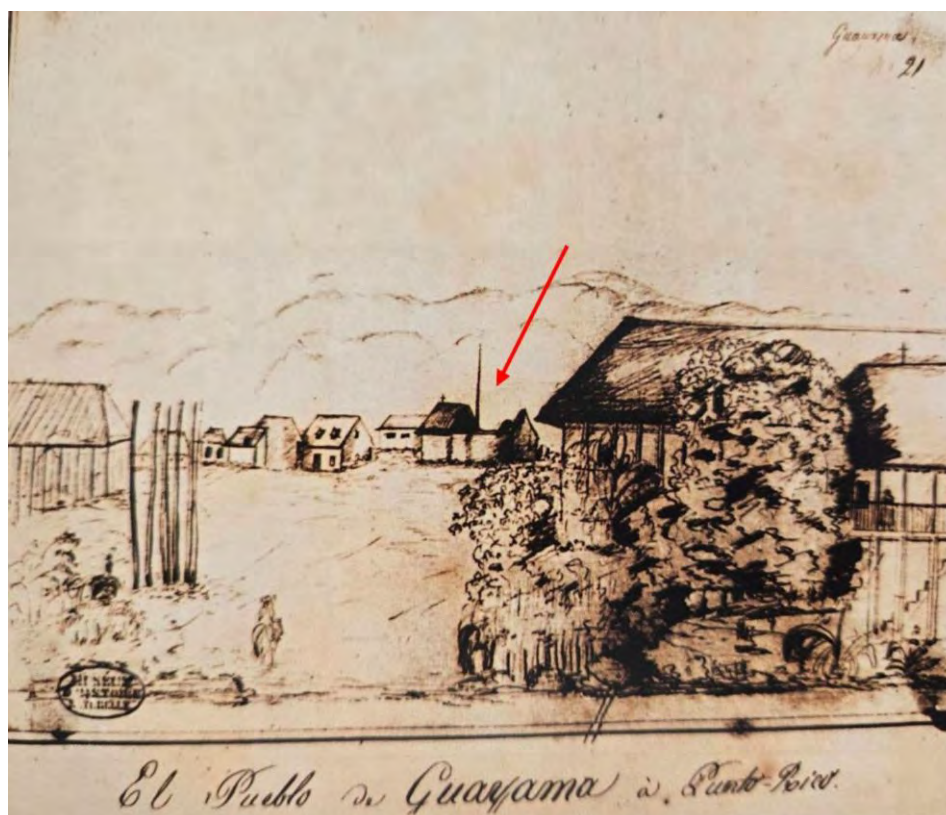
naturales de la isla, de quienes sin duda aprendieron los españoles su construcción³.

A few years later, in his work, *Memorias Geográficas, Históricas y Estadísticas de la Isla de Puerto Rico* published in 1824, Pedro Tomás de Córdoba describes Guayama as a town with significant agricultural value and notable advancements in this sector of the economy. He also emphasizes that the condition and structure of its roads were superior to those in other parts of the island. The Catholic church in Guayama was also established in 1736, and dedicated to San Antonio de Padua. The original structure underwent reconstruction between 1827 and 1873, although the temple was inaugurated this year (1873) without the northern chapel of the atrium. Between 1876 and 1899, various storms and hurricanes caused damage to elements of the building, including the rose window, lantern glass, and lead sheet roof. Around 1920, the original roof was replaced with concrete. Plee's 1821 drawing shows the church without a roof and a general overview of the composition of the village. (Figure 1). In 1840, the town featured a king's house, a town hall, a jail (all made of wood), and two schools.

³Sepúlveda Aníbal, 2004

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Figure 1. 1821. Drawing by Augusto Plee. The drawing shows the roofless church before the reconstruction of 1827. (Source: Sepúlveda Aníbal, V1, p.91).

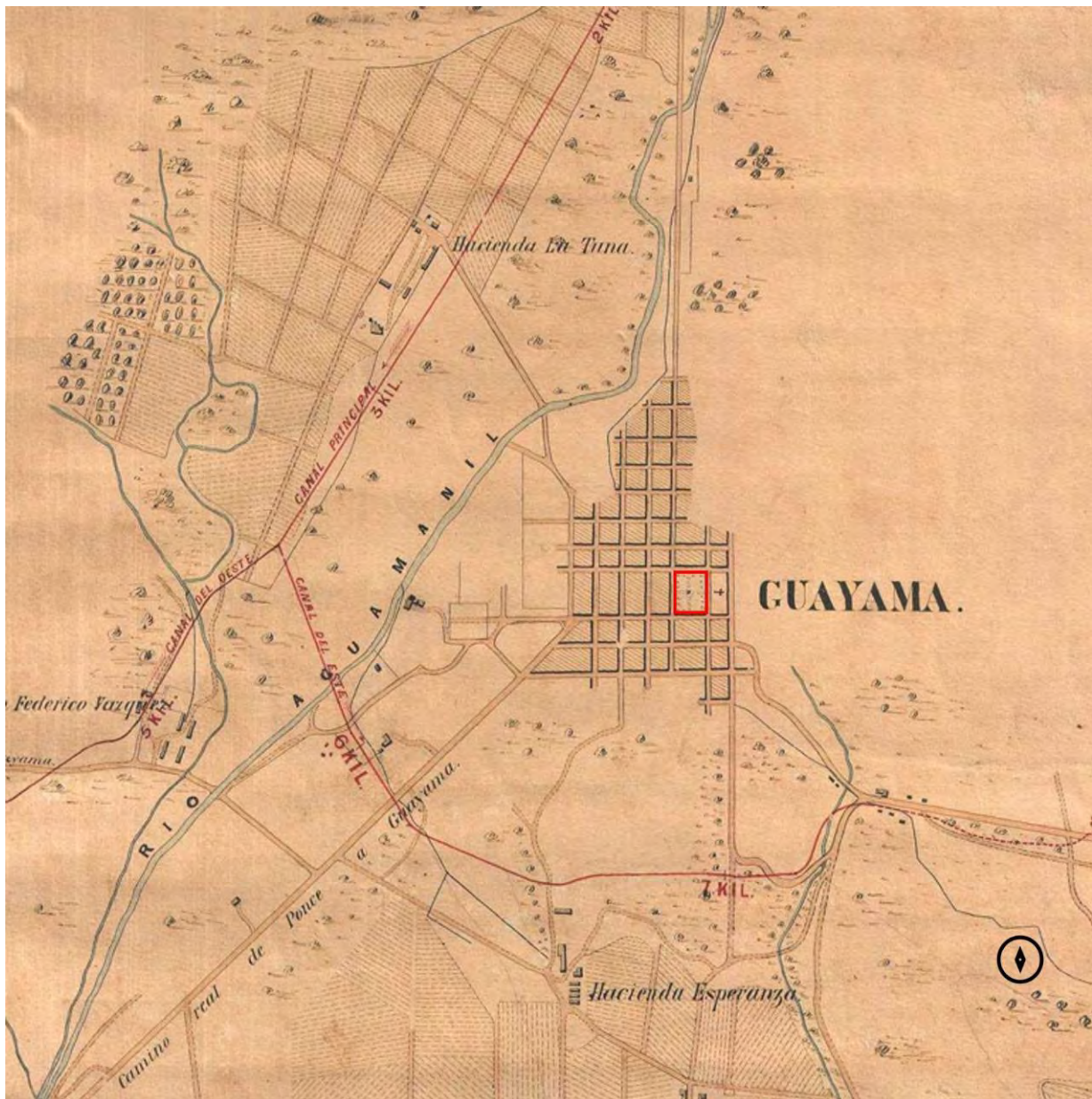


On April 11, 1832, a major fire destroyed two-thirds of the town's houses and the Hacienda de la Tuna. This event prompted a reconfiguration of the urban layout; the streets were spaced out and arranged in a linear pattern (*Calles espaciadas y tiradas a cordel*)⁴. An existing map of Guayama, created in 1865 as part of a plan for irrigation canals in the region (Figure 2), illustrates the urban grid consisting of six streets running north to south and twelve streets running east to west. The grid is bordered on the west by the Camino Real, the main road connecting Ponce to Guayama. Between 1865 and 1884, the city expanded westward. By 1884, a map of the city showed nine streets running north to south and twelve streets running east to west (Figure 3).

⁴ *Leyes de los Reynos de las Indias*, 1774.

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Figure 2. 1865. Guayama, Proyecto de Riego de Guayama hasta la hacienda Bayrie (Plan detail). Project parcel location is highlighted in red. (Source: Archivo Nacional Digital de Puerto Rico).



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Figure 3. 1884, sketch of the town of Guayama by Francisco Larrea y Liso and Manuel Moriano y Vivó. Project parcel location is highlighted in red. (Source: Aníbal Sepúlveda Rivera, Puerto Rico urbano: Atlas histórico de la ciudad puertorriqueña, Vol. 3: p. 182)



The Aguamanil River, located to the west and flowing north to south, served as a physical barrier to further development in that direction. This condition favored the use of the southeastern lands for the city's expansion, reaching more than two hundred blocks in the 1913 regulatory map (Figure 7). According to this map, although part of the blocks were not urbanized (Ejido area), it was already a city of great magnitude compared to others on the island at that time. Some of the structures or buildings identified on this map are the Aqueduct (northeast of the Plaza), Jail (northeast of the Plaza), Future Municipal Department (northwest of the Plaza), Train Station (West of the Plaza), Old hospital (Southwest of the Plaza), Municipal

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Hospital (Southwest of the Plaza), Church and City Hall (North of the Plaza), Catholic Church (East of the Plaza), Washington School (Southwest of the Plaza), Market Square (Southwest of the Plaza) and Derkes School (Southeast of the Plaza). The location of the cemetery built in 1844 (Sepúlveda, 2004, V3, p. 183. Also present on 19th-century maps) and the railroad tracks to the west of the town can also be defined (Figure 7). Although it does not appear on this map, there is evidence of the location in front of the plaza of the military barracks of the U.S. troops (Figure 7)

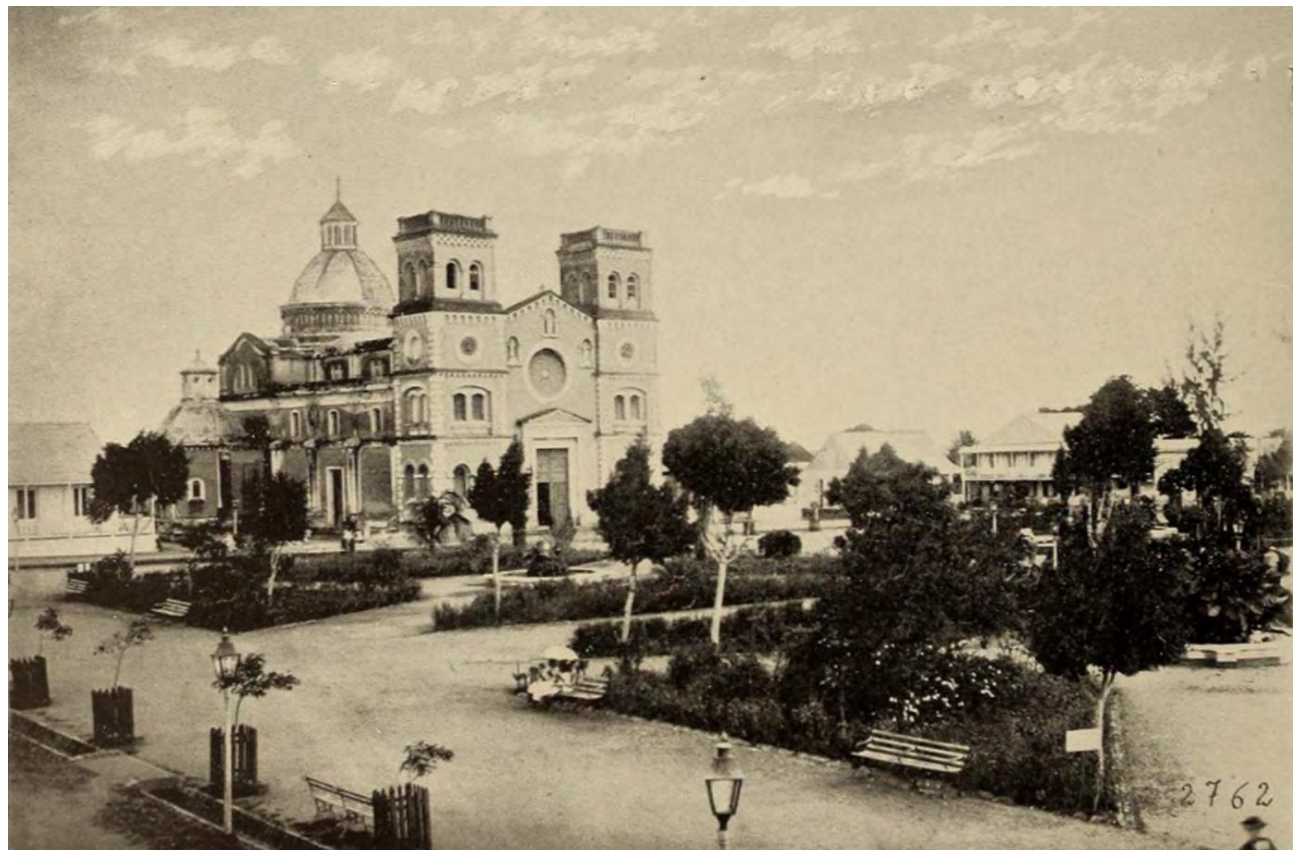
Two details stand out in the 1899, 1900, and 1910 images (Figures 4, 5, 6). First is the description of the square, which emphasizes its significance on the island: *"This is one of the prettiest plazas on the island, the flowers are unusually well kept and the Cathedral is considered the finest on the Island"*. Second is the detail regarding the drains along the edge of the square, which are constructed from bricks and feature small bridges for access into the square area. Another detail that can be observed in these historical images is the materiality of the square's floor, apparently rammed earth-leveled with the surrounding streets. At the beginning of the 20th century, maps depicted the square's parterre-shaped design organized along two main axes (north to south and east to west). An 1899, 1900, and 1910 photograph and a 1922 map (Figure 8) illustrate the triangular arrangement of the plant beds and the central fountain is further confirmed by a photograph of the plaza taken in 1910.⁵ A 1930s picture and 1940s plan present a plaza floor layout reflecting the Beaux-Arts style, which suggests that between 1922 and 1930 the square was rehabilitated. The floor of the square was replaced with concrete, and the planters were modified in both shape and quantity, resulting in 16 planters that are still preserved today. Additionally, the side drains were covered, and new elements, such as street lamps, were added to the street furniture (Figures 9-13). This period aligns with the introduction of the architectural and social principles of the City Beautiful Movement in Puerto Rico. The construction of Luis Muñoz Rivera Park in Puerta de Tierra in 1926 by the firm Bennett Parson & Frost marked the beginning of this movement's development on the island⁶.

⁵ According to A M'Mahon, Bernard, 1806 (p.67), *"A parterre, is a spacious level plot of ground, divided into many partitions, of different figures and dimensions; by means of edgings or lines of dwarf-box, &c. or by verges of grass-turf, and tracks of sand, fine gravel, shell, and scroll-work, &c"*.

⁶ United States Department of the Interior. National Register of Historic Place Registration Form. *Luis Muñoz Rivera Park*.

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Figure 4. Ca. 1899. Cathedral and Plaza of Guayama (Source: Photogravures of picturesque Porto Rico, The Library of Congress. [Photogravures of picturesque Porto Rico : Free Download, Borrow, and Streaming : Internet Archive](#))



Cathedral and Plaza, Guayama.

This is one of the prettiest plazas on the Island, the flowers are unusually well kept and the Cathedral is considered the finest on the Island.

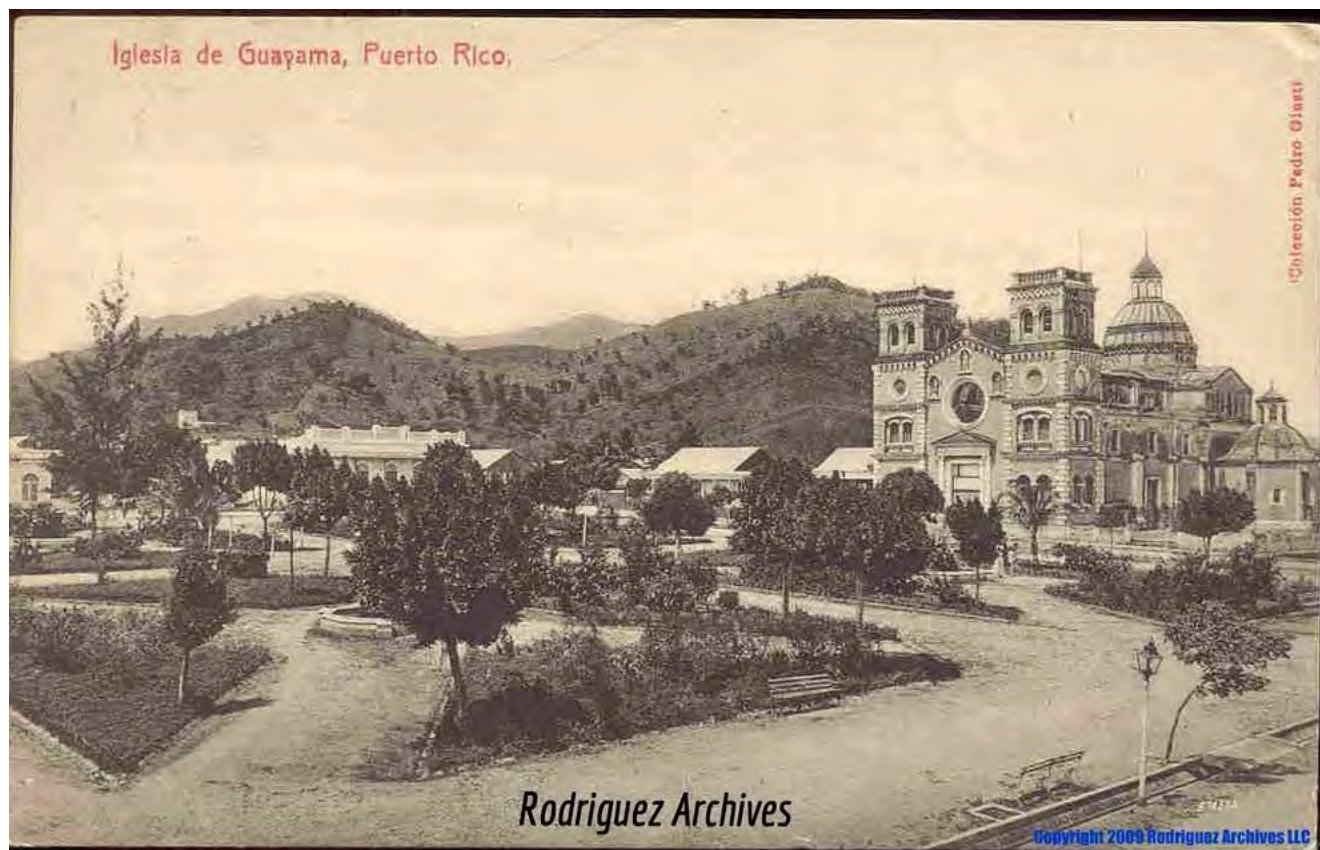
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Figure 5. Ca. 1900. The Cathedral and Public Square at Guayama, Porto Rico. (Source: Archivo histórico y fotográfico de PR)



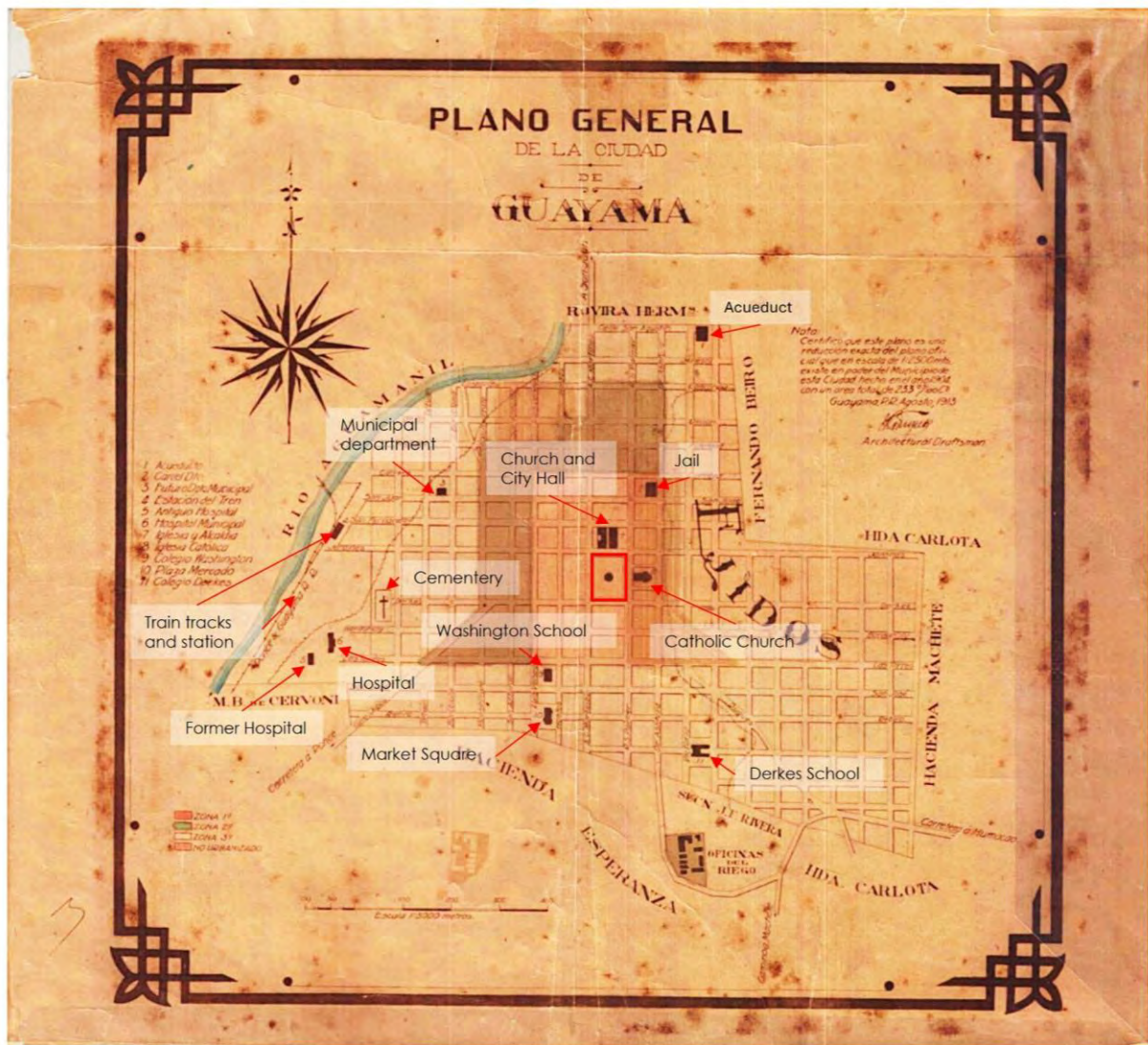
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Figure 6. 1910, Plaza de Guayama. Source: Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>.



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Figure 7. A: 1913, *Plano General de la ciudad de Guayama*. Project parcel location is highlighted in red. (Source: Archivo Nacional Digital de Puerto Rico). B: 1901. *Cuartel Militar Americano* (Source: Sepúlveda, 2004. P. 186)



A

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B

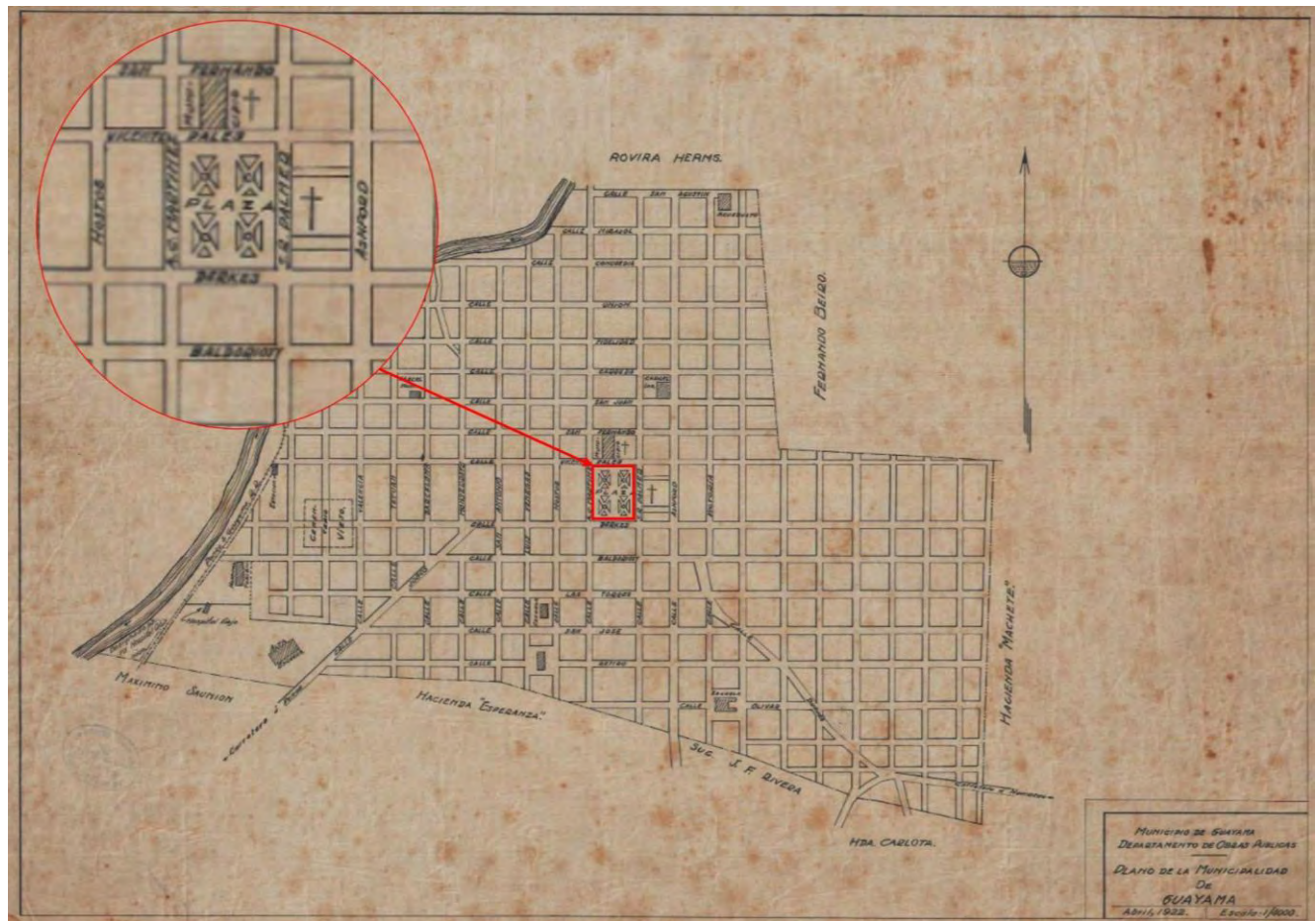


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Figure 8. 1922. Guayama Municipality, Department of Public Works. Project parcel location is highlighted in red (Source: Archivo Nacional Digital de Puerto Rico).



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Figure 9. Ca. 1930, Plaza de Guayama (Source: Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>)



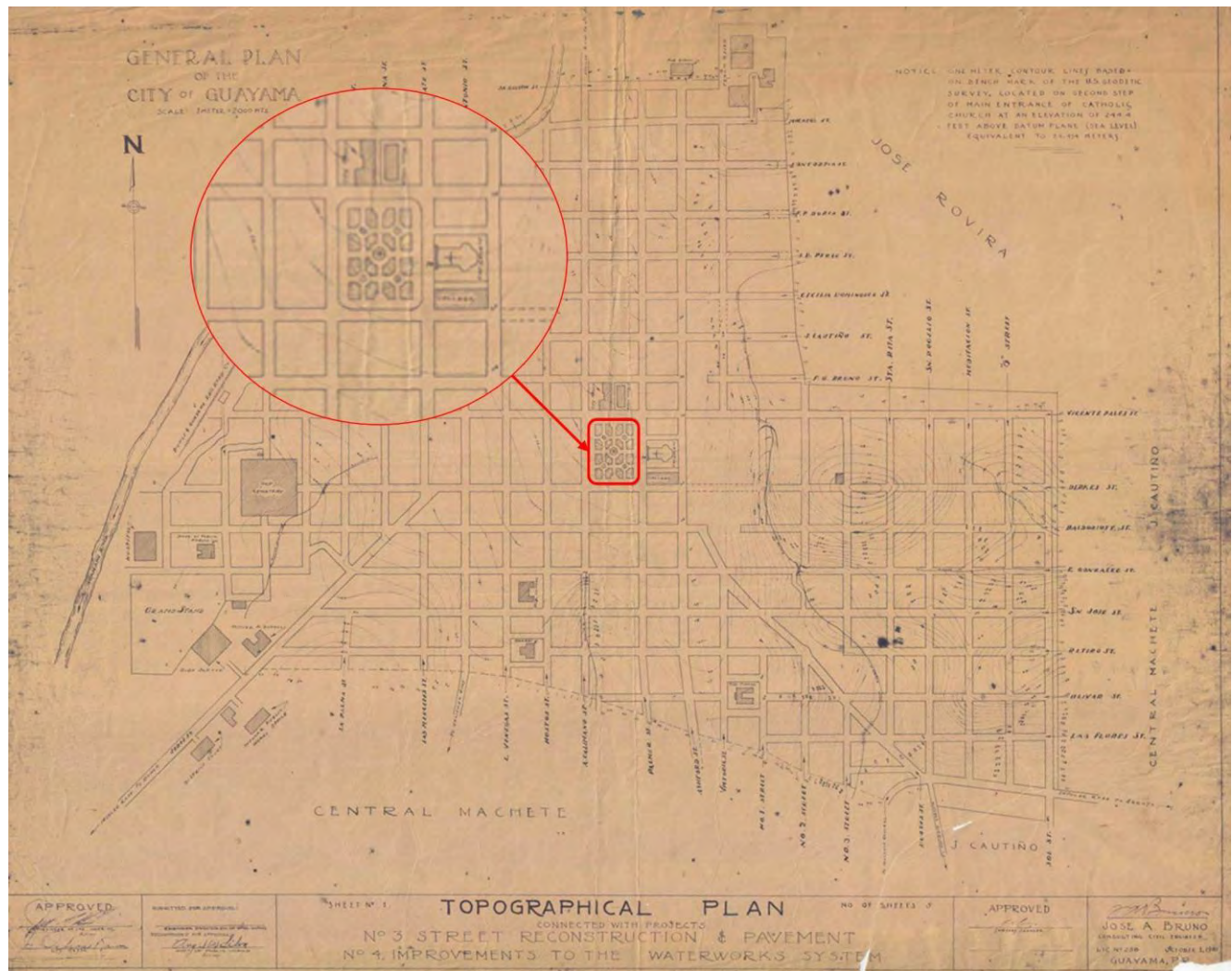


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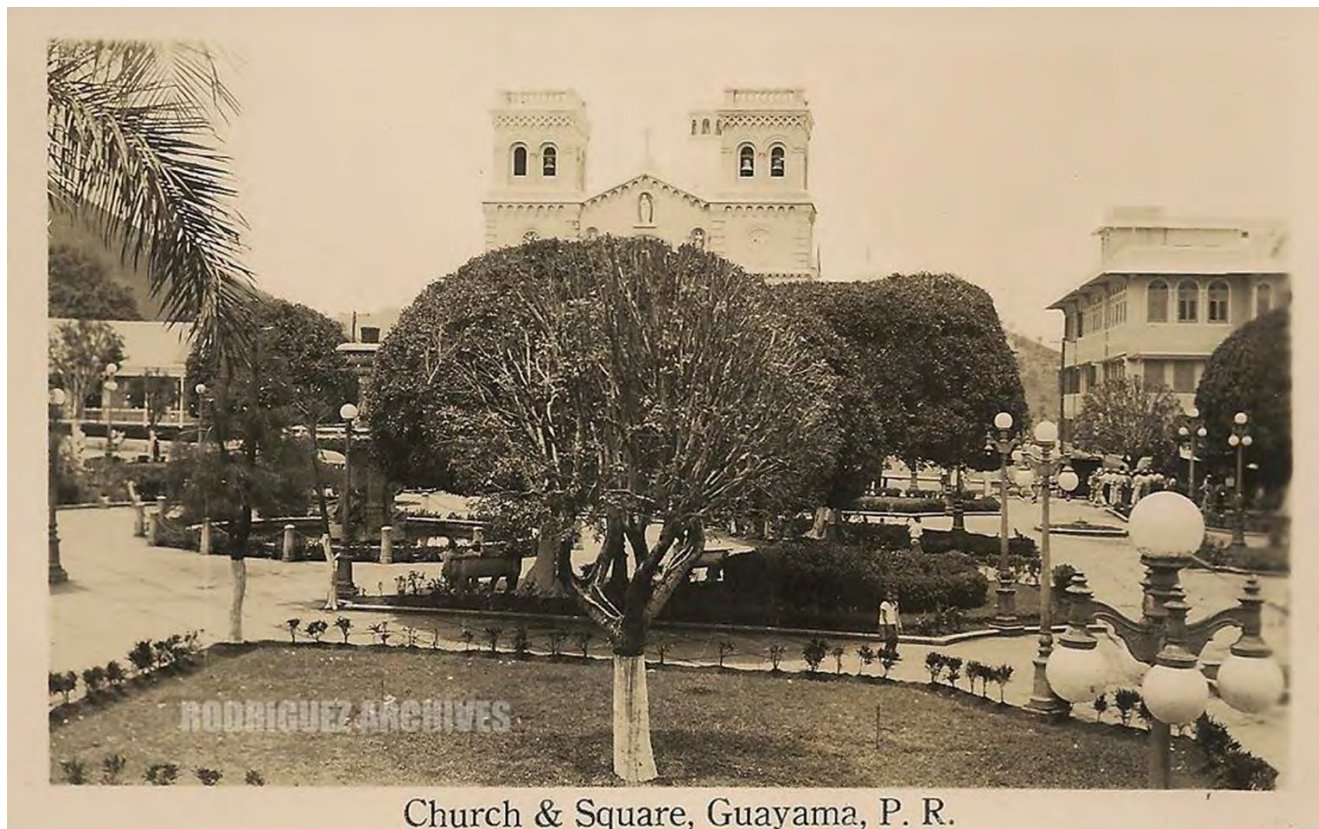
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Figure 10. 1940. General Plan of the City of Guayama. Project parcel location is highlighted in red.
(Source: Archivo Nacional Digital de Puerto Rico).



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Figure 11. Ca. 1930, Plaza de Guayama (Source: Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>)



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Figure 12. Ca. 1930, Plaza de Guayama. (Source: Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>).



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Figure 13. Ca. 1930-1940. A: Plaza de Colon showing City Hall, Guayama and buildings surrounding the Plaza. B: Detail City Hall, Guayama. C: Casa Parroquial, Guayama. D: Iglesia Metodista, Guayama. (Source: Archivo Histórico Fotográfico de Puerto Rico, obtained from <https://www.flickr.com/photos/11592485@N04/>).



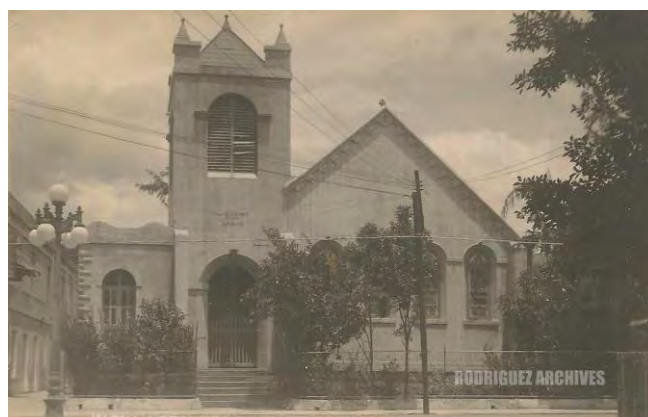
A



B



C



D

From 1930 to 1970, Guayama's urban development significantly transformed from a mainly agricultural economy centered on sugar production to an industrial one, greatly altering its urban and social structure. In the 1930s, Guayama's economy was primarily based on agriculture, especially sugar cane. However, the Great Depression had a significant impact on the local economy, leading to labor movements and an increasing recognition of the need to diversify economic activities. During this period, urban infrastructure remained largely unchanged (Figure14). The onset of World War II and the subsequent years brought notable changes. Under the Industrial Development program, the Puerto Rican government encouraged industrialization to revitalize the economy. In Guayama, this initiative led to the establishment of new industries and the expansion of urban infrastructure to support a growing

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industrial workforce. Between 1951 and 1967, significant urban development occurred to the east and south of the urban center, resulting in the creation of new industries, single-family homes, and public housing (Figures 1 and 16). Industrialization peaked in Guayama with the establishment of petrochemical complexes, such as the Phillips Petroleum Company, in 1968. This industrial growth attracted many workers, leading to increased urbanization and expansion of the city. New housing developments were constructed, and road infrastructure was improved to better connect the industrial areas to the urban center (The 1946, 1952 and 1962 historical topographic maps can be found in Other Maps section of this document, pages 68-70).

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Figure 14. 1937. East of the Guayama center. Note that the area of the Ejidos mentioned in the 1922 map continues to develop slowly in the late 1937s (Source: DTOP, Puerto Rico).



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Figure 15. 1951. Guayama Urban Center. (Source: DTOP, Puerto Rico).



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Figure 16. 1967. Guayama Urban Center. (Source: USGS Earth Explorer)



Between 1970 and 1990 Guayama's urban development continued to be shaped by the industrialization that had begun in earlier decades (Figures 17-19). However, the municipality faced economic and social challenges that impacted on its growth and urban planning. During this time, Puerto Rico experienced a slowdown in economic growth, which affected areas like Guayama. Despite having established industries, the local economy began to exhibit signs of stagnation. Additionally, this period saw a significant migration of residents to

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more developed urban areas or to the mainland United States in search of better economic opportunities. This migration adversely affected the socioeconomic development of Guayama and contributed to the rapid urban expansion that had occurred in previous decades.

The economic slowdown that began in the early 21st century has resulted in a deceleration of urban development (Figure 20), posing challenges for the planning and expansion of infrastructure, particularly in towns outside the island's metropolitan area. Furthermore, natural disasters, such as Hurricane Maria in 2017, have severely impacted the island's infrastructure and economy. Despite these difficulties, the historic center of Guayama has managed to preserve key elements of its history, which are significant to both society and the island's architectural heritage. The central plaza has maintained its architectural form since its remodeling in the early 20th century, and the historic center retains enough integrity to be recognized as an important part of the island's history).

Figure 17. 1977. Guayama Urban Center. (Source: USGS Earth Explorer)



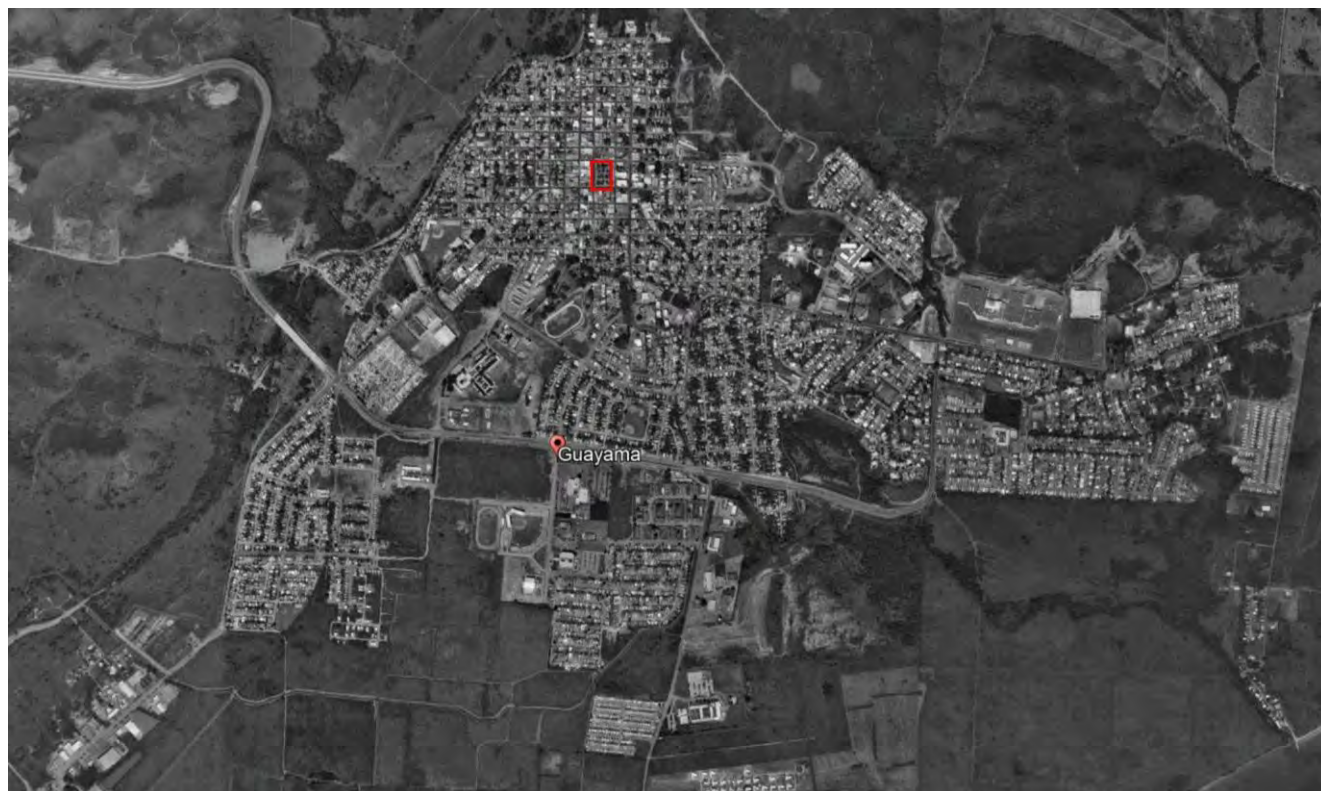
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Figure 18. 1983. Guayama Urban Center. (Source: USGS Earth Explorer)



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Figure 19. 1994. Guayama Urban Center. (Source: Google Earth)



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Figure 20. 2017. Guayama Urban Center detail. (Source: Google Earth).



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Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area, or direct Area of Potential Effect, is the Plaza de Recreo Cristobal Colón. Moreover, the review also shows that in the Plaza there is a recorded archaeological site and the plaza itself is a historic property, eligible to the National Register of Historic Places under criterion A and C, same as the Iglesia San Antonio de Padua which is less than a quarter mile of the APE. (see table 1) Eleven archaeological surveys have been conducted, of which seven were negative for archaeological resources, and four resulted positive for cultural resources.

The project area has been studied to prevent adverse impact to cultural resources of historical and prehistoric interest. This section discusses known archaeological resources within approximately ¼ mile radius of the APE. Through investigations in the inventories of the Puerto Rico State Historic Preservation Office (PRSHPO) and *Instituto de Cultura Puertorriquena* (ICP), the potential for damage to intact, historical or archaeological sites in the APE, with potential for investigation, as well as background impacts to the project area, were analyzed. A brief description was included of the identified archaeological resources, addressing site type, cultural association, artifacts, date/period, and distance to the APE. Previous archaeological investigations conducted for those sites, relevant to the discussion, were reviewed. (Table 2) Recorded historical resources identified in the archives were identified on a map and a discussion of the archaeological potential of pre-colonial and colonial resources was included.

Guayama is located in the eastern part of the geographic region of the Southern Coastal Plain of Puerto Rico. It has numerous bodies of water of great importance, among them are: Río Guamani, Río Seco, Lago Melanía, Laguna Las Mareas, the Carite Reservoir, and the Estuario de Jobanes. This significant ecological potential, along with its mangroves, keys, and reefs, made Guayama an ideal space for the first settlers to exploit the land in search of marine resources and raw material, as shown by the exploitation patterns of the archaeological sites in Puerto Rico and the Caribbean. This characteristic makes the area appropriate for human habitation. Through archaeological data, Guayama has evidenced that human groups from pre columbian cultures have settled in its territory.

Guayama has approximately a hundred cultural resources identified in the site files of the PRSHPO and ICP. The cultural resources investigation shows that five are historic structures located within the urban center of Guayama, eligible to the NRHP. These structures fall within the quarter-mile radius of the APE, being only one archaeological site reported (GY0100012/Antiguo Cementerio), which is also located in the project site according to the SHPO inventory. Nevertheless, historic documents indicate that the old cemetery was built in

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1844 (Sepúlveda, 2004, V3, p.183), and was located west on the outskirts of the urban center, as seen in the 1884 sketch map (Figure 3).

The area of the plaza and its surroundings have had numerous interventions that have required archaeological studies in some cases. Guayama, in general, has approximately 76 archaeological studies that have been carried out for different projects. As mentioned above, and following a quarter mile radius from the APE, eleven are relevant to the analysis in this document. In 1995, archaeologist Marlene Ramos conducted a Phase IA-IB study 0.01 miles southwest of the APE for the project *Apartamentos multipisos de vivienda social*, with negative results for cultural resources. That same year, Antonio Daubón made a phase IA 0.22 miles from the APE, for the *Urb. Estancias Vigía* project, with negative results as well. Information provided by Arch. Jorge Ortiz Colom, Conservationist of the *Instituto de Cultura Puertorriquena* indicates that in the year 2000, the floor slab of the plaza was replaced; and in 2001 and 2002, during construction works on the streets adjacent to the plaza, pre contact artifacts and complete human burials were identified.

In 2003, human skeletal remains were identified during archaeological monitoring works carried out by Virginia Rivera and Harry Alemán in the excavations made with heavy machinery for the project *Mejoras al soterrado mobiliario urbano*. These findings of human remains, or complete burials were recovered under Vicente Palés Matos Street. Vicente Palés street is located north of the Plaza, between Santiago Palmer and Calimano streets. This underground construction project did not include the Plaza.

During this same project, and under the intersection of the Vicente Palés street with Santiago Palmer street, specifically in front of Casa Cautiño, a cobblestone floor was found. In addition, human remains such as teeth, molars, and a fragment of a lower jaw were identified on the south side of Vicente Palés street, adjacent to Santiago Palmer street in front of Casa Cautiño as well. The excavation trench that was made along the west side of Santiago Palmer street (that runs 36.40 meters south from Vicente Palés Street), also identified an organized combination of human bones, called an ossuary. As a consequence, the archaeologist recommended that no further underground interventions be carried out on Vicente Palés street. Additionally, a cannon was also found under Calimano street. Following the same project on August 21, 2003, a 45 linear meters of an open-air trench had been excavated along Calimano Street, and no cultural remains of colonial materials were identified. However, brick fragments were observed in the profile of the trench slab. The concrete slabs of the streets were demolished and the sidewalks widened. The street around the square was left in a single lane. No other study related to this project was received by the *Consejo de Arqueología Terrestre*, and no other reports were provided on the excavations of the other streets.

Also in 2003, archaeologist Harry Alemán made a phase IA for five different lots in the urban center. The project *8 solares vacantes para diseño de unidades de vivienda*, consisted on the construction of structures for public housing at 0.19 miles SW, 0.23 miles W, 0.13 miles NW, 0.19

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miles NW, and 0.21 miles SE of the APE. The results of this archaeological study were negative to cultural resources.

In 2010, archaeologist Sharon Meléndez conducted a Historic Preservation Fund archaeological survey, funded by the National Park Service through the PRSHPO. The objective of this survey, called *Sitios Brujos: Reconocimiento General de Sitios Arqueológicos*, was to identify and update the data of the archaeological sites registered in Guayama. Part of this survey encompasses the boundaries of the historic zone (Figure 7). In the following year, Harry Alemán carried out a phase IA for the remodeling project of Guayama's City Hall, 0.01 miles N of the APE. As a result for this study, and because the city hall is a historic structure made of stone and brick, the report led to a recommendation that the project continues under the supervision of the ICP's program, *Patrimonio Histórico Edificado*. As the last archaeological report listed for Guayama, in 2012, archaeologist Alemán made another phase IA for the project, *Remodelación de la Casa del Rey*, 0.12 miles NE of the APE. This study was made to document the historic structure, also made of brick and stone. A phase IB was recommended, but not carried out, as the agency that evaluated the project endorsed it.

Based on the data presented, of previous archaeological investigations, registered cultural resources, and the project's development history, the APE shows to have high integrity and archaeological potential. It is understood that the proposed improvements for this project, as presented, have a high probability of affecting the integrity of the historic resources, both above and below ground, especially due to the use of heavy machinery to reach the estimated depths that some tasks required. The varied depths for these works are approximate and there is a risk of impacting remains such as, but are not limited to, human bones, mortar and masonry floors; as well as other historical materials related to the daily life of the military, and civilian occupants of the colonial area.

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Table 1: Archaeological Sites

Site Name	SHPO ID # Referenced Topographic Map Image # ()	IPRC ID # Code Number	Distance of proposed Project mi=miles mts=meters	Description	NRHP National Register of Historic Properties
Iglesia San Antonio de Pádua	GY0200031	GM-6	189.7 mts	Church, HG-4	Yes
Antiguo Cementerio	GY0100012	n/a	0.00	Old cemetery	no data

Table 2: Previous Archaeological Research Reviewed

Author/ Researcher	Year	Phase/Title	SHPO/IPRC code Num.	Results	Distance/ Direction
Sharon Meléndez	2010	Sitios Brujos: Reconocimiento General de Sitios Arqueológicos.	BCAT-312	Positive Reconnaissance general study only.	0.25 mi
Marlene Ramos	1995	Fase IA-IB Apartamentos multipisos de Vivienda social	GM-95-07-08 GM-95-07-09 (2nd)	Negative	0.01 mi W
Antonio Daubón	1995	Fase 1A. Urb. Estancias Vigía	GM-95-07-06	Negative	0.22 mi NE
Virginia Rivera y Harry Alemán	2003	Fase Monitoria Soterrado, Mobiliario urbano, mejoras carreteras, aceras	GM-03-16-03 SHPO: GY0078	Positive (historic) Ossuary (human bones) Stone and brick structure. Fragments of tiles and ceramics. complete burials. No more studies.	0.01 mi N, S, E and W.
Harry Alemán	2011	Fase IA Remodelación de casa Alcaldía	GM-11-20-05	Positive Historic material Stone and brick structure. Recommended remodeling of the structure continues under the supervision of the Patrimonio	0.01 mi N

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				Histórico Edificado program.	
Harry Alemán	2012	Fase 1A Remodelación Casa del Rey	GM-12-21-03	Positive Historic material Alemán recommended a Phase 1-B study, but the agency sent a letter of endorsement.	0.12 mi NE
Harry Alemán Five studies	2003	Fase 1A. 8 solares vacantes para diseño de unidades de vivienda	GM-03-14-05-1 GM-03-14-05-2 GM-03-14-05-3 GM-03-14-05-4 GM-03-14-05-5	Negative	0.19 mi SW 0.23 mi W 0.13 mi NW 0.19 mi NW 0.21 mi SE

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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 this current 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 undertaking will take place in a contributing site (*Plaza de Recreo*) of the **Guayama Urban Center** which is **eligible as a District to the National Register of Historic Places** (NRHP) and within the locally recognized Guayama Historic Zone by Puerto Rico Planning Board (1992).

It's important to emphasize that the island's plazas de recreo (recreational squares) are essential elements in the urban history of our island cities. Beyond their architectural significance, they have historically served as centers for social and cultural life in the island's towns. The Plaza Cristobal Colón is eligible for the National Register of Historic Places under criteria A and C. Additionally, it is a contributing site to the eligible Guayama Historic District. In Puerto Rico, there exists a notable relationship between the institutional and religious buildings located at the foundational centers of the cities and those surrounding the plazas, such as the mayor's offices and churches. Guayama is not exempt from this configuration. Surrounding the *Plaza de Guayama* are significant examples of Guayama's institutional, recreational, domestic, educational, military, and religious architecture; including the Municipal Mayor's Office, the Cautiño House (Casa Cautiño), the San Antonio de Padua Church (Iglesia Parroquia de San Antonio de Padua), the Calimano Theater, the San Antonio School, the Campoamor Movie Theater, The *Cuartel General de Tropas Estadounidenses*, and the First Methodist Church of Guayama.

It is important to note that Guayama has three properties listed in the National Register of Historic Places (NRHP). Two of them (Iglesia Parroquia de San Antonio de Padua, east, and Casa Cautiño (north), are in front of the plaza. The other listed property is located 0.25 miles southeast of the plaza (Eleuterio Derkes Grammar School). These three properties are described below:

1. **Iglesia Parroquial de San Antonio de Padua de Guayama** (visual APE) at 17.985223, -66.112944 (0.04 miles East of the APE) The structure was included in the National Register of Historic Places on July 30, 1976 (NRHP number 76002248) under criteria A and C. The San Antonio de Padua Parish Church features influences from both neo-Romanesque and Carolingian styles. Constructed in 1874, the church has a cruciform layout, consisting of three naves with arcades and two semicircular chapels at the ends of the transept, which are covered by domes. A large dome prominently highlights the space above the transept⁷ (architect unknown).
2. **Casa Cautiño** (visual APE) at 17.985833, -66.113297 (0.08 miles North of the APE) The

⁷ National Register of Historic Places, Nomination Form.

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Cautiño House in Guayama was included in the National Register of Historic Places on June 11, 1984 (NRHP number 84003137) under criteria C. The church was designed by architect Texidor and was built in 1887 for Don Genaro Cautiño Vázquez. This one-story structure features an interior patio and has a floor plan shaped like the letter "C." Its architectural style blends neoclassical elements with French rococo influences. Currently, it serves as a museum.⁸

3. **Eleuterio Derkes Grammar School** at 17.981983, -66.111782 (0.25 miles Southeast of the APE) The Eleuterio Derkes School, also known as the Magueyes School, was included in the National Register of Historic Places on April 8, 1987 (NRHP number 87001312) under criteria C. The school was constructed in 1908 in Guayama. While the architect of the building remains unknown, the contractor was Antonio Higuera, who served as the head of the School Buildings Division under the Commissioner of Education during the early 20th century. The school features a C-shaped floor plan and neoclassical elements on its façade. The structure is elevated on a podium, and the main entrance is accentuated by a staircase, pilasters, and a pediment.⁹

Additionally, there are 25 NRHP-eligible properties within ¼ mile radius of the Guayama Traditional Urban Center, including the *Plaza de Recreo Cristóbal Colón* which is individually eligible to the NRHP (Table 1). The architecture of Guayama, established in 1736 and continuing to the present day, showcases an evolution shaped by various styles and historical events that influenced its urban development. This evolution includes a strong Spanish influence prior to 1898, followed by the impact of the United States after that year. The city's buildings reflect a range of architectural styles aligned with the trends of their respective periods. These styles vary from modest vernacular structures to significant institutional and religious buildings, including neo-Romanesque, neoclassical, modernist, art deco, and Romanesque, among others, which together define Guayama's architectural landscape.

As mentioned in the historical background, the fire of 1832 devastated a significant portion of the city, leading to a reconstruction that utilized more durable materials and emphasized better urban planning. During this time, notable buildings, including the Church of San Antonio de Padua, were constructed. In the 20th century, architecture experienced a diversification of styles in response to new trends. A prime example is the Cautiño House, designed by the Guayamese architect Manuel Texidor and built between 1882 and 1887. Puerto Rican architecture incorporates local stylistic and material adaptations, making it challenging to categorize buildings strictly within specific architectural styles, and Guayama exemplifies this diversity. The area surrounding Plaza Colón in Guayama features a mosaic of buildings that retain their historical significance and integrity. Among these are the City Hall, the parish house, the first Methodist church of Guayama, the Cautiño house, the Church of San Antonio de Padua, the Calimano Theater, the San Antonio School, and the old barracks of the U.S. troops.

⁸ *Ibidem.*

⁹ *Ibidem.*

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Table. 1 NRHP listed and eligible historic properties within a quarter-mile radius of APE¹⁰

Image	Coordinates	Address	Name	Date	NHRP
	17°59'06.8"N 66°06'48.8"W		Plaza de Recreo Cristóbal Colón	It features laurels from India, a fountain donated by the Cautiño family that was brought from France in 1918, several monuments a bust of Luis Palés Matos.	Eligible under criteria A, B, C and D
	17°59'06.8"N 66°06'46.6"W	#5 Ashford Street	San Antonio de Padua Church	1874. Neo Romanesque structure. It was first constructed in 1736 of masonry and wood. It was rebuilt twice in the 19th century. Designer unknown.	Listed in 1976 under criteria C.
	17°59'09.0"N 66°06'49.3"W	Vicente Palés Street	City Hall	Originally constructed in 1916 and renovated in 1920, it features elements of classical architecture and resembles Arroyo City Hall.	Eligible under criteria C

¹⁰ Some of the information presented in the table was obtained from: *Eligible properties of Guayama, SHPO*.

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	17°59'07.0"N 66°06'50.9"W	Calimano Martínez street	Cine Campoamor	1920. It has both classical and modernist elements.	Eligible under criterion A and C
	17°59'09.0"N 66°06'47.9"W	#1 Santiago Palmer street corner Vicente Palés street	Casa Cautiño	In 1887, architect Texidor designed a building that blended Neo- classical style with the popular architecture of southern Puerto Rico at that time, combining European mannerism with elements reminiscent of Art Nouveau.	Listed in 1984 under criteria C.
	17°59'09.3"N 66°06'48.5"W	#4 Vicente Palés Street	Methodist Church	Ca. 1902. It has a neo- romantic language, with a gabled roof and a lateral tower.	Eligible under criteria C.

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	17°59'04.9"N 66°06'48.2"W	Derkes street	Calimano Theater/Guaya ma Theater	ca. 1938. Art Deco.	Eligible under criteria A and C.
	17°59'05.7"N 66°06'46.3"W	Santiago Palmer street	Colegio San Antonio	1933. It has a modernist language with large eaves on corbels.	Eligible under criterion A and C.
	17°59'07.7"N 66°06'42.3"W	Vicente Palés street	Colegio San Antonio II	1947. Art Deco.	Eligible under criteria C.

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	17°59'06.4"N 66°06'44.6"W	Ashford street	Casa Parroquial	ca. 1930-1946. It has elements of Spanish historicism with balconies on 3 facades.	Eligible under criteria C.
	17°58'55.1"N 66°06'42.4"W	José María Anguelí street	Eleuterio Derkes School	1908. One story C-shaped structure with neo-classical elements.	Listed in 1987 under criteria C.
	17°59'12.8"N 66°06'45.8"W	Ashford street	Cárcel y Casa del Rey	Ca. 1879. One-story building with neoclassical elements	Eligible under criterion A and C.

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	17°59'09.1"N 66°06'50.7"W	Calimano Martínez Street corner Vicente Palés Street	Cuartel General de Tropas Estadounidenses	Ca. 19th century. It seems to have been altered	Eligible under criteria A and C.
	17°59'11.3"N 66°06'51.8"W		Tomás Cano & Co.	1854/1910. Commercial use. Composed of 3 naves. It has modernist language with classical elements. In one of the lateral naves it reads "Nieves Construction Corp.".	Eligible under criteria C.
	17°59'07.6"N 66°06'50.7"W	Calimano Martínez street	CAP Building	ca. 1927. It has neo-Mannerist language, with Corinthian pilasters.	Eligible under criteria C.

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	17°59'6.15"N 66° 6'50.88"W "W	Calimano Martínez street	Building left to Campoamor Cinema Building A in map	1916. It has a neoclassical language, with cornices and a continuous balcony.	Eligible under criteria C.
	17°59'04.6"N 66°06'45.6"W	Ashford street corner Derkes street	Pabellón de la Fama del Deporte Guayamés	ca. XIX-XX century. Vernacular house in wood. It has a gable roof and preserves elements such as vents on lateral sales.	Eligible under criteria C.
	17°59'03.4"N 66°06'49.3"W	Baldorioty street	Bernardini Theater	ca. 1913. Seems to be altered	Eligible under criteria A and C.

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	17°59'02.8"N 66°06'49.4"W	#8 Baldorioty street	Structure at #8 Baldorioty Street Building B on Map	Ca. 1920. Vernacular house with gable roof. It preserves original mosaics in columns of the balcony and frieze.	Eligible under criteria C.
	17°59'02.5"N 66°06'46.8"W	Palmer street corner Baldorioty street	Former Fire Station	Date not defined. The language is Hispano- Arabic with chamfered corner of alfiz and tower with lobed arches.	Eligible under criteria C.
	17°59'02.8"N 66°06'45.0"W	Ashford street corner Duque street	Luis Palés Matos residency	Ca. 1910. Vernacular wooden house with Victorian influenced composition.	Eligible under criteria B and C

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	17°59'00.6"N 66°06'46.0"W	Ashford street corner Enrique street	Police Station	ca. 1937. The building has elements of Spanish historicism and Mission style.	Eligible under criteria C.
	17°59'00.1"N 66°06'53.4"W	Hostos street	George Washington School I	ca. 1901. It has modernist language with "secession" elements. The original building seems to have had a gable roof. On the parapet it says that it was enlarged and renovated in 1914.	Eligible under criteria A and C.
	17°58'57.2"N 66°06'53.4"W	Hostos street	George Washington School II	The original plan was "L" shaped, then it was enlarged to a "C" shape between 1946-1952. It has a modernist language	Eligible under criteria A and C.

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	17°59'08.9"N 66°06'45.7"W	Ashford street corner Vicente Palés street	Dominguez Family Residency	ca. 1900. Vernacular house with classical elements such as Doric columns on a continuous and cushioned balcony. It is attributed to engineer José Antonio Bruno [Dominguez].	Eligible under criteria C.
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Determination

The following historical properties have been identified within the Area of Potential Effect:

Direct Effect:

- o Plaza de Recreo Cristóbal Colón

Indirect/Visual Effect:

- o Guayama Urban Center
- o Casa Cautiño
- o San Antonio de Padua Church
- o City Hall
- o Colegio San Antonio
- o Tetro Calimano
- o CAP Building
- o Cine Campoamor
- o Building in the Calimano Martínez street, adjacent to the CAP building
- o Methodist Church
- o Casa Parroquial
- o Headquarters of US Troops

Based on the results of our historic property identification efforts, the Program has determined that project actions **will not adversely affect** the historic properties within the Area of Potential Effect specifically the *Plaza Cristobal Colón*. The proposed architectural elements will not alter the plaza's historical integrity or the landmark visual relationship between the built environment of the square or the Guayama eligible Historic District. In addition, key features of the *Plaza* that have been preserved since the early 20th century, including the 16 planters, the fountain, and the overall spatial design, will remain unchanged during this intervention.

However, the probability of finding intact historic materials buried beneath the plaza is high. The layers of earlier materials that may be disturbed by the proposed scope of work may provide significant data regarding the past uses of the public plaza and life in general in the sociocultural, political, and civic center of Guayama. Structural elements, mortar and masonry floors, remains of artifacts related to the civilian and military use of the plaza, human bones, as well as other historical materials may be found during excavations. Therefore, the presence of an SOI-qualified archaeological monitor is recommended during ground disturbance activities.

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

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

☐ No Historic Properties Affected

☒ No Adverse Effect

Condition (if applicable): **Archaeological Monitoring** during all demolitions, excavations, and ground-disturbing activities. Archaeological Monitoring. Given the historic context of the project area within the Guayama Traditional Urban Center, the presence of an SOI-Qualified Archaeological Monitor is recommended during the ground-disturbing activities.

☐ Adverse Effect

Proposed Resolution (if applicable)

This Section is to be Completed by SHPO Staff Only

The Puerto Rico State Historic Preservation Office has reviewed the above information and:	
☐ Concurs with the information provided. ☐ Does not concur with the information provided.	
Comments:	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:



Subrecipient: Municipality of Guayama

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Project (Parcel) Location - Aerial Map.



Description: Map showing in red the location of the APE of the proposed project at *Plaza de Recreo Cristóbal Colón* in Guayama, Puerto Rico. (Source: Puerto Rico Planning Board Office. <https://gis.jp.pr.gov/mipr/>)

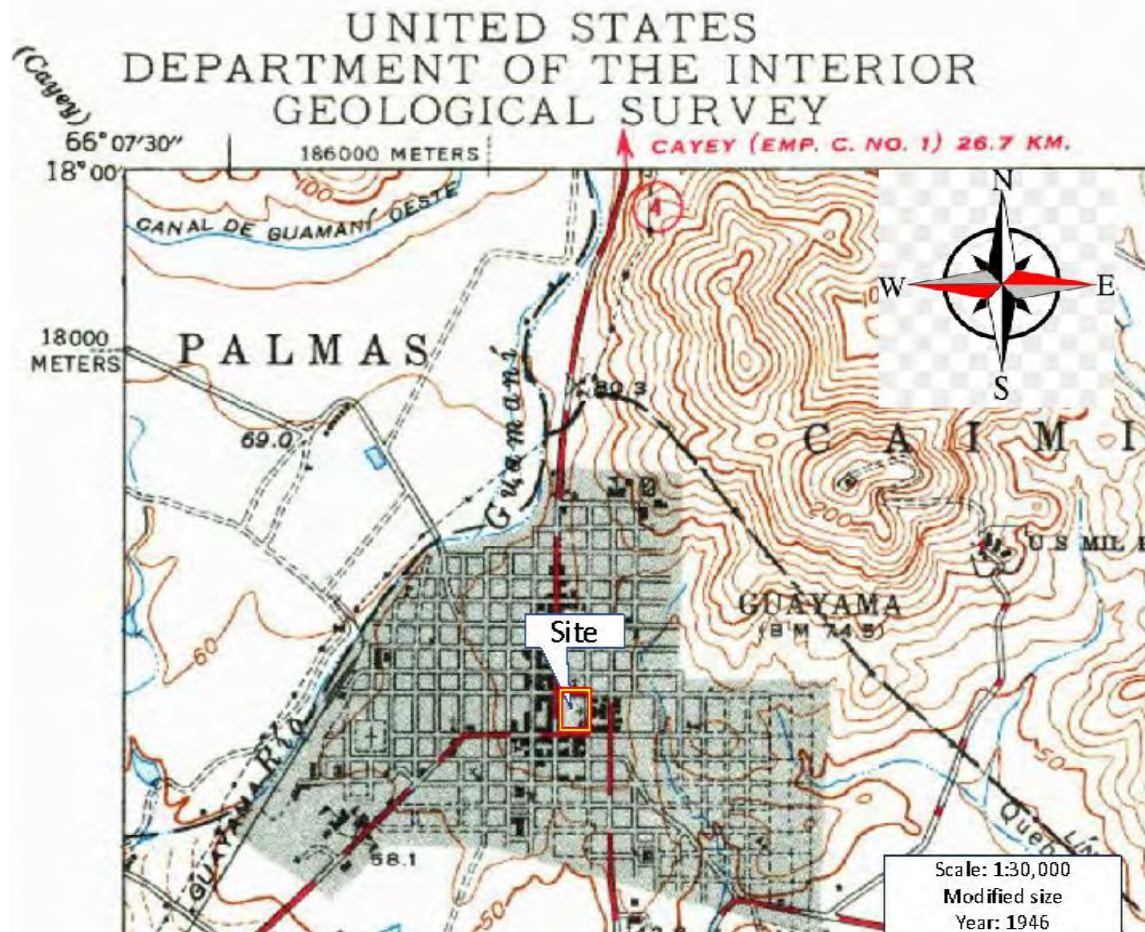


Subrecipient: Municipality of Guayama

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Project (Parcel) Location – Topographic map.



1946 USGS topographic map showing the location of the APE of the proposed project at Plaza de Recreo Cristóbal Colón in Guayama, Puerto Rico. Scale 1:30,000 modified (Source: USGS Topographic map)

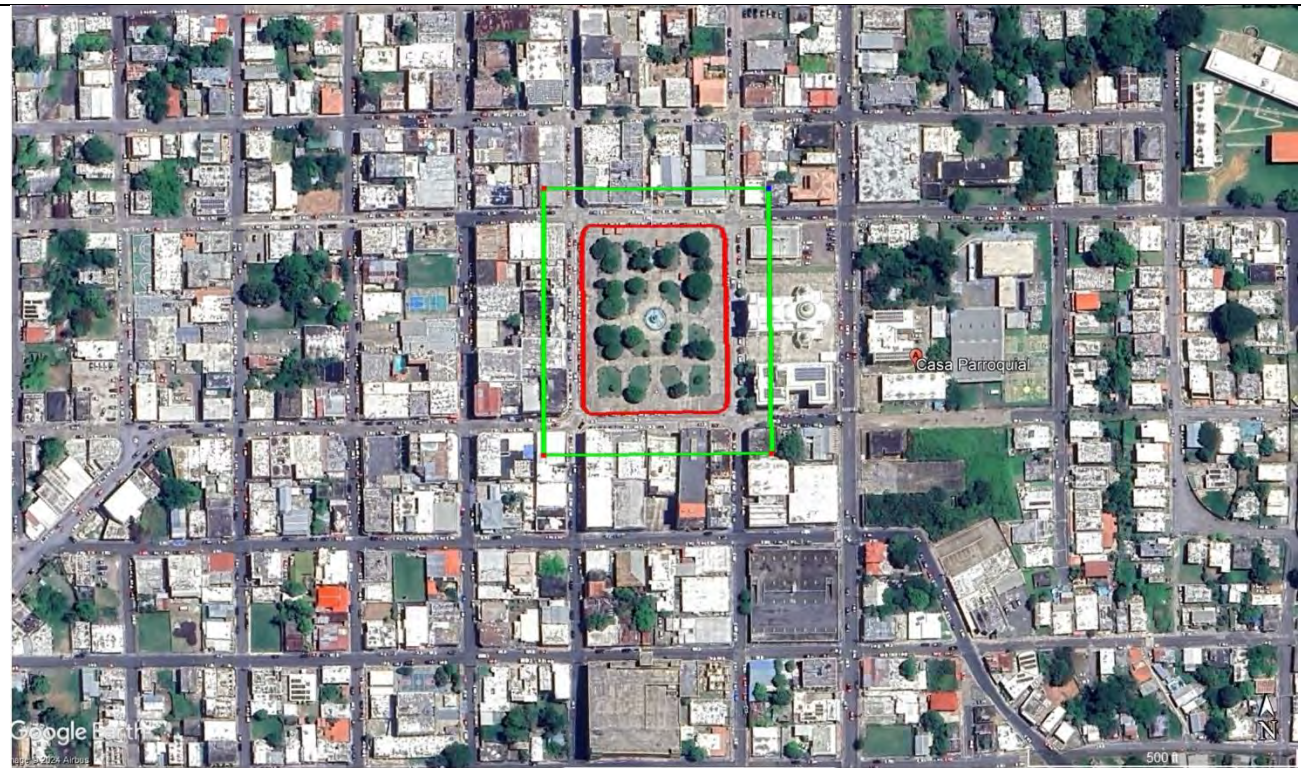


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446

Area of Potential Effect Map- Aerial Map



 Direct APE  Visual APE

Source: Google earth

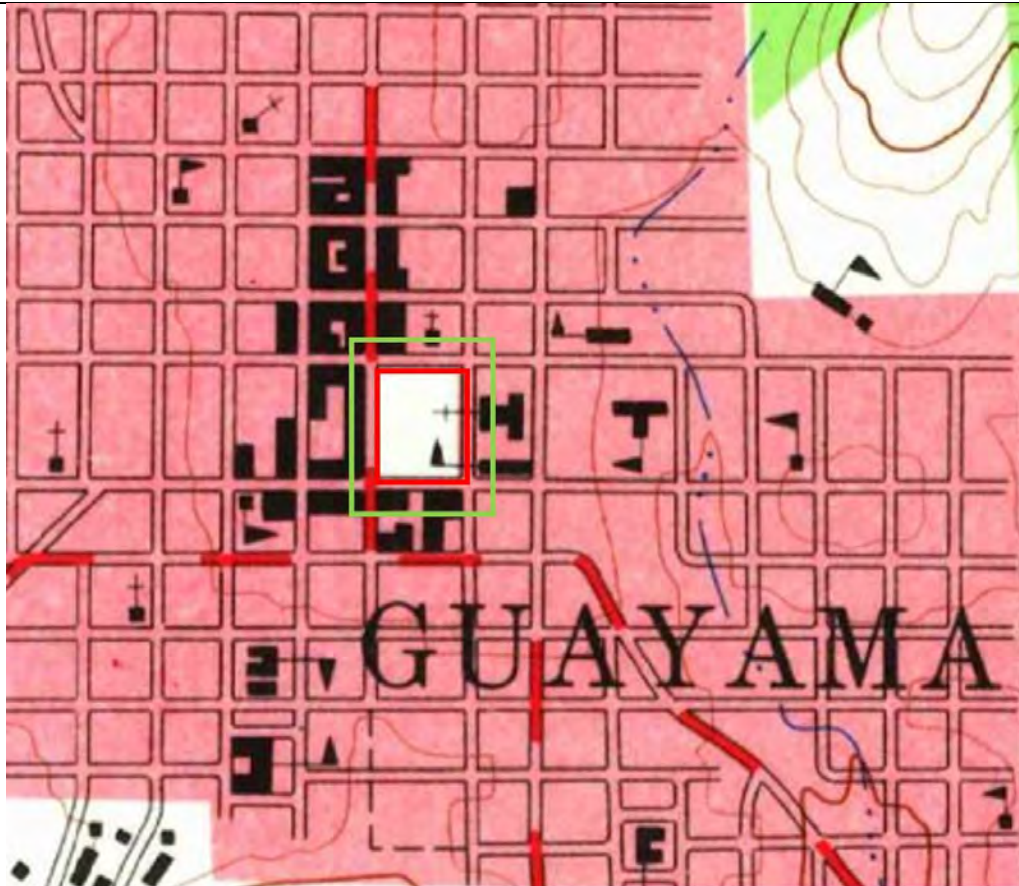


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

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Area of Potential Effect Map – Topographic Map



Direct APE Visual APE

1960, USGS Topographic Map. Escala 1:20000 (Source: Historical Topo Map Explores, <https://livingatlas.arcgis.com/>).

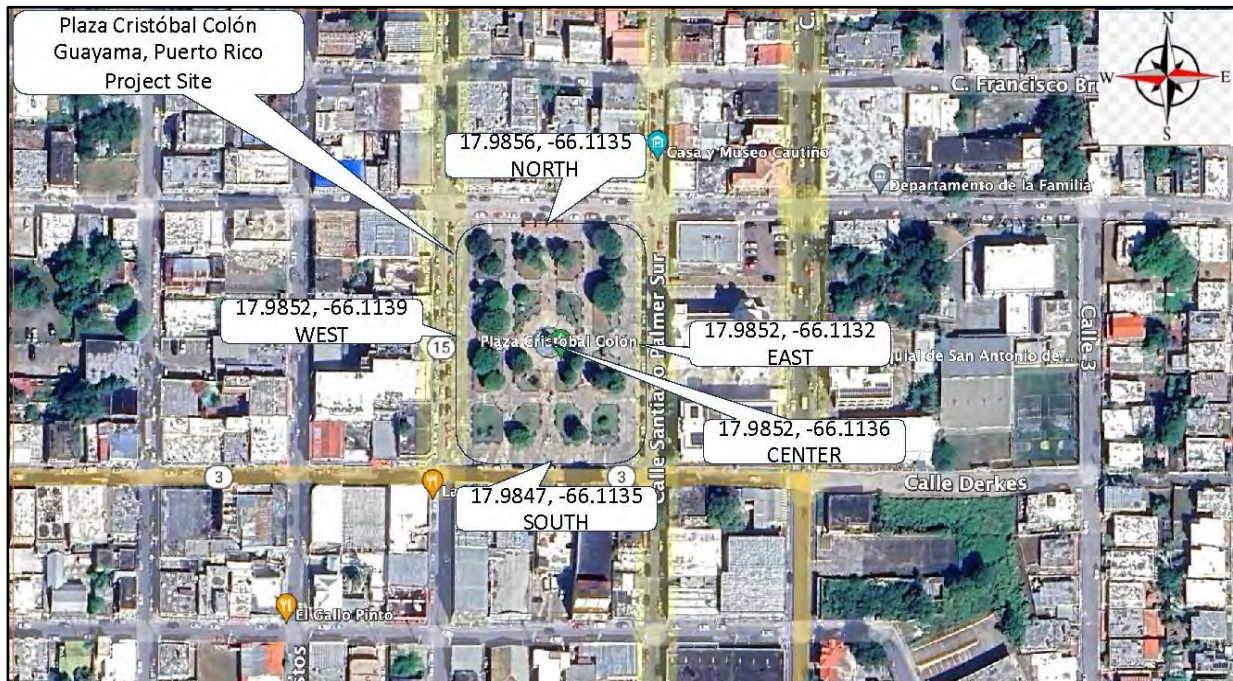


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

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Figure 1: Project (Parcel) Location – Area of Potential Effect Map (Aerial)



Location of the APE of the proposed project at Plaza de Recreo Cristóbal Colón in Guayama, Puerto Rico. Location: Latitude 17.9851, Longitude -66.1135. (Source: CostaVisPR [May 17, 2023, <https://costavispr.org>]) Map not to scale.

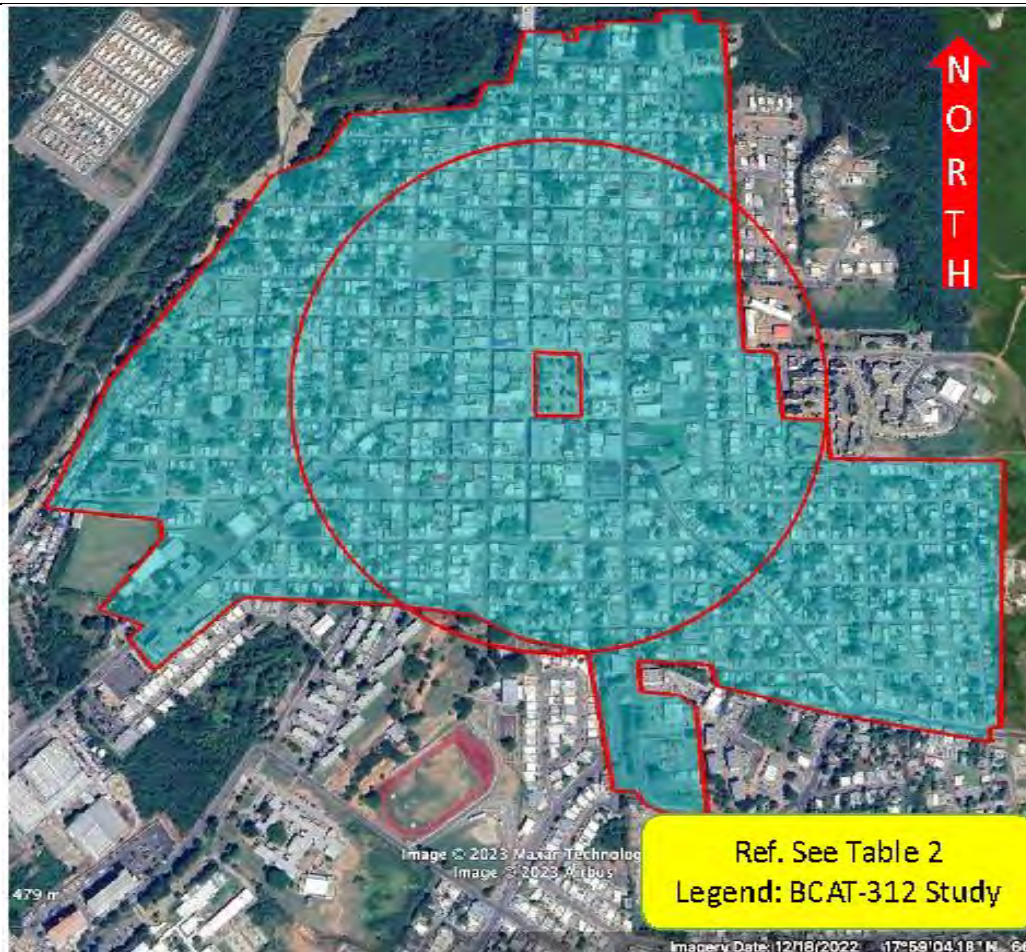


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

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Additional previous archaeological research reviewed



Map showing the boundaries of archaeological study BCAT-312 conducted by Sharon Meléndez in 2010 in and around Plaza de Recreo Cristóbal Colón in Guayama, Puerto Rico. In red polygon show the Historical Zone of the Municipality of Guayama (Source: BCAT-312 by Sharon Meléndez, Google Earth, 2023).

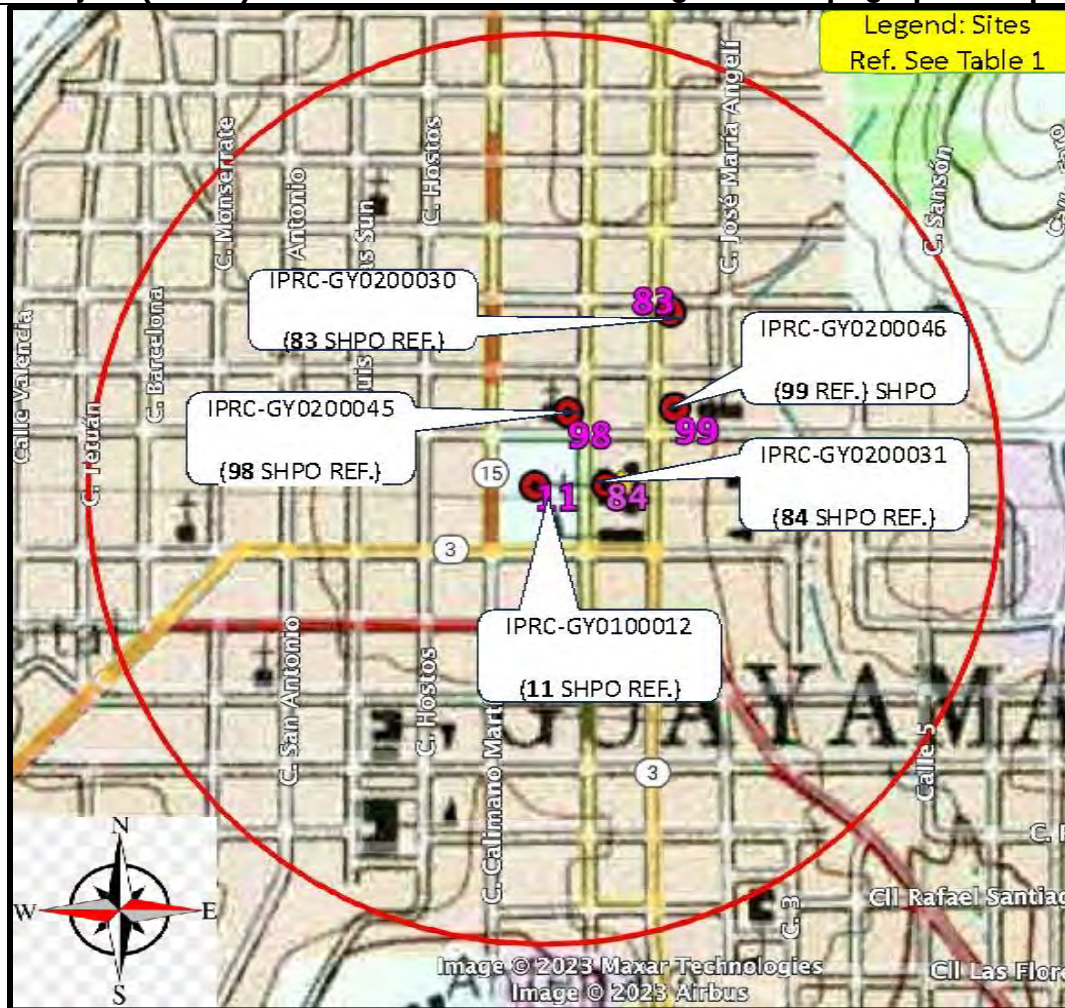


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

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Project (Parcel) Location with Previous Investigations- Topographic Map



1946 USGS topographic map showing the location of the proposed project at *Plaza de Recreo Cristóbal Colón* in Guayama, Puerto Rico, and known cultural resources within 1/4 mile of the APE. This archaeological survey documents the archaeological sites and locations that were documented while the research was being conducted.

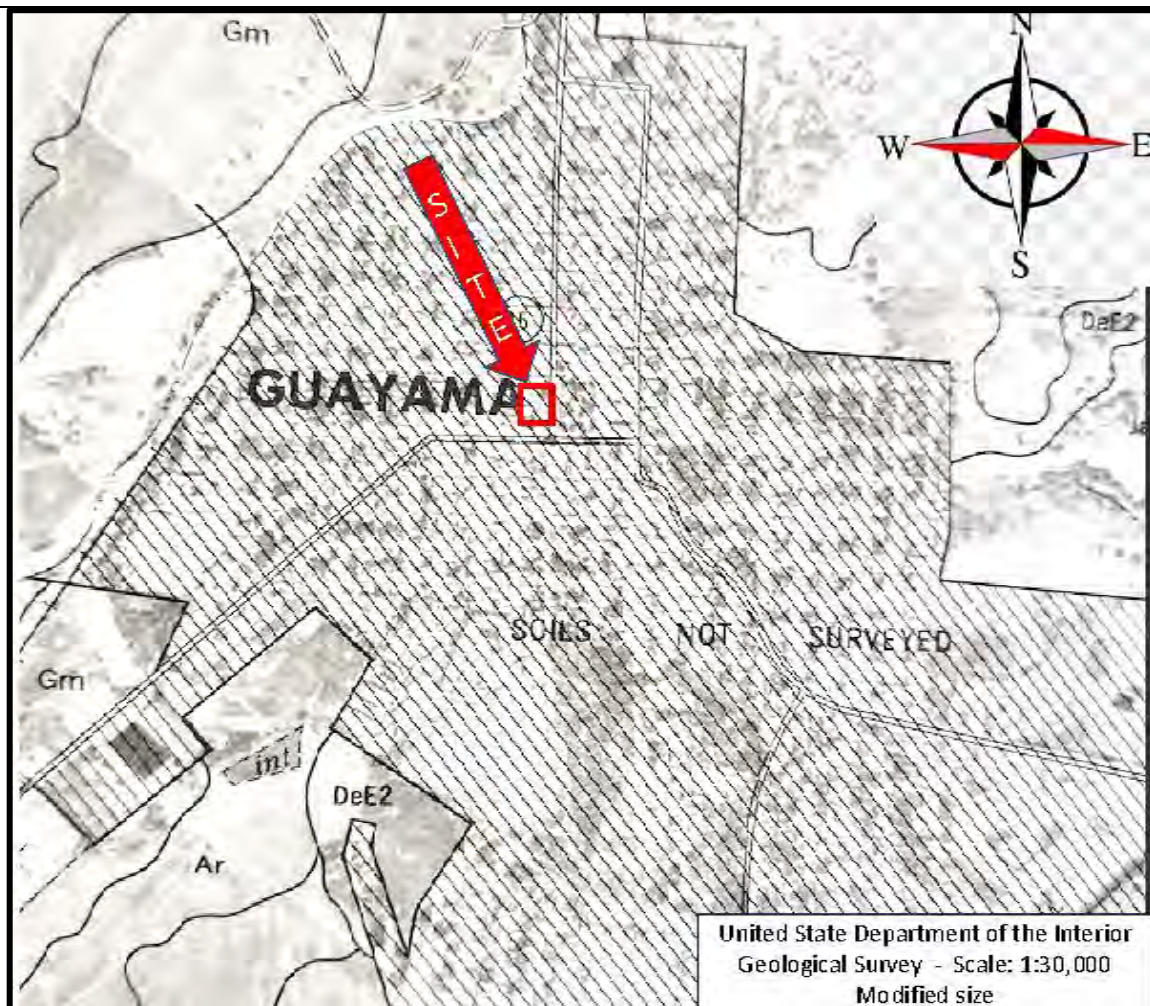


Subrecipient: Municipality of Guayama

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Figure 4: Project (Parcel) Location – Soils Map



USGS soil fragment map showing the soils within the APE of the proposed project at Plaza de Recreo Cristóbal Colón in Guayama, Puerto Rico. Scale 1:30,000 modified. USGS Soil fragment map – Soils not surveyed

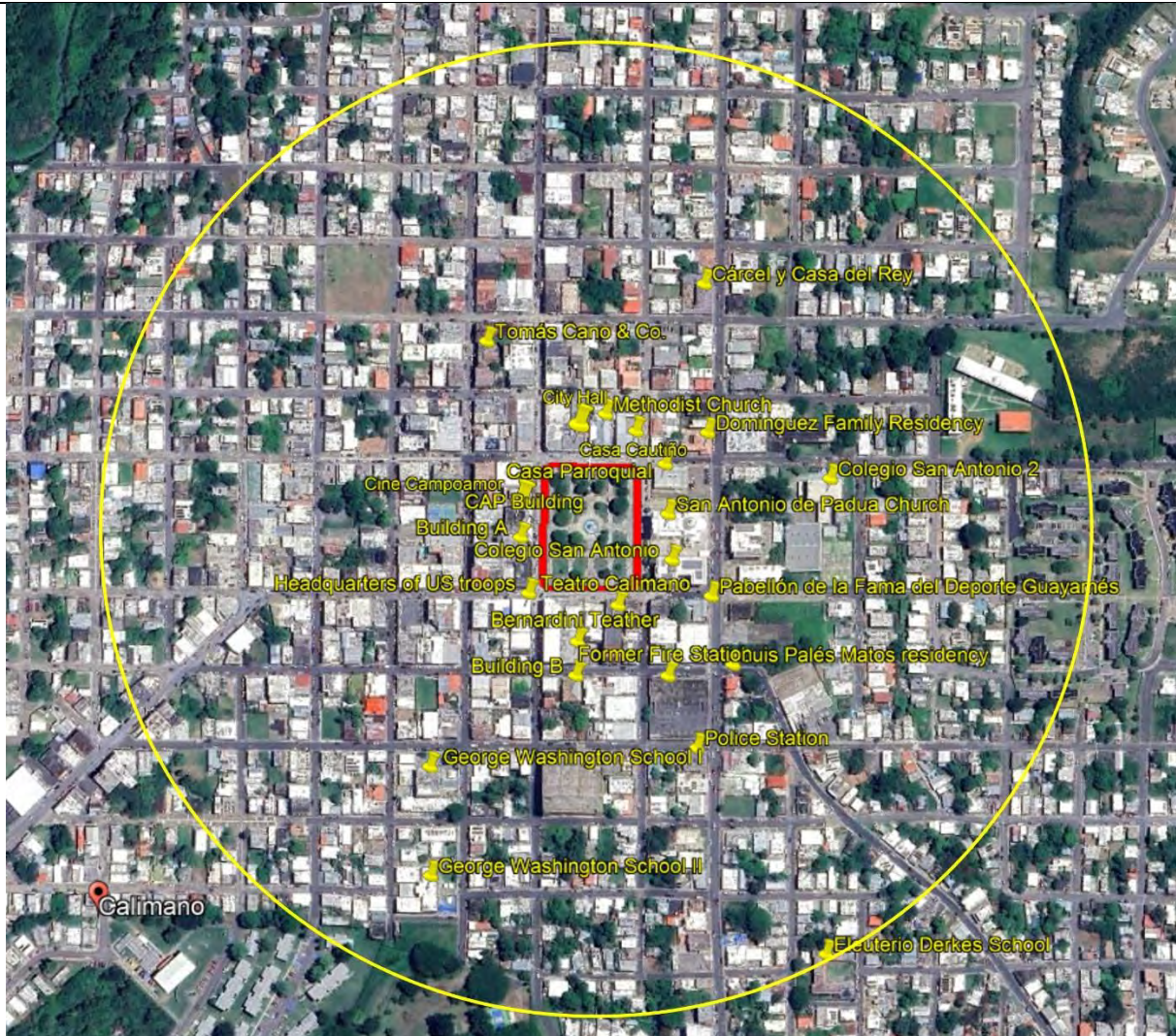


Subrecipient: Municipality of Guayama

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Project (Parcel) Location with Previously Recorded Cultural Resources-Aerial Map



Source: Google Earth 2024.

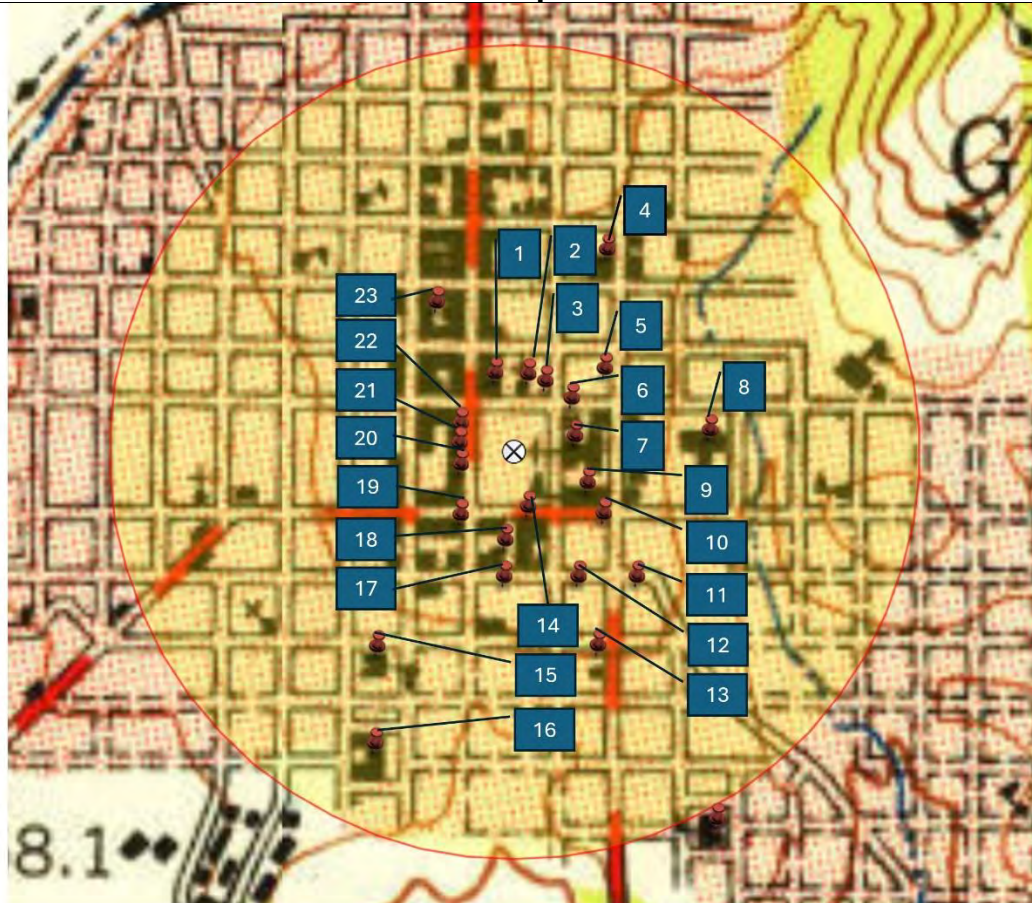


Subrecipient: Municipality of Guayama

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Project (Parcel) Location with Previously Recorded Cultural Resources-Topographic map



1. City Hall
2. Methodist Church
3. Casa Cautiño
4. Cárcel y Casa del Rey
5. Dominguez Family Residency
6. Casa Parroquial
7. San Antonio de Padua Church
8. Colegio San Antonio II
9. Colegio San Antonio I
10. Pabellón de la Fama de Deportes Guayamés
11. Luis Pales Matos Residency
12. Former Fire Station

13. Police Station
14. Teatro Calimano
15. George Washington School I
16. George Washington School II
17. Building B
18. Bernardini Theater
19. Headquarters US Troops
20. Building A
21. Cine Campoamor
22. CAP Building
23. Tomás Cano & Co.

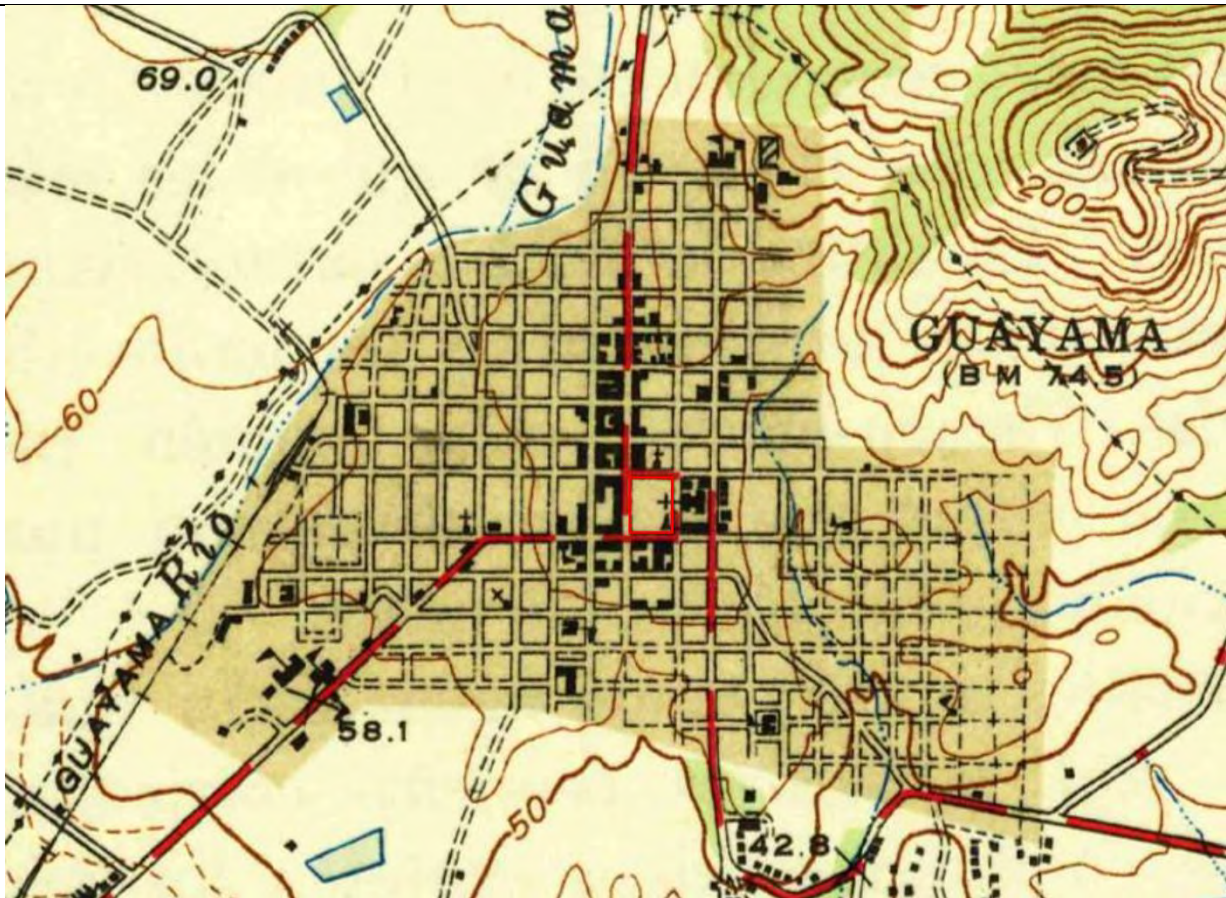


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Other Maps. 1946 Topographical map of Guayama. Original scale 1:30 000. APE is highlight in red (Source: USGS Historical Topo Map Explorer. <https://livingatlas.arcgis.com/topomapexplorer>)





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Other Maps. 1952 Topographical map of Guayama. Original scale 1:30 000. APE is highlight in red (Source: USGS Historical Topo Map Explorer.
<https://livingatlas.arcgis.com/topomapexplorer>)



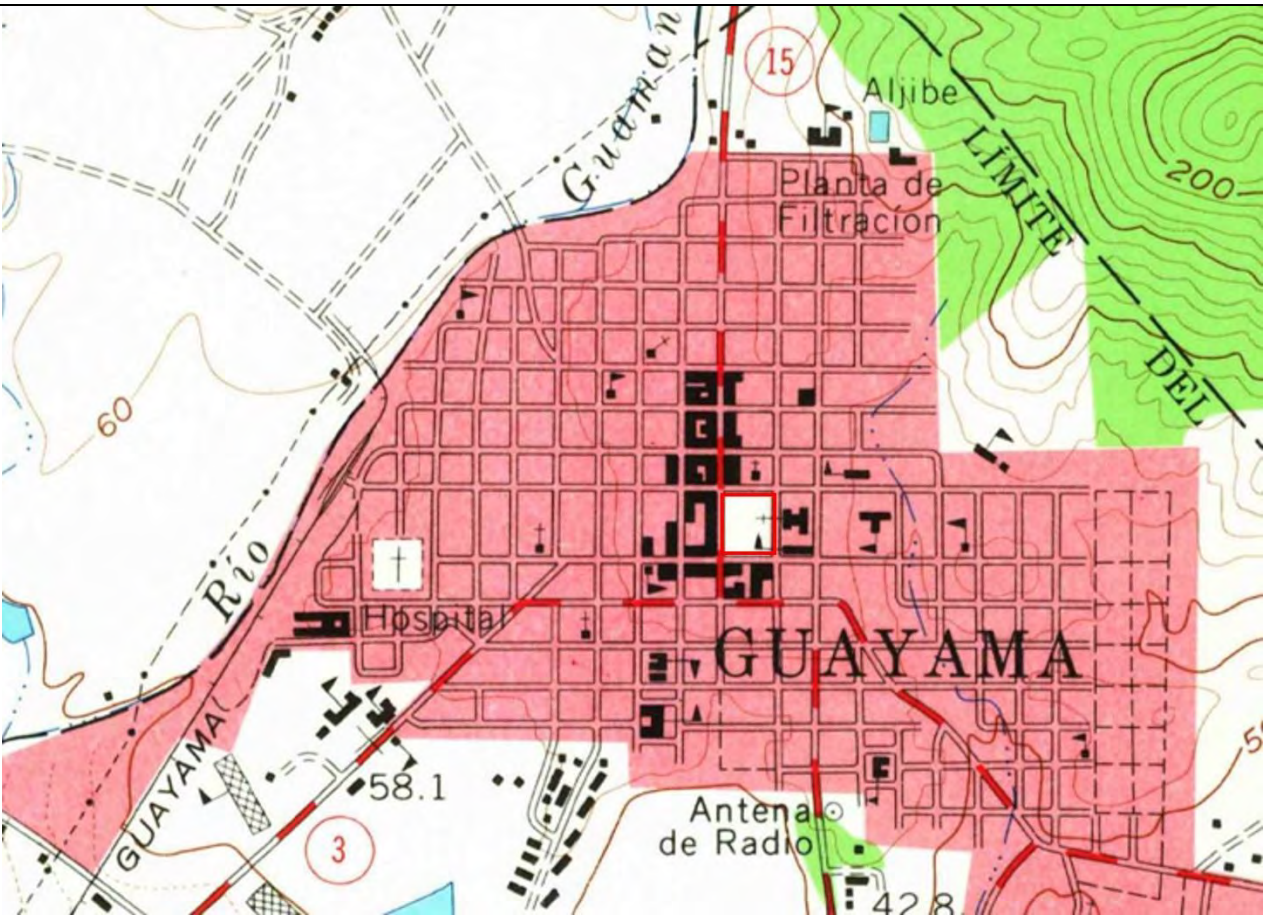


Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

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Other Maps. 1962 Topographical map of Guayama. Original scale 1:20 000. APE is highlight in red (Source: USGS Historical Topo Map Explorer. <https://livingatlas.arcgis.com/topomapexplorer>)





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Direct APE Photo Key Map



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Photo #1	View from Derkes Street at the South (17.984737, -66.113576) towards the Plaza fountain
3/5/2024	
	
Photo #2	View from the Plaza fountain (17.985109, -66.113577) towards the South (Derkes Street)
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Photo #3	View from the Plaza fountain (17.985109, -66.113577) towards the Southeast corner (Int. Derkes and Palmer Streets)
3/5/2024	



Photo #4	View from the Plaza fountain (17.985109, -66.113577) towards the Southwest corner (Int. Derkes and Calimano Streets)
3/5/2024	

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Photo #5	View from the Palmer Street at the East (17.985179, -66.113220) towards the Plaza fountain
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Photo #6	View from the Plaza fountain (17.985171, -66.113502) towards the East (Palmer Street)
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Photo #7
3/5/2024 View from the Plaza fountain (17.985171, -66.113502) towards the Northeast corner (Int. Palmer and Pales Matos Streets)



Photo #8
3/5/2024 View from the Plaza fountain (17.985171, -66.113502) towards the Southeast corner (Int. Palmer and Derkes Streets)

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Photo #9	View from the Pales Matos Street at the North (17.985604, -66.113571)
3/5/2024	towards the Plaza fountain



Photo #10	View from the Plaza fountain (17.985260, -66.113572) towards the North
3/5/2023	(Pales Matos Street)

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Photo #11 3/5/2024	View from the Plaza fountain (17.985260, -66.113570) towards the Northwest corner (Int. Calimano and Pales Matos Streets)
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Photo #12 3/5/2024	View from the Plaza fountain (17.985260, -66.113570) towards the Northeast corner (Int. Palmer and Pales Matos Streets)
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Photo #13	View from the Calimano Street at the West (17.985202, -66.113895) towards the Plaza fountain
3/5/2024	



Photo #14	View from the Plaza fountain (17.985174, -66.113639) towards the West (Calimano Street)
3/5/2024	



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Photo #15

3/5/2024

View from the Plaza fountain (17.985174, -66.113639) towards the Southwest corner (Int. Calimano and Derkes Streets)



Photo #16

3/5/2024

View from the Plaza fountain (17.985174, -66.113639) towards the Northwest corner (Int. Calimano and Pales Matos Streets)

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Photo #17	View from the corner of Pales Matos and Palmer Streets (17.985585, -
3/5/2024	66.113235) towards the fountain



Photo #18	View from the corner of Pales Matos and Calimano Streets (17.985606, -
3/5/2024	66.113901) towards the fountain

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Photo #19	View from the corner of Calimano and Derkes Streets (17.984742, 66.113920) towards the fountain	-
3/5/2024		



Photo #20	View from the corner of Derkes and Palmer Streets (17.984738, 66.113257) towards the fountain	-
3/5/2024		

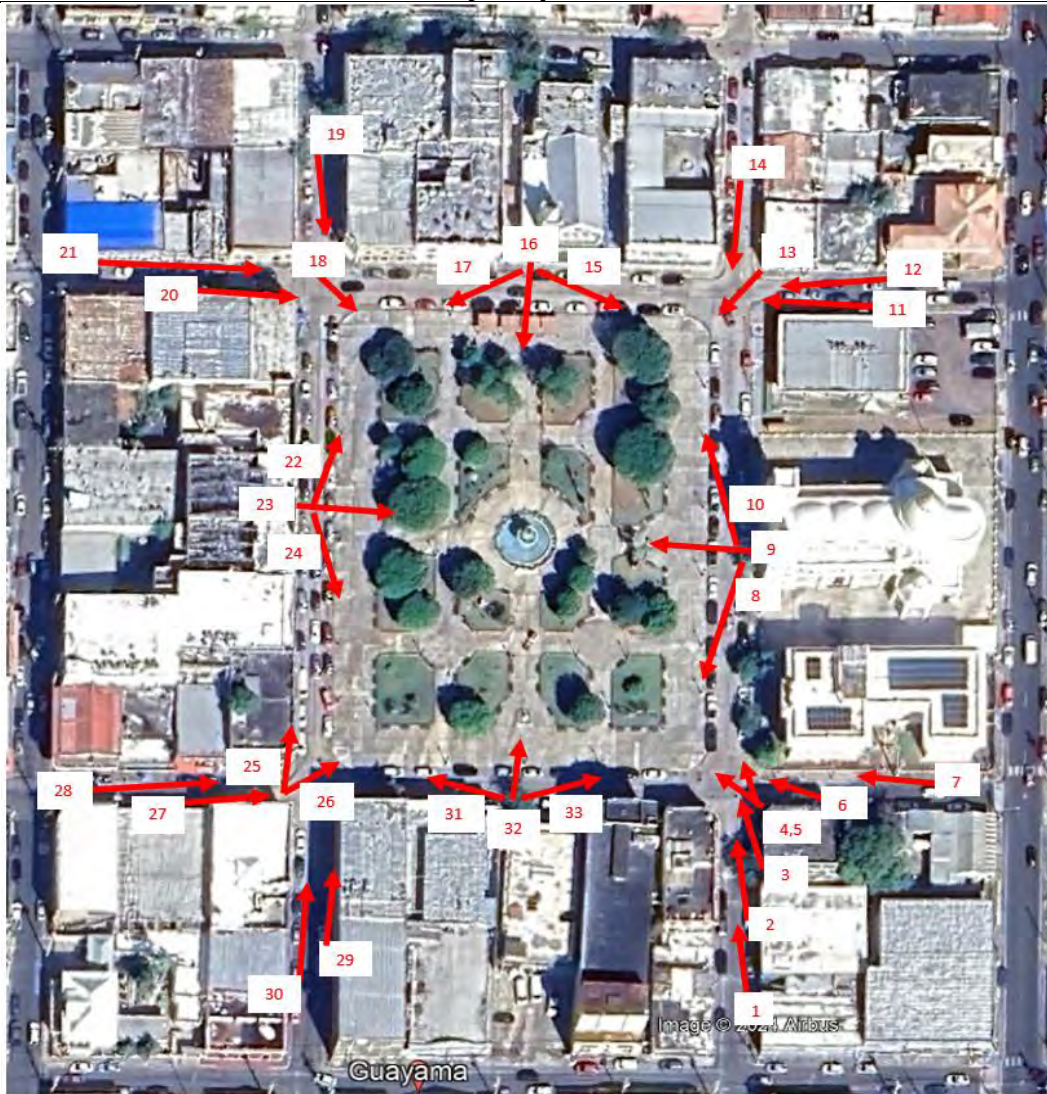


Subrecipient: Municipality of Guayama

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Photo Key Map. Visual APE



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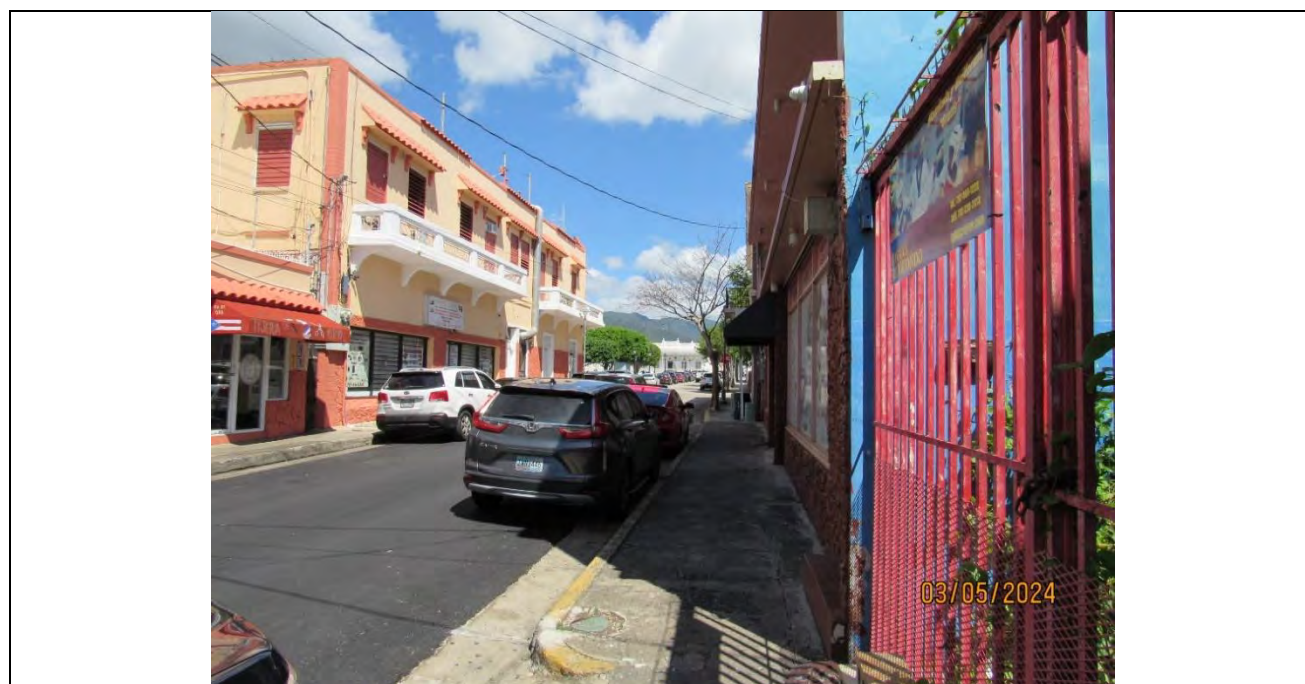


Photo #1 3/5/2024	View from Palmer Street (17.984333, -66.113122) looking North towards the Plaza
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Photo #2 3/5/2024	View from Palmer Street (17.984491, -66.113115) looking North towards the Plaza
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Photo #3 3/5/2024	View from Palmer Street (17.984545, -66.113109) looking North towards the Plaza
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Photo #4 3/5/2024	View from the corner of Palmer and Derkes Streets (17.984637, -66.113101) looking towards the Southeast corner and South side of the Plaza
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Photo #33	View from Derkes Street (17.984658, -66.113589) looking Northeast towards the Southeast corner of the Plaza	
3/5/2024		

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Photo #5 3/5/2024	View from the corner of Palmer and Derkes Streets (17.984637, -66.113101) looking towards the Southeast corner and East side of the Plaza
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Photo #6 3/5/2023	View from Derkes Street (17.984658, -66.113039) looking towards the Southeast corner of the Plaza
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Photo #7 3/5/2024	View from Derkes Street (17.984657, -66.112998) looking West towards the South of the Plaza
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Photo #8 3/5/2024	View from Palmer Street (17.984661, -66.112684) looking Southwest towards the Southeast corner of the Plaza
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Photo #9 3/5/2024	View from Palmer Street (17.984661, -66.112684) looking West towards the fountain of the Plaza
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Photo #10 3/5/2023	View from Palmer Street (17.984661, -66.112684) looking Northwest towards the Northeast corner of the Plaza
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Photo #11 3/5/2024	View from Pales Matos Street (17.985633, -66.112832) looking West towards the North of the Plaza
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Photo #12 3/5/2024	View from Pales Matos Street (17.985685, -66.112757) looking West towards the North of the Plaza
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Photo #13
3/5/2024

View from the corner of Palmer and Pales Matos Streets (17.985698, -66.113115) towards the Northeast corner of the Plaza



Photo #14
3/5/2024

View from Palmer Street (17.985983, -66.113111) looking South towards the East side of the Plaza

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Photo #15	View from Pales Matos Street (17.985719, -66.113561) looking Southeast
3/5/2024	towards the Northeast corner of the Plaza



Photo #16	View from Pales Matos Street (17.985719, -66.113561) looking South towards
3/5/2024	the Plaza

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Photo #17 3/5/2024	View from Pales Matos Street (17.985719, -66.113561) looking Southwest towards the Northwest corner of the Plaza
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Photo #18 3/5/2024	View from the corner of Pales Matos and Calimano Streets (17.985728, -66.113988) looking Southeast towards the Northwest corner of the Plaza
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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 HOUSING

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Photo #19

3/5/2024

View from Calimano Street (17.985982, -66.113982) looking South towards the Plaza



Photo #20

3/5/2024

View from Pales Matos Street (17.985666, -66.114257) looking East towards the Plaza



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Photo #21

3/5/2024

View from Pales Matos Street (17.985716, -66.114313) looking East towards the Plaza



Photo #22

3/5/2024

View from Calimano Street (17.985201, -66.113984) looking Northeast towards the Northwest corner of the Plaza



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Photo #23

3/5/2024

View from Calimano Street (17.985201, -66.113984) looking East toward the Plaza



Photo #24

3/5/2024

View from Calimano Street (17.985201, -66.113984) looking Southeast towards the Southwest corner of the Plaza



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Photo #25

3/5/2024

View from the corner of Calimano and Derkes Streets (17.984661, 66.114029) towards the West side of the Plaza

-



Photo #26

3/5/2024

View from the corner of Calimano and Derkes Streets (17.984661, 66.114029) towards the South side of the Plaza

-

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guayama	
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón	
Project Number: PR-CRP-000446	



Photo #27 3/5/2024	View from Derkes Street (17.984655, -66.114309) looking East towards the South of the Plaza
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Photo #28 3/5/2024	View from Derkes Street (17.984689, -66.114452) looking East towards the South of the Plaza
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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 HOUSING
Subrecipient: Municipality of Guayama	
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón	
Project Number: PR-CRP-000446	

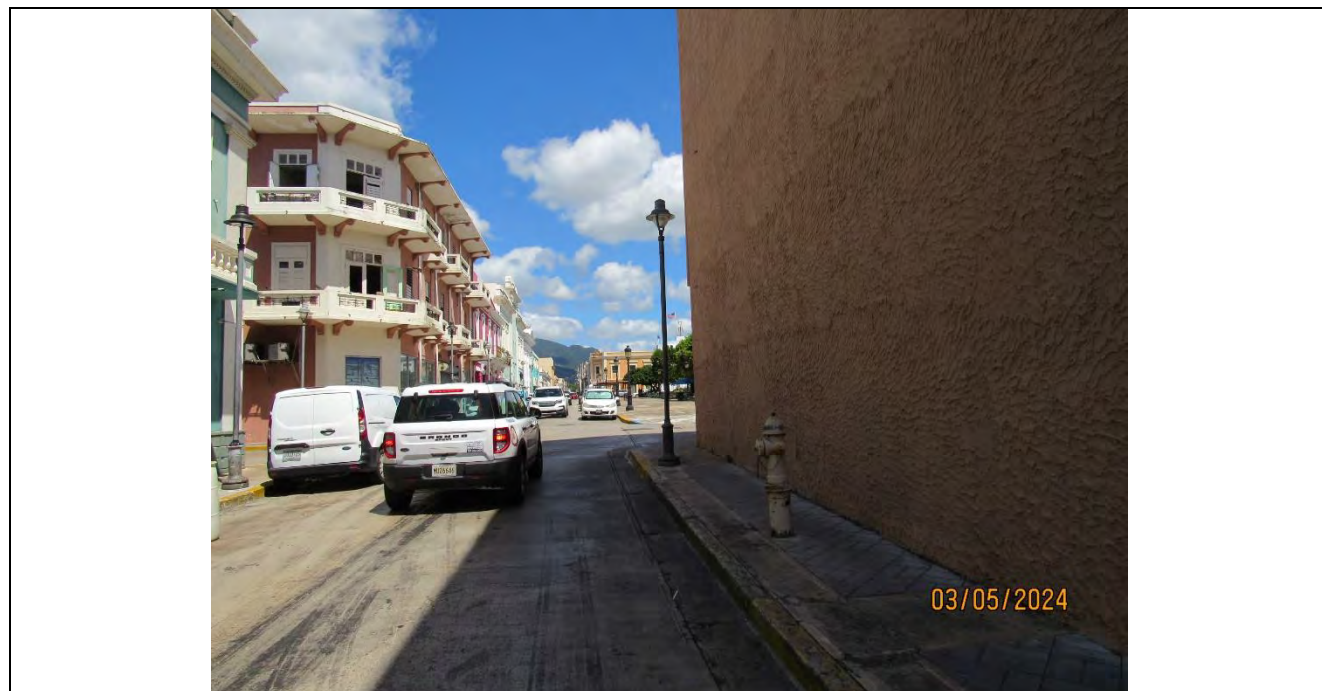


Photo #29 3/5/2024	View from Calimano Street (17.984534, -66.113956) looking North towards the West of the Plaza
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Photo #30 3/5/2024	View from Calimano Street (17.984356, -66.114016) looking North towards the West of the Plaza
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Subrecipient: Municipality of Guayama

Project Name: Rehabilitación Plaza de Recreo Cristobal Colón

Project Number: PR-CRP-000446



Photo #31

3/5/2024

View from Derkes Street (17.984658, -66.113589) looking Northwest towards the Southwest corner of the Plaza



Photo #32

3/5/2024

View from Derkes Street (17.984658, -66.113589) looking North towards the South of the Plaza

APPENDIX F



Transmittal Letter

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 1973.

Reviewer DAMARIS ROMAN RUIZ Digitally signed by DAMARIS ROMAN RUIZ
Date: 2024.07.11 10:59:02 -04'00'

SILMARIE PADRON Digitally signed by SILMARIE PADRON
Date: 2024.07.11 12:36:07 -04'00'
Acting Caribbean ES Field Supervisor

RE: USFWS Endangered Species Act Certifications CRP Program – June 2024

We are submitting the following Self-Certifications for projects under the CDBG-DR City Revitalization Program. Attached are included the Self-Certifications that certify that the projects are in compliance and are not likely to adversely affect federally-listed species.

The following table includes the projects that are in compliance with the Blanket Clearance Letter for the Endangered Species act of 1973, as amended, and the Fish and Wildlife Coordination Act.

Project Number	Project Name
PR-CRP-000048	Nuevo Estacionamiento Público en la Calle Libertad
PR-CRP-000053	Sidewalk Revitalization Jayuya Urban Center
PR-CRP-000209	Iniciativa para la Rehabilitación de Integral de la Comunidad Especial "El Cerro"
PR-CRP-000342	Alumbrado y Reconstrucción de Aceras Ave. Emérito Estrada Rivera
PR-CRP-000446	Rehabilitación Plaza de Recreo Cristobal Colón
PR-CRP-000655	Plaza Urbanización Roosevelt
PR-CRP-000775	Revitalization of Architecture and Historical Facades in the Urban Center
PR-CRP-000988	Construcción de Ampliación de Estacionamiento Público
PR-CRP-001026	Conversion Of Del Valle Avenue into a Complete Street
PR-CRP-001192	Public Facilities Plaza Rafael Hernández Marín Río Piedras



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 **Rehabilitaci3n Plaza de Recreo Cristobal Col3n (PR-CRP-000446)**, consisting of Installation, replacement, rehabilitation, restoration, or improvement of infrastructure works within the same footprint. Work includes integrating the infrastructure that we deem necessary to relocate the existing electrical panels, repair the electrical and irrigation system of the gardens, install solar lights, replace the finishing of the floor slab, renovate the monuments, build access ramps in front of the historical structures or municipal for easy access for visitors, replace the wood of all the seats that the square contains, and paint the ornamental fences of the gardens and patch up the walls. It is also considered planting more trees in the gardens to fill in the empty spaces of fallen trees and plant grass. The sprinkler system and receptacles will be replaced, and the mechanical system of the fountain will be restored. The project is located at Vicente Pales #3 Street, Guayama, PR 00784 (Lat: 17.985259, Long: -66.113578) and complies with:

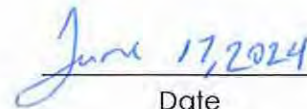
Check	Project Criteria
☐	1. Street resurfacing.
☒	2. Construction of gutters and sidewalks along existing roads.
☐	3. Reconstruction or emergency repairs of existing buildings, facilities and homes.
☐	4. Rehabilitation of existing occupied single-family homes, and buildings; provided that equipment storage 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 G. López-Guzmán
Deputy Director

Permits and Environmental Compliance Division



Date

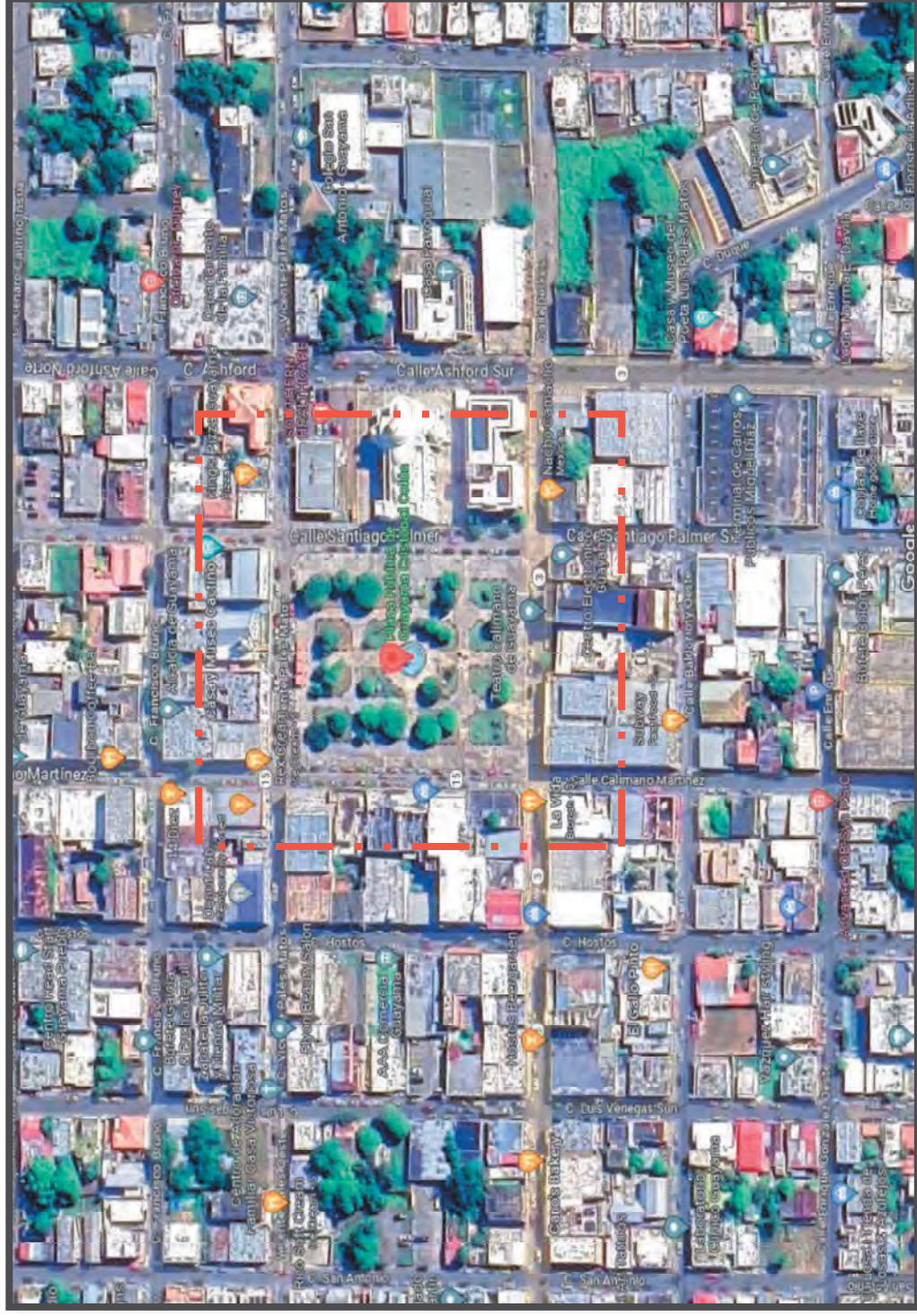
Office of Disaster Recovery
Address: P.O. Box 21365 San Juan, PR 00928
Telephone and Ext: 787-274-2527 ext. 4320
Email: environmentcdbg@vivienda.pr.gov

Attachments:

1. Map of Project Area
2. Project Site Photos
3. Critical Habitat Map
4. Wetlands Map
5. IPAC Results

Project name: Improvements to Plaza de Recreo Cristóbal Colón, Guayama, PR 00784

PR-CRP-000446



Subrecipient Name: Municipality Guayama

Project Name: “Rehabilitación Plaza de Recreo Cristóbal Colón”

Project ID Number: PR-CRP-000446

Location Lat/Long: 17.985259, -66.113578

Estimated Funding Amount: \$ 4,266,957.00

Project Description:

The Municipality of Guayama proposes the rehabilitation of the playground known as Christopher Columbus, which is located in the urban area of the town and is visited daily by tourists or residents of the area. This consists of sixteen (16) gardens that are delimited by walls and ornamental fences on its perimeter. Inside, receptacles were installed for merchants who participate in activities in the square and an irrigation system for the plants and trees that were planted in them. In addition to the gardens, the square has a fountain in its center of two (2) floors, four (4) cherubs and a pump system that allows the water inside to be kept in constant movement by trickles. Other elements that we can find in this recreational area are garbage dumps, wooden and steel benches and ornamental posts.

The square resides in an area of urban land (SNS) located between the streets Derkes, Calimano, Santiago Paler and Vicente Pales Matos of the Municipality of Guayama with a capacity of 7,150,537 square meters, according to CRIM and with cadaster number of: 420-042-103-01.

The site adjoins, to the north, with the Municipal Mayor's Office; in the South, with the Calimano Theater; on the East, with the Catholic Church and on the West, with the old structure of the Campoamor Cinema. Inside were built monuments dedicated to the soldiers of the Ohio room, veterans of the Korean War and poet Luis Pales Matos.

According to the Zoning Map, the land is located within an H4 Historic Zone. This district is established to classify existing commercial areas or to create new ones that meet the needs of various neighborhoods or residential communities, as well as commerce of intermediate intensity in the founding centers of the municipalities. The site is located within a flood zone X, according to sheet number 72000C2130J effective November 18, 2009 of FEMA's flood susceptible maps. A zone X is an area of moderate or minimal flood risk from the main source of flooding in the area. Flood risk, determined by specific methods. The topography can be considered 100% flat.

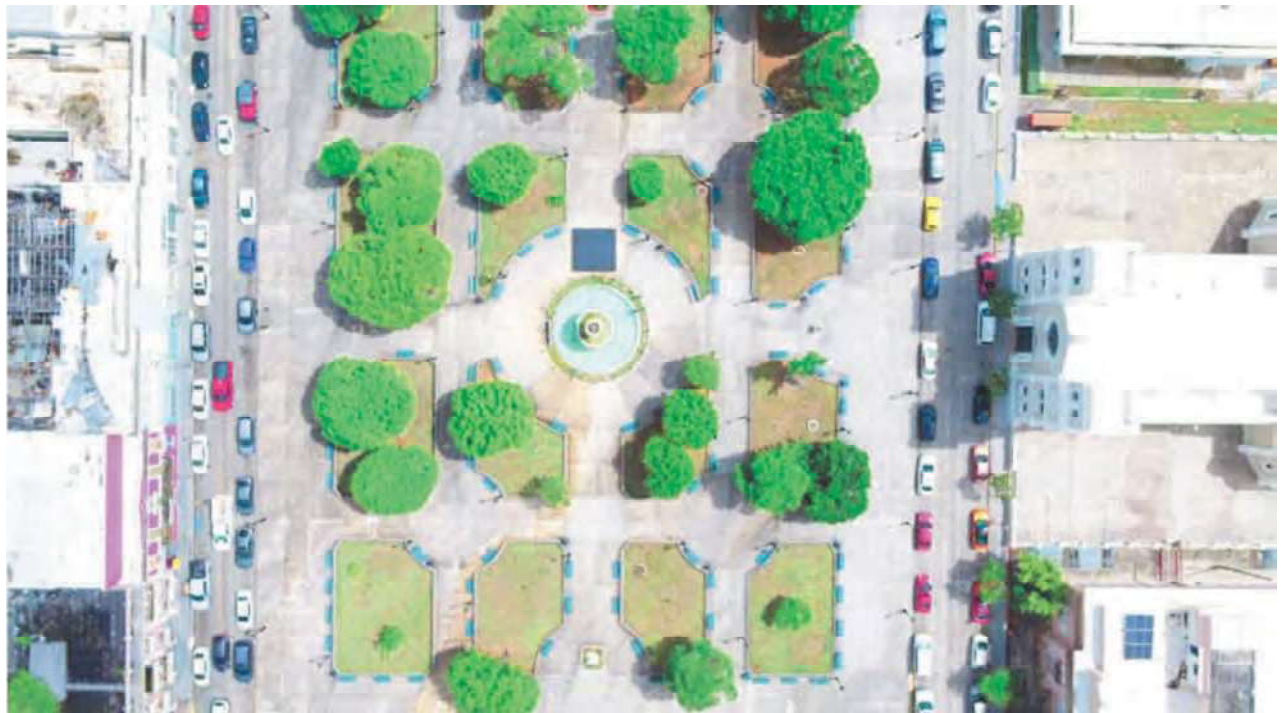
During Hurricane Maria, the entire city was affected in its residential, commercial and municipal infrastructure. Despite this some of these infrastructures are in use, but require repair due to the damage they suffered. An example of this infrastructure is the playground which is our reference project. During the atmospheric phenomenon, the irrigation system of the gardens, the completion of the floor slab of the entire square, the benches, and its huge and distinctive trees were affected. The fountain that is installed in its center was also affected. Tree branches and other objects brought by the strong winds of the phenomenon impacted the structure causing damage to the elements that compose it. Some of these elements are the figures of the cherubs, the chlorination system and the filters of the pumps. This has

caused the Municipality to hire maintenance services for this structure since it is one of the historical and cultural attractions of the Municipality.

During the rehabilitation of the square it is intended to integrate the infrastructure that we understand to be necessary for the relocation of the existing electrical panels, repair the electrical and irrigation system of the gardens, install solar spotlights, replace the completion of the floor slab, renovate the monuments, build access ramps in front of the historical or municipal structures for easy access by visitors, replace the wood of all the benches that contain the square, paint the ornamental fences of the gardens and repair the walls. It is also considered to plant more trees in the gardens to fill in the empty spaces of fallen trees and plant grass.

With the activities described above, an opportunity is proposed for merchants to want to locate in the vicinity of the project causing greater economic activity in the area. As for the community, the improvements will not affect its free daily operation after the area is rehabilitated.

Fotos Aerias:
"Rehabilitacion de Ia Plaza de Recreos Cristobal Colon"



PR-CRP-000446 - Critical Habitat



June 12, 2024

 PR-CRP-000446 - Rehabilitación Plaza de Recreo Cristobal Colón



Coordinates: 18.30004, -66.24573

Source: <https://nepassistool.epa.gov/nepassist/nepamap.aspx?wherestr=17.985259%2C-66.113578>

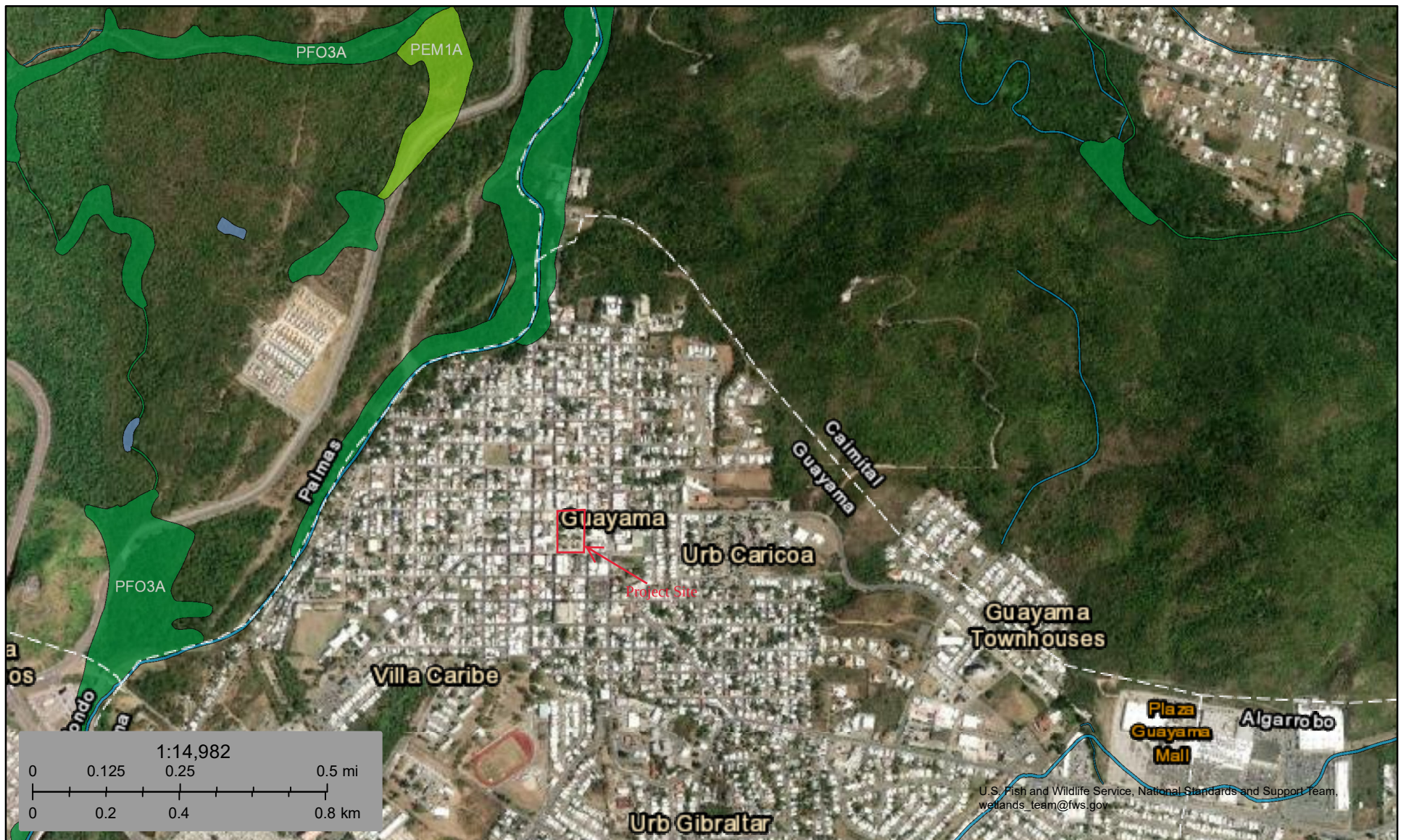


U.S. Fish and Wildlife Service

National Wetlands Inventory

PR-CRP-000446 Wetlands Map

Lat: 17.985259
Long: -66.113578



U.S. Fish and Wildlife Service, National Standards and Support Team,
wetlands_team@fws.gov

April 16, 2024

Wetlands

	Estuarine and Marine Deepwater		Freshwater Emergent Wetland		Lake
	Estuarine and Marine Wetland		Freshwater Forested/Shrub Wetland		Other
			Freshwater Pond		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.



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (939) 320-3135 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To:

05/16/2024 23:50:02 UTC

Project Code: 2024-0091960

Project Name: Rehabilitaci3n Plaza de Recreo Cristobal Col3n, (PR-CRP-000446)

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

THE FOLLOWING SPECIES LIST IS NOT A SECTION 7 CONSULTATION. PLEASE CONTACT OUR OFFICE TO COMPLETE THE CONSULTATION PROCESS

The purpose of the Endangered Species Act (Act) is to provide a means whereby threatened, and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect those species and/or their designated critical habitat.

Federal agencies are required to "request of the Secretary of Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action". The enclosed species list provides information to assist with the U.S. Fish and Wildlife Service (Service) consultation process under section 7 of the Act. However, **the enclosed species list does not complete the required consultation process**. The species list identifies threatened, endangered, proposed and candidate species, as well as proposed and designated critical habitats, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. A discussion between the Federal agency and the Service should include what types of listed species may occur in the proposed action area and what effect the proposed action may have on those species. This process initiates informal consultation.

Once a species list is obtained for the proposed project, an effect determination for endangered and threatened species should be made. The applicant could make an effect determination by using available keys on IPaC for specific species. For species with no determination keys, the applicant should request concurrence from the Service by sending a project package

to caribbean_es@fws.gov. To obtain guidance for completing this process and the minimum requirements for project packages, please visit:

<https://www.fws.gov/sites/default/files/documents/consultation-under-section-7-of-the-endangered-species-act-with-the-caribbean-ecological%20Services-field-office-template-letter.pdf>

When a federal agency, after discussions with the Service, determines that the proposed action is not likely to adversely affect any listed species, or adversely modify any designated critical habitat, and the Service concurs, the informal consultation is complete, and the proposed project moves ahead. If the proposed action is suspected to affect a listed species or modify designated critical habitat, the Federal agency may then prepare a Biological Assessment (B.A.) to assist in its determination of the project's effects on species and their habitat. However, a B.A. is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a B.A. where the agency provides the Service with an evaluation on the likely effects of the action to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a B.A. are described at 50 CFR 402.12.

If a federal agency determines, based on its B.A. or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to further consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species, and proposed critical habitat be addressed within the consultation process. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species.

This list is provided pursuant to Section 7 of the Endangered Species Act and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action". Please use this list to determine whether your project requires consultation and to make your effects determination. For more guidance, use the Guideline for Consultation under Section 7 of the Endangered Species Act with the Caribbean Ecological Services Field Office by clicking [here](#).

This species list is provided by:

Caribbean Ecological Services Field Office

caribbean_es@fws.gov

Post Office Box 491

Boqueron, PR 00622-0491

(786) 244-0081

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Caribbean Ecological Services Field Office

Post Office Box 491

Boqueron, PR 00622-0491

(939) 320-3135

PROJECT SUMMARY

Project Code: 2024-0091960
Project Name: Rehabilitación Plaza de Recreo Cristobal Colón, (PR-CRP-000446)
Project Type: Recreation - Maintenance / Modification
Project Description: The project is located at Vicente Pales #3 Street Guayama, Puerto Rico 00784 (Lat: 17.985259, Long: -66.113578). The work consists of installation, replacement, rehabilitation, restoration, or improvement of infrastructure works within the same footprint. Work includes integrating the infrastructure that we deem necessary to relocate the existing electrical panels, repair the electrical and irrigation system of the gardens, install solar lights, replace the finishing of the floor slab, renovate the monuments, build access ramps in front of the historical structures or municipal for easy access for visitors, replace the wood of all the seats that the square contains, and paint the ornamental fences of the gardens and patch up the walls. It is also considered planting more trees in the gardens to fill in the empty spaces of fallen trees and plant grass. The sprinkler system and receptacles will be replaced, and the mechanical system of the fountain will be restored.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@17.98519655,-66.11356420888197,14z>



Counties: Guayama County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

REPTILES

NAME	STATUS
Puerto Rican Boa <i>Chilabothrus inornatus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6628 General project design guidelines: https://ipac.ecosphere.fws.gov/project/Z53IHOH6GBHOBKM4OWS5F6GV7I/documents/generated/7159.pdf	Endangered

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the [National Wildlife Refuge](#) 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 OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

-
1. The [Bald and Golden Eagle Protection Act](#) of 1940.
 2. The [Migratory Birds Treaty Act](#) of 1918.
 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO BALD AND GOLDEN EAGLES WITHIN THE VICINITY OF YOUR PROJECT AREA.

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 habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO FWS MIGRATORY BIRDS OF CONCERN WITHIN THE VICINITY OF YOUR PROJECT AREA.

WETLANDS

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Anil Desa
Address: 120 S. Cortez St.
City: New Orleans
State: LA
Zip: 70119
Email: anil.desa@plexosgroup.com
Phone: 5046151557

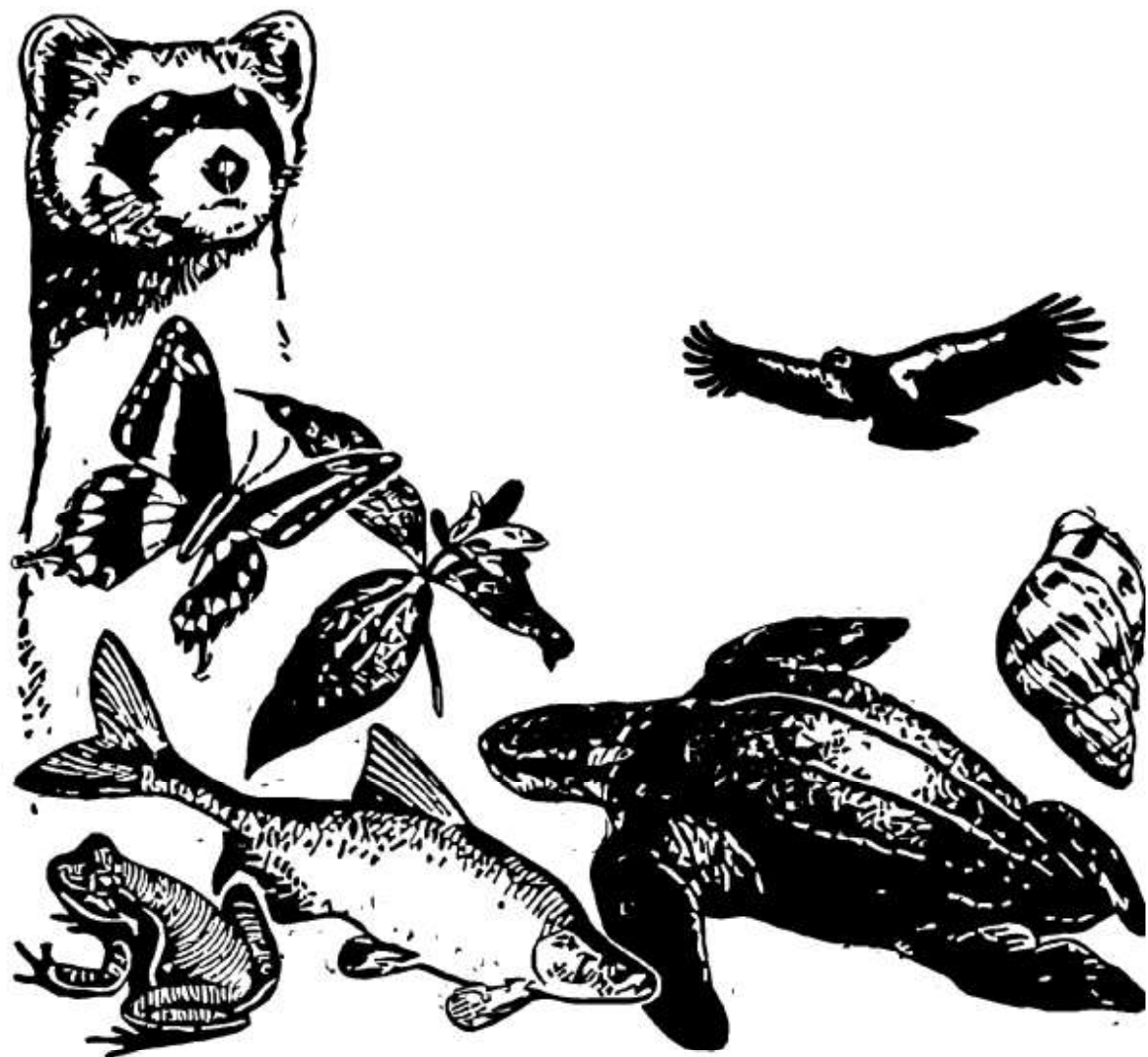
LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development

USFWS Puerto Rican boa Conservation Measures

Puerto Rican Boa

Generated August 07, 2023 02:13 PM UTC, IPaC v6.96.0-rc4





U.S. FISH AND WILDLIFE SERVICE CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

Conservation Measures for the Puerto Rican boa (*Chilabothrus inornatus*)

Section 7 (a)(1) of the Endangered Species Act (ESA) charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies, through consultation with the U.S. Fish and Wildlife Service (Service), to ensure their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats. Section 7 applies to the management of Federal lands as well as Federal actions that may affect listed species, such as Federal approval of private activities through the issuance of Federal funding, permits, licenses, or other actions. Any person that injures, captures, or kills a Puerto Rico boa is subject to penalties under the ESA. If Federal funds or permits are needed, the funding or permitting agency should initiate Section 7 consultation with the Service. To initiate a consultation under the Section 7 of the ESA, you must submit a project package with the established minimum requirements. These conservation measures should be incorporated into the project plans to minimize possible impacts to the species.

The endangered Puerto Rican (PR) boa (*Chilabothrus inornatus*, formerly *Epicrates inornatus*) is the largest endemic snake species that inhabits Puerto Rico. The PR boa is non-venomous and does not pose any life threatening danger to humans, but some individuals may try to bite if disturbed or during capture or handling. Its body color ranges from tan to dark brown with irregular diffuse marking on the dorsum, but some individuals lack marking and are uniformly dark. Juveniles may have a reddish color with more pronounced markings. In general, as they mature, their body color tends to darken.



The Puerto Rican boa was federally listed in 1970. Currently, the species has an island-wide distribution and occurs in a wide variety of habitat types ranging from wet montane to subtropical dry forest, and can be found from mature forest to areas with different degrees of human disturbance like roadsides or houses, especially if near their habitat in rural areas. This boa is considered mostly nocturnal, remaining less active, concealed or basking under the sun during the day.

The Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the PR boa and its habitat. These recommendations may be incorporated into new project plans and under certain circumstances into existing projects. Depending on the project, additional conservation measures can be implemented besides the ones presented in this document.

Conservation Measures:

1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational poster or sign with photo or illustration of the species should be displayed at the project site.
2. Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas.
3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area.
4. The PR boa is considered more active at night. Thus, in order to maximize its detection, the species should be searched at nights prior to habitat disturbance.
5. Once the area has been searched for PR boas, vegetation should first be cleared by hand to the maximum extent possible. Vegetation should be cut about one meter above ground prior to the use of heavy machinery for land clearing. Cutting vegetation by hand will allow boas present on site to move away on their own to adjacent available habitat. Any stone walls or naturally occurring rock piles must be carefully dismantled by hand as these are refuges for the snake. This will allow any boas present to vacate the site without injury.
6. For all boa sightings (dead or alive), record the time and date of the sighting and the specific location where it was found. PR boa data should also include a photo of the animal (dead or alive), site GPS coordinates, the time and date, and comments on how the animal was detected and its behavior.

7. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #6). **Do not capture the boa.** If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #: ((787) 724-5700, (787) 230-5550, (787) 771-1124). If immediate relocation is not an option, project-related activities at this area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue.
8. If a PR boa is captured by the PRDNER, record the name of the PRDNER staff and information on where the PR boa will be taken. This information should be reported to the Service.
9. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal (see #7). If not possible, the animal should be left alone until it leaves the vehicle on its own.
10. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.
11. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #6). If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions that will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.
12. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.

If you have any questions regarding the above conservation measures, please contact the Service:

- Marelisa Rivera, Deputy Field Supervisor
 - Email: marelisa_rivera@fws.gov
 - Office phone (786) 244-0081 or mobile (305) 304-1814
- José Cruz-Burgos, Endangered Species Coordinator
 - Email: jose_cruz-burgos@fws.gov
 - Office phone (786) 244-0081 or mobile (305) 304-1386



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Caribbean Ecological Services Field Office

P.O. Box 491

Boqueron, PR 00622



In Reply Refer To:

FWS/R4/CE/SFO/BK F/HUD

JAN 14 2013

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

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

Dear Mr. Maldonado:

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

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

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

Project Criteria

1. Street resurfacing.
2. Construction of gutters and sidewalks along existing roads.
3. Reconstruction or emergency repairs of existing buildings, facilities and homes.
4. Rehabilitation of existing occupied single family homes, and buildings; provided that equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation and that the lighting associated to the new facilities is not visible directly or indirectly from a beach.
5. Demolition of dilapidated single family homes or buildings; provided that the demolition debris is disposed in certified receiving facilities; equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation.
6. Rebuilding of demolished single family homes or buildings, provided that the new construction is within the existing footprint of the previous structure and/or within pre-existing grassed or paved areas, and that the lighting associated to the new facilities are not visible directly or indirectly from a beach.
7. Activities within existing Right of Ways (ROWs) of roads, bridges and highways, when limited to actions that do not involve cutting native vegetation or major 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 and the lighting associated to the facilities are not visible directly or indirectly from the beach.
10. Construction of facilities on vacant properties covered with grasses in urban areas, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach.
11. Construction of houses, buildings or acquiring lands in urban areas covered by grass for relocation of low income families and/or facilities that have been affected by weather conditions.

Determination:

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

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

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

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

Water Crossing Structures:

1. Use of bottomless culverts or single span bridges instead of traditional box or RCP culverts or any other water crossing structure that impacts the stream bottom, particularly in streams which support native fish. The use of bottomless culverts or a short span bridge would provide a more stable crossing and would not alter the stream habitat. However, if bottomless structures or bridges are not due to cost or engineering constraints, we recommend the following criteria be used to maintain good habitat in the streams:
 - a. The stream should not be widened to fit the bridge since this can lead to sedimentation during low flows and possible bank erosion during high flows. Rather, the bridge should be designed to fit the stream channel at the point of crossing. Culverts should be sized to carry natural bank full flow. Additional flow can be captured by culverts placed at a high elevation so as not to impact bank full flows.
 - b. Bridge Abutments, wing walls or any other structures should not intrude into the active stream channel.
 - c. All culvert footings must be completely sunk into the stream channel at both the inlet and outlet ends at a minimum of 10% of the culvert height. This will align the water crossing structure with the slope of the stream.
 - d. Waterways must not be blocked as to impede the free movement of water and fish. Materials during construction, such as grubbing, earth fills, and earth cut materials must not be piled where they can fall back into the stream and block the drainage courses.
 - e. Appropriate erosion and/or sedimentation control measures are to be undertaken to protect water quality until riverbanks are re-vegetated. It has been our experience that appropriate erosion and/or sedimentation

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control measures are not implemented properly by project contractors. In order to function properly: silt fences need to be buried 6" (proper depth is marked by a line on the silt fence) and supported at regular intervals by wood stakes. For that reason we are recommending that

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

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

Limitations*

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

The Service reserves the right to revoke or modify this BCL if:

1. New information reveals that the categories of work covered in this BCL may affect listed or designated critical habitat in a manner, or to an extent, not previously considered.
2. The categories of work included in this BCL are subsequently modified to include activities not considered in this review.
3. New species are listed or critical habitat designated that may be affected.

It is our mission to work with others, to conserve, protect and enhance fish wildlife and plants and their habitats for the continuing benefit of our people.

To obtain additional information on threatened and endangered species, you may visit our website <http://www.fws.gov/caribbean/ES> where you will also find the Map of the Species by Municipality and the Map of Critical Habitat. The USFWS has also developed a web based tool called IPac. Please visit <http://www.ecos.fws.gov/ipac> and familiarize yourself with the features we offer. We encourage you to begin your project planning process by requesting an Official Species List for your individual project that will include all species that may occur in the vicinity of the action area and includes a map of the action area. The site will also identify designated critical habitat, or other natural resources of concern that may be affected by your proposed project. At this time, best management practices or conservation measures are not available at the site but we expect the site to continue growing in its offering.

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These maps provide information on the species/habitat relations within a municipality and could provide the applicants an insight if the proposed action is covered under this BCL or may affect a species, thus requiring individual review.

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If you have any additional question regarding this BCL, please do not hesitate to contact .
Marelisa Rivera, Deputy Field Supervisor, at 787-851-7297 extension 206.

Sincerely yours,


Edwin E. Muñiz
Field Supervisor

Enclosures (Fact Sheets)

cc: OCAM, San Juan

Office of Federal Funds, 78 Municipalities of Puerto Rico

PRFAA

DNER