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: Improvements and Revitalization of Betances and Gonzalo Marin Streets, Jose De Diego, Antonio R. Barcelo and Ariosto Streets in the Urban Center (PR-CRP-000768)

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

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

State/Local Identifier: Puerto Rico / Arecibo

Preparer: Annette M. Fernandez Rosario, PE, PA, IPV, LEED AP, NGBS Green Verifier - Environmental Consultant

Certifying Officer Name and Title:

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

Consultant (if applicable): AVA Environmental Consultants, Inc.

Direct Comments to: Puerto Rico Department of Housing at environmentcdbg@vivienda.pr.gov

Project Location: Antonio R. Barceló Street, José De Diego Ave., Gonzalo Marín Street, Betances Street and Ariosto Cruz Street, Arecibo, Puerto Rico 00612. Coordinates are indicated in the following table. Staging area for the project will be located in an empty lot on Federico Degetau 206, Ave Stgo Iglesias,

Arecibo, Puerto Rico 00612 (cadaster number: 012-096-185-01, coordinates: 18.473699°, -66.720855°). A project location map can be found in **Attachment 1**.

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254

Description of the Proposed Project [24 CFR 50.12 & 58.32]**:** The Municipality of Arecibo proposes the restoration of streets, sidewalks, and curbs within the Historic Center of Arecibo. The scope of work includes:

- Demolition of existing sidewalks, curbs and gutters, and handicap ramps

- Cold milling of bituminous asphalt pavement and pavement demolition
- Demolition of two (2) Gazebos on the Romero Barcelo St.
- Removal of concrete barriers on the Romero Barcelo St.
- Reconstruction of sidewalks, curbs and gutters
- Reconstruction of entrances
- Construction of new handicapped ramps to comply with ADA and PRHTA standards.
- Construction of a new sidewalk extension in a segment of the Romero Barcelo St. Addition of parallel parking (5 total) between those extensions.
- Installation of solar powered lighting poles, trash bins, benches, bicycle racks, bicycle repair stations, QR Code Poles with historical and educational information, a security camera system, and signage and pavement markings for pedestrian crossings.
- The project will also make improvements to the existing storm water sewer system (adjustment of inlet location to conform to the new sidewalk and street geometry and cleaning) and landscaping on site.

The maximum depth for the excavations for the sidewalks and streets works will be 18”; for the storm water management system improvements, 5 ft; and for the new pole bases installation, 6 ft. The project area will be approximately 24,300 square meters (6 acres) and the staging area has an area of approximately 462.75 (0.1 acre). The project area will be limited to the existing right of way for the streets but will extend the sidewalk approximately 16.9% into the street’s right of way. Project drawings can be found in **Attachment 2**.

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: $5,704,818.81

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: $5,704,818.81

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

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

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	**Are formal compliance steps or mitigation required?**	**Compliance Determinations**
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	The project is not located within an FAA-designated civilian airport Runway Protection Zone (RPZ), or Accident Potential Zone (APZ). The project is not within 15,000 feet of a military airport nor 2,500 feet of a civilian airport. The nearest civil airport is the Rafael Hernandez Airport (BQN), located in Aguadilla and is approximately 142,652 feet west from the project, measured from the project boundary to the runway. The nearest military airport is Luis Muñoz Marín (SJU) Joint Military Airfield Muñiz Air National Guard, approximately 252,144 feet east from the project site, measured from the project boundary to the runway. Therefore, the project is in compliance with 24 C.F.R. Part 51, Subpart D. See Airport Hazards documentation in **Appendix C**.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	The proposed project is not located within a Coastal Barrier Resources Unit. The CBRS Unit closest to the Project is PR-81, [Puerto de Arecibo], located to the east of the project site at an approximate distance of 0.29 miles (1,545 feet). Therefore, the Project is in compliance with the Coastal Barrier Resources Act (CBRA). See Coastal Barrier Resources documentation in **Appendix D**.
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 (Area of Minimal Flood Hazard) and Zone X (Shaded) (0.2% Annual Chance Flood Hazard), outside the Special Flood Hazard Area (SFHA)/ 100-year floodplain as designated in FIRM Panel number 72000C0230J, effective date: 11/18/2009. Additionally, the proposed project is

		limited to improvements to existing streets, sidewalks, and curbs, as well as other infrastructure improvements. Therefore, the project does not require flood insurance in accordance with the Flood Disaster Protection Act of 1973 and the National Flood Insurance Reform Act of 1994. Documentation demonstrating the location outside the SFHA has been included. Therefore, the project is in compliance with 42 U.S.C. §§ 4001-4128 and 42 U.S.C. § 5154a. See Flood Insurance documentation in **Appendix E**.
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes ☐ No ☒	The project is located in the Municipality of Arecibo, which is designated as a nonattainment area for lead (2008) according to the U.S. Environmental Protection Agency's (USEPA) Online Green Book on Nonattainment Areas for Criteria Pollutants as per data obtained on 7/31/2025. However, the proposed project is limited to improvements to existing streets, sidewalks, and curbs, as well as other infrastructure improvements, and will not result in emissions exceeding de minimis levels. Temporary emissions from construction activities would be minimal and localized. Implementation of construction related air pollution controls (fugitive dust control and heavy equipment emissions controls) would reduce potential impacts. These temporary impacts are not significant and would not have an adverse impact on the residential, institutional, and commercial properties located near the project area. During construction, the contractor must implement measures to avoid dust from becoming a nuisance to neighboring areas and comply with applicable regulations. Therefore, the proposed project complies with the National Attaining Air Quality Standards (NAAQS). Due to its scope, no impact on air quality will be expected during its construction and operation. The proposed action complies with the Clean Air Act and 40 C.F.R. Parts 6, 51 and 93. No formal compliance steps or mitigation are required. See Clean Air documentation in **Appendix F**.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☒ No ☐	The project is located within the coastal zone of Puerto Rico, as defined by the State's Coastal Zone Management Program (CZMP). The project activities include demolition and reconstruction of existing sidewalks, curbs and gutters, and handicap ramps;

		improvements to the stormwater system and landscaping; construction of a new sidewalk extension and five (5) parallel parking spaces; and installation of solar powered lighting poles, trash bins, benches, bicycle racks, bicycle repair stations, QR Code Poles with historical and educational information, a security camera system, and signage and pavement markings for pedestrian crossings A consistency determination was obtained from the PRPB, confirming that the project is consistent with the State's CZMP on 11/7/2024 with the following conditions (to be fulfilled 90 days before the construction phase of the project): • Evidence of compliance with the PR Environmental Policy Law (Law number 416 of September 22, 2004) by providing copy of the Environmental Compliance Determination emitted by the PR Permit Management Office (OGPe). • Evidence of compliance with the Special Flood Hazard Zone Regulations (Planning Regulation Number 13) when it is required depending on the nature and location of the project. • In the case of projects that are located within designated Historic Zones, the project must have the endorsement of the Puerto Rican Culture Institute. This determination was based on a thorough review of the project's potential impacts on coastal resources and uses. The conditions above were satisfied, and supporting documentation was submitted to the PRPB on 9/23/2025, though the PRPB has not yet acknowledged their receipt. All relevant documentation, including the consistency determination, is included in the Environmental Review Record (ERR). Therefore, the project is in compliance with Section 307(c) and (d) of the Coastal Zone Management Act. See Coastal Zone Management documentation in **Appendix G**.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☒ No ☐	The project location consists of existing paved surfaces including streets, sidewalks, and curbs. The project area is located in an urban setting and is surrounded by urban residences and businesses. Historically, the

		project area has been part of the Arecibo urban area for hundreds of years, as evidenced by a preserved 18th century city plan that can be found in the Historic Preservation documentation in **Appendix M**. The streets included in the proposed project have existed as streets or thoroughfares for the majority of the municipality's history. The site was evaluated for its proximity to known hazardous sites, including those listed on the EPA Superfund National Priorities List, state equivalent lists, and sites within 3,000 feet of a toxic or solid waste landfill. Within a 3,000-feet radius measured from the Project perimeter, seventeen (17) locations are identified in NEPAssist with contamination and toxic substances. Enforcement and Compliance History Online (ECHO) states that the compliance status is No Violation Identified for all seventeen sites. There are no Superfund or Brownfield sites within one mile of the project location. Additional information obtained from the EDR Radius Report and DNER 2020 LUST lists: • Two (2) Active Leaking Underground Storage Tanks (LUSTs) • Five (5) Inactive LUSTs According to the information available, these facilities do not appear to present an environmental concern for the proposed project site. The five inactive LUST sites were released from further investigation and remedial action by DNER and have all been inactive for 20 or more years. The site topography at the locations of the two active LUST sites suggests that any contamination at these sites was unlikely to migrate and impact the project area. A field inspection was conducted on 9/29/2025. No recognized environmental concerns of hazardous conditions were observed during the site visit. The project area was observed to be a typical urban area developed with impervious surfaces including normal urban streetscapes, some non-hazardous domestic/commercial garbage on the curb, asphalt stains, and stormwater basins. Lead-based paint (LBP) and asbestos containing material (ACM) surveys were performed at the project location. Asbestos was not found. Positive LBP was found on curbs, ramps, hydrants, posts, and pavement marks, mostly along Calle Ariosto Cruz and Calle

		Gonzalo Marín. Mitigation measures will be taken to safely remove the LBP in the areas that will be impacted by the project in compliance with local regulations. The project is limited to public infrastructure improvements. The proposed project does not involve structures that are occupied or are intended to be occupied at least four (4) hours a day, as defined by HUD Notice CPD-23-103. Therefore, HUD radon requirements are not applicable and the project is exempt from radon testing. If any hazardous materials are encountered during construction, the contractor will notify the project owner before the continuation of work. Therefore, the project is in compliance with 24 C.F.R. § 50.3(i) and § 58.5(i)(2). See Contamination and Toxic Substances documentation in **Appendix H** and Field Inspection Report in **Appendix I**.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☐ No ☒	PRDOH, as the Responsible Entity, is conducting due diligence to assess Federally Listed Threatened and Endangered Species, in accordance with the Endangered Species Act Section 7. This involves consulting the U.S. Fish and Wildlife Service (USFWS). A review of the USFWS IPaC tool identified the potential presence of *Chilabothrus inornatus* (Puerto Rican Boa) and *Trichechus manatus* (West Indian Manatee). The USFWS has not made a critical habitat designation for the Puerto Rican Boa. The USFWS has designated a final critical habitat for the West Indian Manatee, but there is no habitat or critical habitat within or near the proposed project area. Furthermore, the proposed project is within the existing Right of Ways. The project meets the following criteria of USFWS Blanket Clearance Letter: “street resurfacing”; “construction of gutters and sidewalks along existing roads”; and “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.”

		A blanket clearance letter was submitted to the agency for determination, which identified the proposed project's range within the habitat of federally listed species and critical habitats on 6/7/2024. The agency responded on 6/10/2024 with the determination that the proposed project qualifies for the blanket clearance letter and is not likely to adversely affect federally-listed species. If a Puerto Rican Boa is found in the Project action site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the CM shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa. Therefore, the project is in compliance with the Endangered Species Act of 1973, particularly section 7; 50 C.F.R. Part 402. See Endangered Species documentation in **Appendix J**.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	The proposed project does not include development construction, rehabilitation that will increase residential densities, or conversion. Therefore, the Project is in compliance with the 24 C.F.R. Part 51 Subpart C.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	According to the USDA Farmland Classification Map, there is no prime or unique farmland on the project site, as identified by NRCS. The project area is already developed and will remain within the existing Right of Way and therefore, does not involve new construction, acquisition of undeveloped land, or conversion of land use. Additionally, the proposed project is located in the urban center of the municipality of Arecibo. The Farmland Protection Policy Act does not apply to projects already in or committed to urban development. Therefore, the project is in compliance with the Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 C.F.R. Part 658. See Farmlands Protection documentation in **Appendix K**.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☒ No ☐	The project is located within the floodplain. According to the Flood Insurance Rate Map (FIRM), Panel number 72000C0230J, effective 11/18/2009, the project is primarily in Zone X (Area of Minimal Flood

		Hazard), with a small area located in Zone X (Shaded) (0.2% Annual Chance Flood Hazard). However, according to the Advisory Base Flood Elevation (ABFE) map issued 10/18/2024, the project is partially located in Zone A. The Preliminary FIRM Map is not available for the project area. Due to the proposed project's location within the ABFE floodplain, the floodplain decision-making process was required. Based on the scope of work, this project meets the requirements under 24 CFR 55.14(e): "HUD's or the recipient's actions under any HUD program involving the repair, rehabilitation, or replacement of existing nonstructural improvements including streets, curbs, and gutters, where any increase of the total impervious surface area of the facility is de minimis. This provision does not include critical actions, levee systems, chemical storage facilities (including any tanks), wastewater facilities, or sewer lagoons". The 5-step decision-making process was determined to be the appropriate approach for evaluation under 24 CFR Part 55. The decision-making process determined that the proposed project would not impact the natural and beneficial values of the floodplain and would not result in any additional risk to life or property. Therefore, the Project is in compliance with Executive Order 11988. See Floodplain Management documentation in **Appendix L**.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☒ No ☐	The project was assessed for its potential effects on identified historic properties. This assessment considered direct, indirect, and cumulative impacts on the integrity and significance of the properties. SOI Qualified Archaeologist Dylan Zedaker, M.A; and SOI-Qualified Architect/Architectural Historians Berenice Sueiro-Vázquez, B Arch and Arleen Pabón-Charneco, PhD JD, conducted historical archaeological and architectural evaluations for the property. The evaluation concluded that project actions will not affect the historic properties that compose the Area of Potential Effect (APE). Based on this finding, SHPO consultation was initiated on 5/27/2025 for review and concurrence with a determination of No Adverse Effect.

		On 6/27/2025, SHPO concurred with the determination that the project will have no adverse effect on historic properties conditioned to archaeological monitoring during all ground disturbing activities. On 8/25/2025, an Archaeological Monitoring Plan was submitted to SHPO. In a letter dated 9/19/2025, the State Historic Preservation Officer Carlos A. Rubio Cancela approved the plan. Therefore, the project is in compliance with the National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 C.F.R. Part 800. See Historic Preservation documentation in **Appendix M**.
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☐ No ☒	The project does not involve the development of noise-sensitive uses such as housing, schools, or healthcare facilities. The scope of work consists of the restoration of streets, sidewalks, and curbs, which are already subject to typical urban noise levels. The proposed project will not involve new construction or expansion of the right of way. The project site is not located within an FAA-designated airport noise exposure zone, nor is it within the immediate vicinity of major highways or railway corridors. Temporary noise impacts related to construction activities are expected but will be limited to standard daytime hours. Therefore, the project is in compliance with the Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 C.F.R. Part 51, Subpart B.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	There are no sole source aquifers in Puerto Rico. Therefore, the proposed project site is not located within a sole source aquifer, nor will it directly or indirectly impact one. The nearest sole source aquifer is the Biscayne Aquifer SSA, located in the state of Florida in the continental United States. This SSA is located approximately 991.56 miles from the project site. Therefore, the project is in compliance with the Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 C.F.R. Part 149. See Sole Source Aquifer documentation in **Appendix N**.

Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	According to the National Wetland Inventory (NWI), the proposed project is located adjacent to Estuarine and Marine Deepwater and Estuarine and Marine wetlands. The nearest wetland is approximately 80.5 feet from the project site, as shown in the NWI map in **Appendix O**. Additionally, the project area is already developed and no work is proposed outside of the existing Right of way. Standard construction best management practices will be used to avoid indirect impacts to any offsite wetlands. The 5-step decision-making process was completed and found that the proposed project would not affect the natural and beneficial functions of any offsite wetlands. All findings are consistent with the regulatory requirements of 24 CFR § 55.9. The proposed project complies with the requirements of Executive Order 11990, particularly sections 2 and 5. See Wetlands Protection documentation in **Appendix O**.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	The wild and scenic rivers in Puerto Rico are in the El Yunque National Forest. These rivers include La Mina River, Icacos River, and Mameyes River, with the La Mina River being the closest, approximately 61.65 miles (325,506 feet) east of the project site. Therefore, the project is in compliance with Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c). See Wild and Scenic Rivers documentation in **Appendix P**.

Field Inspection (Date and completed by)**:** A field inspection was conducted by Mildred Guzman of ICF Consultants Inc. personnel on 9/29/2025 and can be found in **Appendix I**.

Summary of Findings and Conclusions: The proposed project consists of the restoration of the urban center's streets and sidewalks. The project complies with the statutes, executive orders, and regulations evaluated as part of this assessment. The proposed project is not expected to negatively impact the area, as it is being undertaken in a previously developed area and all identified potential impacts can be mitigated. With implementation of the mitigation measures found below, particularly for Coastal Zone Management, Contamination and Toxic Substances, Floodplain Management, Historic Preservation, and Wetlands Protection, no significant impacts are anticipated, and the development of an Environmental Assessment is not required. Standard construction best management practices will be utilized during the construction phase of the project. The proposed street improvements will

improve safety and accessibility for pedestrians and motorists alike, and the improvements to the stormwater system will help relieve flooding in the Arecibo urban center.

Mitigation Measures and Conditions

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

Law, Authority, or Factor	Mitigation Measure
Clean Air	Construction related air pollution controls will be implemented to control fugitive dust and heavy equipment emissions and reduce potential impacts.
Coastal Zone Management	The proposed project is located within the coastal zone of Puerto Rico, as defined by the state's Coastal Zone Management Program (CZMP). A consistency determination was obtained from the PRPB, confirming that the project is consistent with the State's CZMP on 11/7/2024 with the following conditions (to be fulfilled 90 days before the construction phase of the project): • Evidence of compliance with the PR Environmental Policy Law (Law number 416 of September 22, 2004) by providing copy of the Environmental Compliance Determination emitted by the PR Permit Management Office (OGPe). • Evidence of compliance with the Special Flood Hazard Zone Regulations (Planning Regulation Number 13) when it is required depending on the nature and location of the project. • In the case of projects that are located within designated Historic Zones, the project must have the endorsement of the Puerto Rican Culture Institute.
Contamination and Toxic Substances	Positive LBP was found on curbs, ramps, hydrants, posts, and pavement marks, mostly along Calle Ariosto Cruz and Calle Gonzalo Marín. Mitigation measures will be taken to safely remove the LBP in the areas that will be impacted by the project in compliance with local regulations. If any hazardous materials are encountered during construction, the contractor will notify the project owner before the continuation of work.

Endangered Species	If a Puerto Rican Boa is found in the Project action site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the CM shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa.
Floodplain Management	According to the Advisory Base Flood Elevation (ABFE) map issued 10/18/2024, the project is partially located in Zone A of the 100-year floodplain. Due to the proposed project's location within the ABFE floodplain, the floodplain decision-making process was required. The 5-step decision-making process was determined to be the appropriate approach for evaluation under 24 CFR Part 55. The decision-making process determined that the proposed project would not impact the natural and beneficial values of the floodplain and would not result in any additional risk to life or property.
Historic Preservation	On June 27, 2025, SHPO concurred with a determination of No Adverse Effect, subject to the condition that an archaeological monitoring plan be implemented during all ground-disturbing activities. The required monitoring plan was subsequently submitted and approved, with SHPO concurrence on September 19, 2025, confirming that the plan is adequate to mitigate potential impacts to cultural resources (se Historic Preservation documentation in **Appendix M**). A qualified professional archaeologist will be present to monitor excavation and other ground-disturbing activities. Should any historic or pre-contact archaeological materials or features be encountered, the archaeologist will follow the approved protocol, ensuring proper documentation, evaluation, and coordination with SHPO prior to resuming work.
Wetlands Protection	According to the National Wetland Inventory (NWI), the proposed project is located adjacent to Estuarine and Marine Deepwater and Estuarine and Marine wetlands. The nearest wetland is approximately 80.5 feet from the project site. The 5-step decision-making process was completed due to the proposed project's proximity to a wetland and found that the proposed project would not affect the natural and beneficial functions of any offsite wetlands. Standard construction best management practices will be used to avoid indirect impacts to any offsite wetlands.

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: 10/3/2025

Name/Title/Organization: Annette M. Fernandez Rosario / Environmental Consultant / AVA Environmental Consultants Inc.

Certifying Officer Signature: Janette I. Cambrelen Digitally signed by Janette I. Cambrelen Date: 2025.11.25 09:52:09 -04'00' Date: 11/25/2025

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

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

List of Appendices

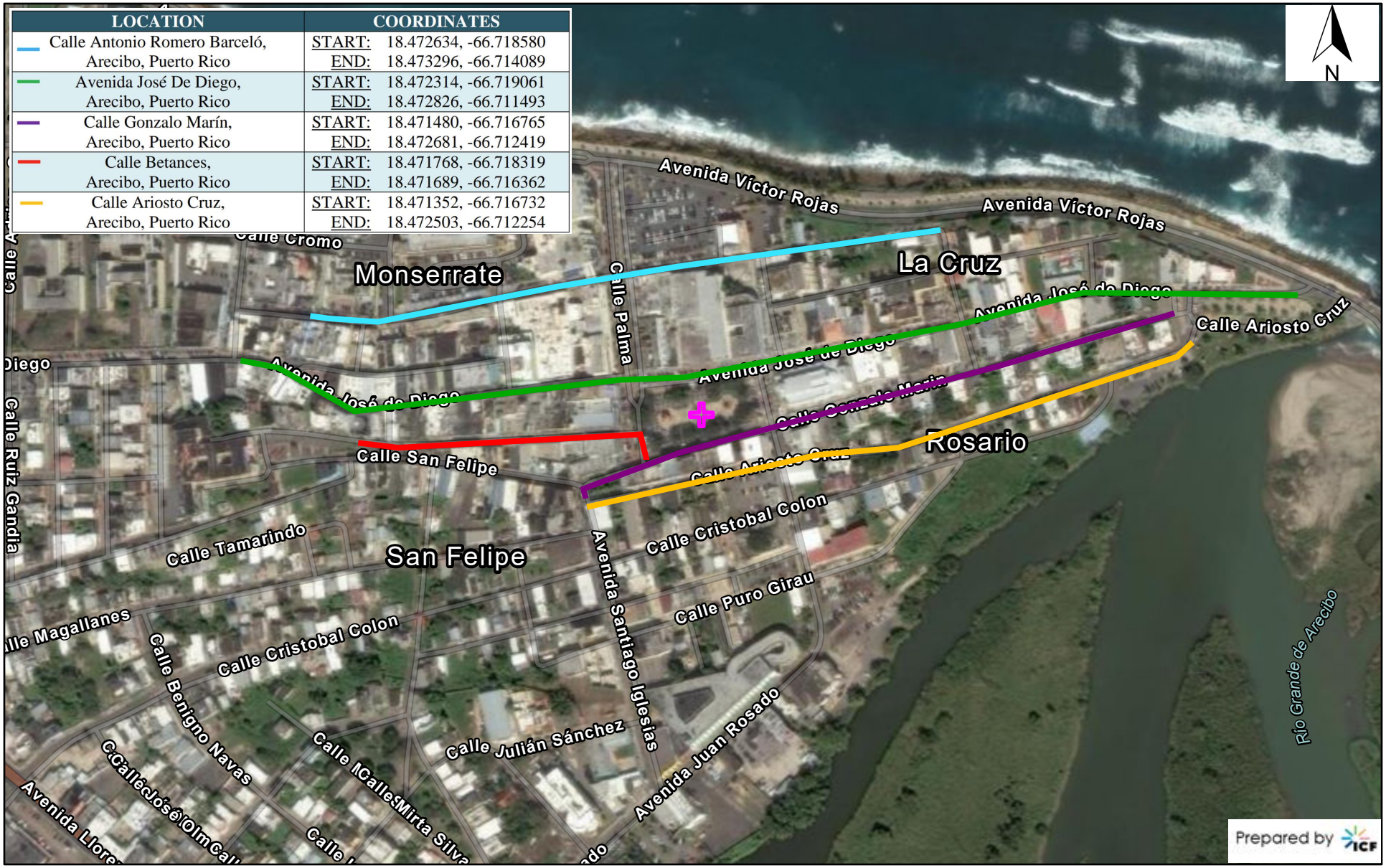
A	Project Location Map
B	Project Drawings
C	Airport Hazards
D	Coastal Barrier Resources
E	Flood Insurance
F	Clean Air
G	Coastal Zone Management
H	Contamination and Toxic Substances
I	Field Inspection Report
J	Endangered Species
K	Farmland Protection
L	Floodplain Management
M	Historic Preservation
N	Sole Source Aquifers
O	Wetlands Protection
P	Wild and Scenic Rivers

Appendix A:
Project Location Map

PR-CRP-000768 Project Location Map

Address: Arecibo, PR 00612

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254



August 13, 2025

Search Result (point)

Source: EPA NEPAssist

1:4,514

0 0.04 0.07 0.14 mi

0 0.05 0.1 0.2 km

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

Appendix B:
Project Drawings

PR-CRP-000768
URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO

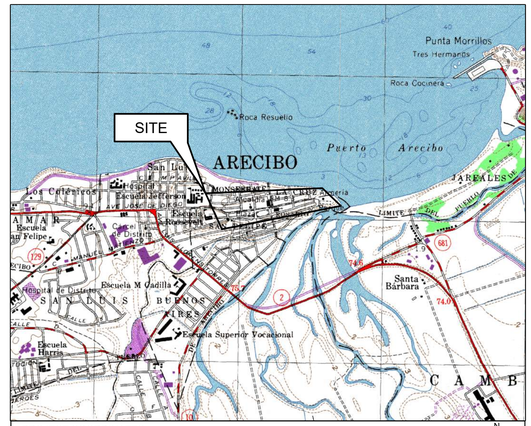
ARECIBO PUERTO RICO

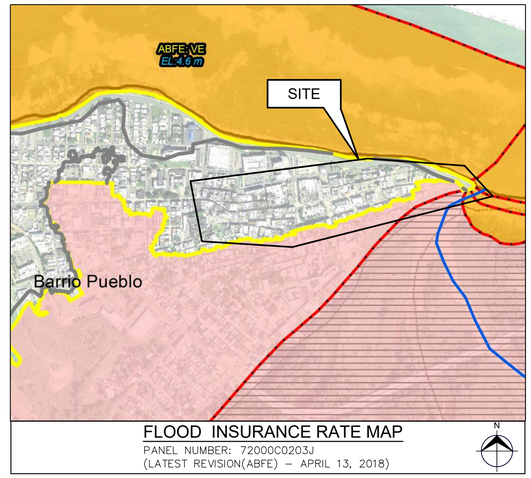
100% DESIGN DRAWINGS

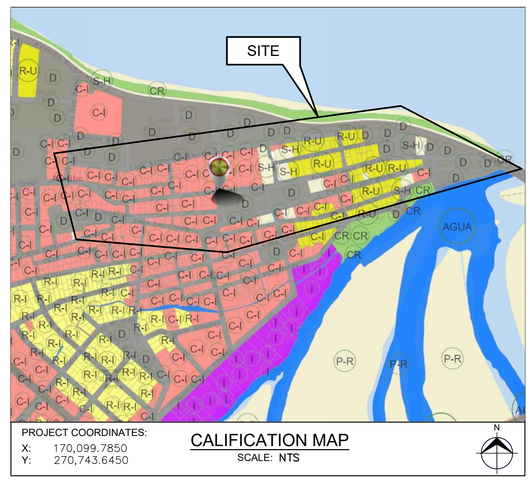
INDEX

SHEET	DESCRIPTION:
GENERAL PLANS	
T000	TITTLE SHEET INDEX, LOCATION MAP, FLOOD MAP & CALIFICATION
CIVIL PLANS	
D001	GENERAL DEMOLITION PLAN
D100-D101	DEMOLITION PLAN CALLE ANTONIO ROMERO BARCELO
D102-D104	DEMOLITION PLAN AVE. JOSE DE DIEGO
D105	DEMOLITION PLAN CALLE RAMON E. BETANCES
D106-D107	DEMOLITION PLAN CALLE GONZALO MARIN
D108-D109	DEMOLITION PLAN CALLE ARIOSTO CRUZ
C001	GENERAL SITE PLAN
C200-C201	LAYOUT PLAN CALLE ANTONIO ROMERO BARCELO
C202-C204	LAYOUT PLAN AVE. JOSE DE DIEGO
C205	LAYOUT PLAN CALLE RAMON E. BETANCES
C206-C207	LAYOUT PLAN CALLE GONZALO MARIN
C208-C209	LAYOUT PLAN CALLE ARIOSTO CRUZ
C230-C231	TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE ANTONIO ROMERO BARCELO
C232-C234	TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN AVE. JOSE DE DIEGO
C235	TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE RAMON E. BETANCES
C236-C237	TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE GONZALO MARIN
C238-C239	TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE ARIOSTO CRUZ
C240	TRAFFIC SIGNS TABLES
C241	PAVEMENT MARKINGS DETAILS
C480	EROSION AND SEDIMENTATION CONTROL PLAN - STAGING AREA
C481-C482	EROSION AND SEDIMENTATION CONTROL PLAN CALLE ANTONIO ROMERO BARCELO
C483-C485	EROSION AND SEDIMENTATION CONTROL PLAN AVE. JOSE DE DIEGO
C486	EROSION AND SEDIMENTATION CONTROL PLAN CALLE RAMON E. BETANCES
C487-C488	EROSION AND SEDIMENTATION CONTROL PLAN CALLE GONZALO MARIN
C489-C490	EROSION AND SEDIMENTATION CONTROL PLAN CALLE ARIOSTO CRUZ
C491	EROSION AND SEDIMENTATION CONTROL DETAILS
C640	PRASA UTILITIES DETAILS
C700-C704	TYPICAL SECTIONS & DETAILS
MOT1	MAINTENANCE OF TRAFFIC GENERAL NOTES
MOT2	MAINTENANCE OF TRAFFIC TYPICAL APLICATIONS
MOT3	MAINTENANCE OF TRAFFIC CONSTRUCTION SIGNS TABLE
MOT4	MAINTENANCE OF TRAFFIC GUIDE SIGN DETAILS

SHEET	DESCRIPTION:
ARCHITECTURAL PLANS	
AS100	ARCHITECTURAL SITE PLAN
AE101-AE102	PROPOSED LAYOUT PLAN
AE103	PROPOSED LAYOUT PLAN & SCHEDULE
ELECTRICAL PLANS	
E100	GENERAL LIGHTING AND SECURITY SITE PLAN
E200-E201	CALLE ANTONIO ROMERO BARCELO - PARTIAL SECURITY SITE PLAN
E202-E204	AVE. JOSE DE DIEGO - PARTIAL LIGHTING AND SECURITY SITE PLAN
E205	CALLE RAMON E. BETANCES - PARTIAL SECURITY SITE PLAN
E206-E207	CALLE GONZALO MARIN - PARTIAL SECURITY SITE PLAN
E208-E209	CALLE ARIOSTO CRUZ - PARTIAL SECURITY SITE PLAN
E300	GENERAL NOTES, LEGEND AND DETAILS
E301-E302	PHOTOS - EXISTING CONDITIONS







OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	09/01/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

SHEET TITLE

TITLE SHEET, INDEX, LOCATION PLAN, FLOOD MAP & CALIFICATION

SHEET ID

T000

9/2/2025 9:09:10 PM C:\Users\Luz M. Rodriguez\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\T000.dwg

LEGEND:

N.I.C. NOT IN CONTRACT

NOTE:

1. TOPOGRAPHIC AND SURVEY PLAN FOR THIS PROJECT (EXISTING SITE CONDITIONS) WAS PREPARED BY LICENSED SURVEYOR RODOLFO RIVERA RUIZ (LIC # 23692), DATED JUNE 25, 2023.

SURVEY NOTES:

1. ALL DISTANCES ARE EXPRESSED IN METERS, UNLESS OTHERWISE NOTED.
2. FIELDWORK PERFORMED ON JUNE 25, 2023.
3. HORIZONTAL AND VERTICAL CONTROL SYSTEM IS REFERRED TO THE PUERTO RICO STATE PLANE COORDINATE SYSTEM: NAD 83 (CONUS) (Mol) LOCAL DATUM EPOCH 2010 WITH THE GEOID 18 (PUERTO RICO) FIXED (G18PR) GEOID MODEL.
4. THE SURVEYING WAS MADE WITH A R8 GPS UNIT, TOTAL STATION TRIMBLE S5 AND TSC5 DATA COLLECTOR.
5. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FIELD CONDITIONS AND MEASUREMENTS ON PLANS. IF ANY DISCREPANCIES ARE FOUND CONTRACTOR MUST NOTIFY THE SURVEYOR, ENGINEER, ARCHITECT OR OWNER BEFORE CONTINUING ANY WORK.
6. LOCATION FOR UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE BASED ON ABOVE GROUND EVIDENCE. CONTRACTOR MUST NOTIFY ALL UTILITY COMPANIES PRIOR TO THE BEGINNING OF ANY JOB.

N

GENERAL DEMOLITION PLAN
SCALE: 1:1,200

5 0 10 20 50 80
SCALE: 1:1,200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

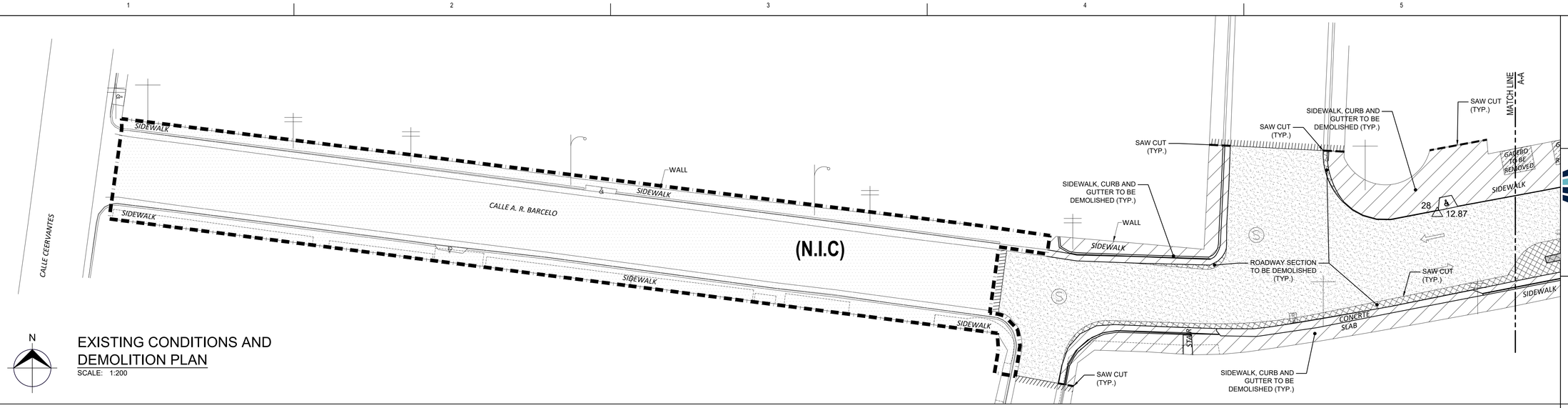
SHEET TITLE

GENERAL DEMOLITION PLAN

SHEET ID

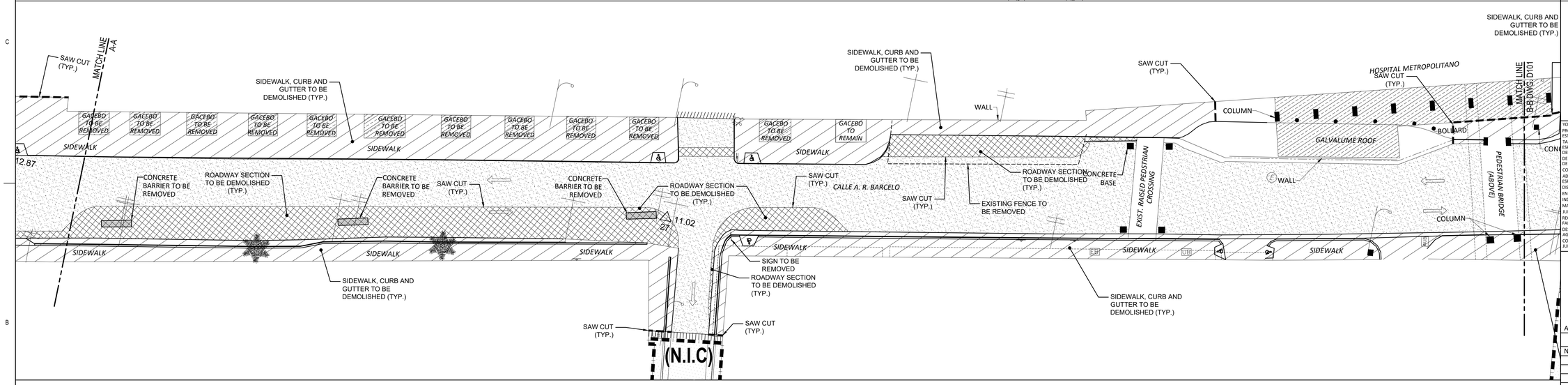
D001

8/29/2025 10:21:15 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D001.dwg



EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

LEGEND:

- GUTTER FLOW
- METAL FENCE
- GUARD RAIL
- STORM MAN HOLE
- SANITARY MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- WATER MANHOLE
- CLEAN OUT
- CATCH BASINS
- LIGHTING POLES (SEE ELECTRICAL PLANS)
- POWER POLES (TO REMAIN)
- TELEPHONE POLES (TO REMAIN)
- TRAFFIC DIRECTION
- HANDICAP RAMP
- TRAFFIC SIGN
- GUY POLE
- ELECTRIC UTILITY BOX
- TELEPHONE UTILITY BOX
- UKNOW BOX
- WATER UTILITY BOX
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- TREE & PALM
- CONTROL STATIONS
- WATER DISCHARGE PIPE

CONTROL STATIONS

STATION	(Y) NORTH	(X) EAST	ELEVATION	DESCRIPTION
4	270808. 9350	170619. 4170	3. 82	STA. PK NAIL
5	270811. 4860	170656. 9760	5. 32	STA. PK NAIL
8	270843. 7760	170529. 6740	4. 39	STA. PK NAIL
9	270848. 3540	170479. 2080	4. 76	STA. PK NAIL
12	270849. 0400	170465. 5160	5. 00	STA. PK NAIL
13	270808. 1000	170461. 2890	4. 61	STA. PK NAIL
15	270778. 3260	170364. 4120	6. 67	STA. PK NAIL
16	270751. 1850	170370. 0790	7. 22	STA. PK NAIL
17	270825. 0540	170345. 9850	7. 93	STA. PK NAIL
19	270854. 8160	170347. 2000	7. 94	STA. PK NAIL
20	270839. 9890	170266. 4610	7. 96	STA. PK NAIL
27	270797. 0840	169991. 2130	11. 02	STA. PK NAIL
28	270789. 5770	169924. 1750	12. 87	STA. PK NAIL
33	270690. 6310	169813. 2370	17. 40	STA. PK NAIL
38	270686. 1750	169849. 5400	15. 05	STA. PK NAIL
39	270680. 6510	169903. 5140	10. 92	STA. PK NAIL
43	270662. 2450	169991. 4240	8. 51	STA. PK NAIL
45	270665. 2580	170002. 6220	8. 29	STA. PK NAIL
47	270743. 6450	170099. 7850	8. 05	STA. PK NAIL
48	270724. 1220	170125. 9670	7. 86	STA. PK NAIL
20	270839. 9890	170266. 4610	7. 96	STA. PK NAIL
69	270759. 7980	170540. 8860	1. 92	STA. PK NAIL
65	270733. 5570	170468. 1530	1. 48	STA. PK NAIL
63	270681. 0080	170315. 1150	1. 83	STA. PK NAIL
52	270700. 1680	170201. 7490	6. 00	STA. PK NAIL
51	270743. 1850	170209. 4390	6. 00	STA. PK NAIL
53	270679. 5290	170114. 4460	5. 38	STA. PK NAIL
54	270697. 2330	170113. 3260	6. 48	STA. PK NAIL

DEMO LEGEND:

- SAW CUT
- SIDEWALK, CURB AND GUTTER TO BE DEMOLISHED.
- CONCRETE PAVEMENT SLAB REPAIRS
- 0.05m COLD MILLING OF BITUMINOUS ASPHALT PAVEMENT
- ROADWAY SECTION TO BE DEMOLISHED
- CONCRETE PAVERS TO BE REMOVED/DEMOLISHED
- CONCRETE BARRIER TO BE REMOVED
- LIMIT OF N.I.C.
- N.I.C NOT IN CONTRACT
- EXISTING INLET TO BE CLEANED AND REPAIR. FRAME AND GRATE TO BE REPLACED. TOP OF STRUCTURE TO BE ADJUSTED TO FINAL LAYOUT AND GRADE. (SEE DETAILS ON DWG. C700)
- EXISTING SANITARY MANHOLE TO BE ADJUSTED TO FINAL GRADE

NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ARE EXPRESSED IN METERS, UNLESS OTHERWISE NOTED.
2. STEEL PIPES TO BE REMOVED AND DISPOSED.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

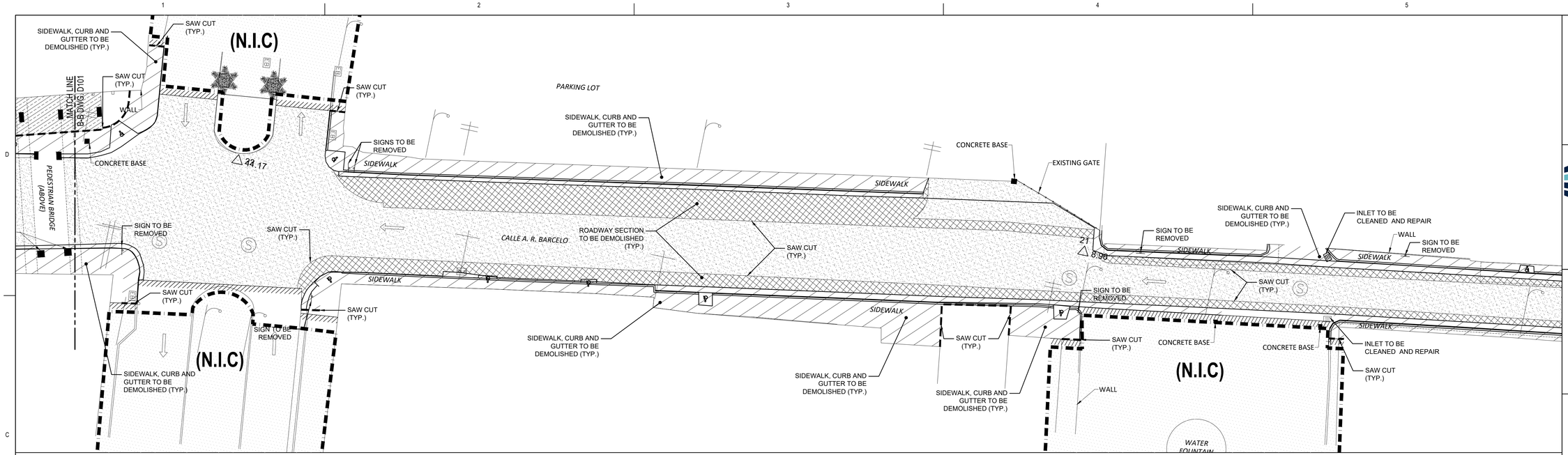
SHEET TITLE

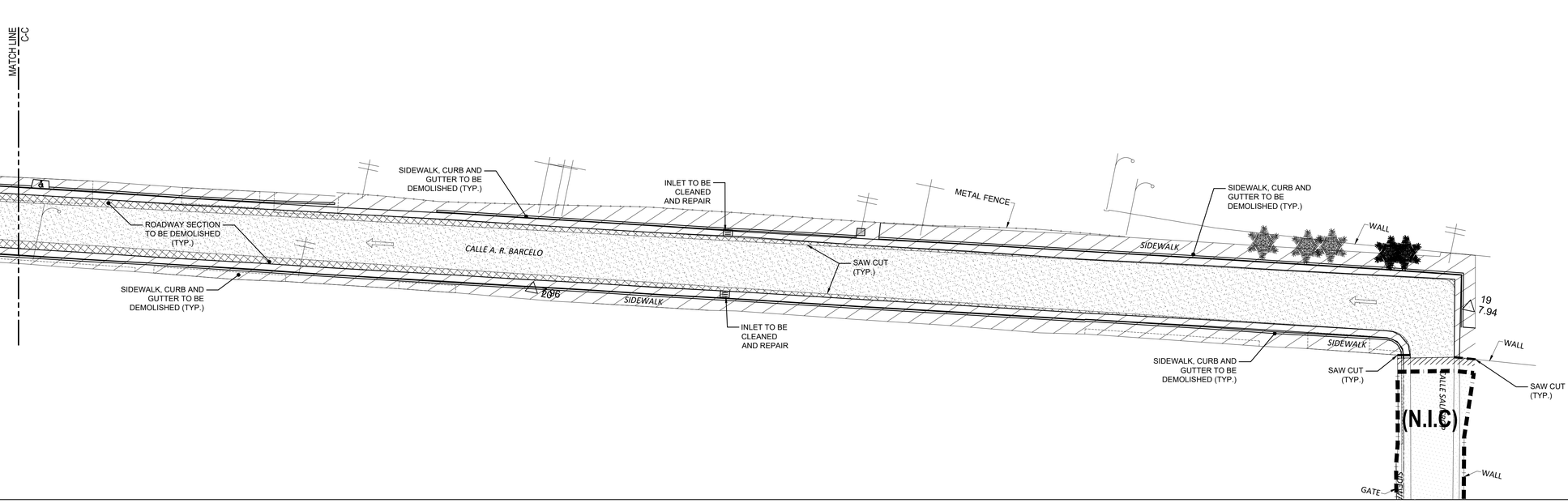
DEMOLITION PLAN
CALLE ANTONIO ROMERO BARCELO

SHEET ID

D100

8/29/2025 10:21:21 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D100-1.dwg





N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

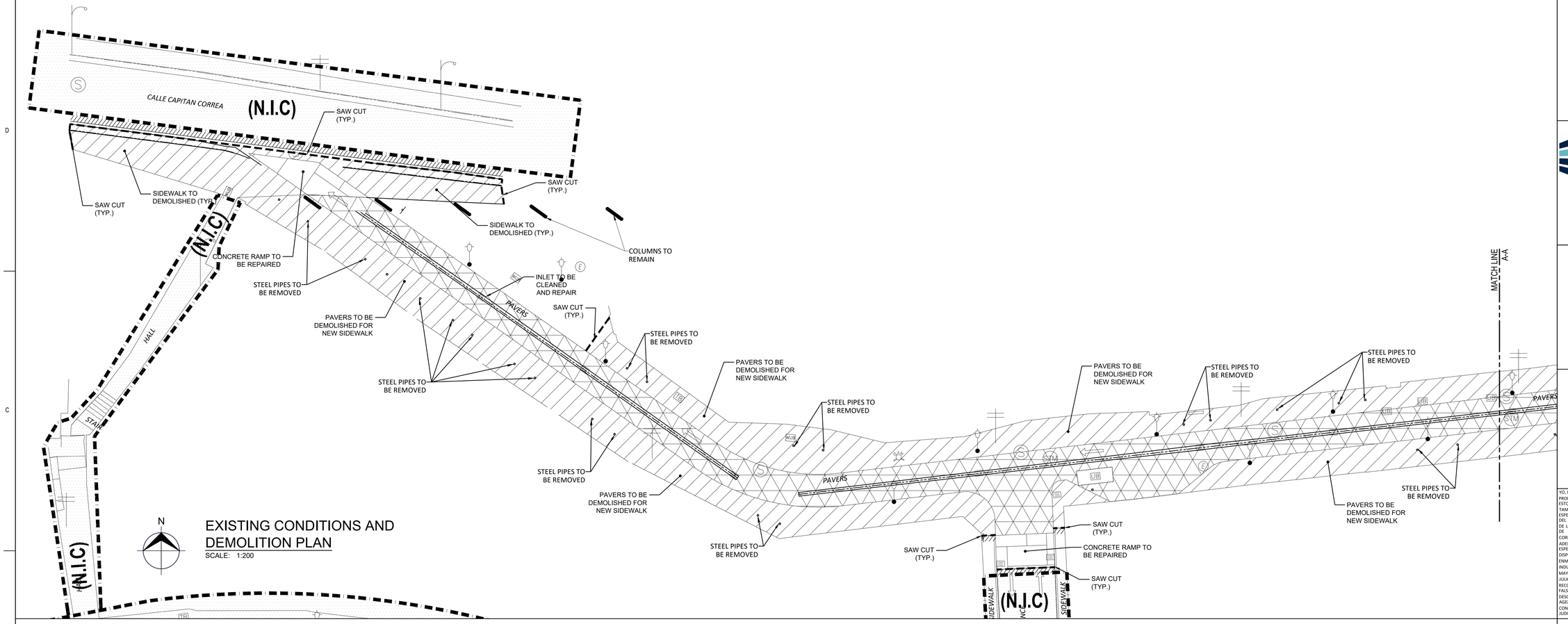
SHEET TITLE

DEMOLITION PLAN
CALLE ANTONIO ROMERO BARCELO

SHEET ID

D101

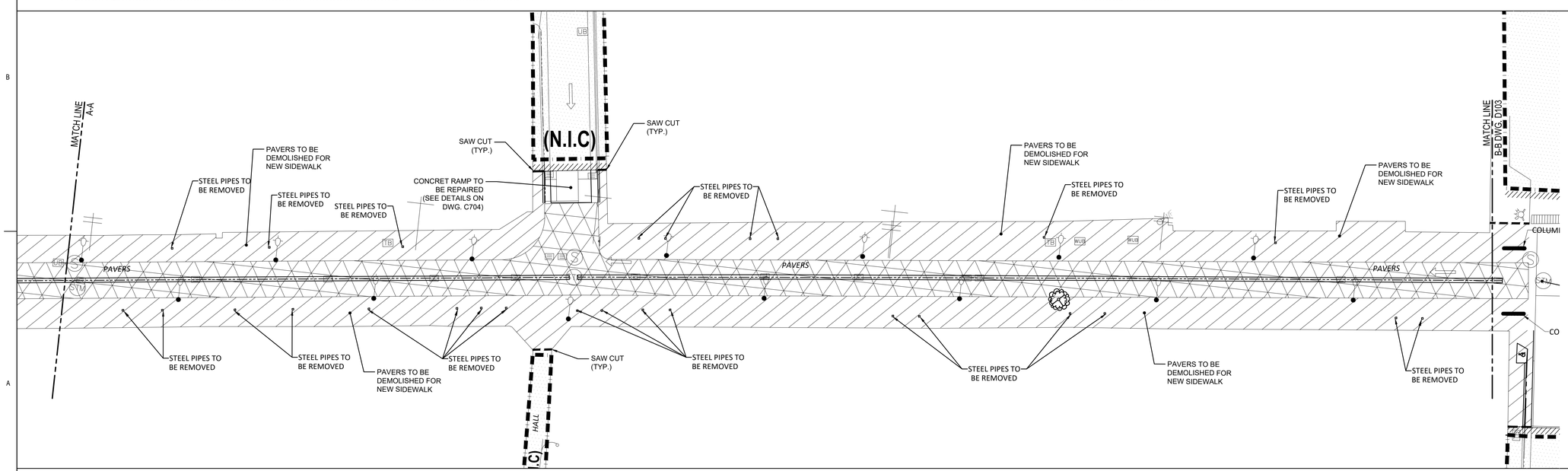
8/29/2025 10:21:26 AM C:\Users\Miguel Matos\OneDrive - Benitez,Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D100-1.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

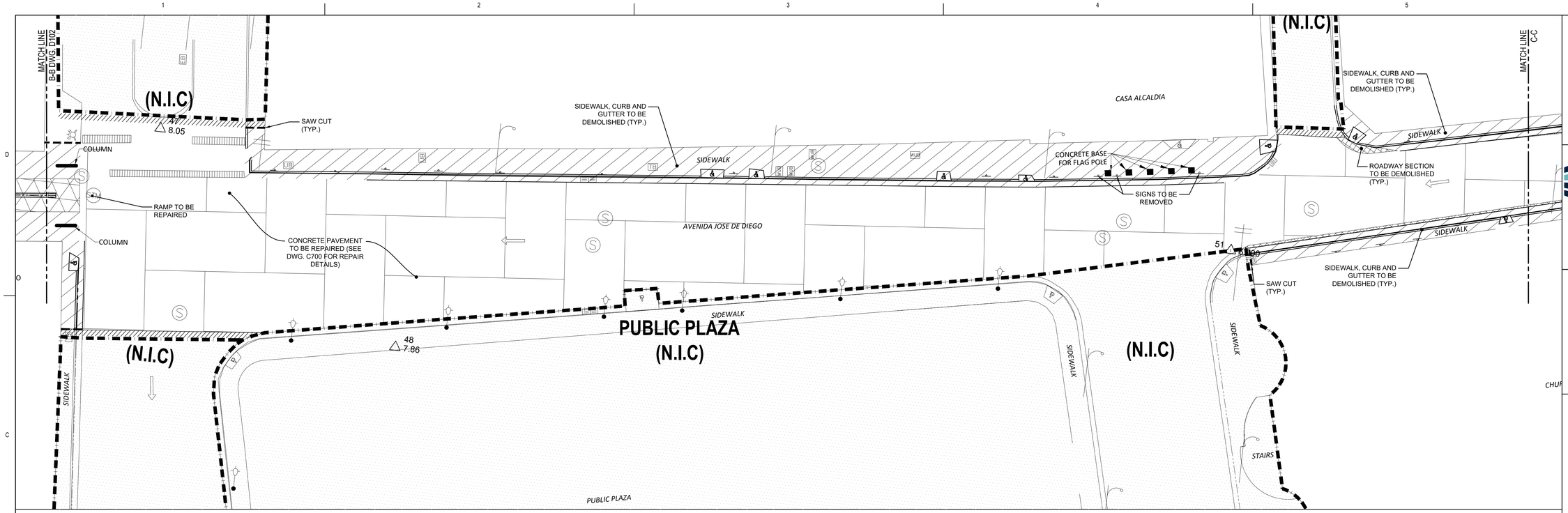
SHEET TITLE

DEMOLITION PLAN
AVE. JOSE DE DIEGO

SHEET ID

D102

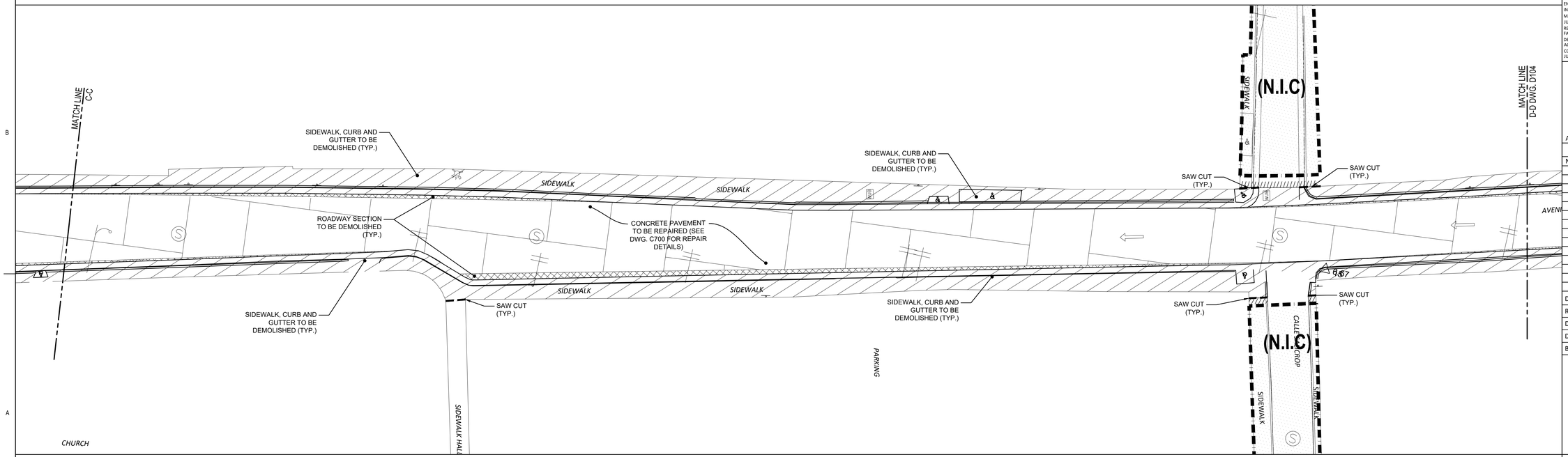
8/29/2025 10:21:33 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D102-3-4.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

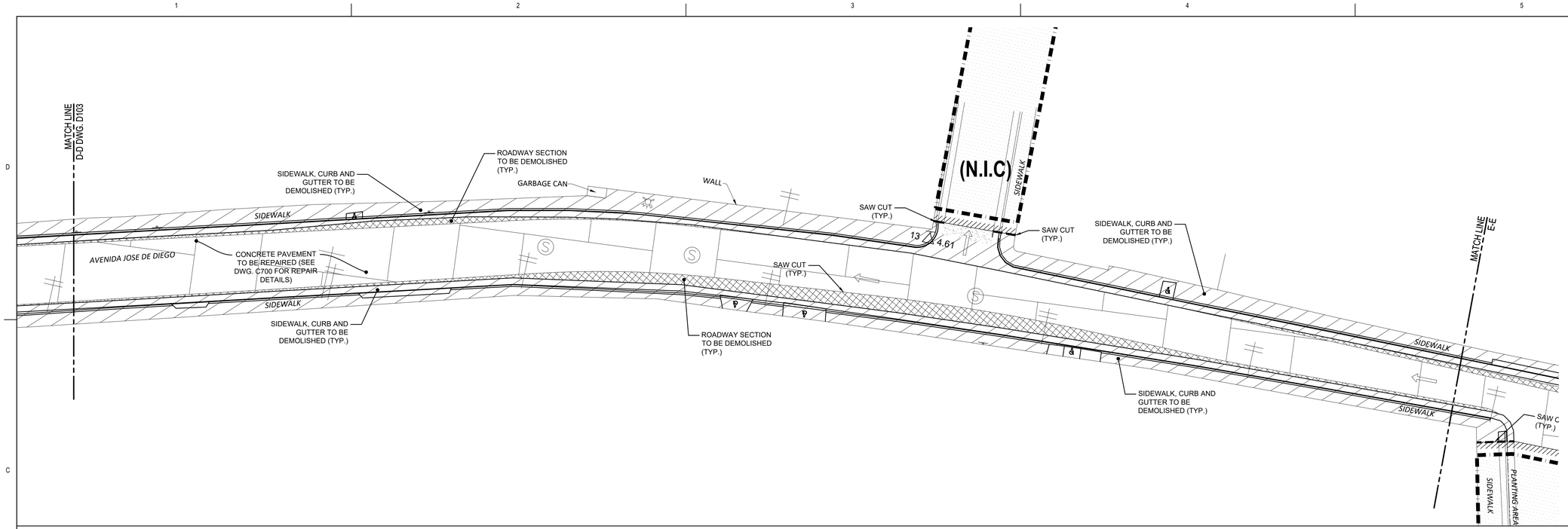
SHEET TITLE

DEMOLITION PLAN
AVE. JOSE DE DIEGO

SHEET ID

D103

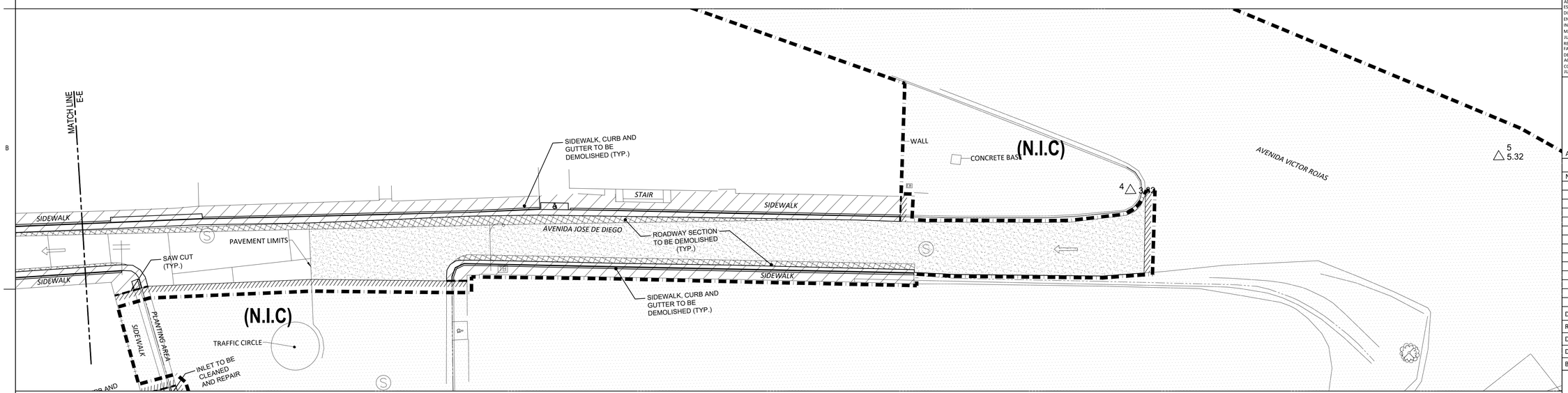
8/29/2025 10:21:37 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D102-3-4.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

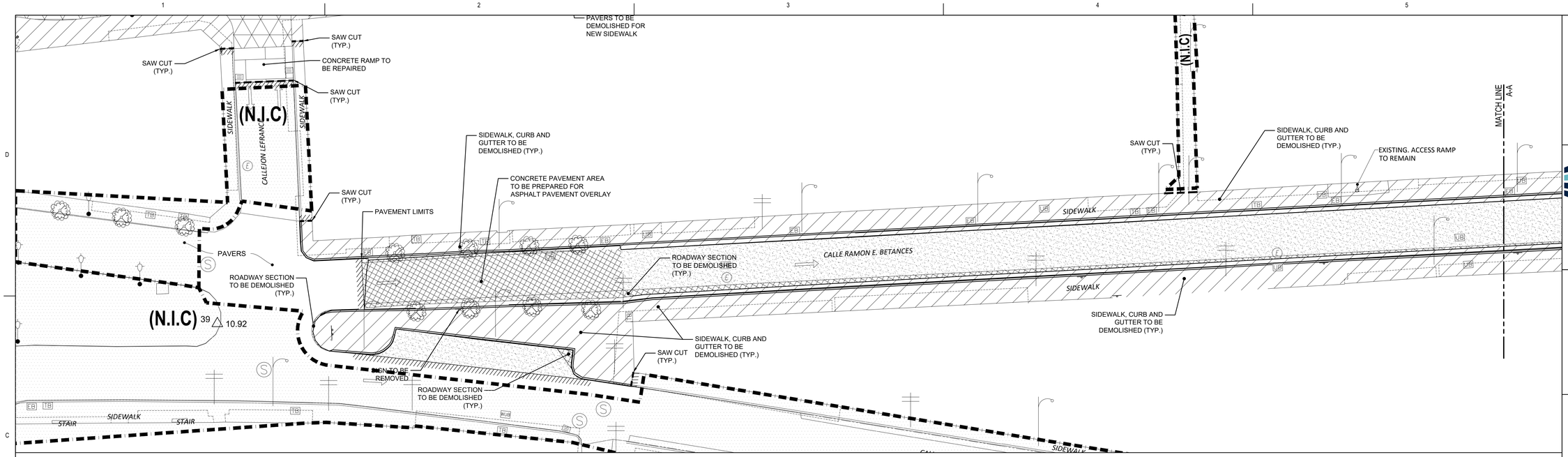
SHEET TITLE

DEMOLITION PLAN
AVE. JOSE DE DIEGO

SHEET ID

D104

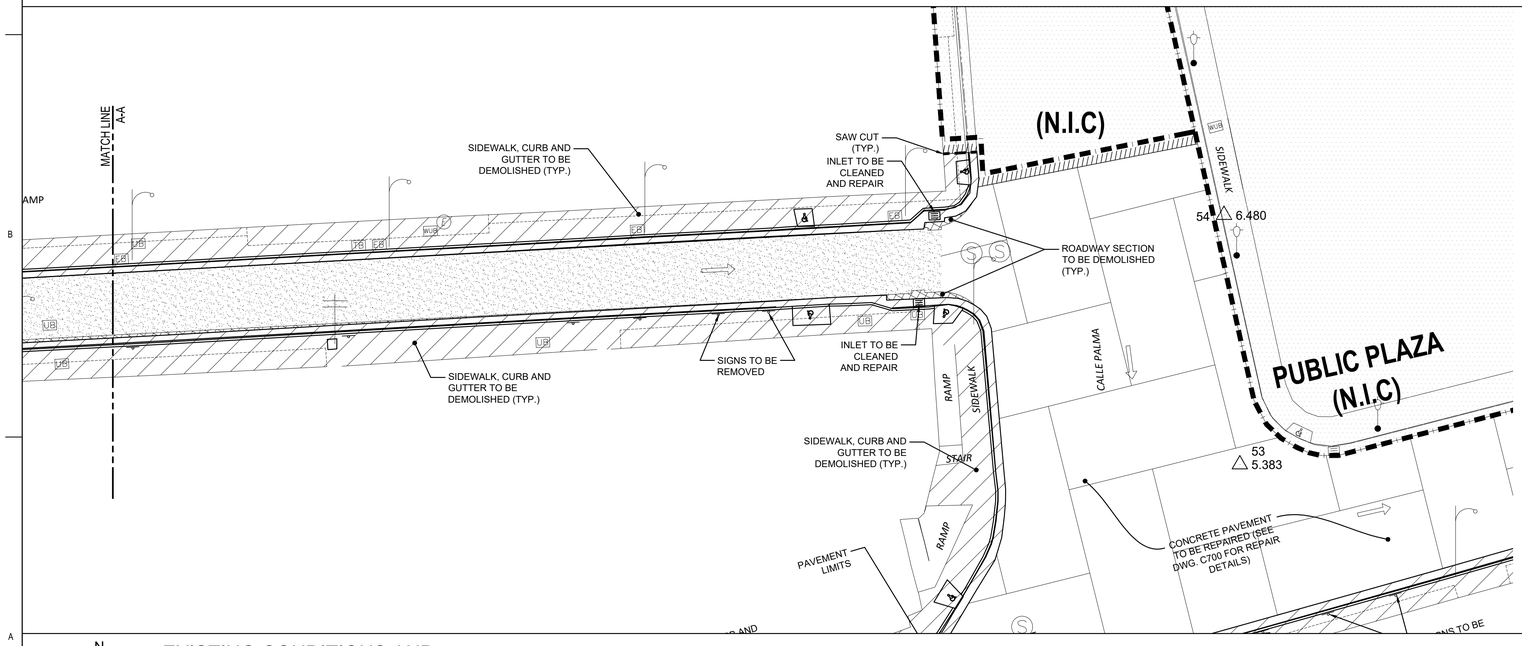
8/29/2025 10:21:41 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D102-3-4.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

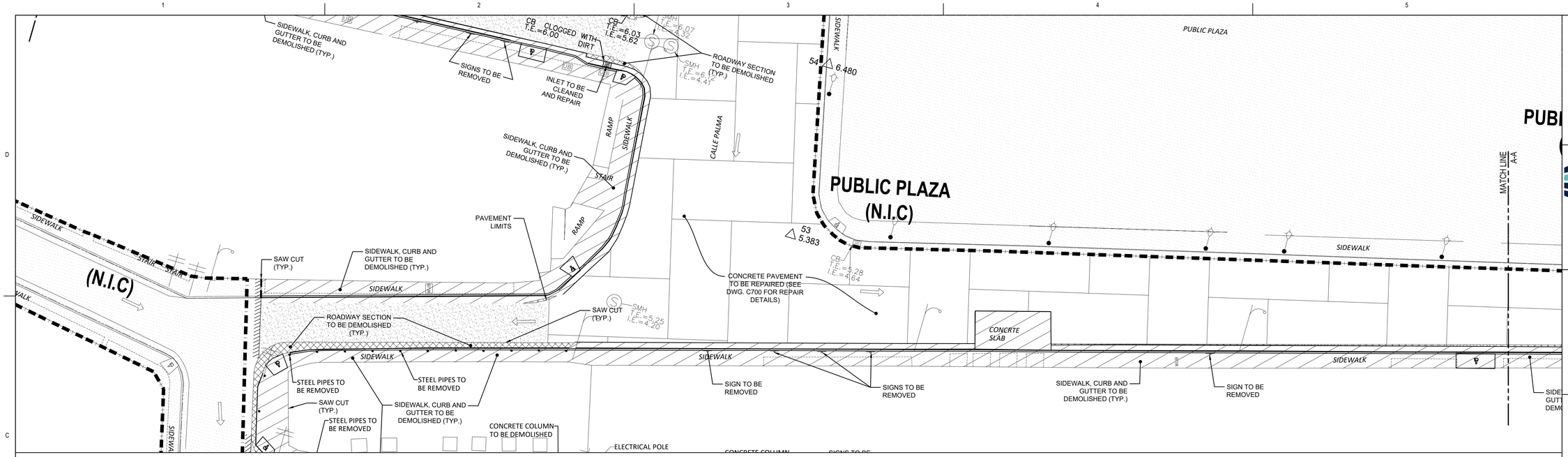
SHEET TITLE

DEMOLITION PLAN
CALLE RAMON E. BETANCES

SHEET ID

D105

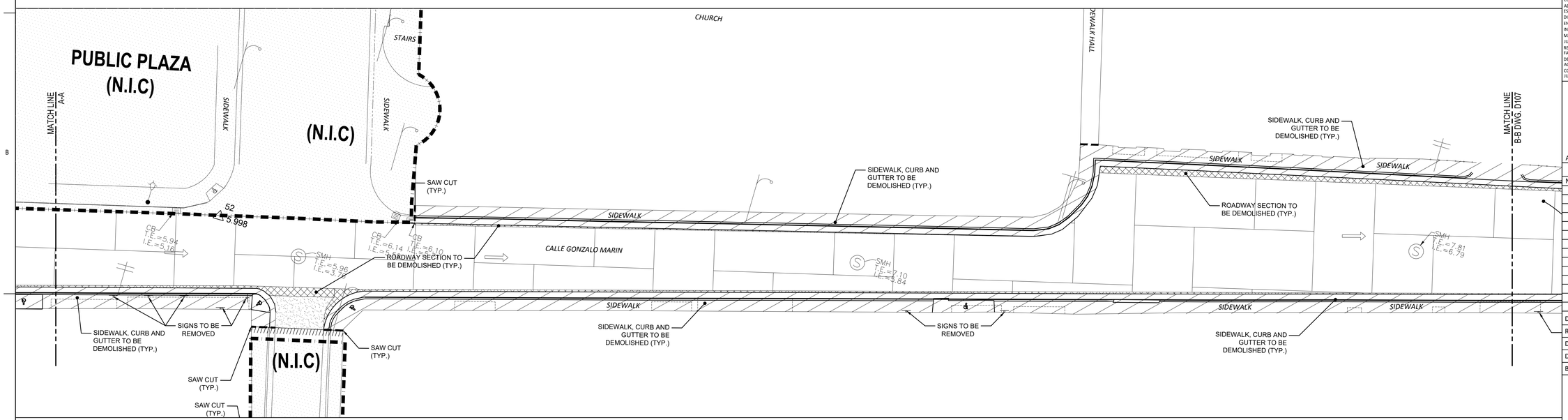
8/29/2025 10:21:48 AM C:\Users\Miguel Matos\OneDrive - Benliez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D105.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO — PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

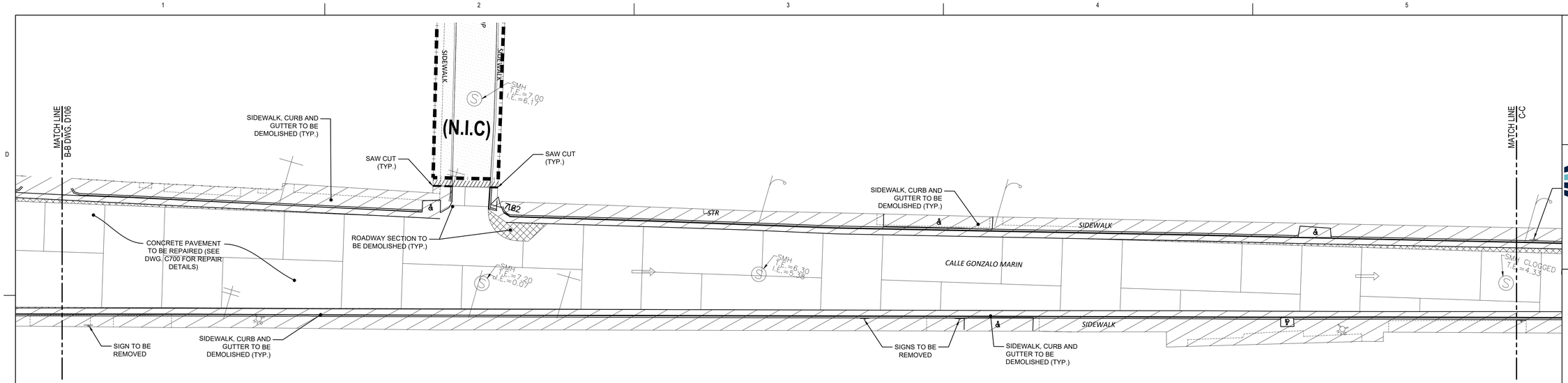
SHEET TITLE

DEMOLITION PLAN CALLE GONZALO MARIN

SHEET ID

D106

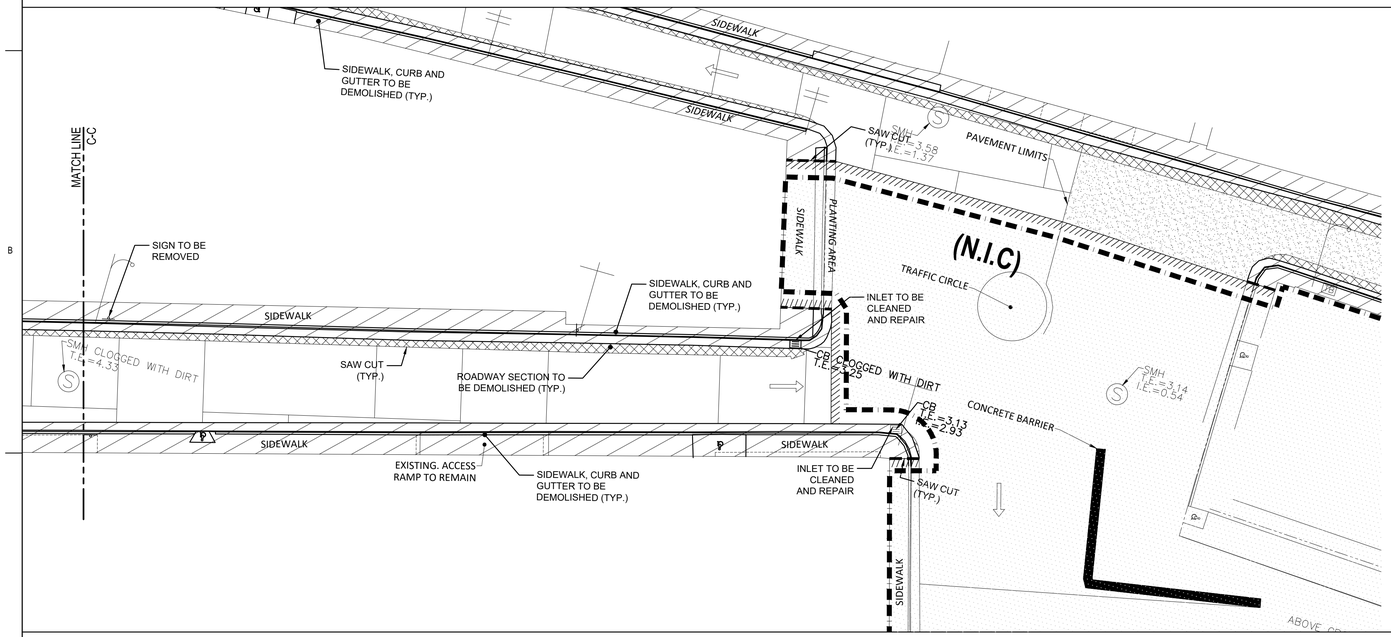
8/29/2025 10:21:55 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D106-7.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

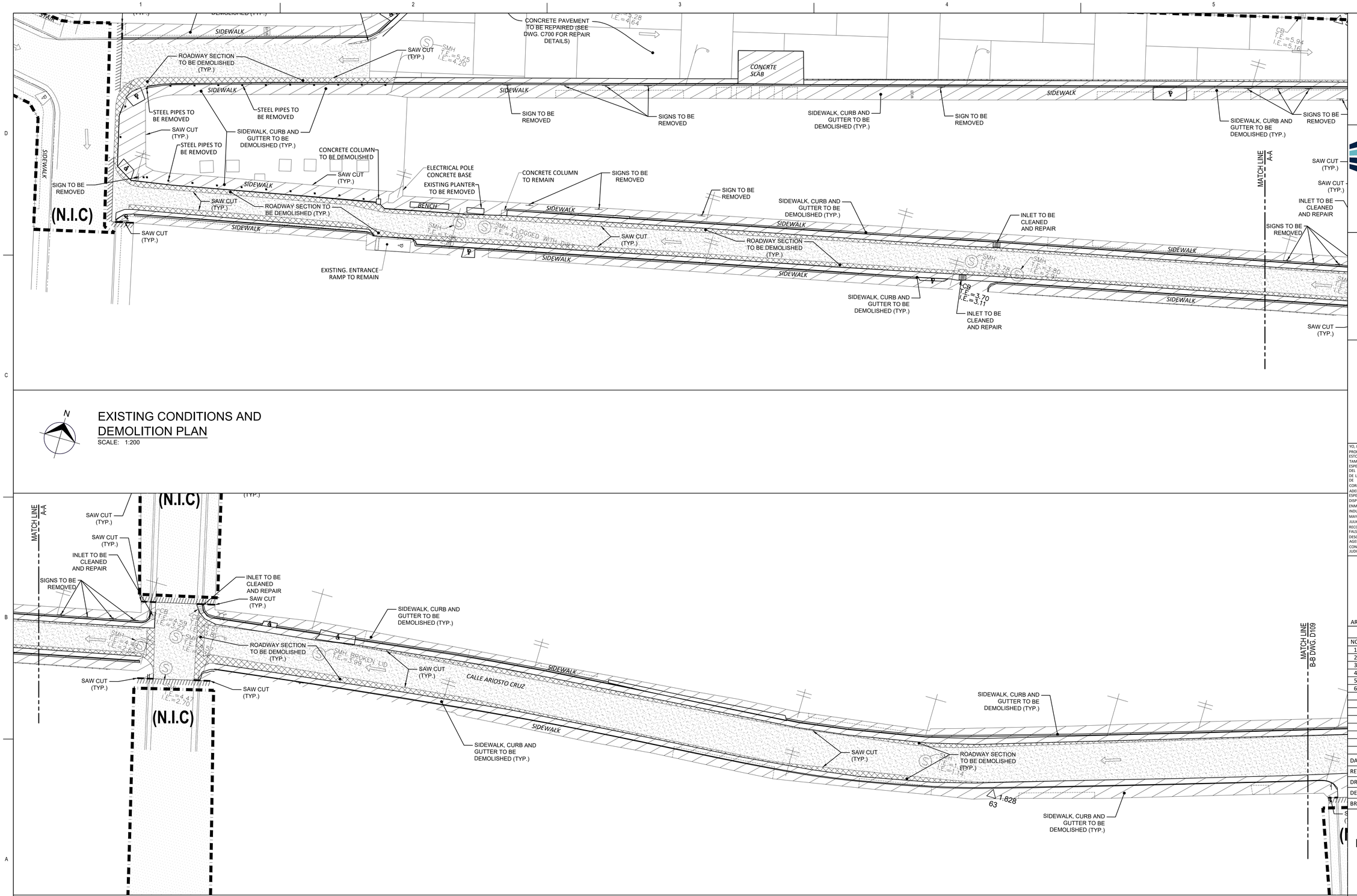
SHEET TITLE

DEMOLITION PLAN
CALLE GONZALO MARIN

SHEET ID

D107

8/29/2025 10:21:59 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D106-7.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

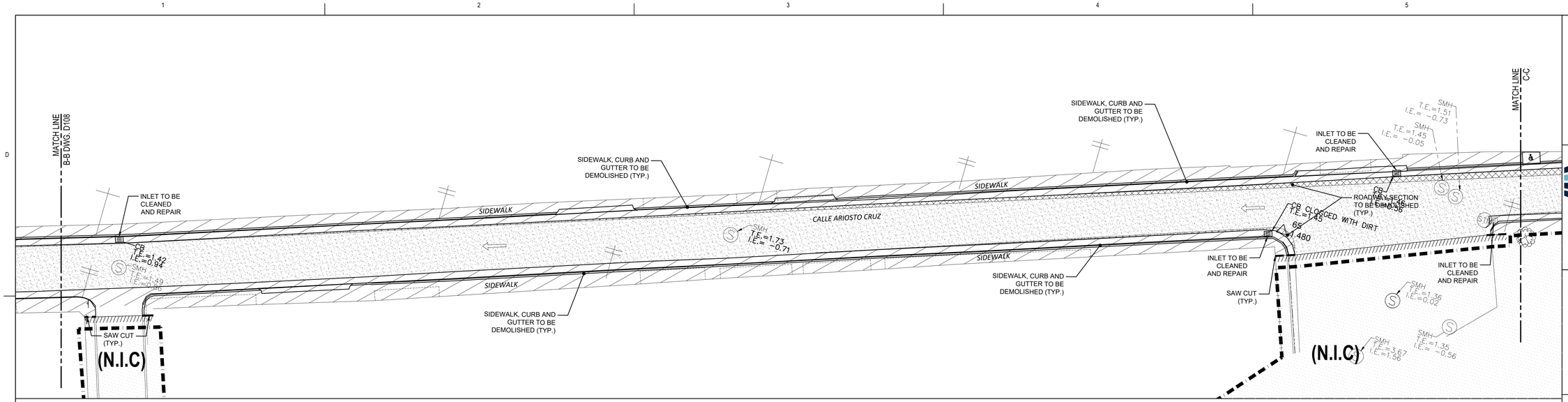
SHEET TITLE

DEMOLITION PLAN
CALLE ARIOSTO CRUZ

SHEET ID

D108

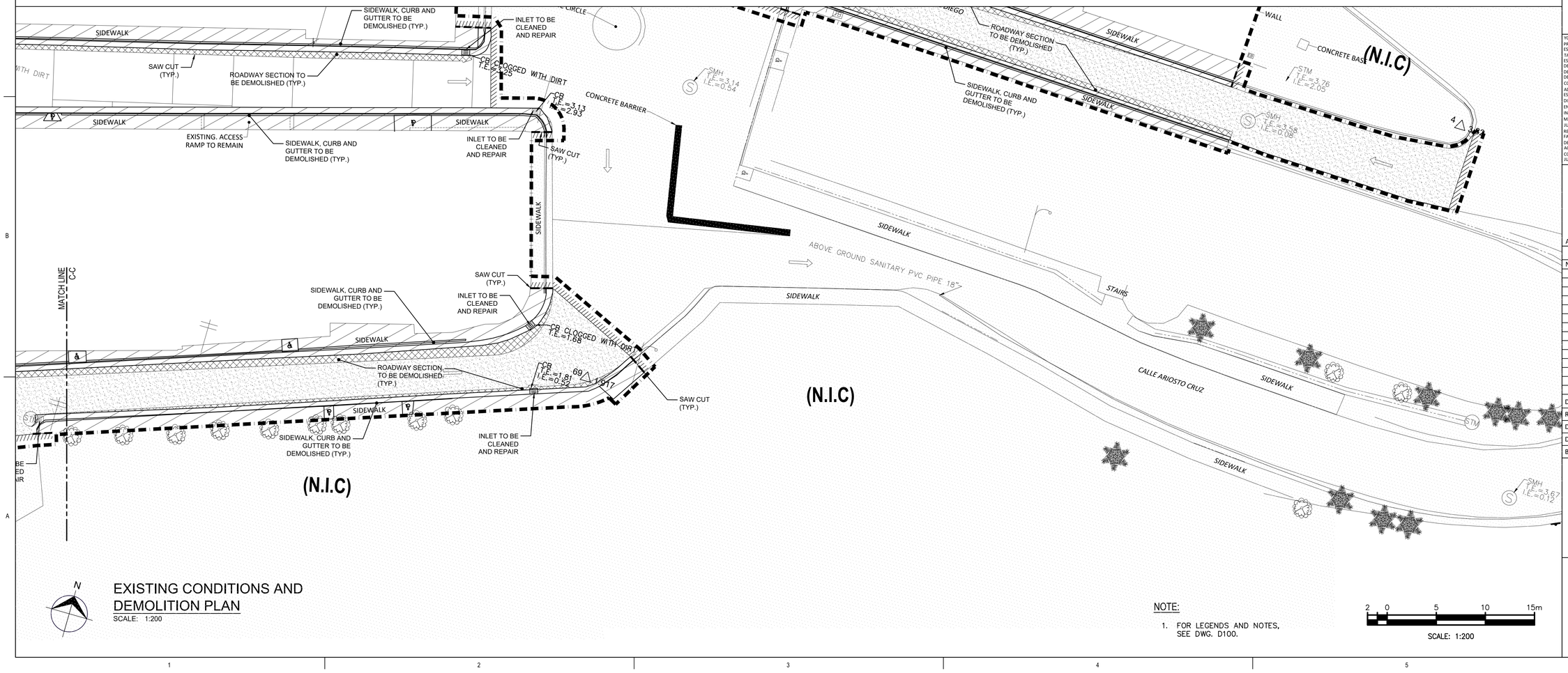
8/29/2025 10:22:07 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D108-9.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUES). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

SHEET TITLE

DEMOLITION PLAN
CALLE ARIOSTO CRUZ

SHEET ID

D109

8/29/2025 10:22:11 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D109-8.dwg

LEGEND:

N.I.C. NOT IN CONTRACT

NOTE:

1. TOPOGRAPHIC AND SURVEY PLAN FOR THIS PROJECT (EXISTING SITE CONDITIONS) WAS PREPARED BY LICENSED SURVEYOR RODOLFO RIVERA RUIZ (LIC # 23692), DATED JUNE 25, 2023.

SURVEY NOTES:

1. ALL DISTANCES ARE EXPRESSED IN METERS, UNLESS OTHERWISE NOTED.
2. FIELDWORK PERFORMED ON JUNE 25, 2023.
3. HORIZONTAL AND VERTICAL CONTROL SYSTEM IS REFERRED TO THE PUERTO RICO STATE PLANE COORDINATE SYSTEM: NAD 83 (CONUS) (Mol) LOCAL DATUM EPOCH 2010 WITH THE GEOID 18 (PUERTO RICO) FIXED (G18PR) GEOID MODEL.
4. THE SURVEYING WAS MADE WITH A R8 GPS UNIT, TOTAL STATION TRIMBLE S5 AND TSC5 DATA COLLECTOR.
5. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FIELD CONDITIONS AND MEASUREMENTS ON PLANS. IF ANY DISCREPANCIES ARE FOUND CONTRACTOR MUST NOTIFY THE SURVEYOR, ENGINEER, ARCHITECT OR OWNER BEFORE CONTINUING ANY WORK.
6. LOCATION FOR UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE BASED ON ABOVE GROUND EVIDENCE. CONTRACTOR MUST NOTIFY ALL UTILITY COMPANIES PRIOR TO THE BEGINNING OF ANY JOB.

N

GENERAL SITE PLAN
SCALE: 1:1,200

5 0 10 20 50 80
SCALE: 1:1,200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

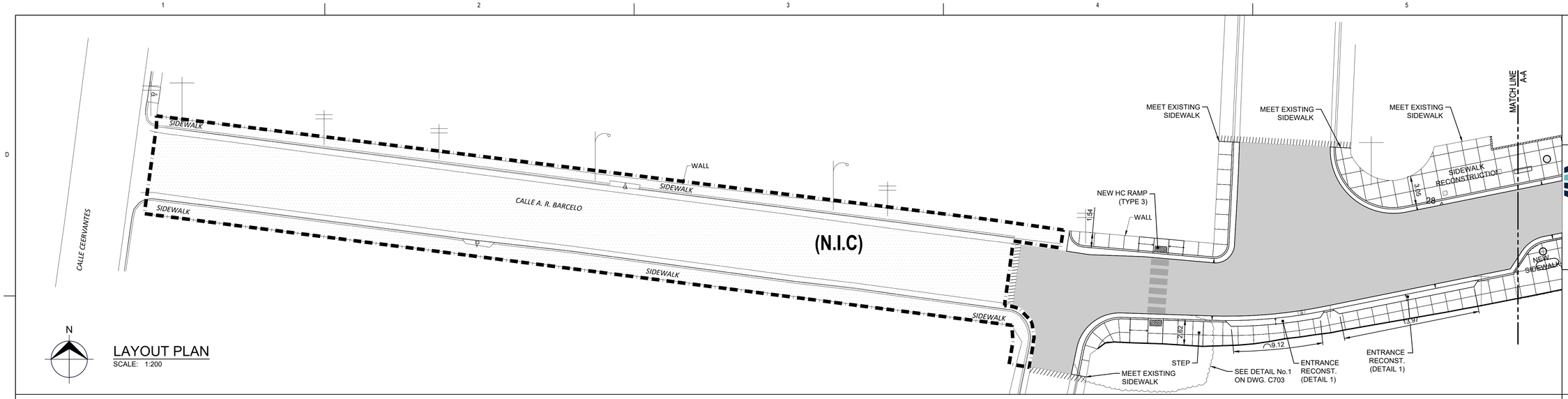
SHEET TITLE

GENERAL SITE PLAN

SHEET ID

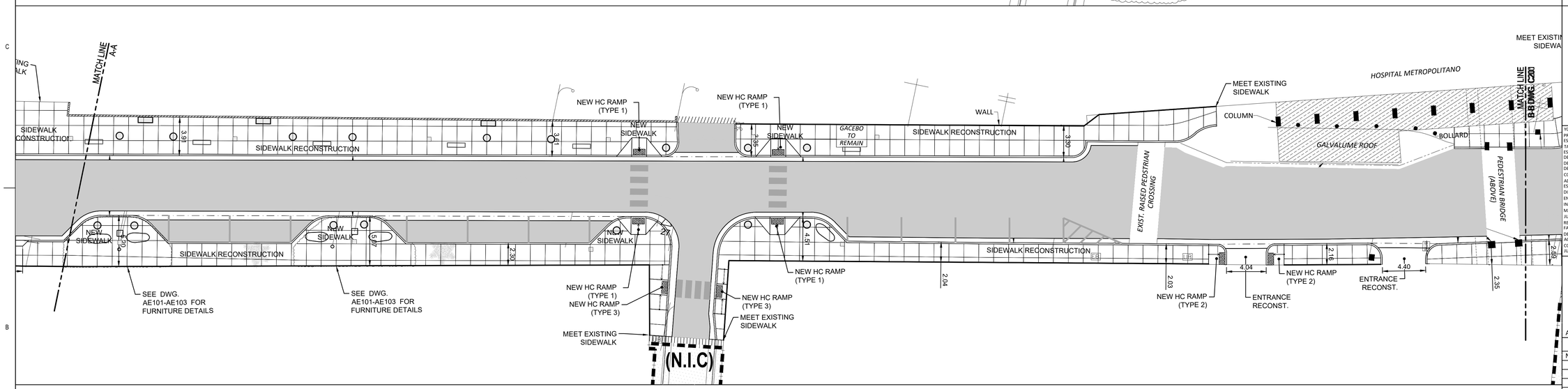
C001

8/29/2025 10:21:09 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C001.dwg



N

LAYOUT PLAN
SCALE: 1:200



N

LAYOUT PLAN
SCALE: 1:200

LEGEND:

- PROPERTY LIMIT
- PRHTA RIGHT OF WAY (ROW)
- 0.05 (2") HOT PLANT–MIX BITUMINOUS ASPHALT PAVEMENT
- NEW SIDEWALK WITH CONCRETE CURB AND GUTTER (SEE SECTION AND DETAILS ON DWG. C700)
- NEW HC RAMPS (SEE DETAILS ON DWG. C701)
- ENTRANCE RECONSTRUCTION OR NEW CURB ENTRANCE (SEE DETAILS ON DWG. C701)
- TRAFFIC DIRECTION
- SECTION (SEE SECTION ON THIS PLAN)

GENERAL SITE NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ARE EXPRESSED IN METERS, UNLESS OTHERWISE NOTED.
2. AS–BUILT PLAN PREPARED BY LICENSED SURVEYOR RODOLFO RIVERA RUIZ (LIC # 23692), DATED JUNE 25, 2023
3. REFER TO DWG. 480 TO 490 FOR STAGING AREA, EROSION & SEDIMENTATION CONTROL PLANS. FOR EROSION AND SEDIMENTATION CONTROL DETAILS REFER TO DWG. C491.
4. REFER TO MOT PLANS FOR MAINTENANCE OF TRAFFIC TYPICAL APPLICATIONS, NOTES AND DETAILS.
5. REFER TO ELECTRICAL PLANS FOR NEW LIGHTING POLES AND DETAILS. REFER TO DWG. C703 FOR LIGHTING POLE INSTALLATION DETAIL ON EXISTING CONCRETE BASE.
6. REFER TO DWG. C700–C705 FOR TYPICAL SECTIONS AND DETAILS.
7. REFER TO DWG. A101–A103 FOR ARCHITECTURAL PLANS AND DETAILS.
8. INLETS WITHIN THE PROJECT LIMITS TO BE CLEANED AND REPAIR. TOP TO BE ADJUSTED TO FINAL GRADE AND FRAME AND GRATE TO BE REPLACED. REFER TO DWG. C700 FOR SIDEWALK, CURB AND GUTTER AROUND THE EXISTING INLET DETAILS.
9. INLETS AT DE DIEGO AVENUE TO BE REMOVED AND REPLACED. SEE DETAILS ON DWG. C700.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUEN). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

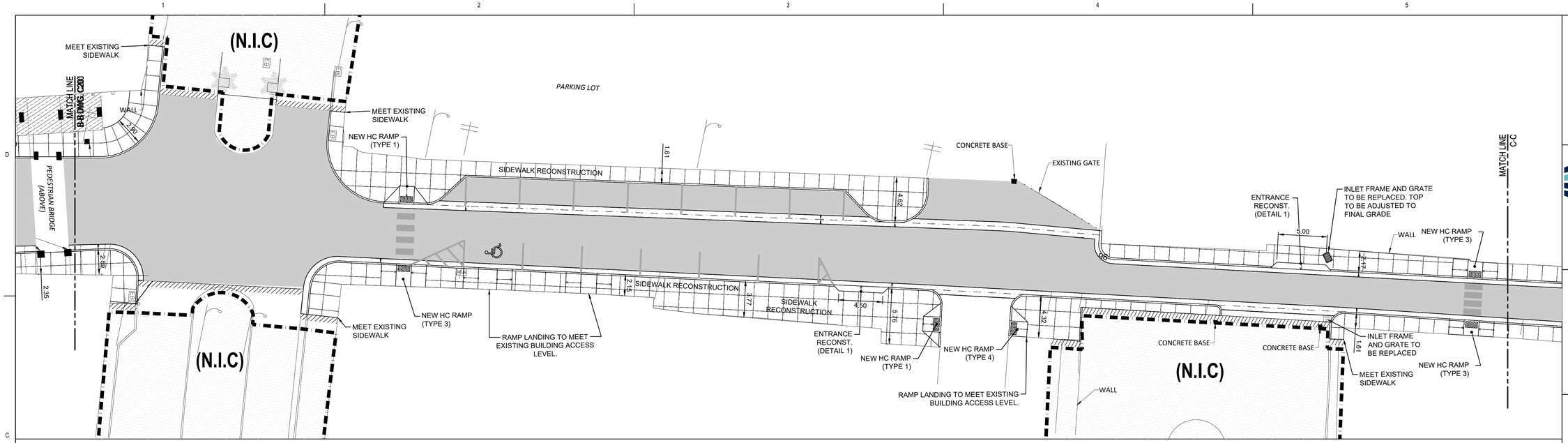
SHEET TITLE

LAYOUT PLAN
CALLE ANTONIO ROMERO BARCELO

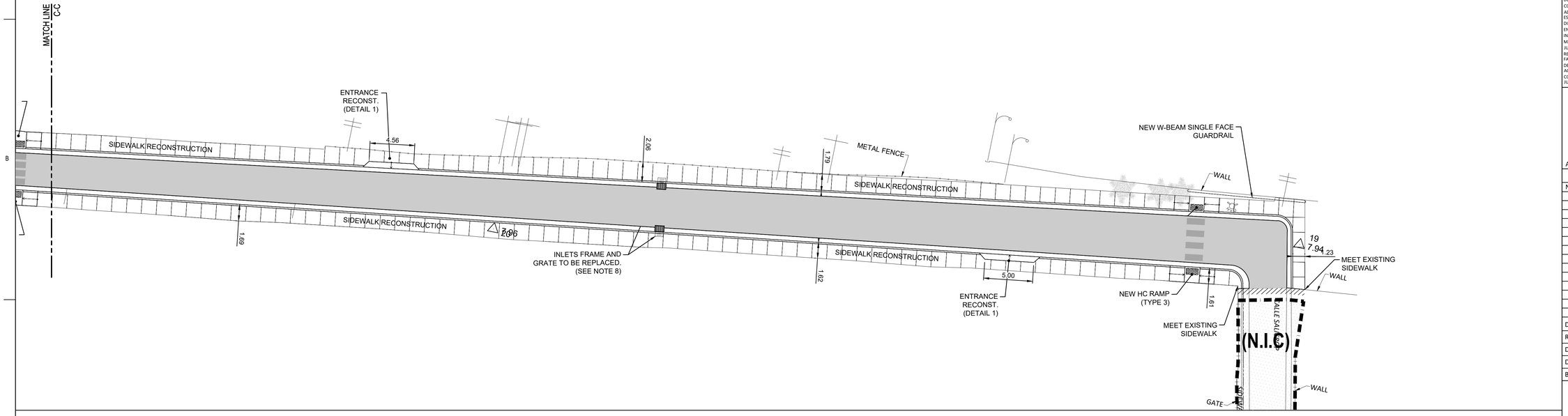
SHEET ID

C200

8/29/2025 10:22:16 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C200-1.dwg



LAYOUT PLAN
SCALE: 1:200



LAYOUT PLAN
SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

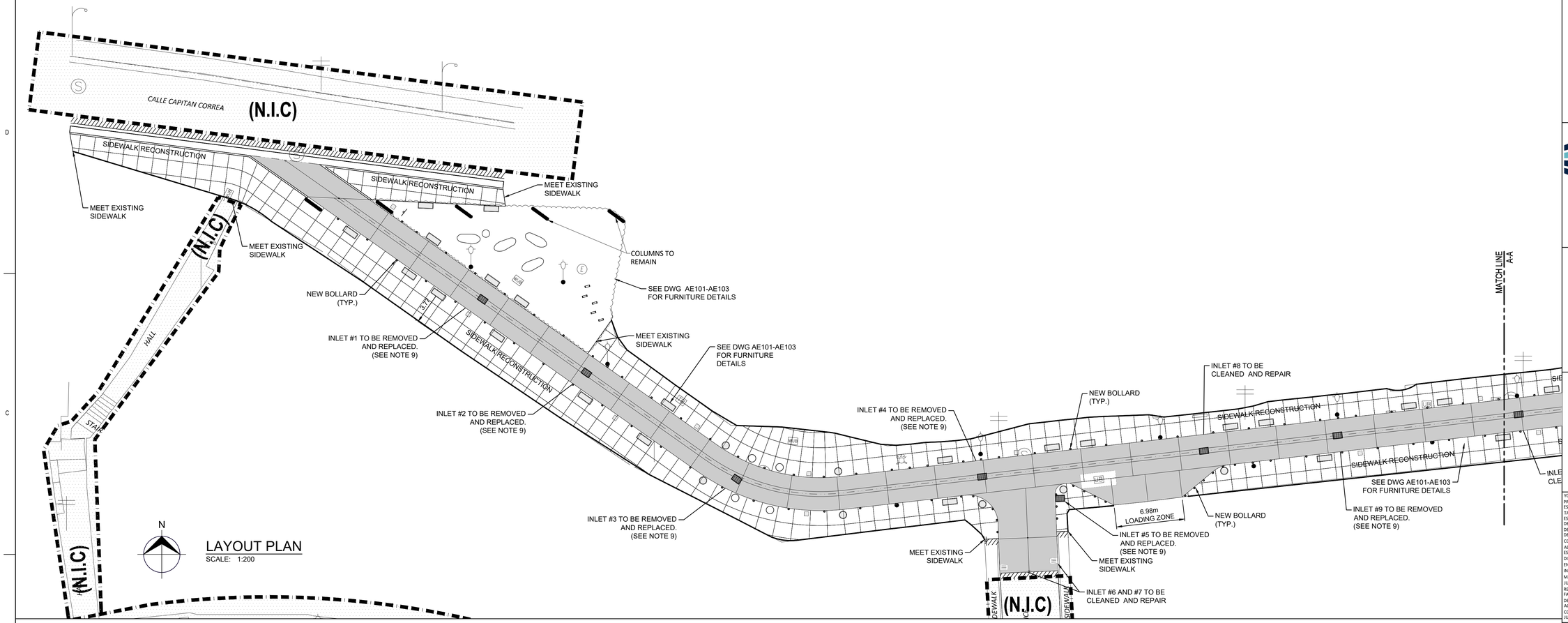
SHEET TITLE

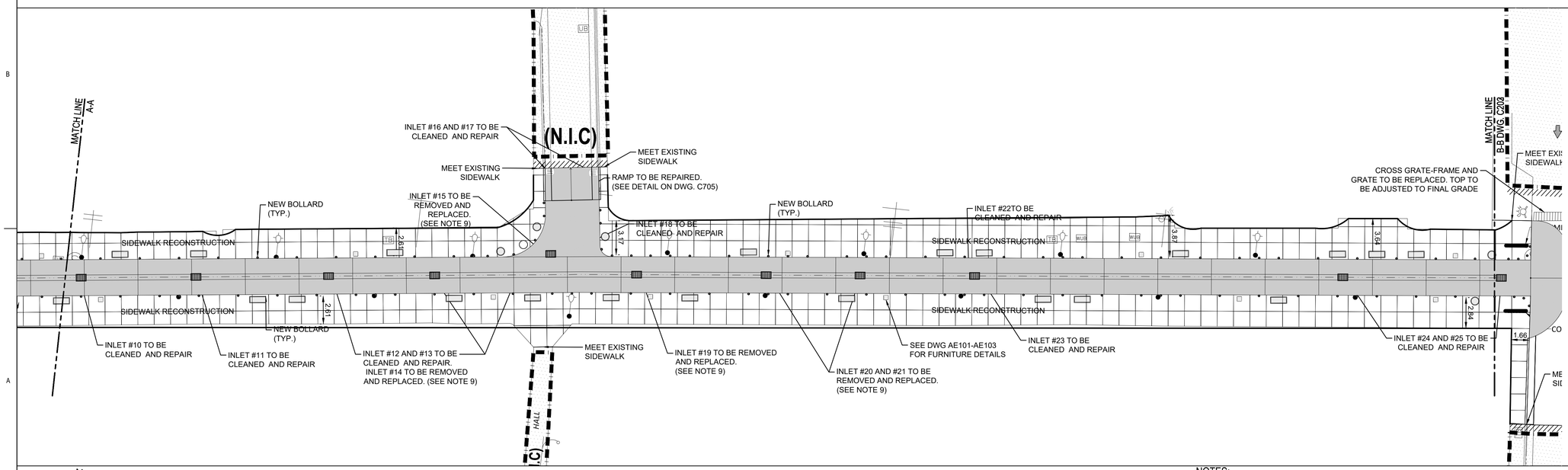
LAYOUT PLAN
CALLE ANTONIO ROMERO BARCELO

SHEET ID

C201

8/29/2025 10:22:46 AM C:\Users\Miguel Matos\OneDrive - Benitez,Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C200-1.dwg





NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.
2. ALL INLETS (AT THE JOSE DE DIEGO AVENUE) FRAMES AND GRATES TO BE REPLACED. TOP TO BE ADJUSTED TO FINAL GRADE. SEE DETAILS ON DWG. C700.

2 0 5 10 15m
SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

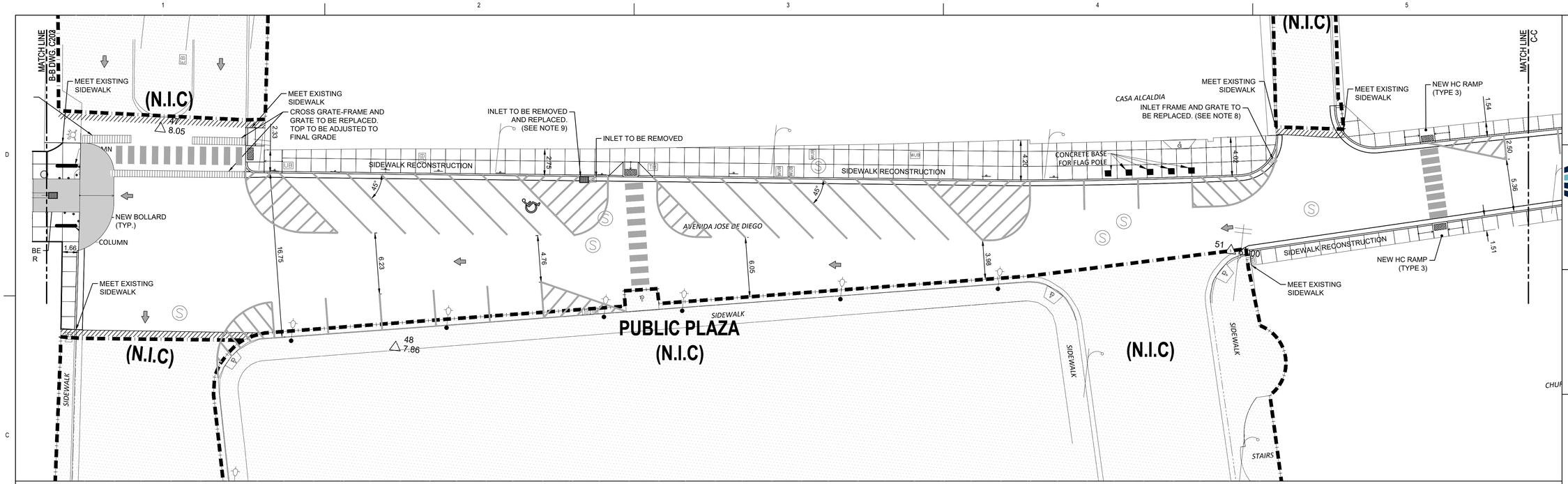
SHEET TITLE

LAYOUT PLAN
AVE. JOSE DE DIEGO

SHEET ID

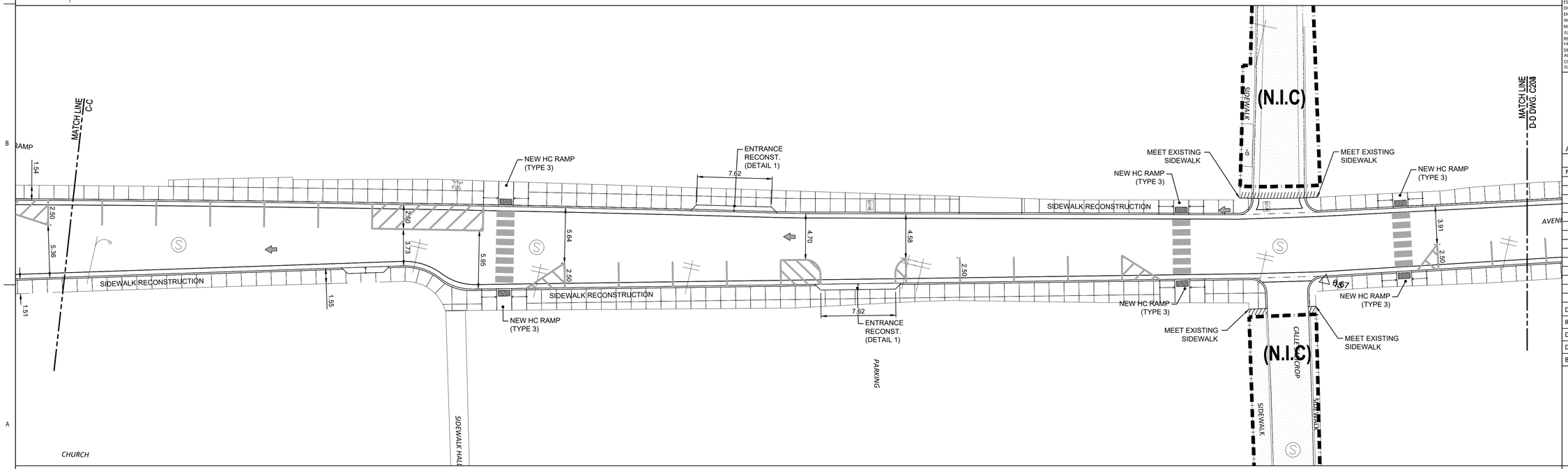
C202

8/29/2025 10:23:21 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C202-3-4.dwg



N

LAYOUT PLAN
SCALE: 1:200



N

LAYOUT PLAN
SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.
2. ALL INLETS (AT THE JOSE DE DIEGO AVENUE) FRAMES AND GRATES TO BE REPLACED. TOP TO BE ADJUSTED TO FINAL GRADE. SEE DETAILS ON DWG. C700.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGÉNCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

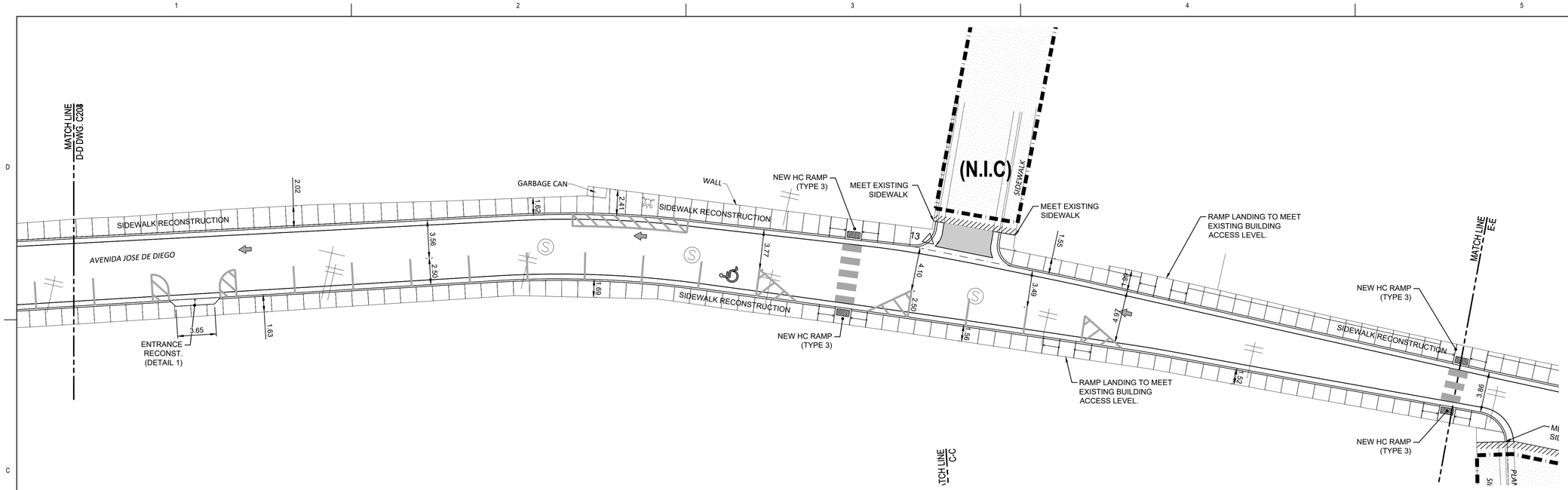
SHEET TITLE

LAYOUT PLAN
AVE. JOSE DE DIEGO

SHEET ID

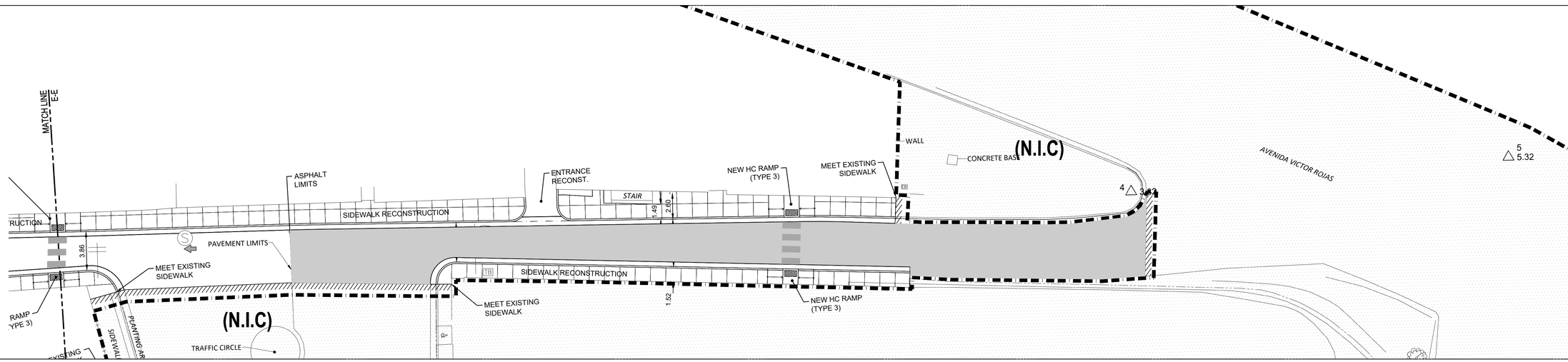
C203

8/29/2025 10:23:51 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C202-3-4.dwg



N

LAYOUT PLAN
SCALE: 1:200



N

LAYOUT PLAN
SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.
2. ALL INLETS (AT THE JOSE DE DIEGO AVENUE) FRAMES AND GRATES TO BE REPLACED. TOP TO BE ADJUSTED TO FINAL GRADE. SEE DETAILS ON DWG. C700.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

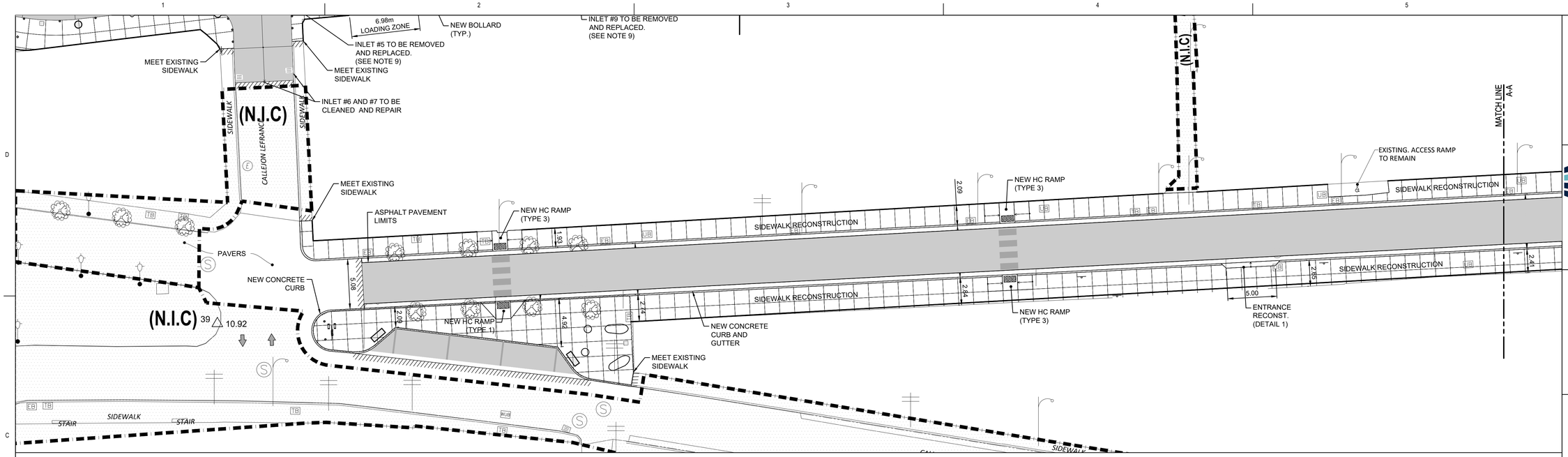
SHEET TITLE

LAYOUT PLAN
AVE. JOSE DE DIEGO

SHEET ID

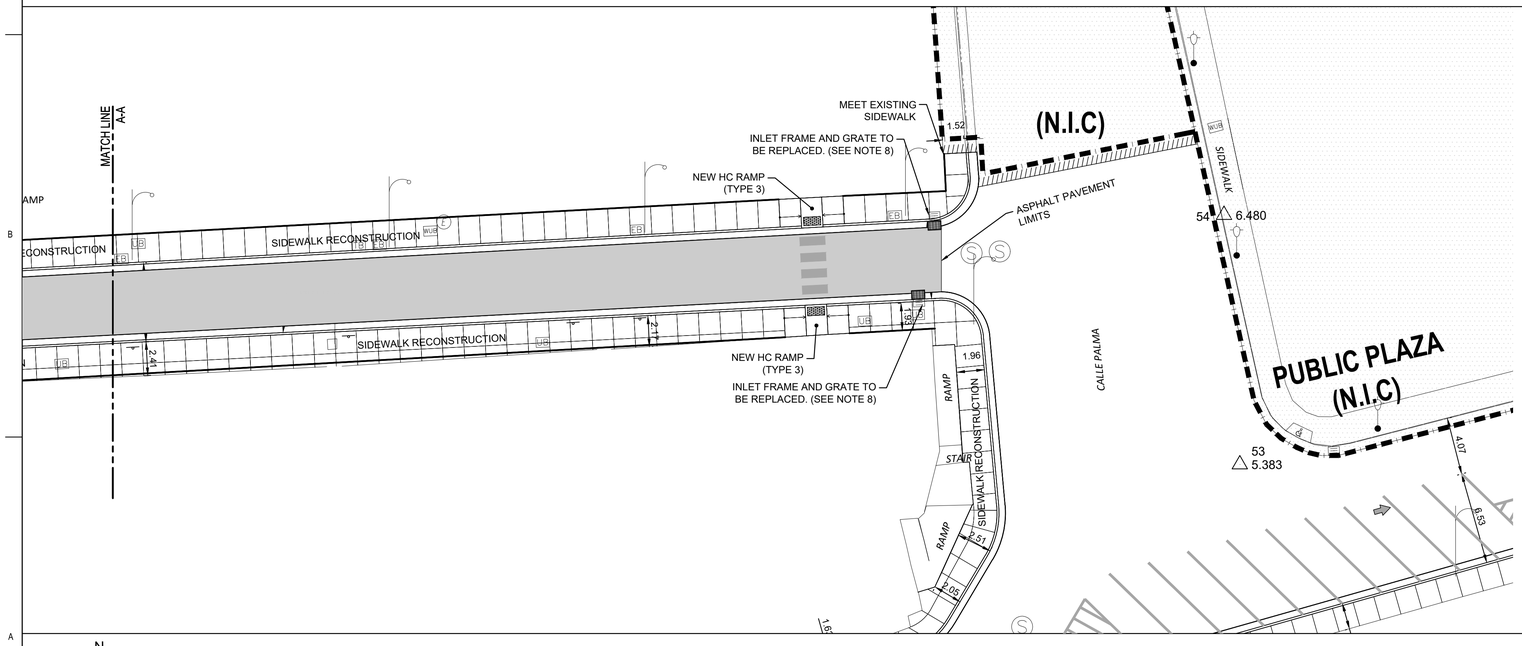
C204

8/29/2025 10:24:22 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C202-3-4.dwg



N

LAYOUT PLAN
SCALE: 1:200



N

LAYOUT PLAN
SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

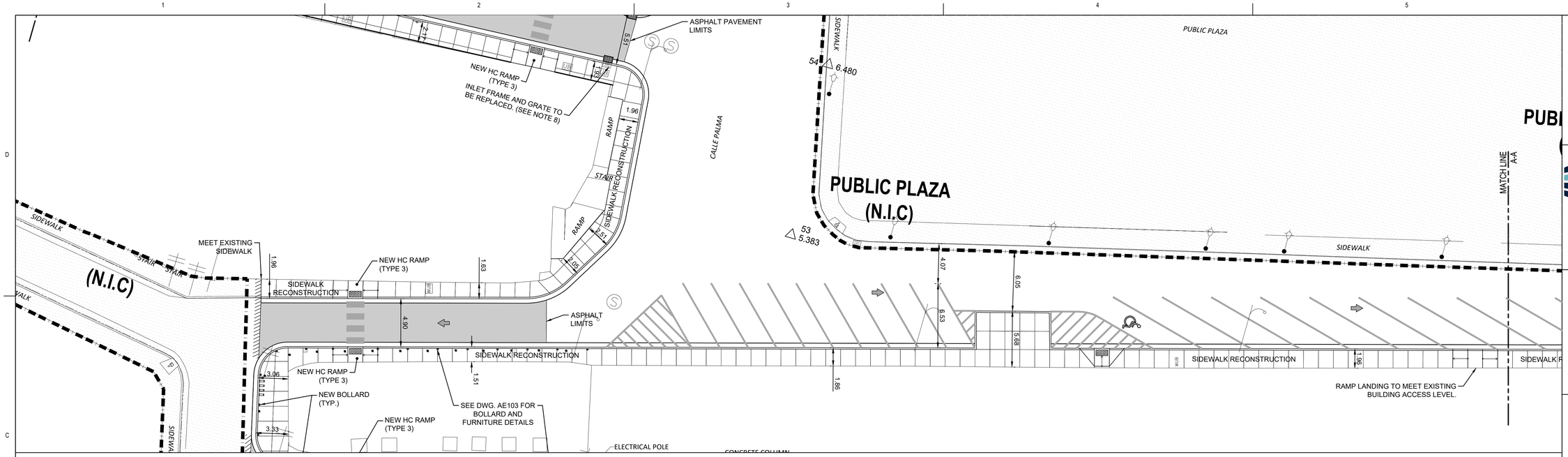
SHEET TITLE

LAYOUT PLAN
CALLE RAMON E. BETANCES

SHEET ID

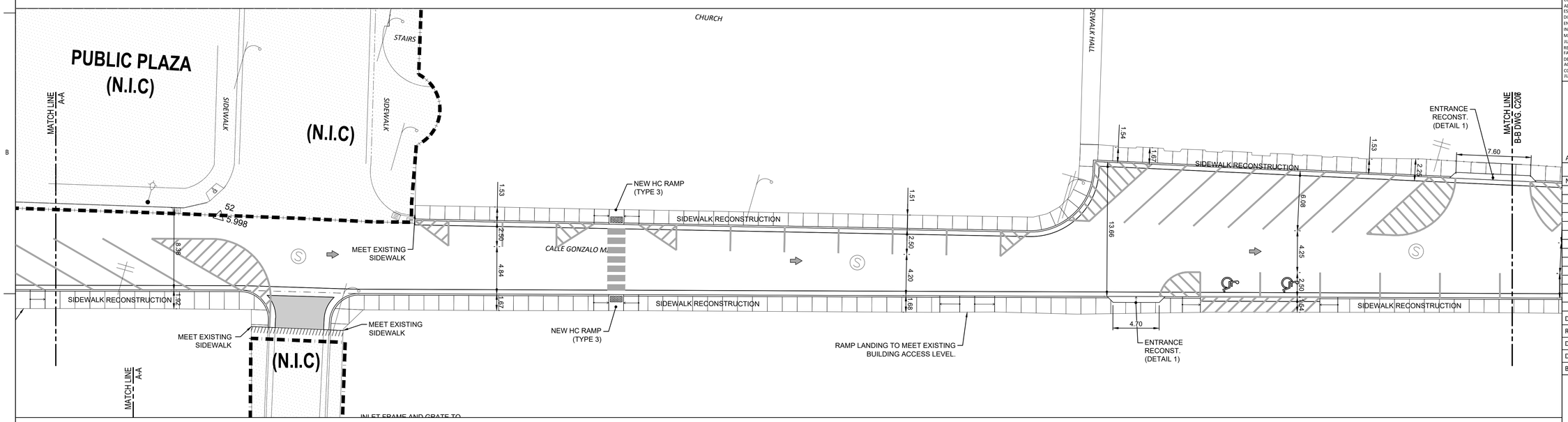
C205

8/29/2025 10:24:57 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C205.dwg



N

LAYOUT PLAN
SCALE: 1:200



N

LAYOUT PLAN
SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

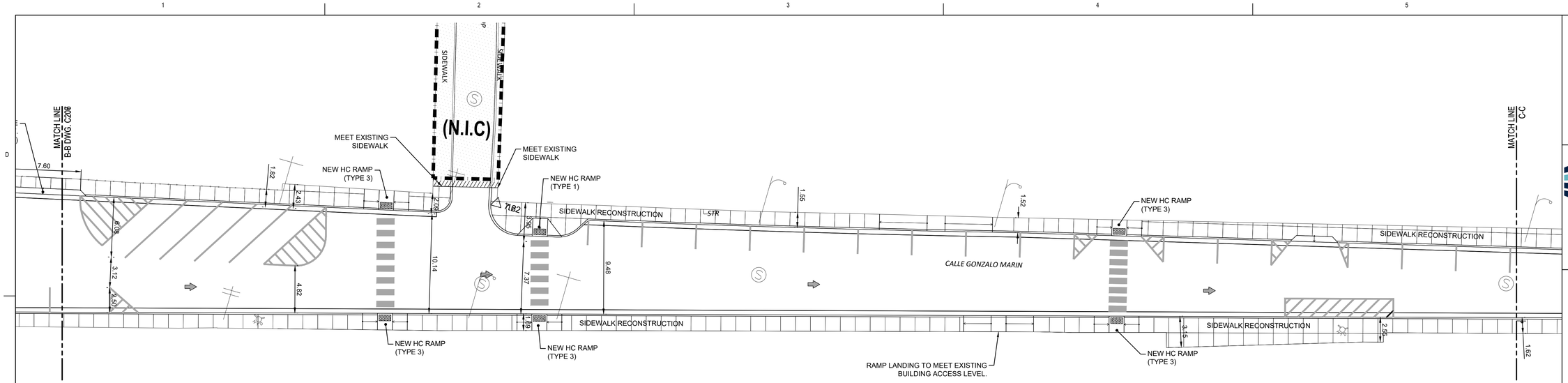
SHEET TITLE

LAYOUT PLAN
CALLE GONZALO MARIN

SHEET ID

C206

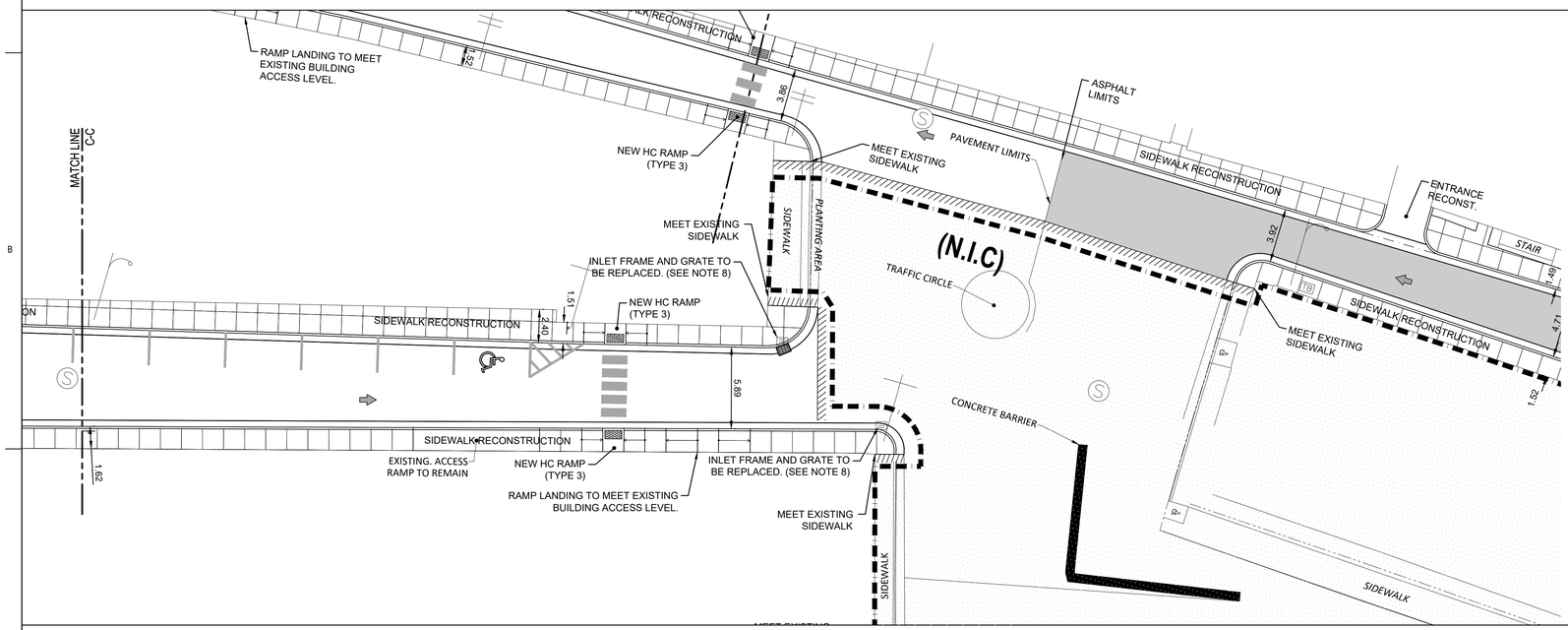
8/29/2025 10:25:32 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C206-7.dwg



N

LAYOUT PLAN

SCALE: 1:200



N

LAYOUT PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, SEGÚN APLIQUES. RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

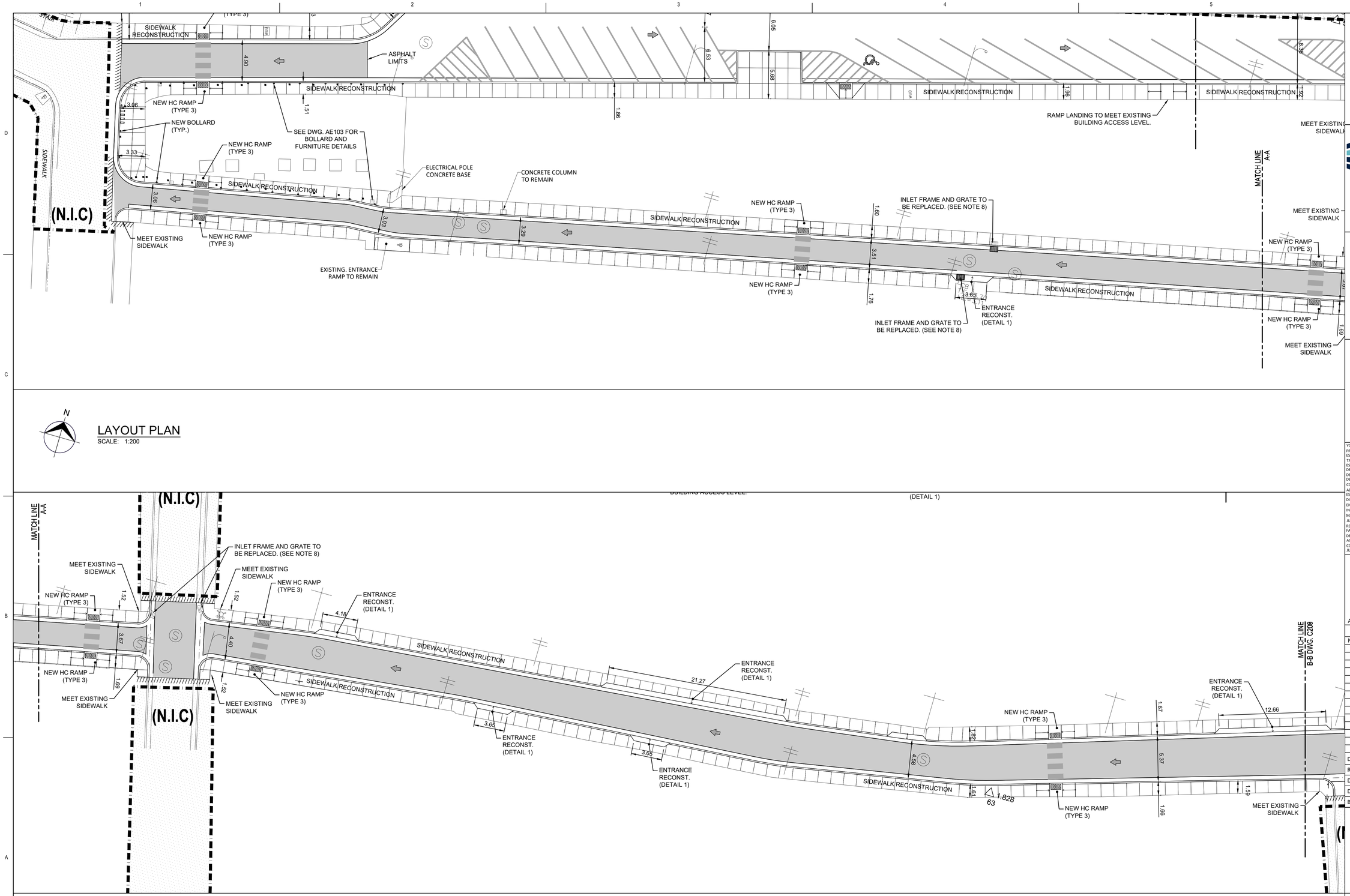
SHEET TITLE

LAYOUT PLAN
CALLE GONZALO MARIN

SHEET ID

C207

8/29/2025 10:25:51 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C206-7.dwg



LAYOUT PLAN
SCALE: 1:200

LAYOUT PLAN
SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO — PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

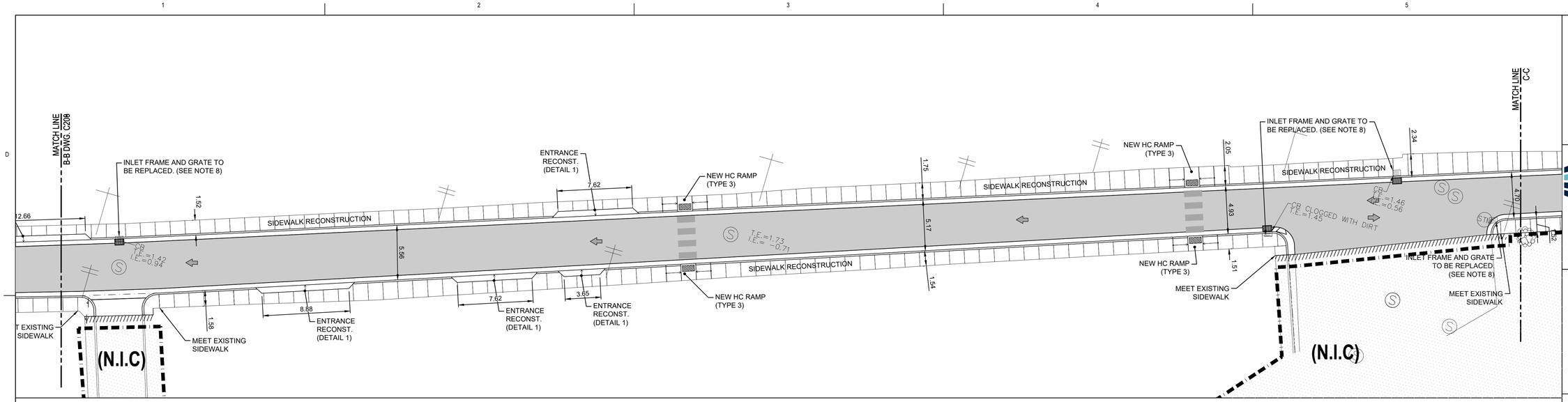
SHEET TITLE

LAYOUT PLAN
CALLE ARIOSTO
CRUZ

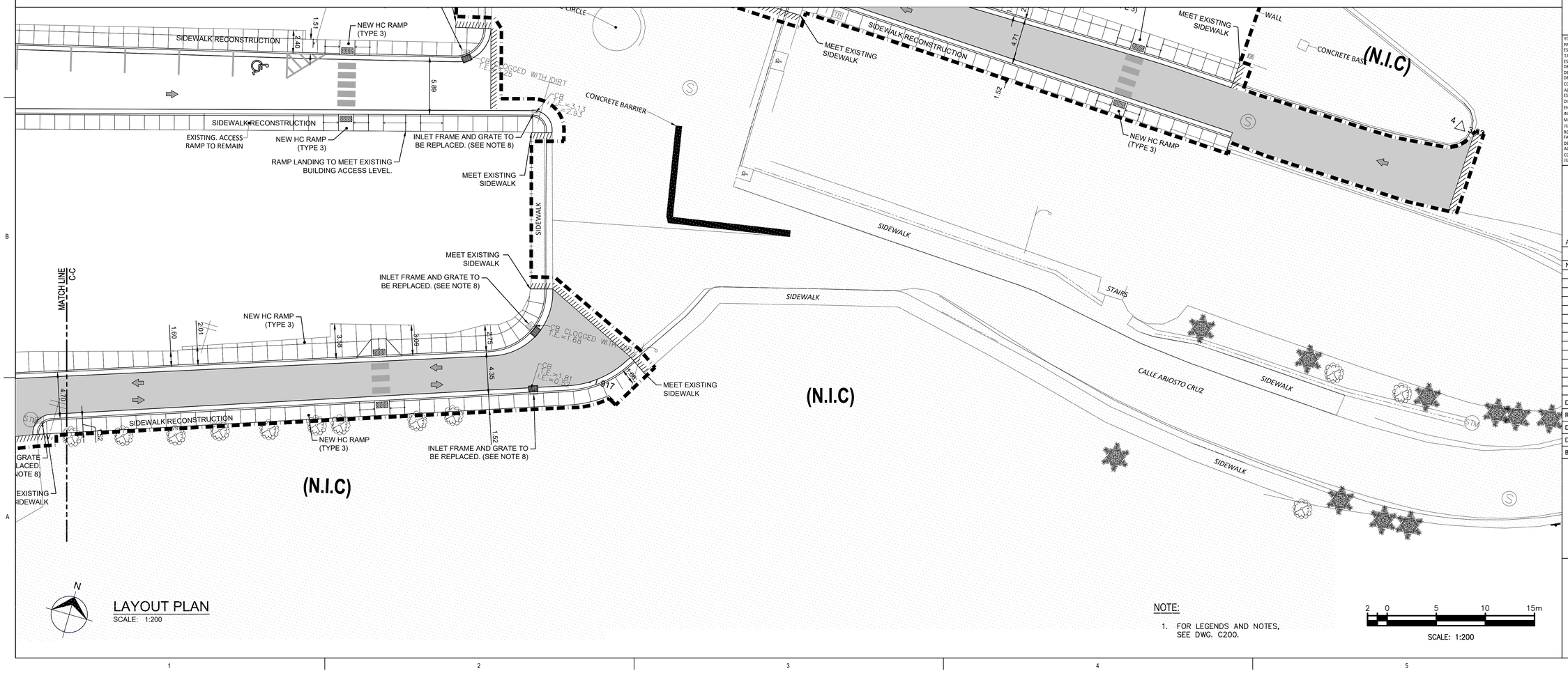
SHEET ID

C208

8/29/2025 10:26:15 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C208-9.dwg



LAYOUT PLAN
SCALE: 1:200



LAYOUT PLAN
SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER
Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT
BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

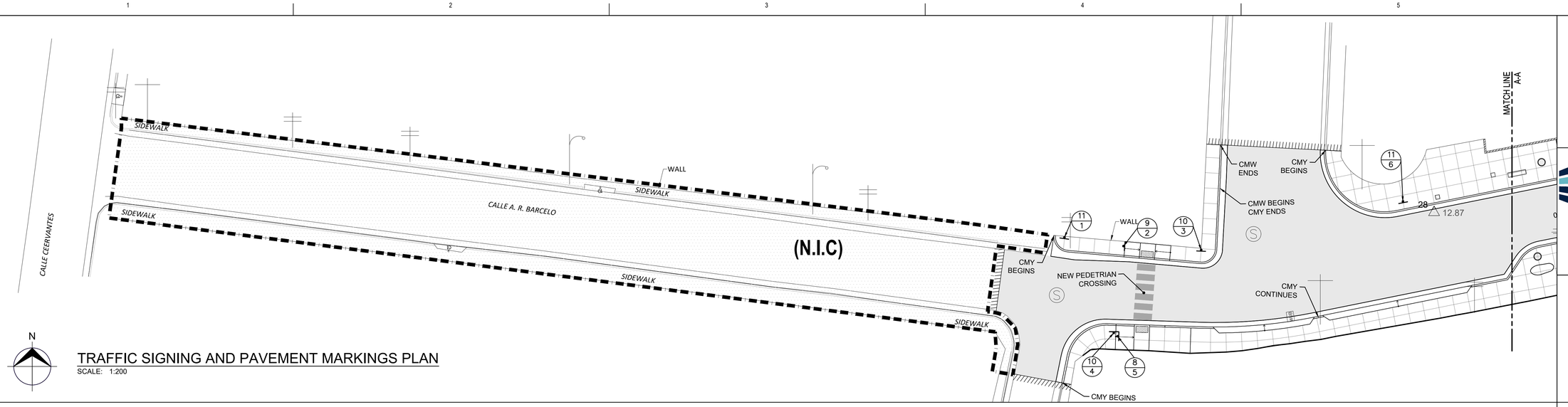
SHEET TITLE

LAYOUT PLAN
CALLE ARIOSTO CRUZ

SHEET ID

C209

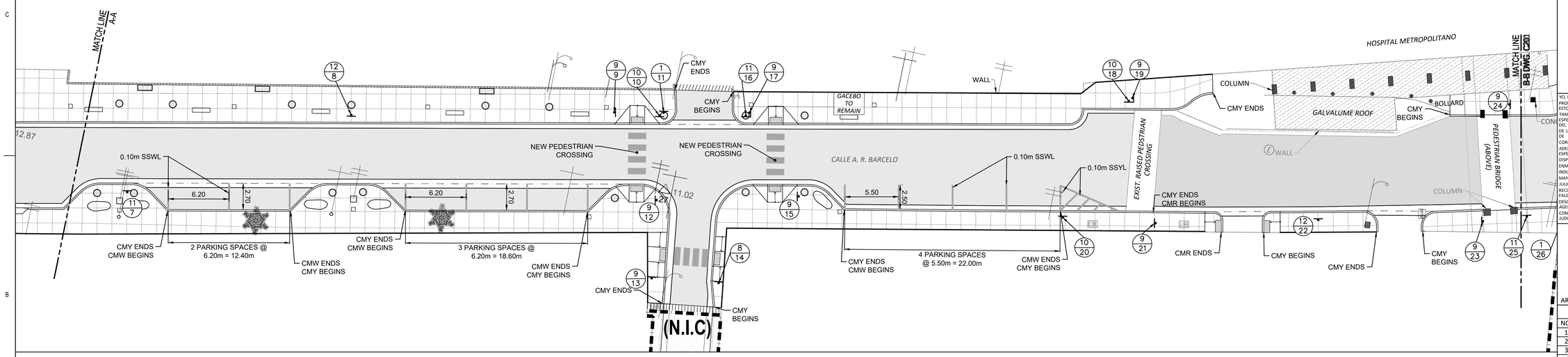
8/29/2025 10:26:34 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C208-9.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

LEGEND:

CMY	CURB MARKING YELLOW
CMW	CURB MARKING WHITE
CMR	CURB MARKING RED
SSYL	SINGLE SOLID YELLOW LINE
SSWL	SINGLE SOLID WHITE LINE
SSBL	SINGLE SOLID BLUE LINE
SSRL	SINGLE SOLID RED LINE
	EXISTING TRAFFIC SIGN TO REMAIN
	EXISTING KILOMETER MARKER TO REMAIN
	NEW TRAFFIC SIGN LOCATION
	NEW BACK TO BACK TRAFFIC SIGN LOCATION
	CODE NUMBER
	LOCATION NUMBER

GENERAL SITE NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ARE EXPRESSED IN METERS, UNLESS OTHERWISE NOTED.
2. REFER TO DWG. C200–C209 FOR SITE LAYOUT PLANS.
3. REFER TO DWG. C241 FOR PARKING PAVEMENT MARKING DETAILS
4. REFER TO DWGS. C240 FOR TRAFFIC SIGN TABLE
5. REFER TO DWG. D100–D109 FOR LOCATION OF TRAFFIC SIGNS TO BE REMOVED.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

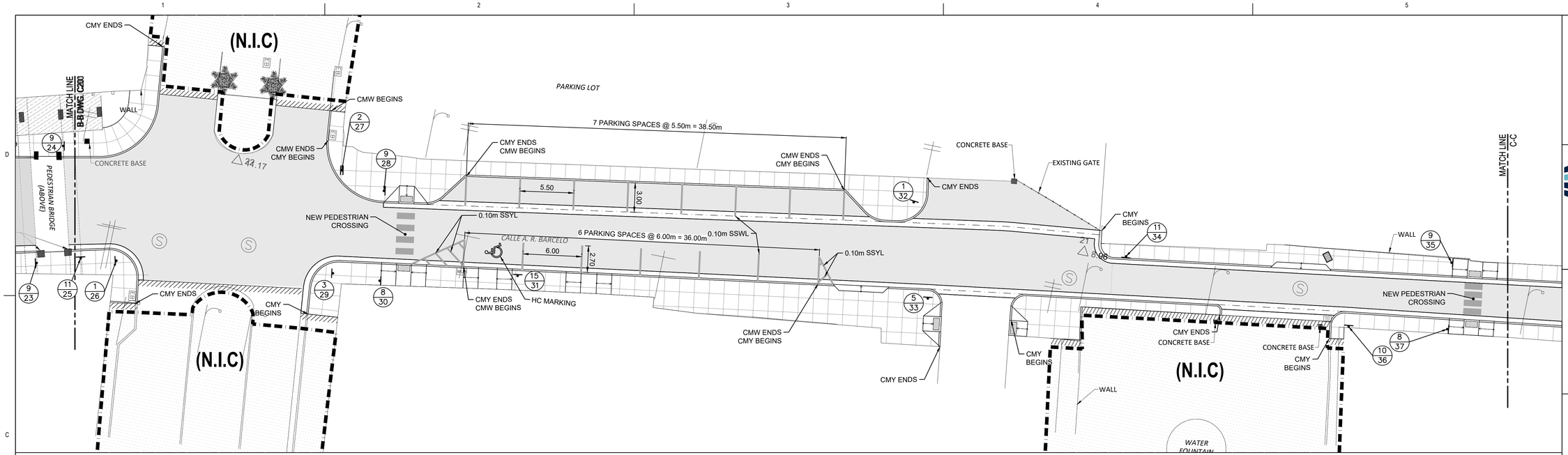
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN
CALLE ANTONIO ROMERO BARCELO

SHEET ID

C230

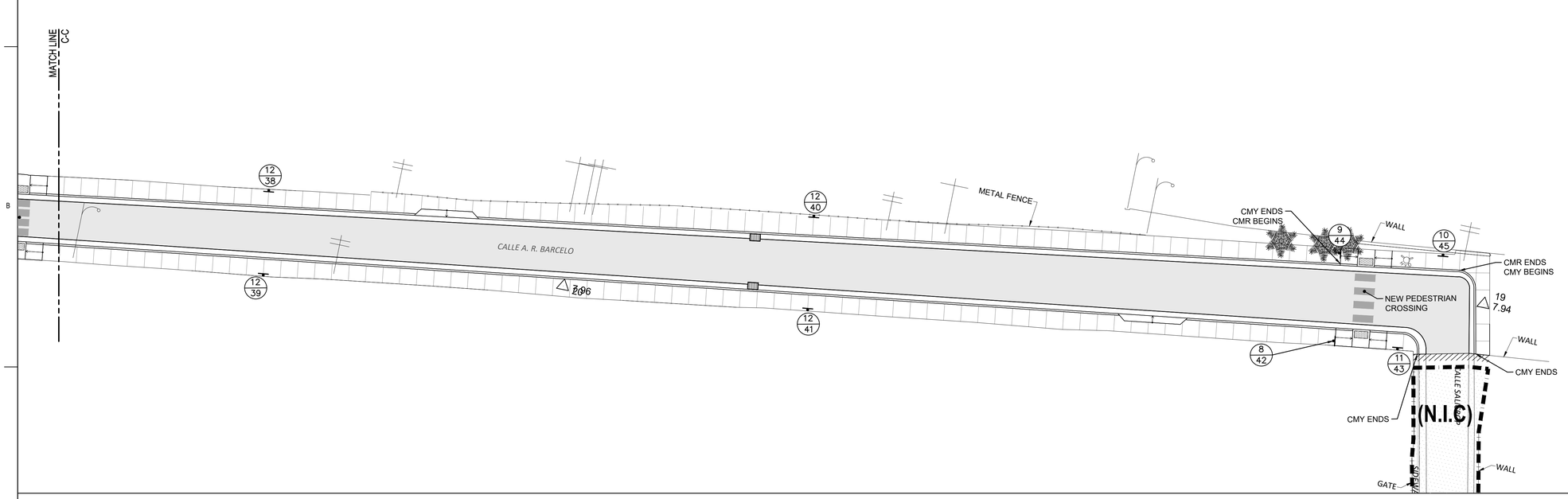
9/1/2025 12:10:07 PM C:\Users\Luz M. Rodriguez\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C230-1.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

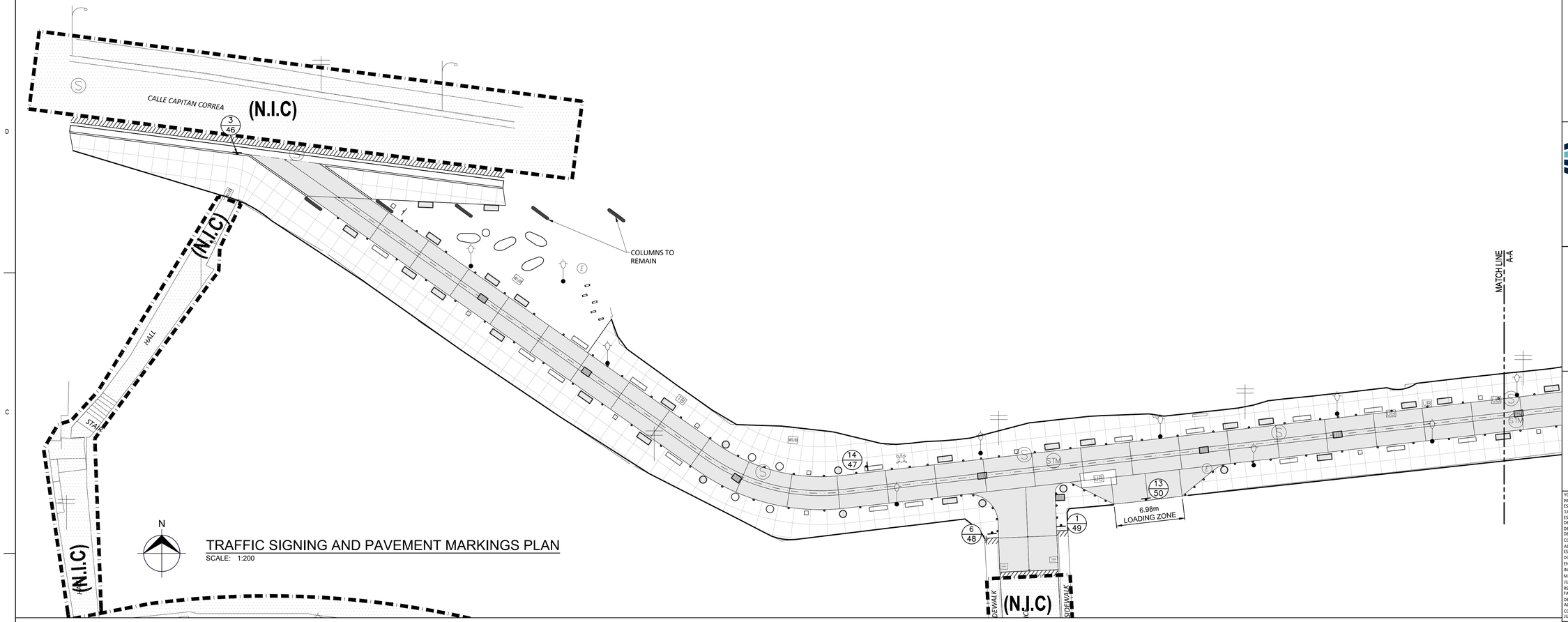
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE ANTONIO ROMERO BARCELO

SHEET ID

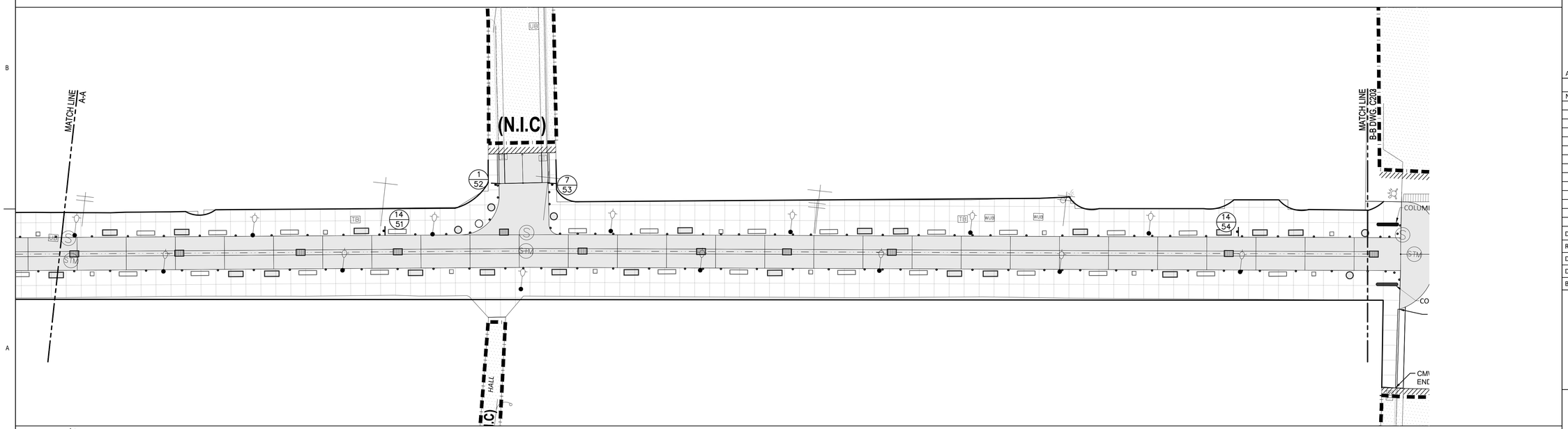
C231

9/1/2025 12:10:34 PM C:\Users\Luz M. Rodriguez\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C230-1.dwg



TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200



TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

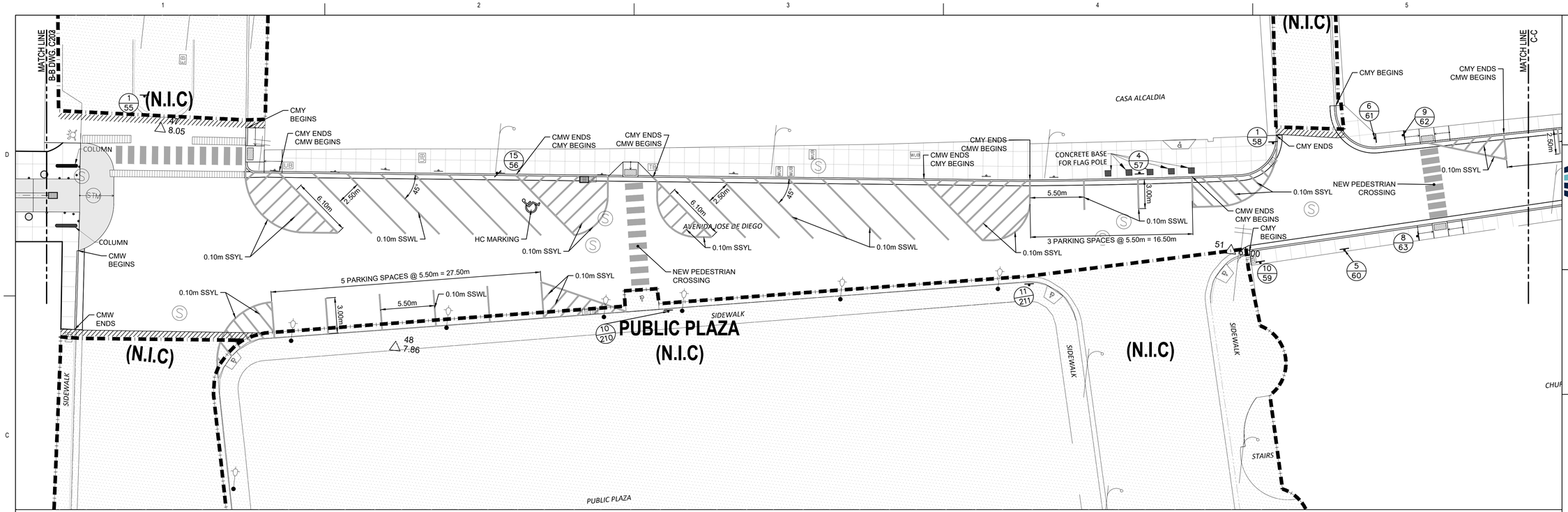
SHEET TITLE

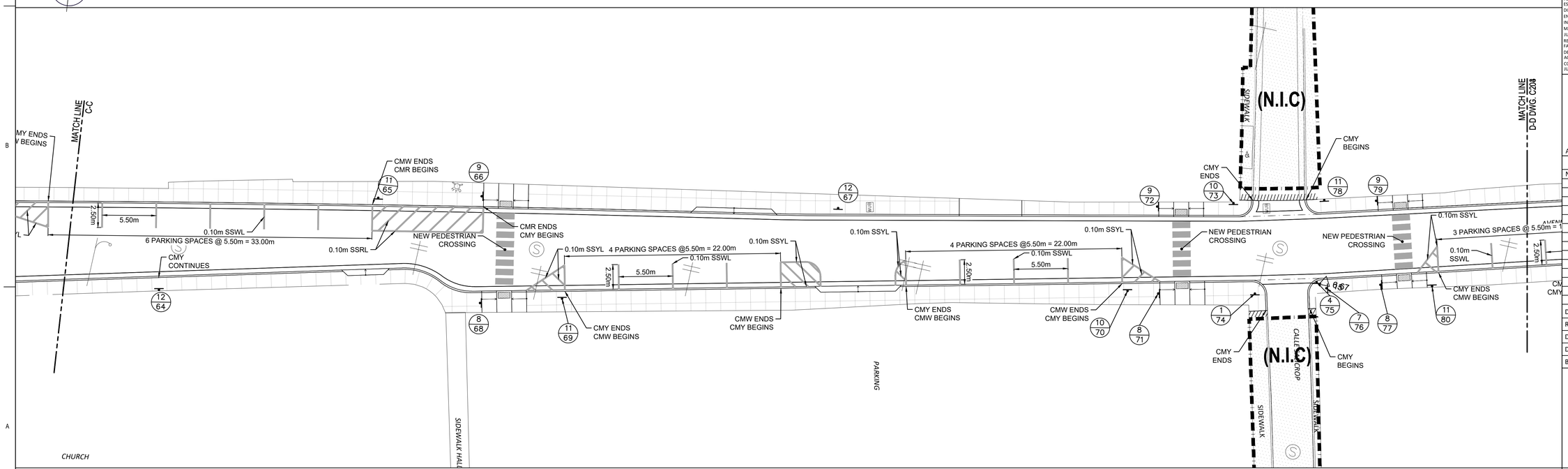
TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN AVE. JOSE DE DIEGO

SHEET ID

C232

9/1/2025 12:08:43 PM C:\Users\Luz M. Rodriguez\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C232-3-4.dwg





N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUES. RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

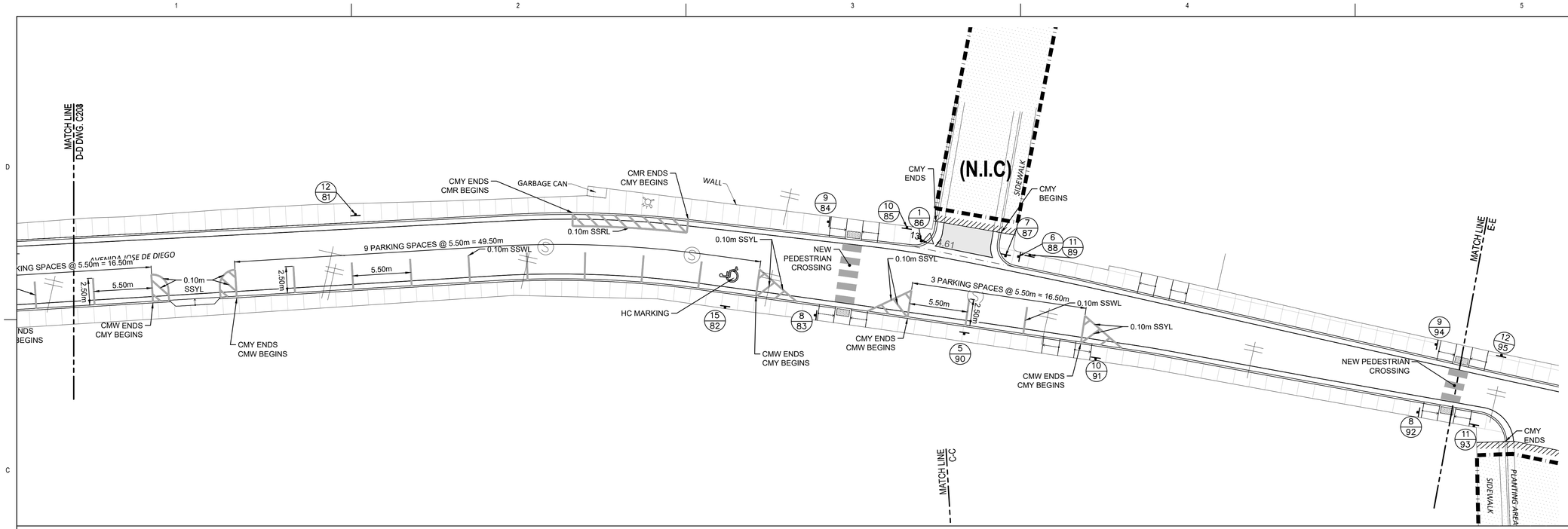
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN AVE. JOSE DE DIEGO

SHEET ID

C233

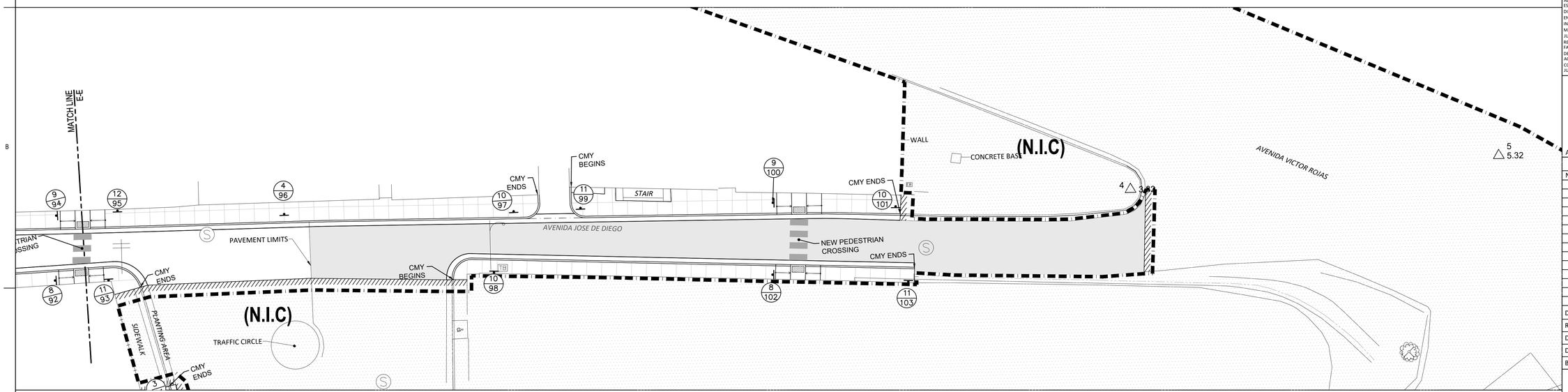
9/1/2025 12:09:00 PM C:\Users\Luz M. Rodriguez\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C232-3-4.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

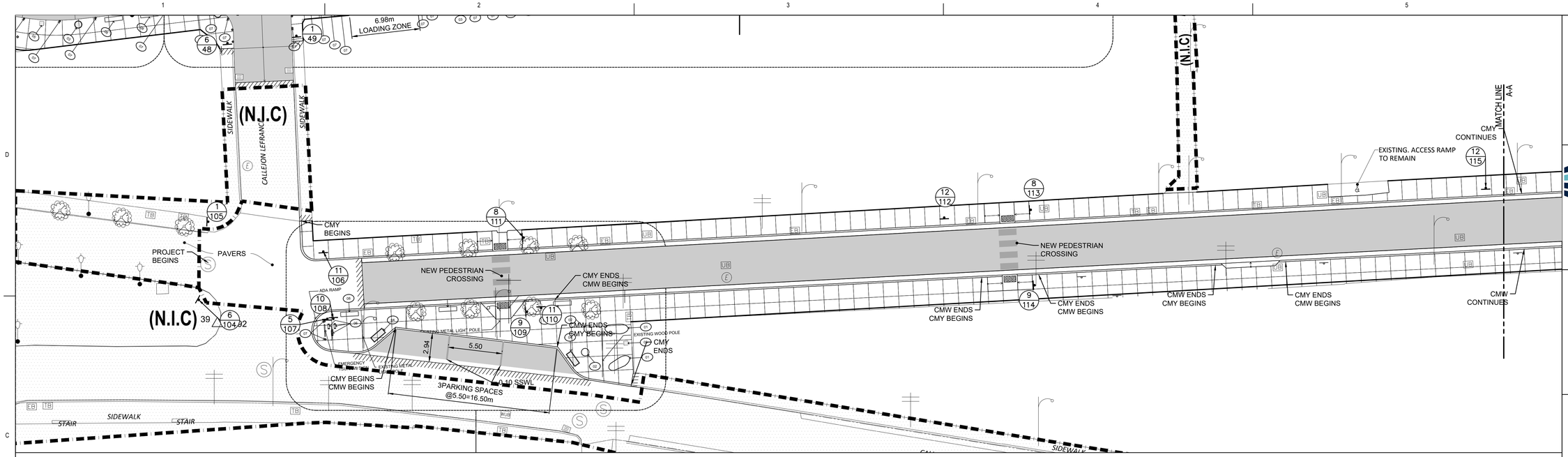
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN AVE. JOSE DE DIEGO

SHEET ID

C234

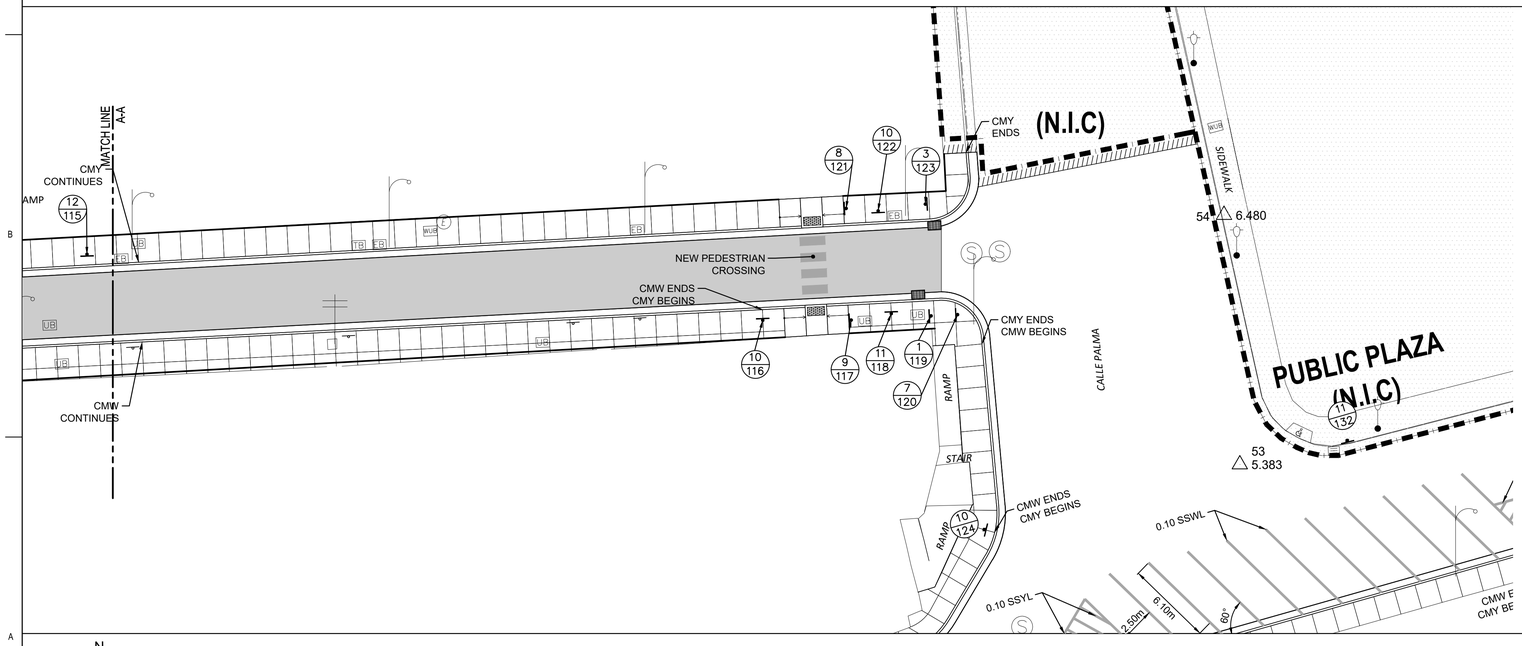
9/1/2025 12:09:11 PM C:\Users\Luz M. Rodriguez\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C232-3-4.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

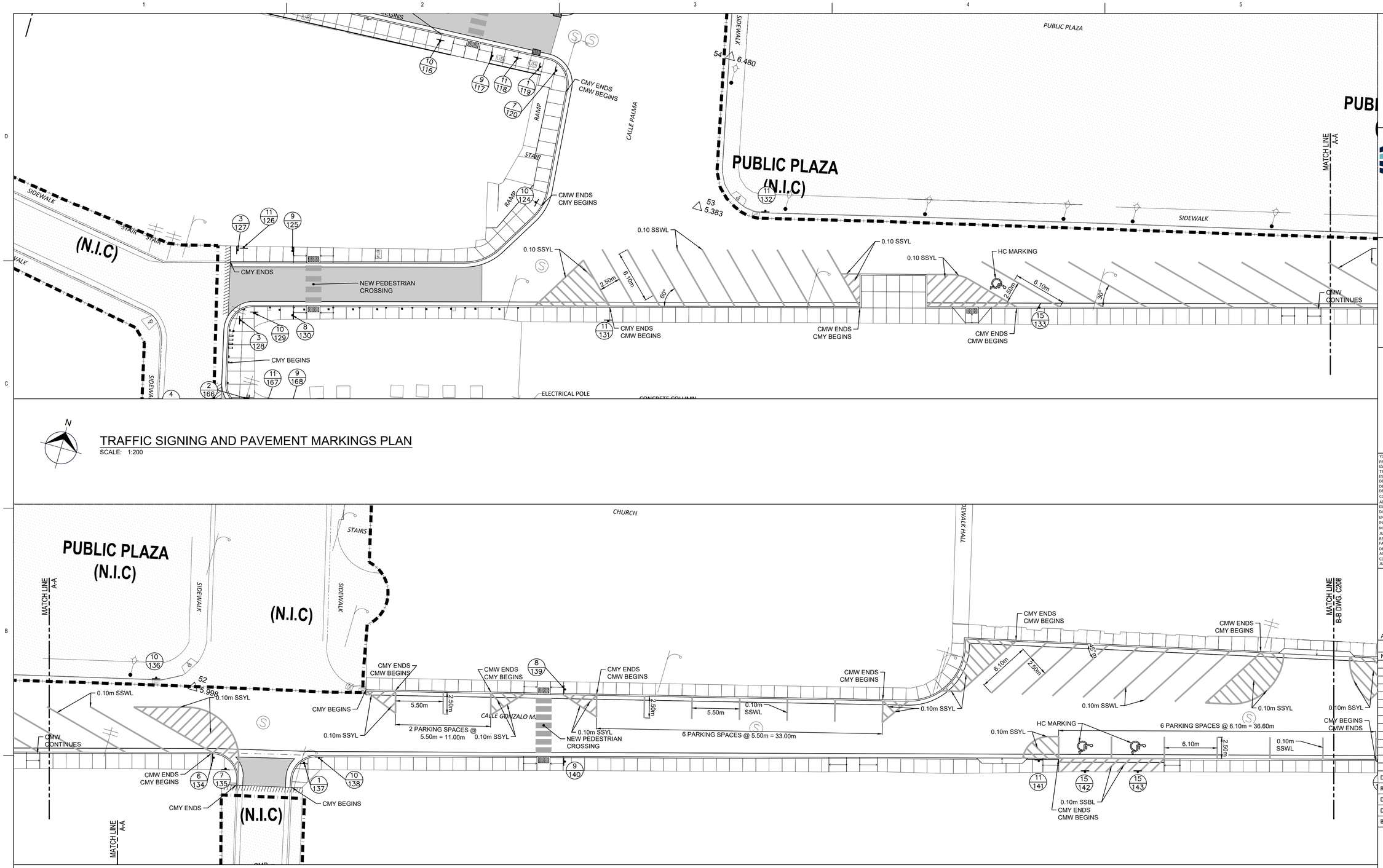
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE RAMON E. BETANCES

SHEET ID

C235

8/29/2025 10:28:41 AM C:\Users\Miguel Matos\OneDrive - Benliez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C235.dwg



NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

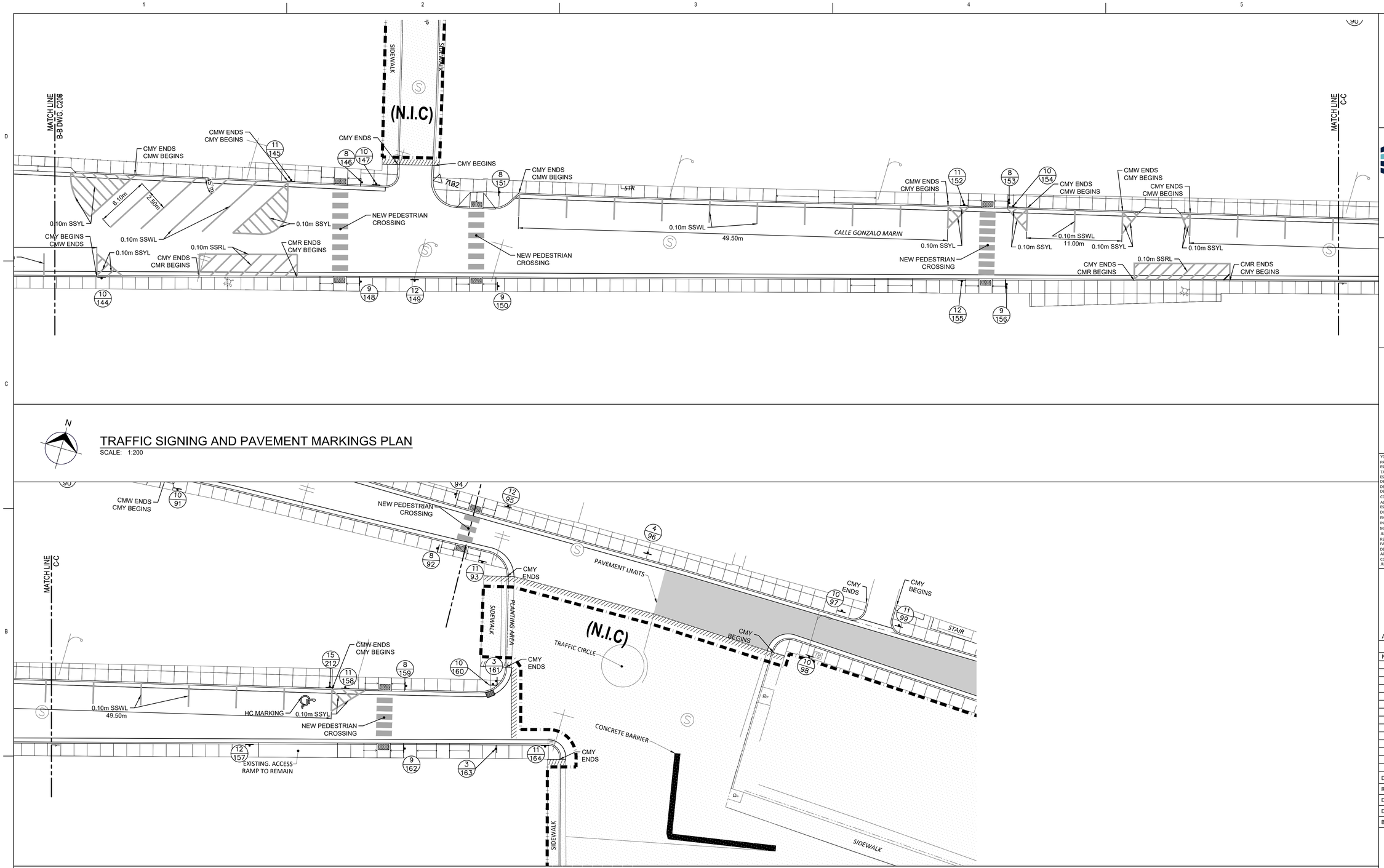
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE GONZALO MARIN

SHEET ID

C236

8/29/2025 10:29:05 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C236-7.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

8/29/2025 10:29:23 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C236-7.dwg

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

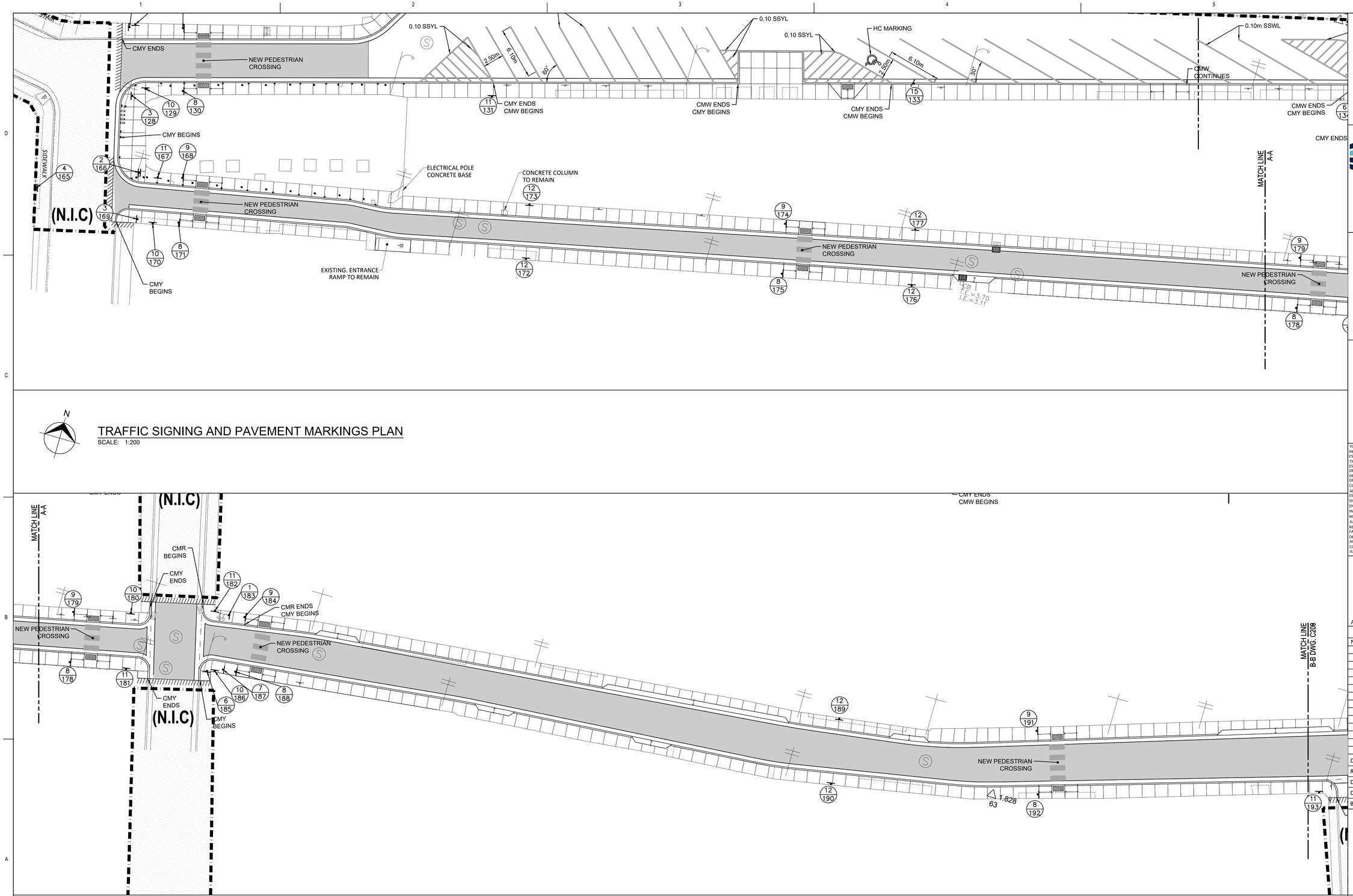
DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE GONZALO MARIN

SHEET ID

C237



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

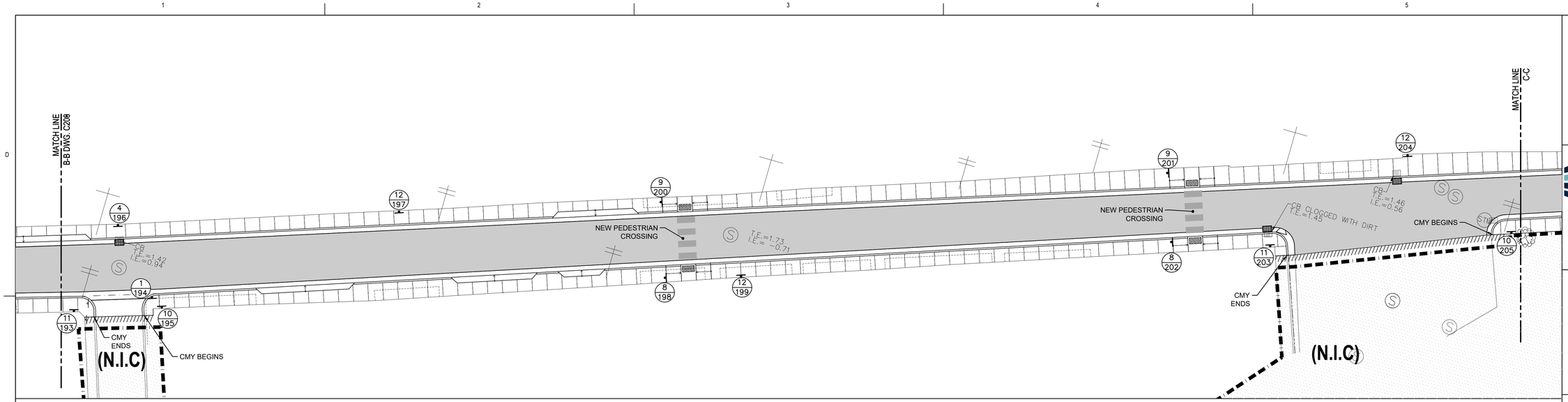
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE ARIOSTO CRUZ

SHEET ID

C238

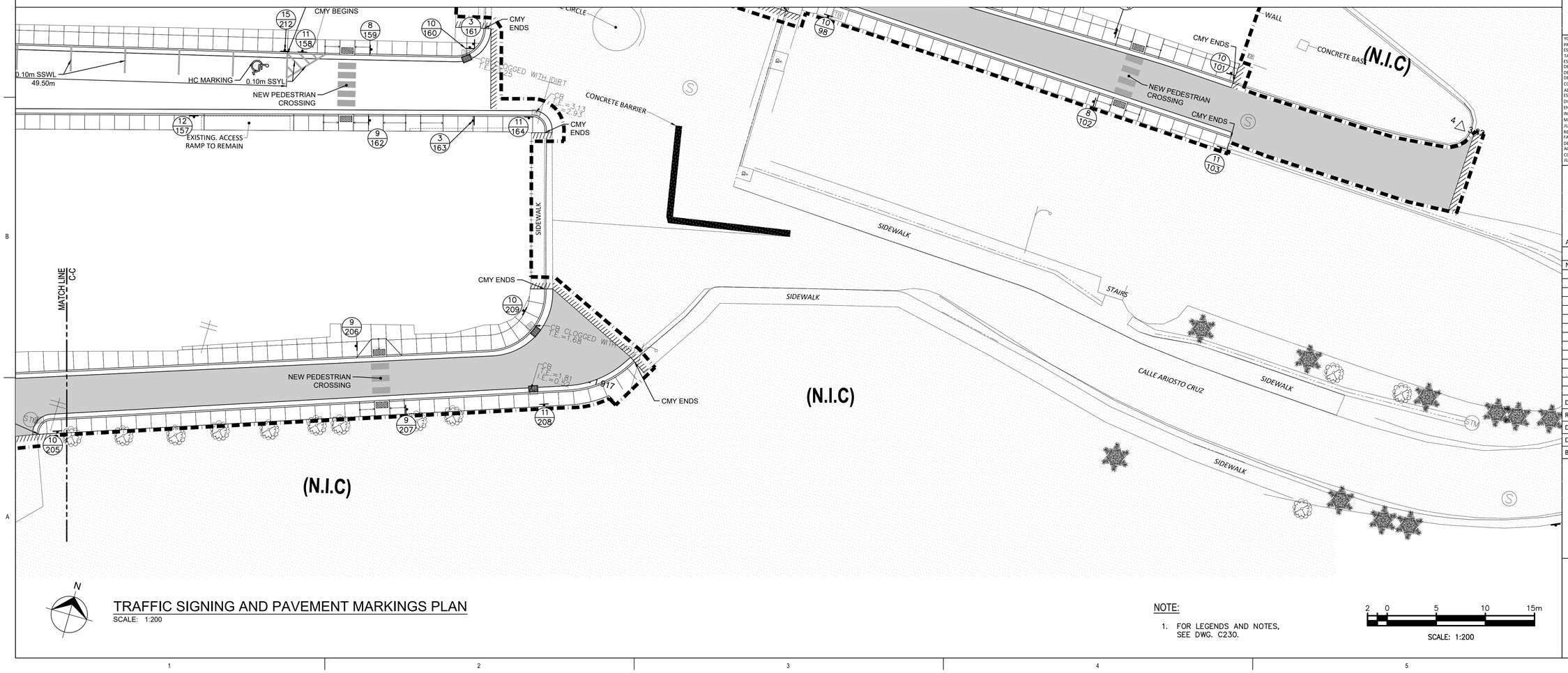
8/29/2025 10:29:47 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C238-9.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE ARIOSTO CRUZ

SHEET ID

C239

8/29/2025 10:30:06 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C238-9.dwg

TRAFFIC SIGNS

CODE No.	LOCATION No.	SIGN CODE	LEGEND	SIZE OF SIGN PANELS	STRUCTURE TYPE	REFERENCE MANUAL	TOTAL ITEM
1	11, 26, 32, 49, 52, 55, 58, 74, 86, 105, 119, 137, 183, 194	R1–1		30" X 30"	N/A	SEE D.T.P.W. MANUAL 2020	14
2	27, 166	R1–1 R5–1	BACK TO BACK	30" X 30" 30" X 30"	N/A	SEE D.T.P.W. MANUAL 2020	2
3	29, 46, 123, 127, 128, 161, 163, 169	R5–1		30" X 30"	N/A	SEE D.T.P.W. MANUAL 2020	8
4	57, 75, 96, 165, 196	R6–1(I) R3–1		36" X 12" 24" X 24"	N/A	SEE D.T.P.W. MANUAL 2020	5
5	33, 60, 90, 107	R6–1(D) R3–2		36" X 12" 24" X 24"	N/A	SEE D.T.P.W. MANUAL 2020	4
6	48, 61, 88, 104, 134, 185	R3–1		24" X 24"	N/A	SEE D.T.P.W. MANUAL 2020	6
7	53, 76, 87, 120, 135, 187	R3–2		24" X 24"	N/A	SEE D.T.P.W. MANUAL 2020	6
8	5, 14, 30, 37, 42, 63, 68, 71, 77, 83, 92, 102, 111, 113, 121, 130, 139, 146, 151, 153, 159, 171, 175, 178, 188, 192, 198, 202	W11–2 W16–7P(D)		30" X 30" 24" X 12"	N/A	SEE D.T.P.W. MANUAL 2020	28
9	2, 9, 12, 13, 15, 17, 19, 21, 23, 24, 28, 35, 44, 62, 66, 72, 79, 84, 94, 100, 109, 114, 117, 125, 140, 148, 150, 156, 162, 168, 174, 179, 184, 191, 200, 201, 206, 207	W11–2 W16–7P(I)		30" X 30" 24" X 12"	N/A	SEE D.T.P.W. MANUAL 2020	38
10	3, 4, 10, 18, 20, 36, 45, 59, 70, 73, 85, 91, 97, 98, 101, 108, 116, 122, 124, 129, 136, 138, 144, 147, 154, 160, 170, 180, 186, 195, 205, 209, 210	R7–1(I)		18" X 12"	N/A	SEE D.T.P.W. MANUAL 2020	33
11	1, 6, 7, 16, 25, 34, 43, 65, 69, 78, 80, 89, 93, 99, 103, 106, 110, 118, 126, 131, 132, 141, 145, 152, 158, 164, 167, 181, 182, 193, 203, 208, 211	R7–1(D)		18" X 12"	N/A	SEE D.T.P.W. MANUAL 2020	33
12	8, 22, 38, 39, 40, 41, 64, 67, 81, 95, 112, 115, 149, 155, 157, 172, 173, 176, 177, 189, 190, 197, 199, 204	R7–1		18" X 12"	N/A	SEE D.T.P.W. MANUAL 2020	24
13	50	R7–6		18" X 12"	N/A	SEE D.T.P.W. MANUAL 2020	1
14	47, 51, 54	R2–1		18" X 24"	N/A	SEE D.T.P.W. MANUAL 2020	3
15	31, 56, 82, 133, 142, 143, 212	R7–8(PR)		24" X 24"	N/A	SEE D.T.P.W. MANUAL 2020	7

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

SHEET TITLE

TRAFFIC SIGNS TABLE

SHEET ID

C240

8/29/2025 10:30:28 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C240.dwg

TRAFFIC SIGNING NOTES:

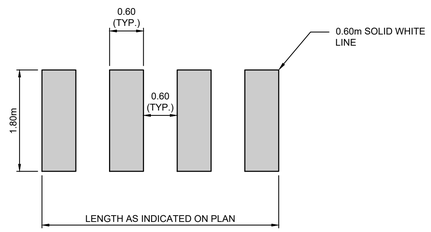
1. REMOVAL AND INSTALLATION OF TRAFFIC SIGNS ARE INCLUDED AS SUBSIDIARY OBLIGATION ON SPEC 613 PAY ITEM.
2. NEW TRAFFIC SIGNS SHALL BE IN COMPLIANCE WITH M.U.T.C.D. 2023 AND DPTW MANUAL 2020.
3. REMOVAL OF EXITING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913 REMOVAL OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
4. EXISTING SIGNS INDICATED TO BE REPLACED SHOULD BE REMOVED AND NEW SIGN SHOULD BE INSTALL ON THE SAME LOCATION (UNLESS OTHERWISE NOTED).
5. EXISTING TRAFFIC SIGNS TO REMAIN SHALL BE CLEAN ACCORDING TO SPECIAL PROVISION 980.

PAVEMENT MARKING NOTES:

1. ALL PAVEMENT MARKING LINES AND SYMBOLS ARE INCLUDED ON SPEC. 618-THERMOPLASTIC PAVEMENT MARKING STRIPES (WHITE, YELLOW, BLUE AND RED), PAVEMENT MARKING LETTERS AND SYMBOLS PAY ITEMS.

PARALLEL HANDICAP PARKING DETAIL

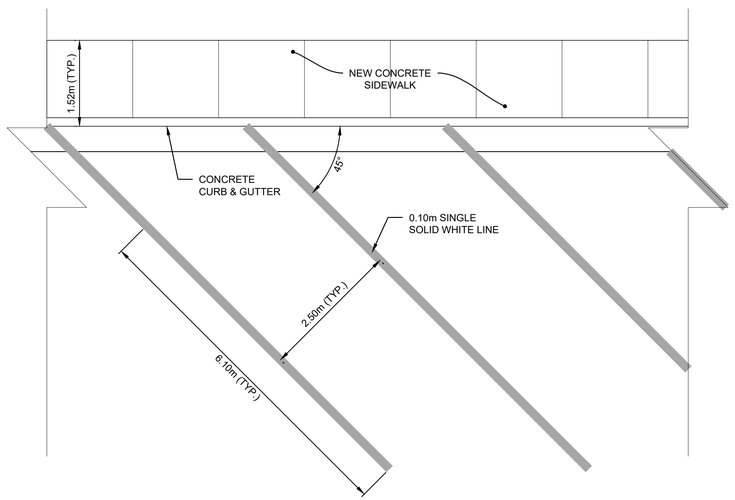
SCALE: NTS



PLAN

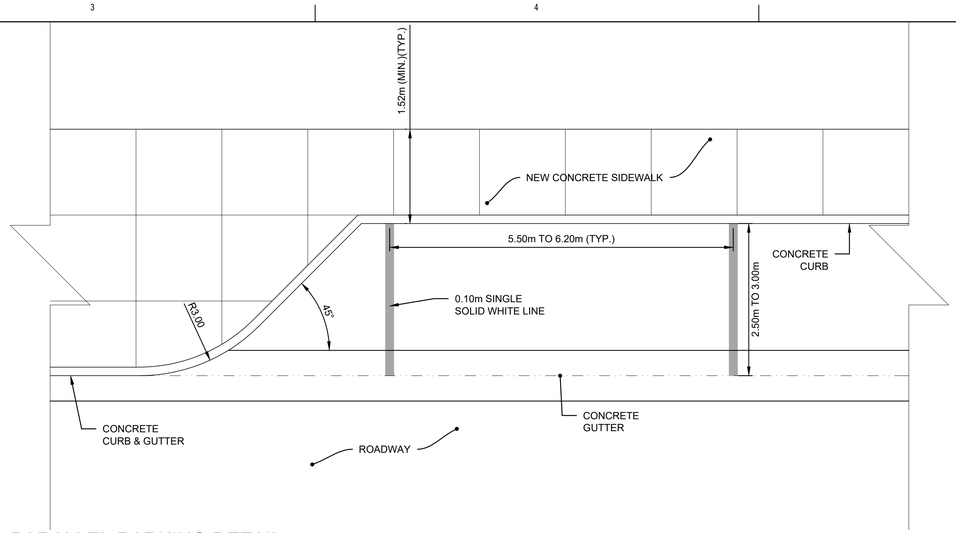
PEDESTRIAN CROSSING SYMBOL

SCALE: NTS



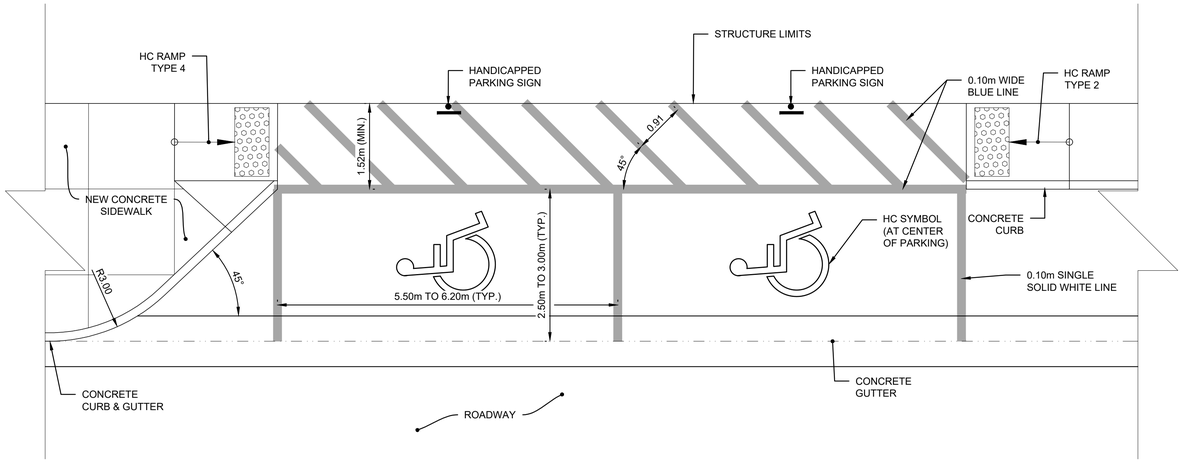
CURB PARKING AT 45° ANGLE DETAIL

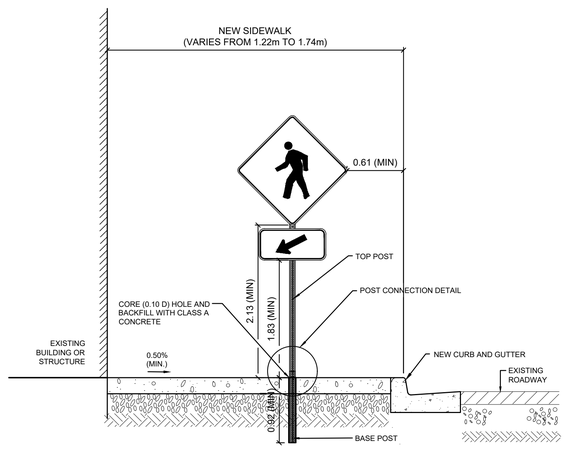
SCALE: NTS



PARALLEL PARKING DETAIL

SCALE: NTS





TYPICAL SIDEWALK SIGN INSTALLATION DETAIL

SCALE: NTS

NOTES:

1. SIGNS SHOULD BE LOCATED ON THE RIGHT-HAND SIDE OF THE ROADWAYS, UNLESS OTHERWISE SPECIFIED. (SEE MUTCD 2023 SEC. 6F.03 SIGN PLACEMENT FOR MORE DETAILS)
2. THE MINIMUM HEIGHT OF SIGNS INSTALLED ABOVE SIDEWALKS SHALL BE 2.13m (7 ft), MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK.
3. IN THE CASE OF MULTIPLE SIGNS, THE HEIGHT TO THE BOTTOM OF A SECONDARY SIGN MOUNTED BELOW ANOTHER SIGN MAY BE 0.30m (1 ft) LESS THAN 2.13m(7ft) AND SHOULD NOT PROJECT MORE THAN 0.30m (4in) INTO THE PEDESTRIAN FACILITY. (SEE MUTCD 2023 SEC. 4.4 FOR ADA COMPLIANCE)
4. STEEL POST SHALL BE CONFORM WITH ASTM A499, GRADE 60 OR MARION STEEL COMPANY GRADE SP-80.
5. STEEL POST FINISH MUST BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111 (ASTM A123).
6. FOR MORE APPLICATIONS ON BASE POST INSTALLATION REFER TO PRHTA STANDARD DRAWINGS AT DWG. STS-2.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

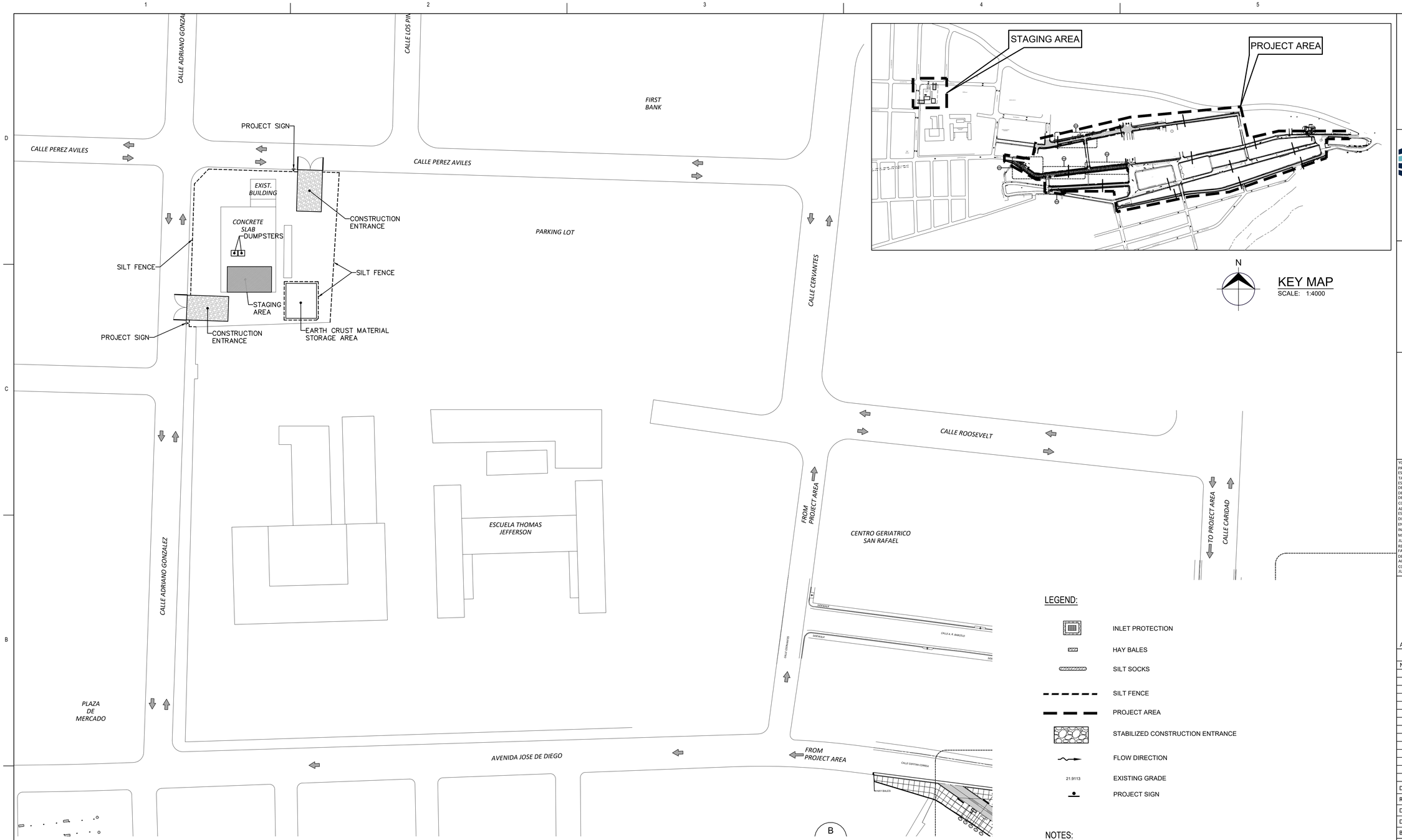
SHEET TITLE

PAVEMENT MARKING DETAILS

SHEET ID

C241

8/29/2025 10:30:29 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C240.dwg



N

KEY MAP
SCALE: 1:4000

STAGING AREA COORDINATES:

LAT: N18.47368596260 7
LON: W66.72086197981 1

N

EROSION AND SEDIMENTATION CONTROL - STAGING AREA
SCALE: 1:500

LEGEND:

- INLET PROTECTION
- HAY BALES
- SILT SOCKS
- SILT FENCE
- PROJECT AREA
- STABILIZED CONSTRUCTION ENTRANCE
- FLOW DIRECTION
- 21.9113 EXISTING GRADE
- PROJECT SIGN

NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ARE EXPRESSED IN METERS, UNLESS OTHERWISE NOTED.
2. FOR EROSION AND SEDIMENT CONTROL DETAILS AND NOTES, REFER TO DWG. C491.
3. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMMENCE WITH ANY DEMOLITION OR EXCAVATION, AND MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION.

5 0 5 10 15 20
SCALE: 1:500

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

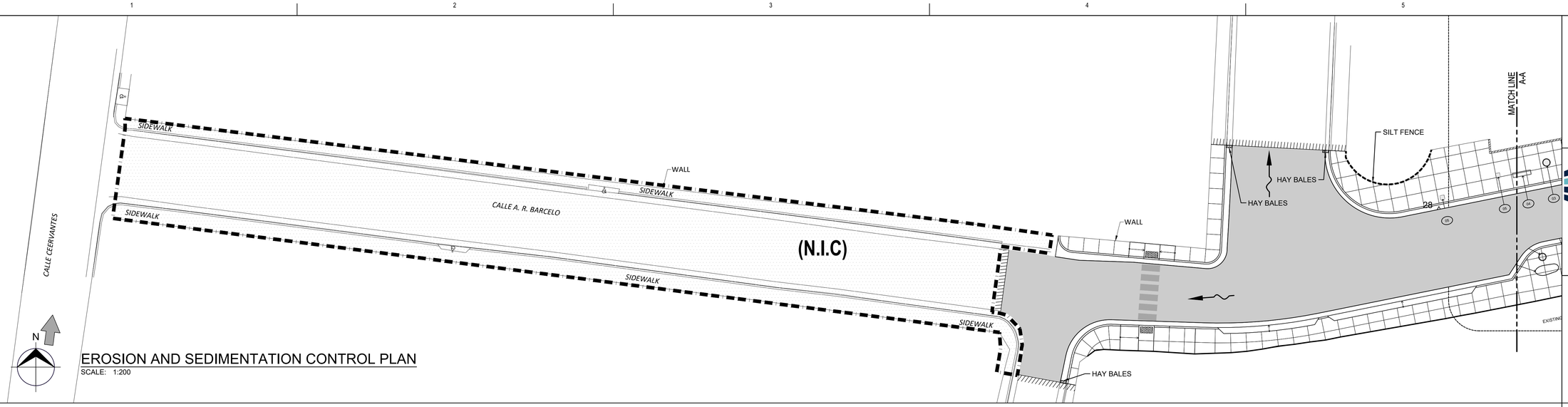
SHEET TITLE

EROSION & SEDIMENTATION CONTROL PLAN

SHEET ID

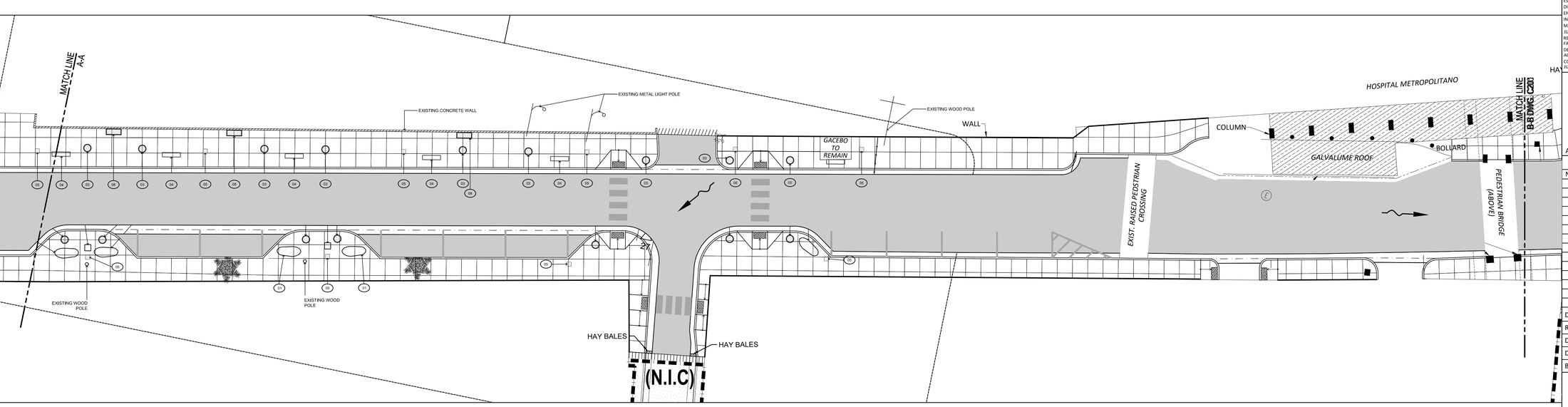
C480

8/29/2025 10:30:35 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejirasCalles\07-Project Design\01-Civil\C480.dwg



EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200



EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGÉNCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OOPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

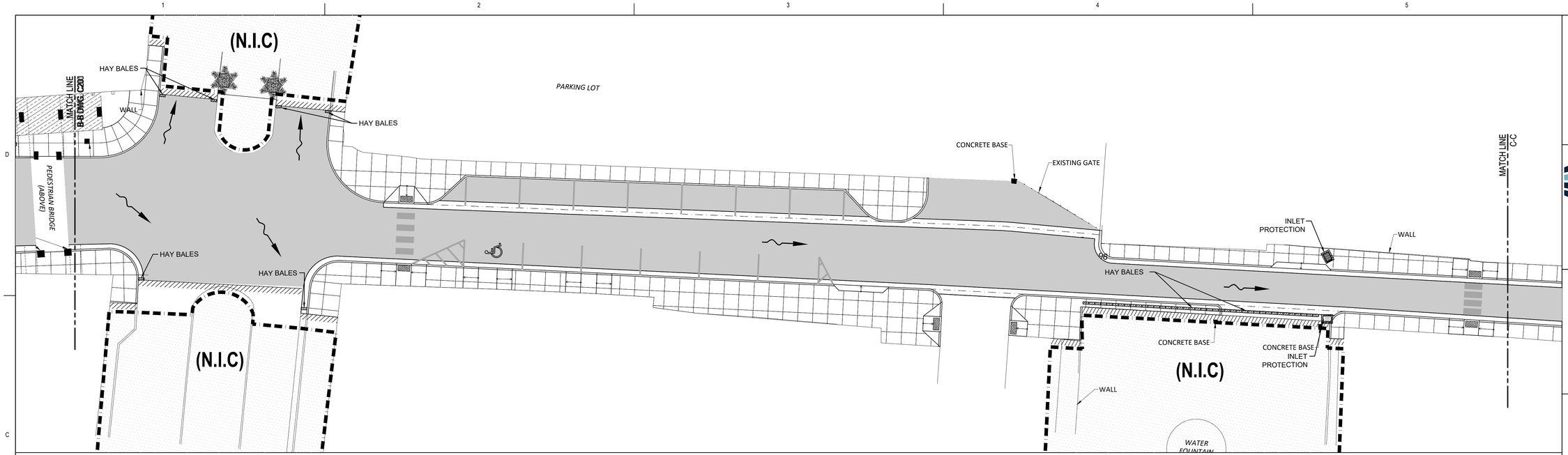
SHEET TITLE

LAYOUT PLAN
CALLE ANTONIO
ROMERO BARCELO

SHEET ID

C481

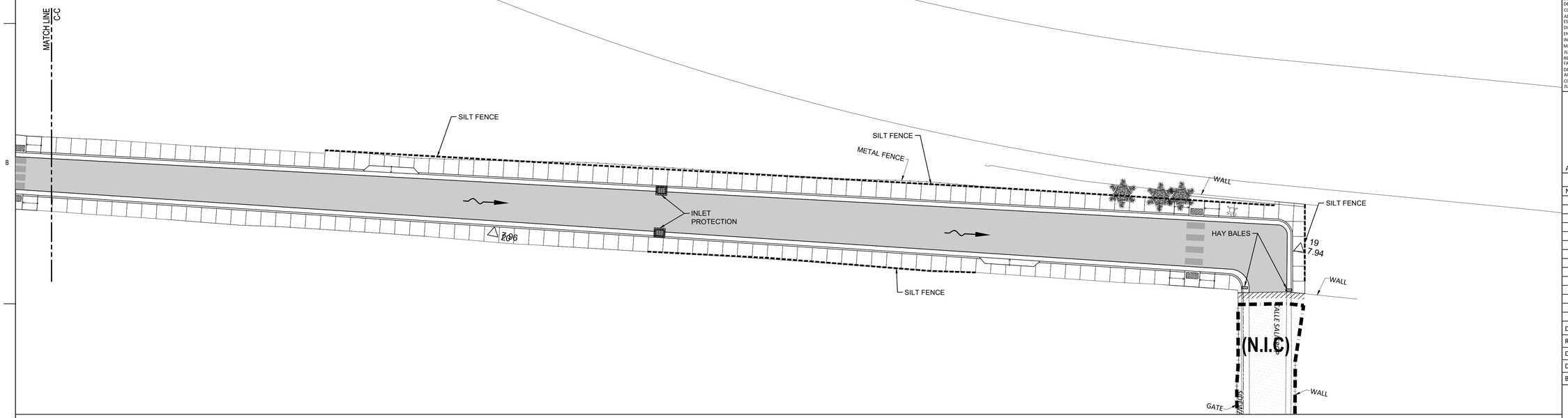
8/29/2025 10:30:59 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C481-2.dwg



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

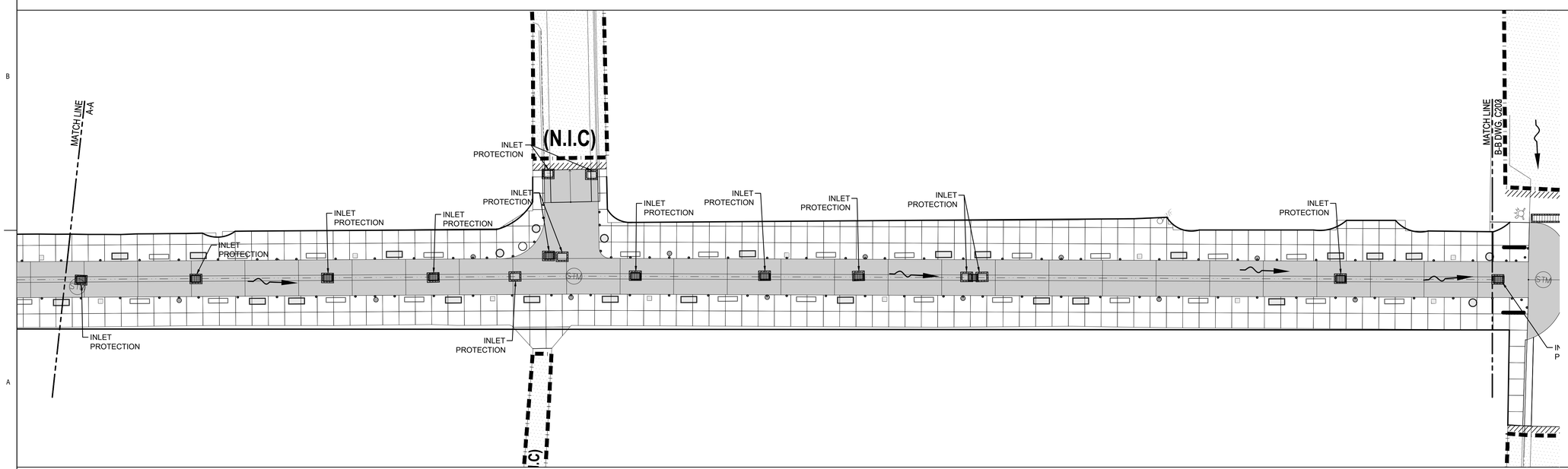
SHEET TITLE

LAYOUT PLAN
CALLE ANTONIO ROMERO BARCELO

SHEET ID

C482

8/29/2025 10:31:17 AM C:\Users\Miguel Matos\OneDrive - Benitez,Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C481-2.dwg



NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

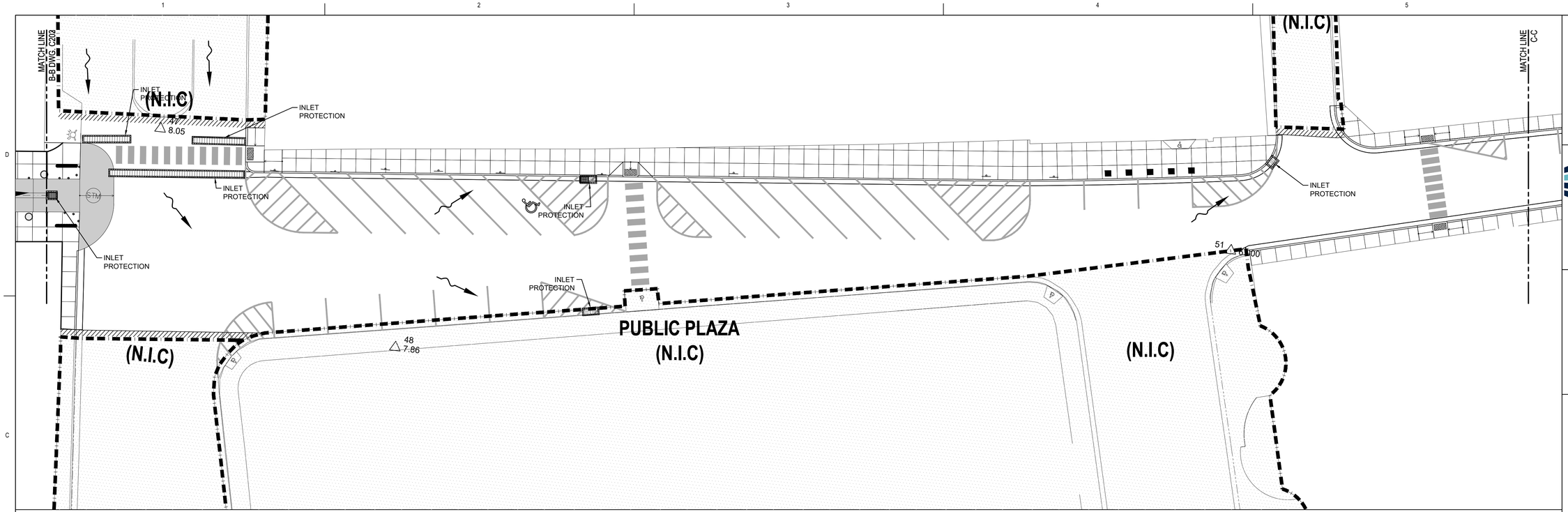
SHEET TITLE

EROSION AND SEDIMENTATION CONTROL PLAN AVE. JOSE DE DIEGO

SHEET ID

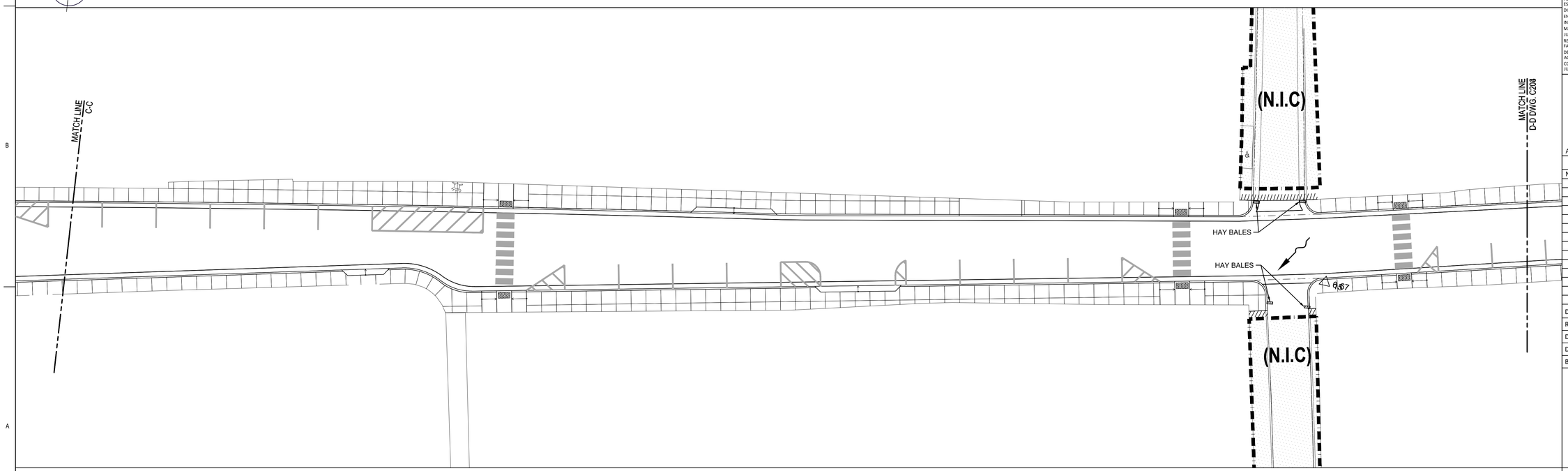
C483

8/29/2025 10:31:41 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C483-4-5.dwg



EROSION AND SEDIMENTATION PLAN

SCALE: 1:200



EROSION AND SEDIMENTATION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUES). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

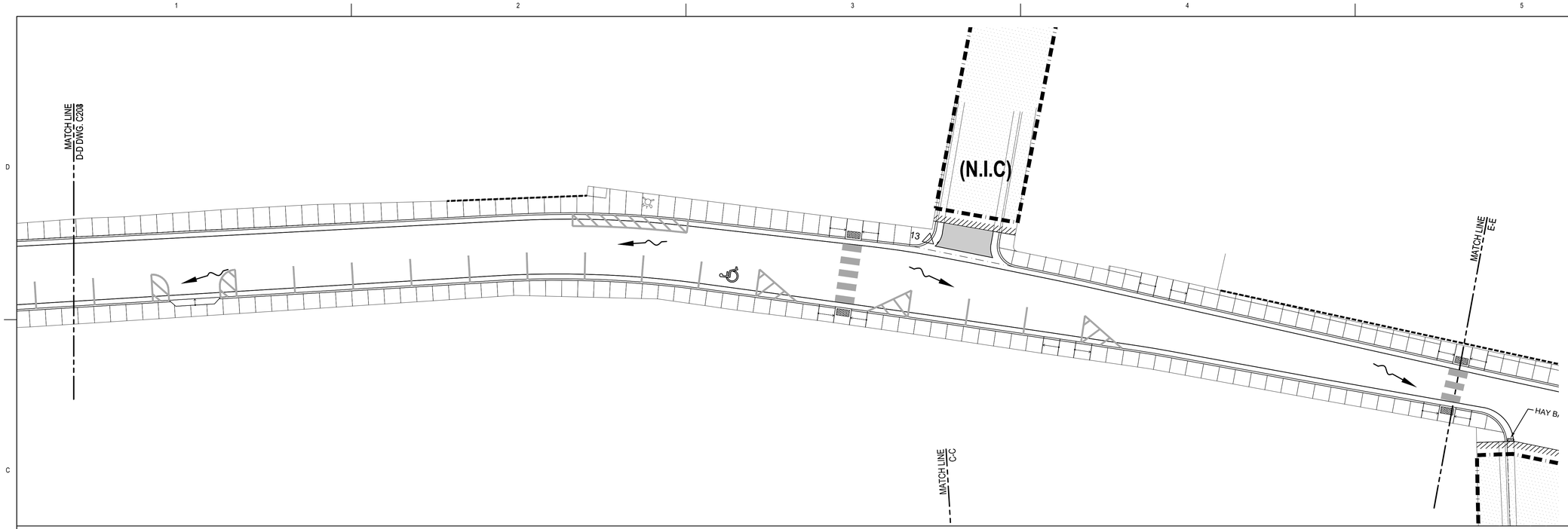
SHEET TITLE

EROSION AND SEDIMENTATION CONTROL PLAN AVE. JOSE DE DIEGO

SHEET ID

C484

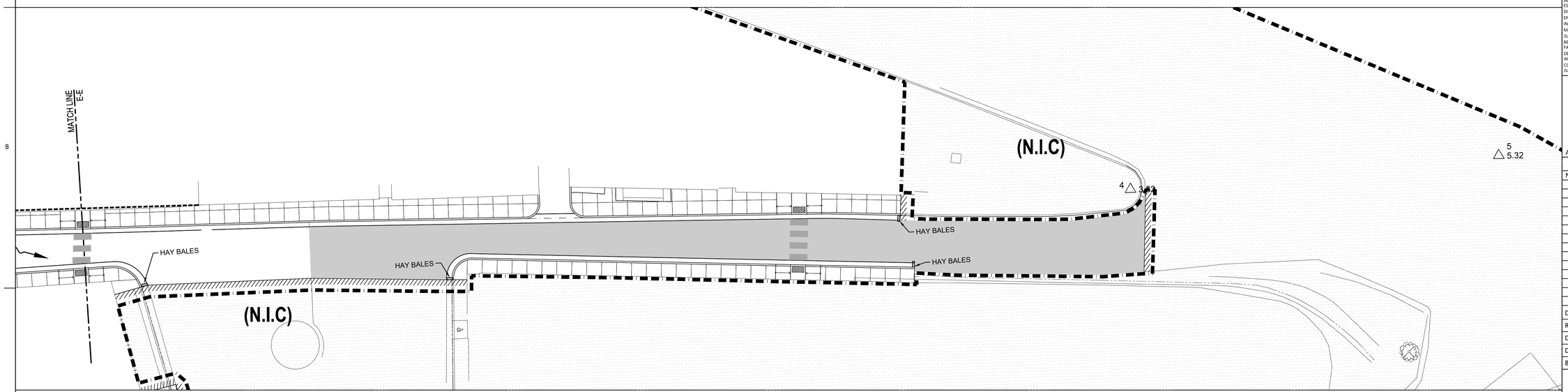
8/29/2025 10:32:00 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C483-4-5.dwg



N

EROSION AND SEDIMENTATION PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

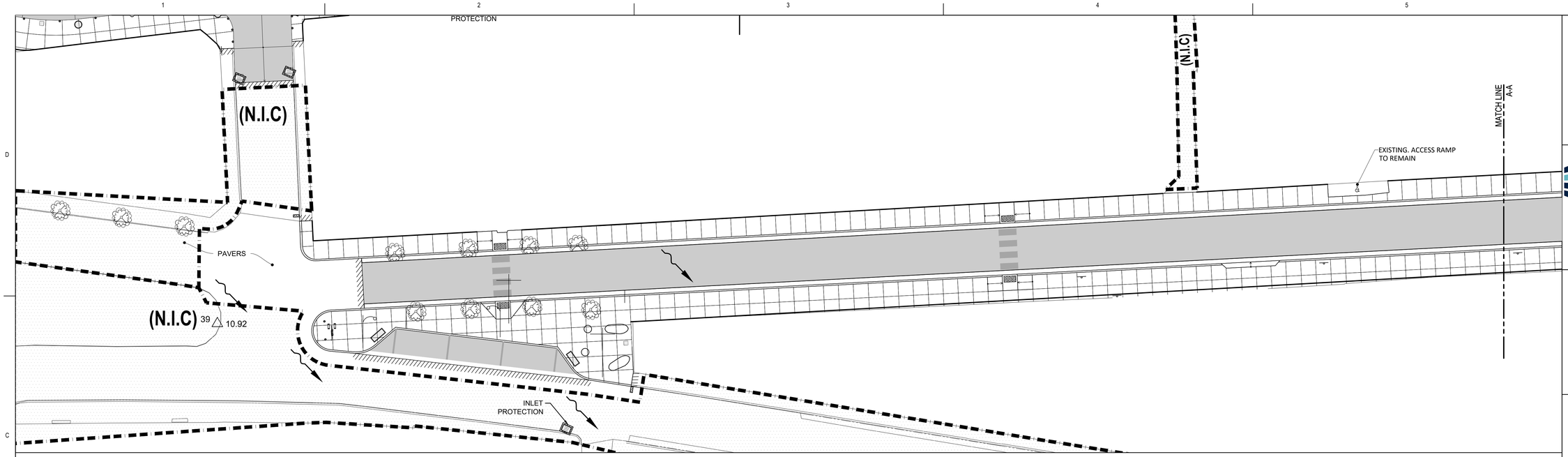
SHEET TITLE

EROSION AND SEDIMENTATION CONTROL PLAN AVE. JOSE DE DIEGO

SHEET ID

C485

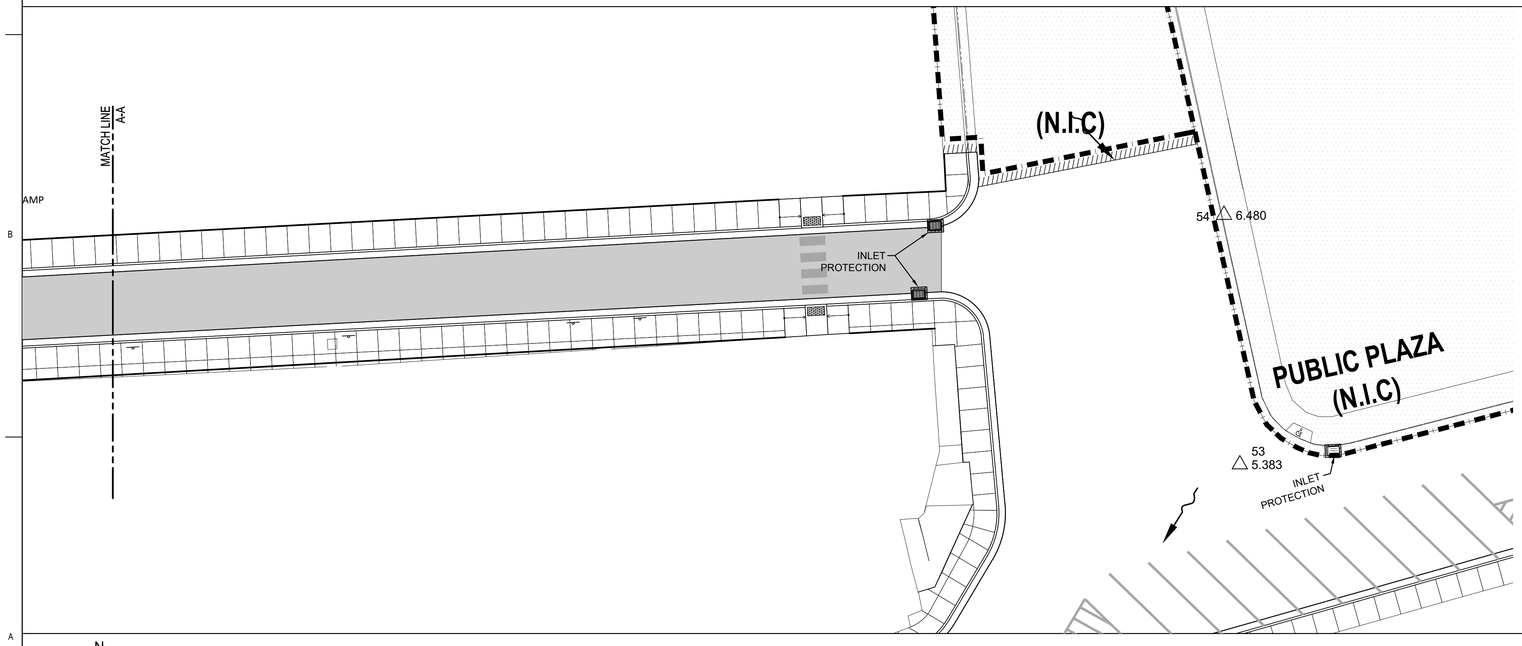
8/29/2025 10:32:18 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C483-4-5.dwg



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

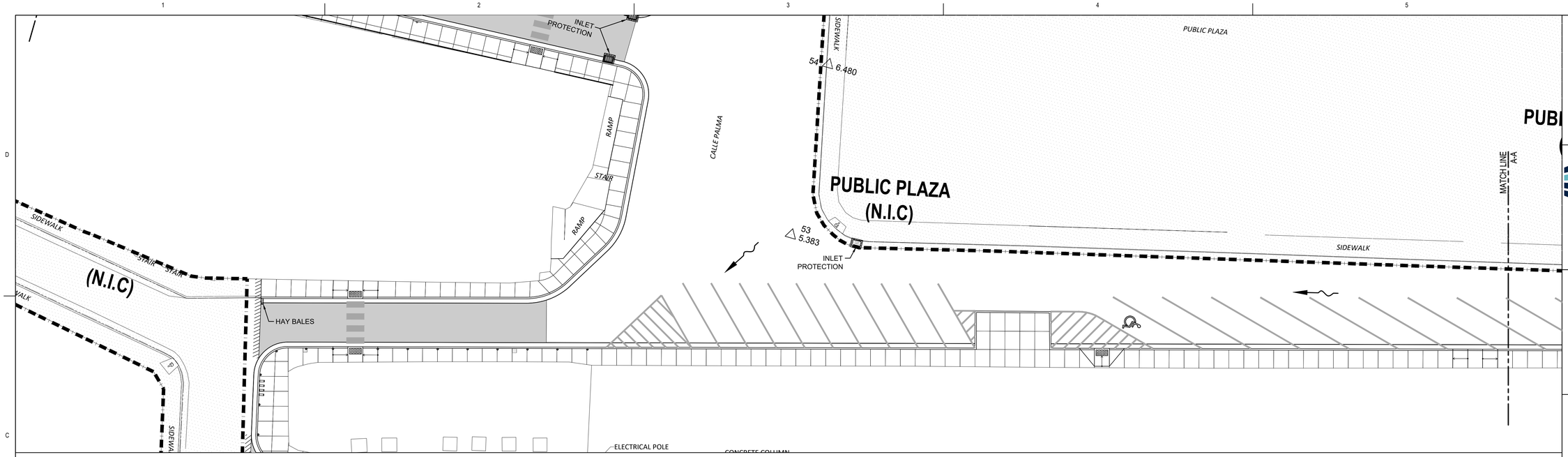
SHEET TITLE

LAYOUT PLAN
CALLE RAMON E.
BETANCES

SHEET ID

C486

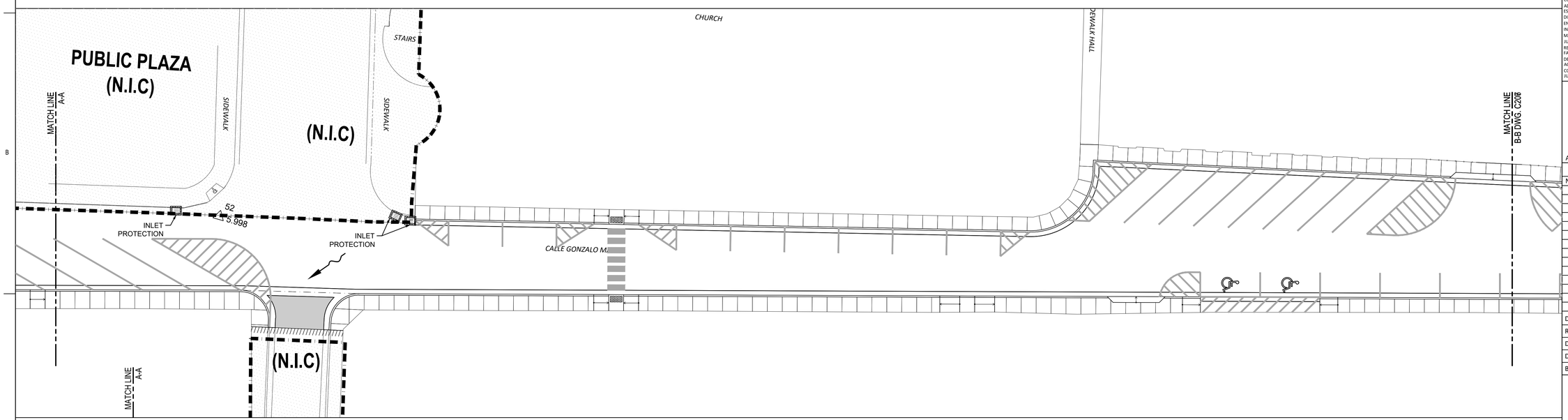
8/29/2025 10:32:41 AM C:\Users\Miguel Matos\OneDrive - Benliez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C486.dwg



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

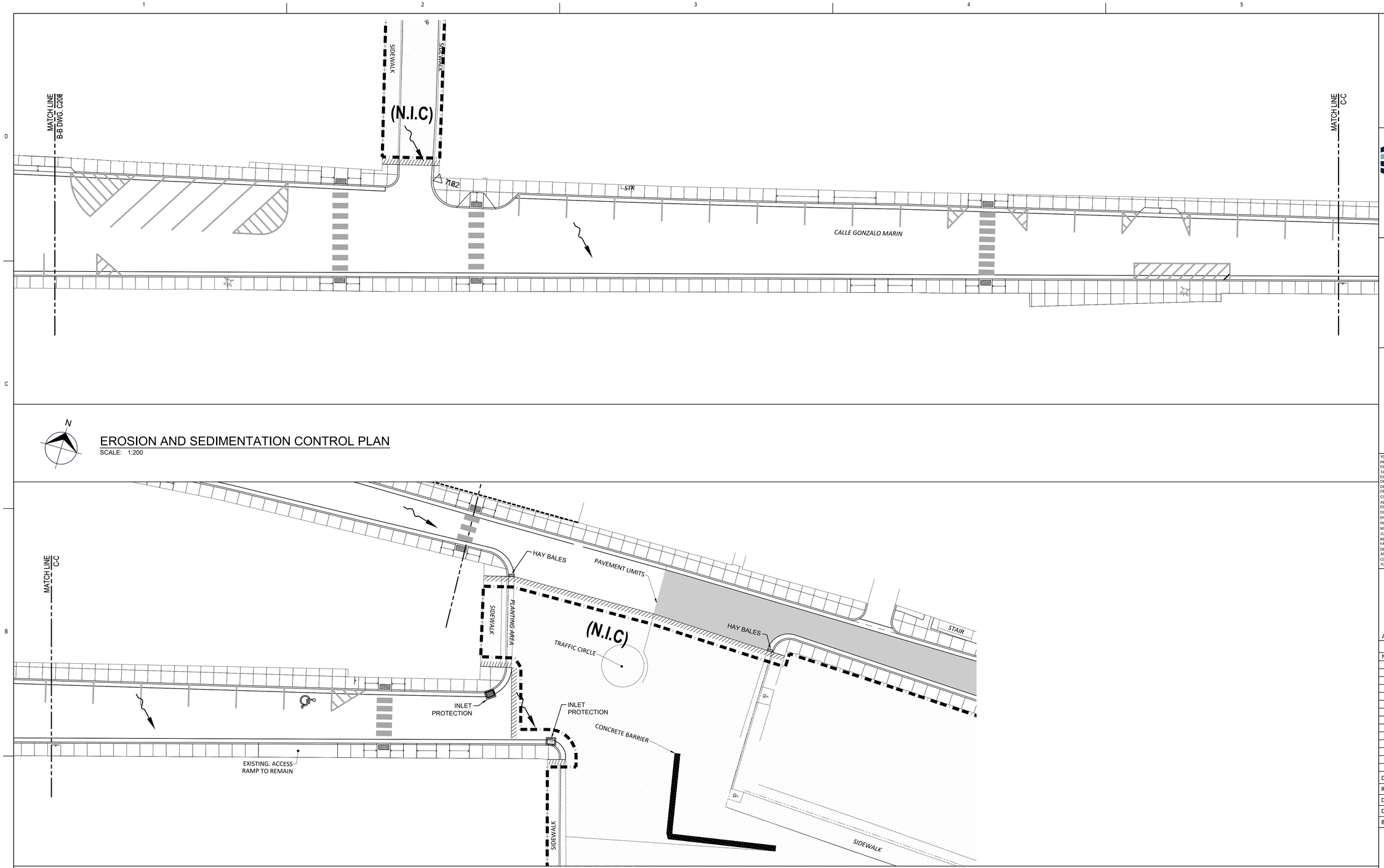
SHEET TITLE

LAYOUT PLAN
CALLE GONZALO MARIN

SHEET ID

C487

8/29/2025 10:33:04 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C487-8.dwg



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

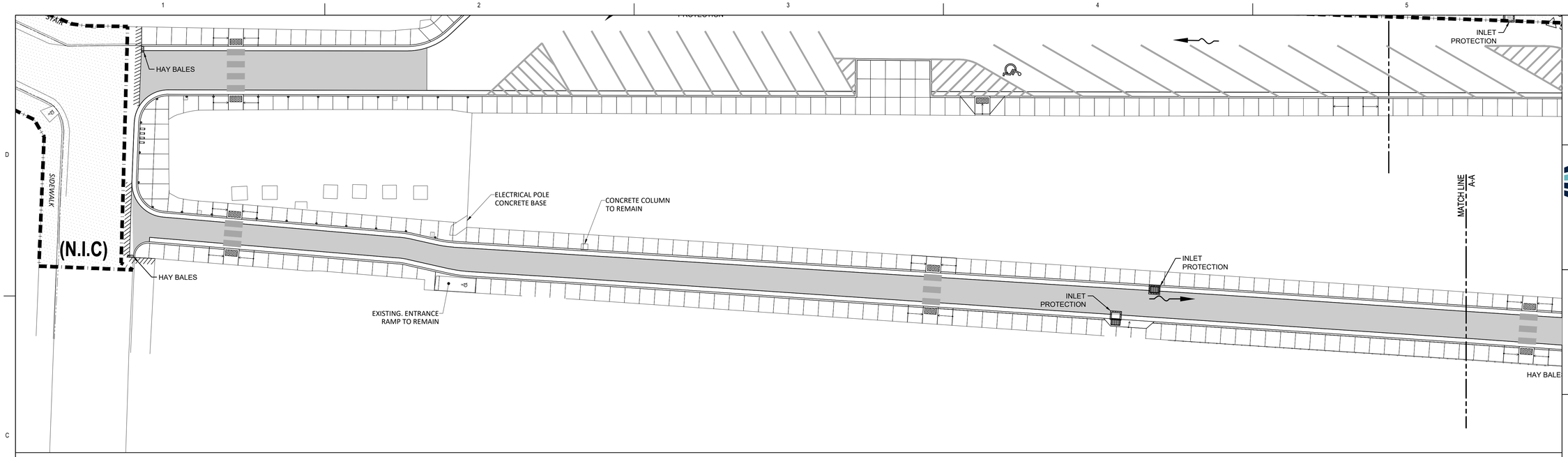
SHEET TITLE

LAYOUT PLAN
CALLE GONZALO
MARIN

SHEET ID

C488

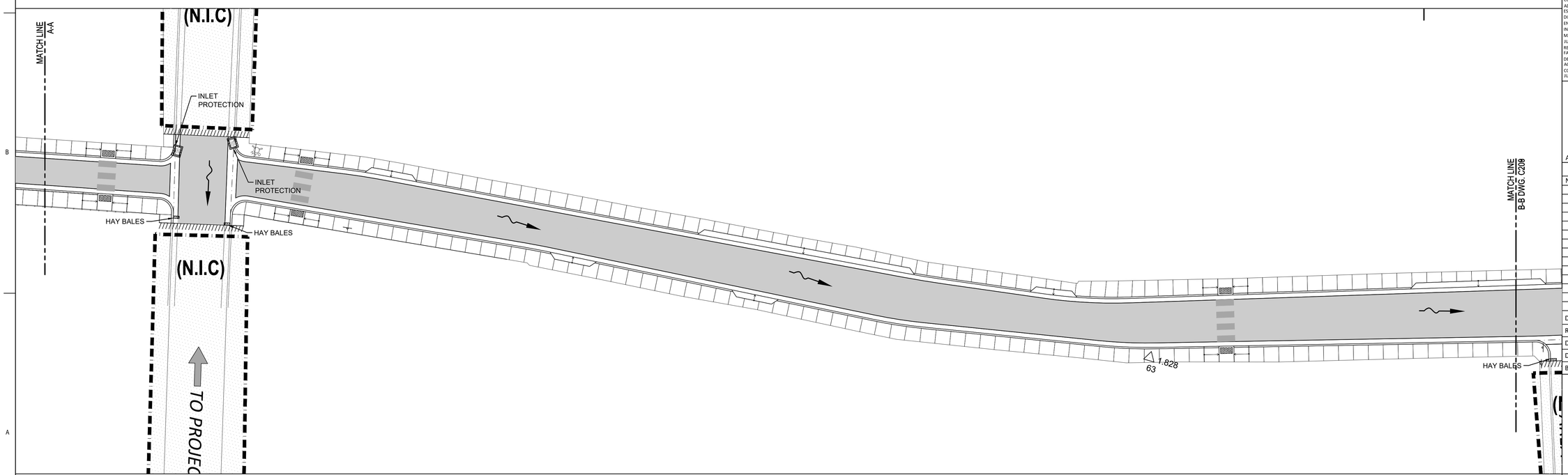
8/29/2025 10:33:22 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C487-8.dwg



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

SHEET TITLE

LAYOUT PLAN
CALLE ARIOSTO
CRUZ

SHEET ID

C489

8/29/2025 10:33:45 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C489-490.dwg

MATCH LINE B-B DWG. C209

MATCH LINE C-C

INLET PROTECTION

HAY BALES

HAY BALES

(N.I.C)

INLET PROTECTION

HAY BALES

INLET PROTECTION

HAY BALES

(N.I.C)

N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

INLET PROTECTION

INLET PROTECTION

CONCRETE BARRIER

EXISTING. ACCESS RAMP TO REMAIN

SIDEWALK

MATCH LINE C-C

INLET PROTECTION

SILT FENCE

(N.I.C)

CIRCLE

WALL

CONCRETE BASE

(N.I.C)

HAY BALES

HAY BALES

SIDEWALK

SIDEWALK

STAIRS

CALLE ARIOSTO CRUZ

SIDEWALK

SIDEWALK

N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE) RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGÉNCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

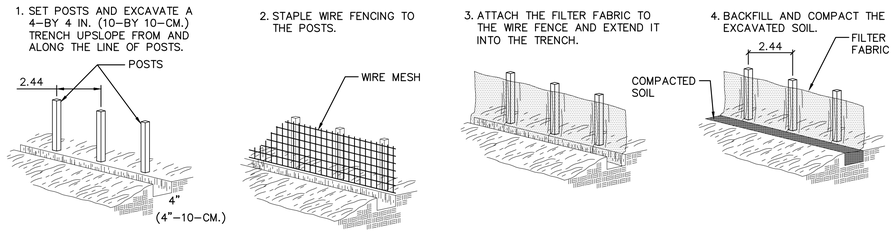
SHEET TITLE

LAYOUT PLAN
CALLE ARIOSTO
CRUZ

SHEET ID

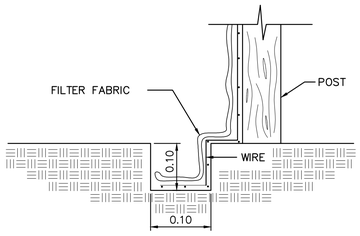
C490

8/29/2025 10:34:04 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C489-490.dwg



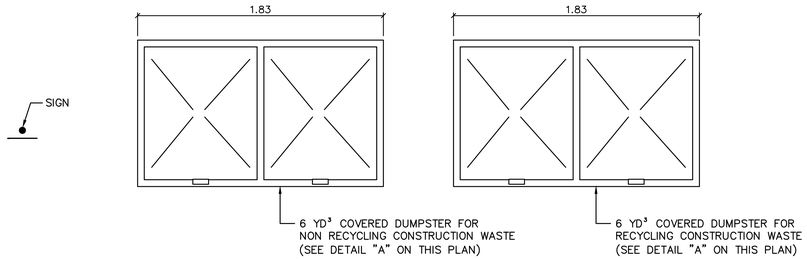
SILT FENCE INSTALLATION DETAILS

SCALE: NTS

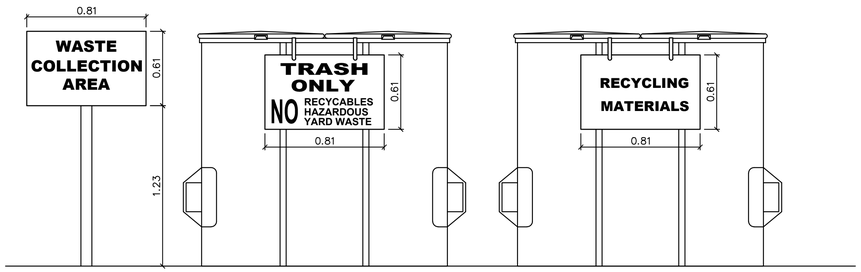


SILT FENCE CONSTRUCTION DETAILS

SCALE: NTS



PLAN VIEW



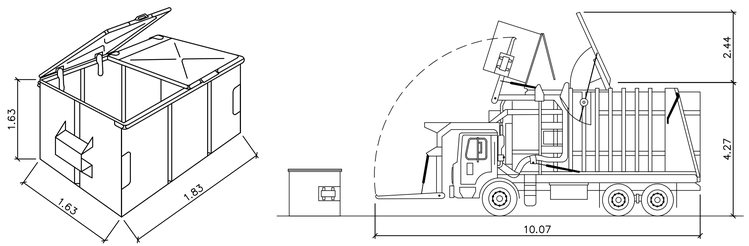
TRASH ONLY DUMPSTER SIGN SPECS

- 5/8" PAINTED BOARD
- 6" METAL HANGER
- RED LETTERS

RECYCLING MATERIALS

- 5/8" PAINTED BOARD
- 6" METAL HANGER
- RED LETTERS

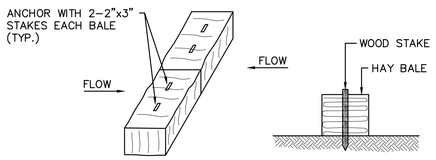
FRONT VIEW



DETAIL "A" DETAIL "B"

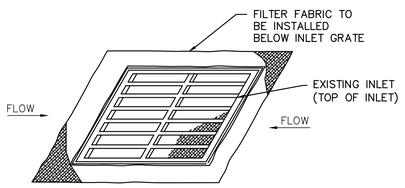
DUMPSTER AND RECYCLING AREA DETAILS

SCALE: NTS



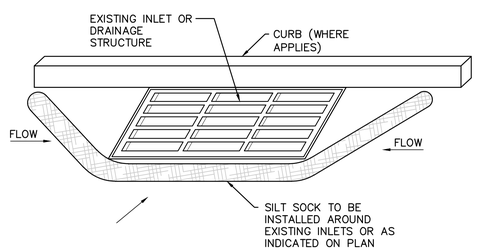
HAY BALE INSTALLATION DETAILS

SCALE: NTS



INLET PROTECTION DETAIL

SCALE: NTS

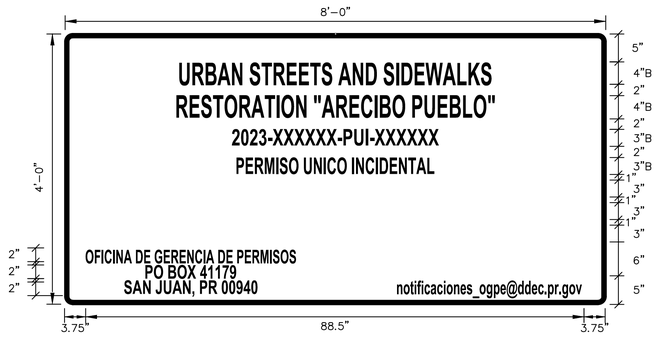


SILT SOCK ON INLET DETAIL

SCALE: NTS

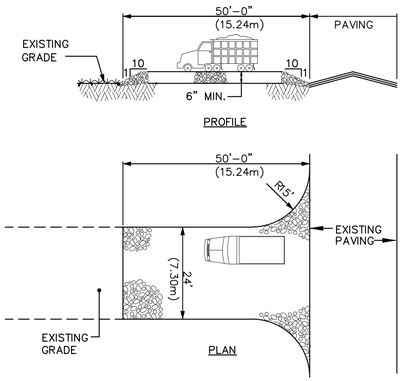
CES PLAN NOTES

1. THE CONTRACTOR SHALL PROTECT ALL CATCH BASINS, SWALES AND CHANNELS NEAR THE PROJECT AREA THAT COULD BE POTENTIALLY IMPACTED, PRIOR TO START ANY EXCAVATION. ALL MEASURES CAN BE REMOVED WHEN THE LOCAL CONSTRUCTION BE COMPLETED.
2. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES IN THE PROJECT AREAS THAT COULD BE POTENTIALLY IMPACTED PRIOR TO START ANY CONSTRUCTION ACTIVITIES IN THAT AREA. THE CONTRACTOR COULD REMOVE THE CONTROL MEASURES WHEN THE AREA IS FULLY STABILIZED AS DETERMINED BY THE CES PLAN INSPECTOR.
3. CONTRACTOR SHALL INSPECT SEDIMENT BARRIERS AFTER EACH RAIN EVENT.REPAIRS SHALL BE DONE AS SOON AS POSSIBLE.SEDIMENT SHALL BE REMOVED FROM THE BARRIERS WHEN THEY REACH HALF THE HEIGHT OF THE BARRIER.
4. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE STABILIZED CONSTRUCTION ENTRANCE AS DETAILED ON THIS PLAN.
5. THE CONTRACTOR SHALL MAINTAIN A WATER TANK TRUCK TO SPRAY IT AROUND THE WORKING AREAS WHEN NEEDED OR WHEN THE PROJECT INSPECTOR REQUIRES IT. A WATER HOSE WILL BE INSTALLED NEAR STABILIZED CONSTRUCTION ENTRANCE TO WASH THE CONSTRUCTION VEHICLES WHEELS.
6. THE CONTRACTOR SHALL STRICTLY FOLLOW THE GUIDELINES STATED AT THE CES PLAN APPROVED BY THE ENVIRONMENTAL QUALITY BOARD.
7. THE CONTRACTOR SHALL DISPOSE ALL WASTE MATERIALS AT AN APPROVED LANDFILL.
8. THE CONTRACTOR SHALL RESTORE PAVED AREAS AND RE–SEED GRASS AREAS AS SOON AS POSSIBLE OR AS INSTRUCTED BY THE PROJECT INSPECTOR.
9. ANY MODIFICATION PROPOSAL TO THE CES PLAN SHALL BE CONSULTED WITH THE DESIGNER IN ORDER TO AMEND THE APPROVED PLAN.
10. A SIGN SHALL BE INSTALLED AT EACH PROJECT ENTRANCE AS PER CONSOLIDATED GENERAL PERMIT CONDITION NUMBER 2.
11. CONTRACTOR CAN CHOOSE TO INSTALL DIFFERENT METHODS TO ACHIEVE THE REQUIRED PERFORMANCE.



PROJECT SIGN DETAIL

SCALE: NTS



NOTES:

1. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND EXIST. PAVEMENT.
2. STONE SIZE: USE AASHTO M–43 SIZE No. 2 STONE.

STABILIZED CONSTRUCTION ENTRANCE

SCALE: NTS

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	03/30/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

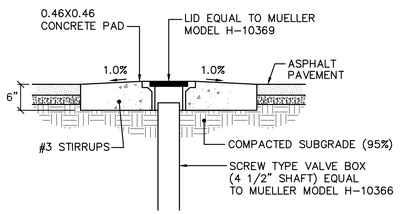
SHEET TITLE

EROSION AND SEDIMENTATION CONTROL DETAILS

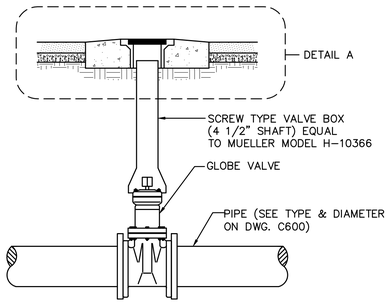
SHEET ID

C491

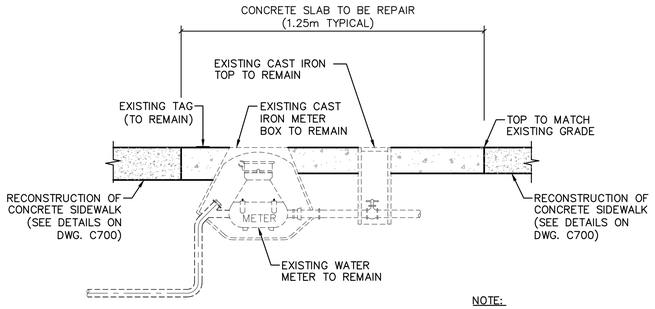
8/29/2025 10:34:25 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C491.dwg



DETAIL A



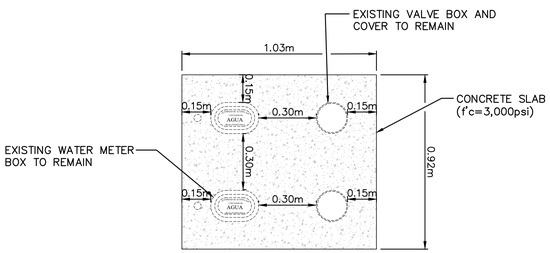
GATE VALVE DETAIL
SCALE: NTS



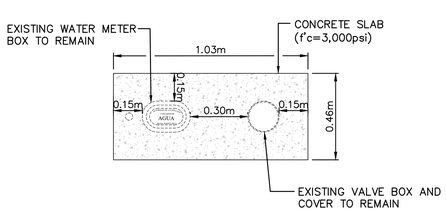
NOTE:

1. REPAIR OF EXISTING WATER METER CONCRETE SLAB APPLIES WHEN RECONSTRUCTION OF CONCRETE SIDEWALK AND WATER METER OCCURS (REFER TO DWGS. C200 TO C233 FOR SIDEWALK RECONSTRUCTION LOCATION).

TOP OF WATER METER REPAIR SECTION
SCALE: N.T.S.



WATER METER PLAN (2-METERS)



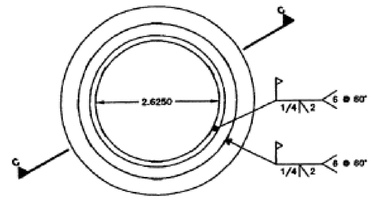
WATER METER PLAN (1-SINGLE METER)

NOTE:

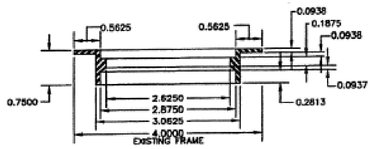
1. REPAIR OF EXISTING WATER METER CONCRETE SLAB APPLIES WHEN RECONSTRUCTION OF CONCRETE SIDEWALK AND EXISTING WATER METERS OCCURS (REFER TO DWGS. C200 TO C233 FOR SIDEWALK RECONSTRUCTION LOCATION).

TYPICAL TOP OF WATER WATER METER TYPICAL DETAILS
SCALE: N.T.S.

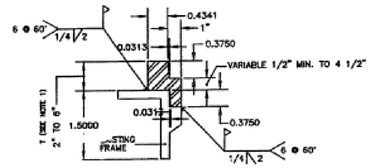
MANHOLE ADJUSTMENT FOR P.R.A.S.A. STANDARD



PLAN



SECTION C-C



I RING CASTING FROM 2" TO 6" ADJUSTMENT

NOTES:

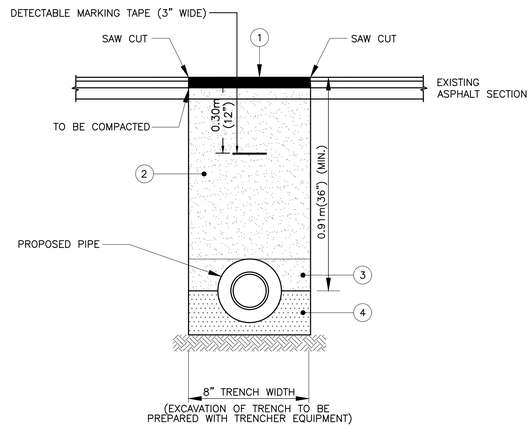
1. DIMENSION T SHALL RANGE FROM 2" MIN. TO 6" MAX. IN 1/2" INCREMENTS.
2. RINGS SHALL BE GRAY CAST IRON, AASHTO SPECIFICATION M-105, CLASS 30B.
3. WELDING SHALL COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE AMERICAN WELDING SOCIETY (AWS).

← ALL GRAY CAST IRON PRODUCTS USED IN THE "DR" SERIES OF THE STANDARD DRAWINGS MUST BE FROM APPROVED MANUFACTURERS AND THE APPROVED PRODUCTS IDENTIFIED BY PRODUCT NUMBER OR CATALOG NUMBER LISTED IN THE APPROVED LIST OF MANUFACTURERS AND PRODUCTS CONTAINED IN THE FIRST PAGE OF THE "DR" SERIES.

NOTE:

1. MANHOLE ADJUSTMENT APPLIES WHEN RECONSTRUCTION OF CONCRETE PAVEMENT OCCURS (REFER TO DWGS. C200 TO C233 FOR RECONSTRUCTION LOCATION).

TOP OF MANHOLE ADJUSTMENT TYPICAL DETAIL
SCALE: N.T.S.



LEGEND:

1. 0.15M HOT PLANT MIX BITUMINOUS CONCRETE PAVEMENT S(75(12) AS PER SPEC. 401 OF THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY (PRHTA) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. FILLING WILL BE WITH 3/4" COMERCIAL GRAVEL. THE GRAVEL MUST BE PLACED AND TAMPERED IN LAYERS NO EXCEEDING 0.45 (1'-6") IN LOOSE THICKNESS. NO BACKFILLING WILL BE ALLOWED.
3. WELL COMPACTED 3/4" DIAMETER DOWN OF CLEAN CRUSHED STONE OR BEDDING
4. BEDDING MATERIAL.

TYPICAL TRENCH DETAIL
SCALE: NTS

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	05/03/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	22023

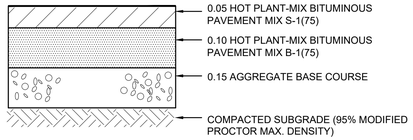
SHEET TITLE

PRASA UTILITIES DETAILS

SHEET ID

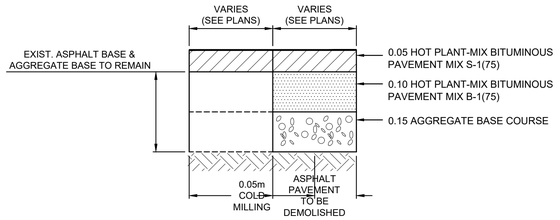
C640

8/29/2025 10:34:30 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C640.dwg



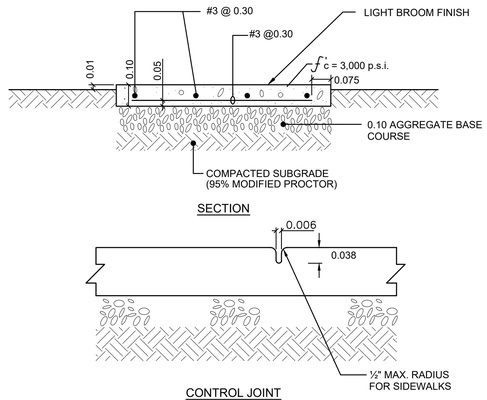
NEW ASPHALT PAVEMENT FOR ROADWAY DETAIL

SCALE: NTS

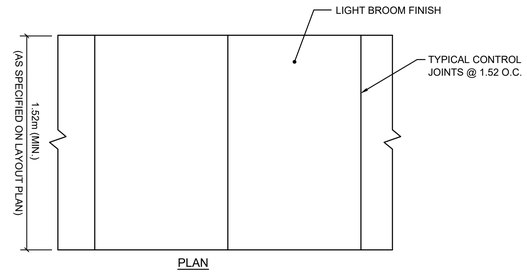


ASPHALT PAVEMENT RECONSTRUCTION DETAIL

SCALE: NTS



CONTROL JOINT

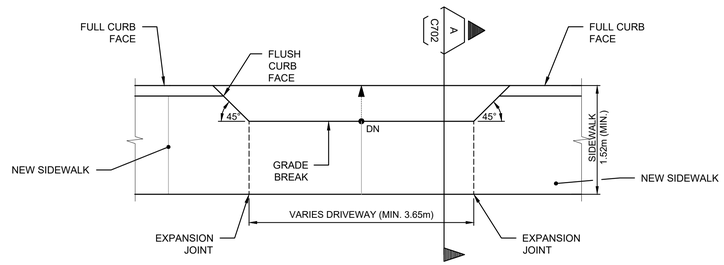


NOTE:

1. WHERE SIDEWALK ABUTS EXISTING OR PROPOSED FIXED OBJECTS (CURBS, CURB AND GUTTERS, CONCRETE PAVING, MANHOLES, OR BUILDINGS), INSTALL 12.7MM EXPANSION JOINT FILLER AND JOINT SEALANT.

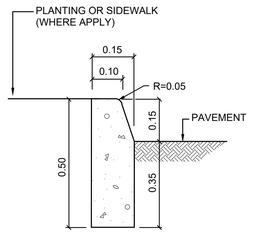
CONCRETE SIDEWALK DETAIL

SCALE: NTS



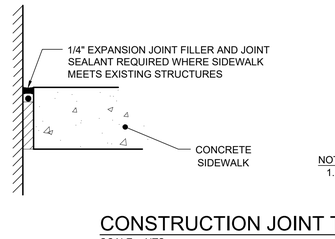
TYPICAL CURB CUT DRIVEWAY DETAIL 1

SCALE: N.T.S.



CONCRETE CURB DETAIL

SCALE: NTS

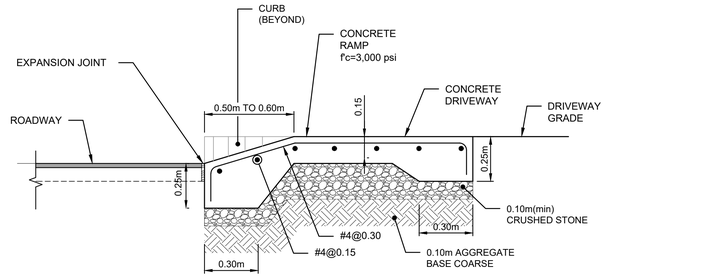


NOTE:

1. WHERE PROPOSED SIDEWALK ABUTS EXISTING SIDEWALKS INSTALL A 1/4" CONSTRUCTION JOINT WITH FILLER AND JOINT SEALANT.

CONSTRUCTION JOINT TYPICAL DETAILS

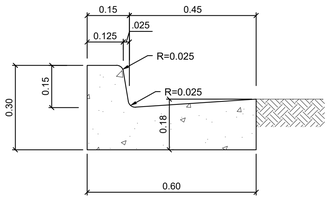
SCALE: NTS



* NOTE:
1. TYPICAL DETAIL FOR ALL DRIVEWAYS AND VEHICULAR ENTRANCES WITHIN THE PROJECT LIMIT, UNLESS OTHERWISE NOTED.

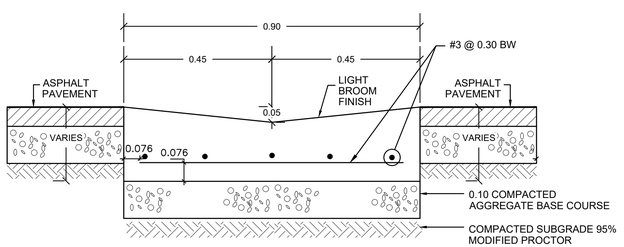
SECTION A / C702

SCALE: NTS



TYPICAL CURB AND GUTTER DETAIL

SCALE: NTS



CONCRETE GUTTER DETAILS

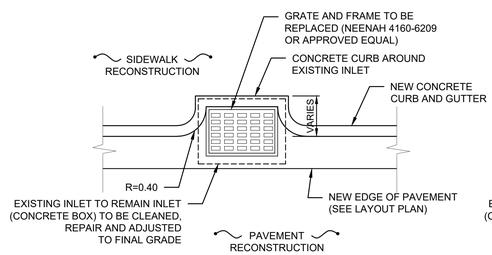
SCALE: NTS

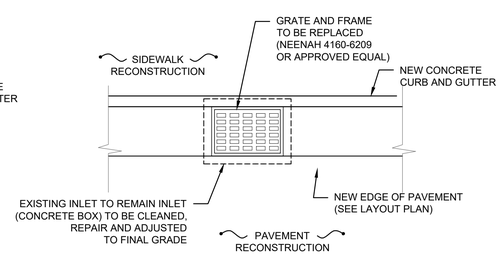
REMOVE AND REPLACEMENT OF EXISTING CATCH BASIN DETAILS

SCALE: NTS

NOTES:

1. DETAILS APPLIES FOR EXISTING CATCH BASINS ON JOSE DE DIEGO AVENUE.
2. SEE TABLE OF STRUCTURES FOR CATCH BASINS TOP ELEVATIONS AND INVERT ELEVATIONS.





REPAIR AND ADJUSTMENT OF EXISTING INLET DETAILS

SCALE: NTS

NOTES:
1. CLEANING AND REPAIRS OF EXISTING INLET AS PER SPECIFICATION SPEC 632 - CLEANING AND REPAIR OF EXISTING CULVERTS AND STORM SEWERS.
2. CLEANING OF EXISTING STORM SEWER PIPES WITHIN THE PROJECT LIMITS SHOULD BE INCLUDED (REFER TO SPEC 632).

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUES). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

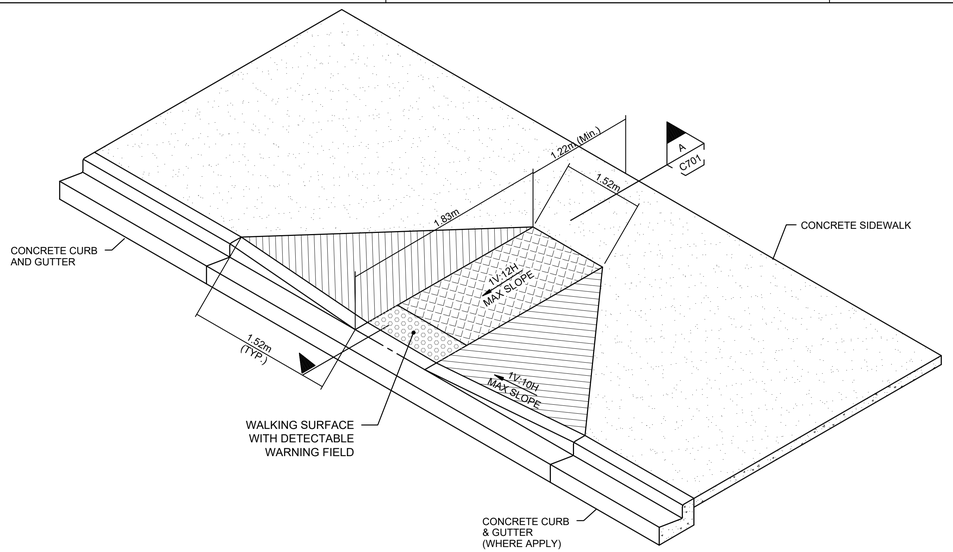
SHEET TITLE

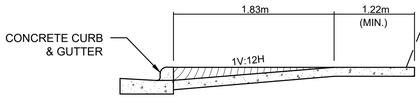
TYPICAL SECTIONS AND DETAILS

SHEET ID

C700

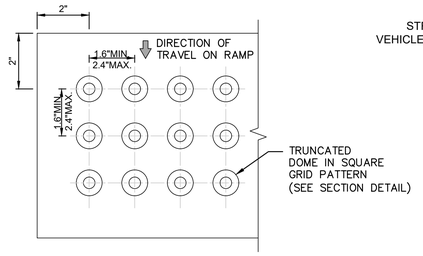
8/29/2025 10:34:36 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C700-01-02-03-04.dwg



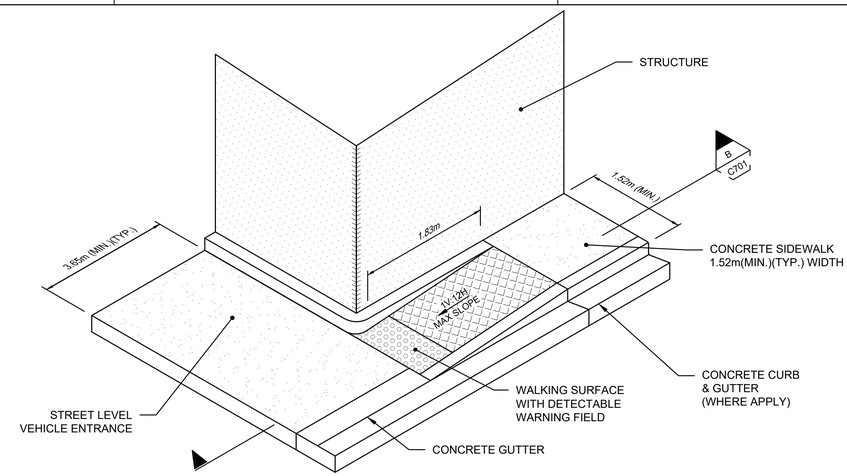


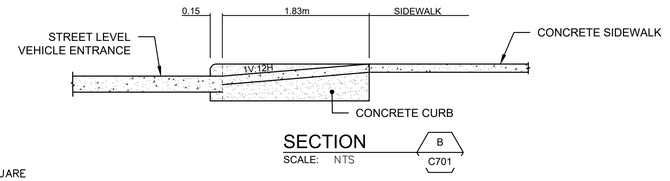
SECTION A C701
SCALE: NTS

HANDICAPPED RAMP DETAIL (TYPE 1)
SCALE: N.T.S.



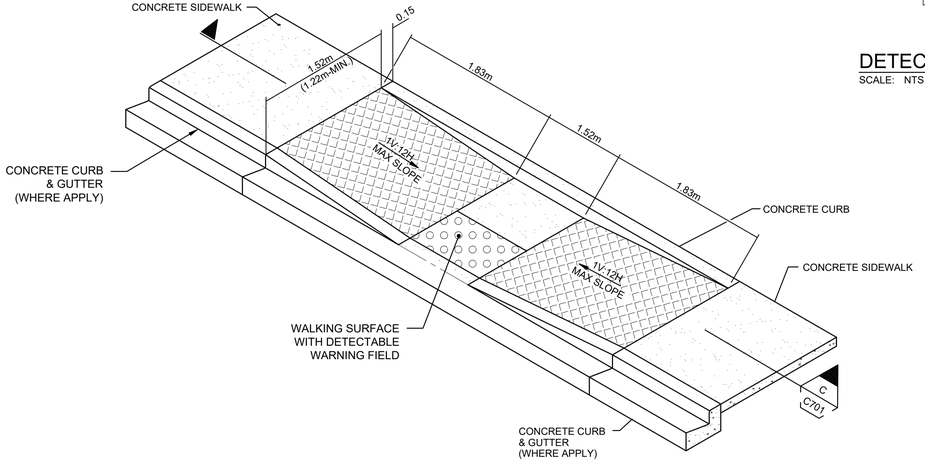
DETECTABLE WARNING FIELD DETAIL
SCALE: NTS

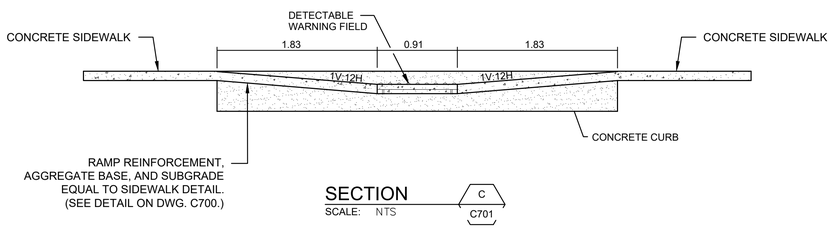




SECTION B C701
SCALE: NTS

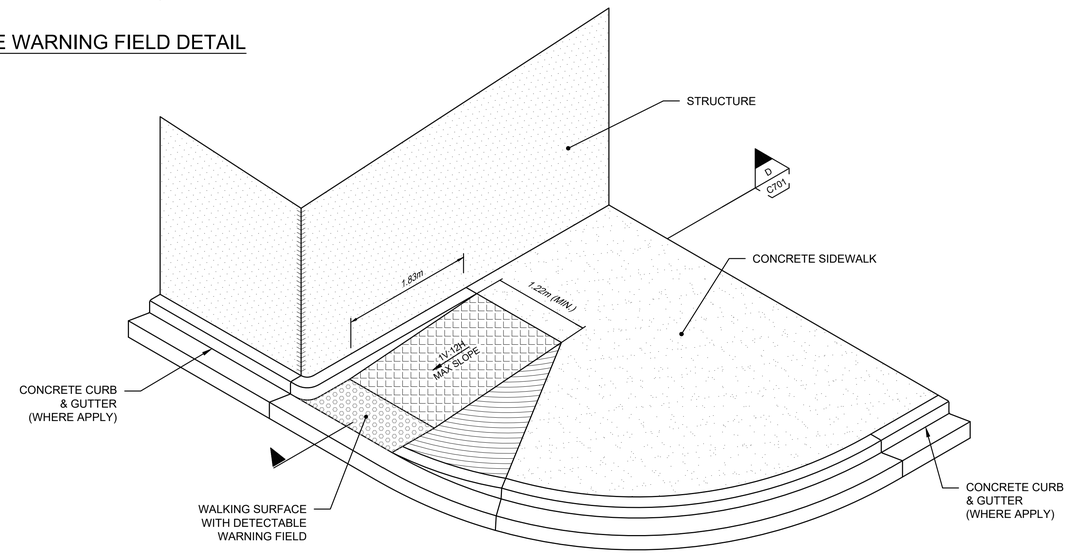
HANDICAPPED RAMP DETAIL (TYPE 2)
SCALE: N.T.S.

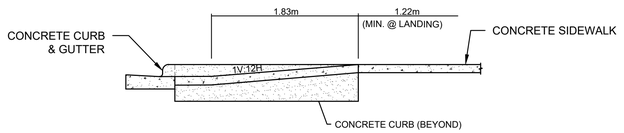




SECTION C C701
SCALE: NTS

HANDICAPPED RAMP DETAIL (TYPE 3)
SCALE: N.T.S.





SECTION D C701
SCALE: NTS

HANDICAPPED RAMP DETAIL (TYPE 4)
SCALE: N.T.S.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OSPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

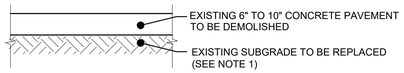
SHEET TITLE

TYPICAL SECTIONS
AND DETAILS

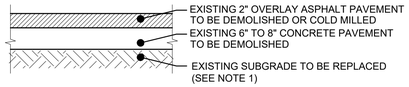
SHEET ID

C701

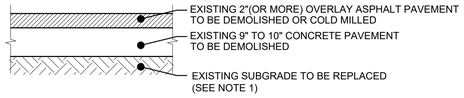
8/29/2025 10:34:37 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C700-01-02-03-04.dwg



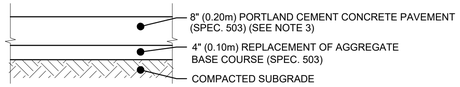
CASE 1-DEMOLITION DETAIL
SCALE: NTS



CASE 2-DEMOLITION DETAIL
SCALE: NTS



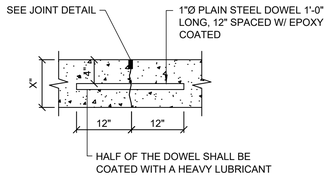
CASE 3-DEMOLITION DETAIL
SCALE: NTS



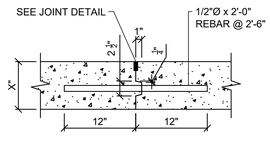
RECONSTRUCTION OF CONCRETE PAVEMENT DETAILS
SCALE: NTS

CONC. PAVEMENT DEMOLITION AND RECONSTRUCTION NOTES:

1. THE EXISTING SUBGRADE SHOULD BE REMOVED AND REPLACED WITH A NEW LAYER OF AGGREGATE BASE COURSE AS SHOWN ON DETAILS. THE SUBGRADE SHOULD BE REMOVED TO SUCH DEPTH THAT THE NEW PCC CONCRETE AND NEW AGGREGATE BASE COURSE MAINTAIN THE EXISTING FINISHED GRADE AND SLOPES OF THE EXISTING PAVEMENT.
2. THE GRADING OF NEW AGGREGATE BASE COURSES SHALL BE CLASS A ACCORDING TO SPEC. 703.
3. THE NEW PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE NORMAL SET CONCRETE (SPEC 503) EXCEPT THAT THE MINIMUM COMPRESSIVE STRENGTH AT 7 DAYS SHALL BE 3,000 PSI.
4. THE ENGINEER WILL DECIDE WHEN THE PAVEMENT WILL BE OPENED TO TRAFFIC. THE PAVEMENT WILL NOT BE OPENED TO TRAFFIC UNTIL TEST SPECIMENS HAVE ATTAINED A COMPRESSIVE STRENGTH OF 3,000 PSI, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

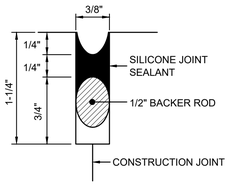


TRANSVERSE CONTRACTION JOINT



LONGITUDINAL CONTRACTION JOINT

CONCRETE PAVEMENT JOINT DETAILS
SCALE: NTS



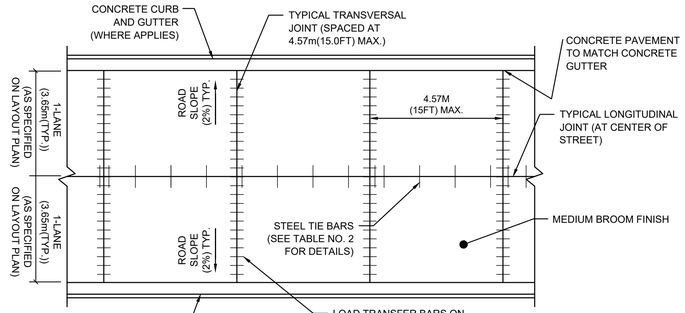
JOINT DETAIL
SCALE: NTS

STEEL DOWEL (EPOXY COATED, PLAIN, OR DEFORMED) AND DEPTH OF JOIN SAW				
PAVEMENT THICKNESS (METERS)	DOWEL BAR DIAMETER (INCHES)	DOWEL LENGTH (METERS)	DOWEL SPACING (METERS)	DEPTH OF JOINT SAW CUT (METERS)
0.200	1-3/8"	0.450	0.305	0.07
0.250	1-1/2"	0.450	0.305	0.08
0.350	1-5/8"	0.450	0.305	0.10

TABLE NO. 1: STEEL DOWELS
SCALE: NTS

TIE BARS (EPOXY COATED, DEFORMED)						
TYPE AND GRADE OF STEEL	WORKING STRESS (PSI)	EXISTING PAVEMENT THICKNESS	NO. 5 BARS			
			MINIMUM OVERALL LENGTH (INCHES)	LANE WIDTH (METERS)		
				3.05	3.35	3.65
				MAXIMUM SPACING (INCHES)		
GRADE 60 BILLET STEEL	30,000	0.20	30	48	48	48
	30,000	0.25	30	48	48	48
	30,000	0.35	30	48	48	40

TABLE NO. 2: TIE BARS
SCALE: NTS

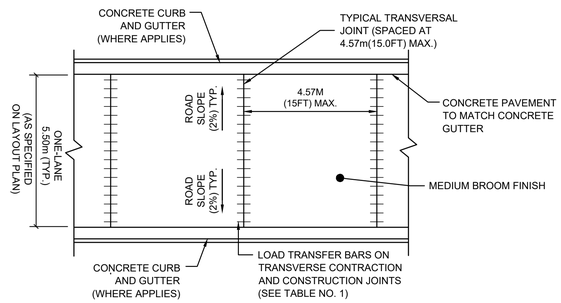


CONCRETE PAVEMENT REHABILITATION (TWO-LANES STREET)- PLAN
- FOR TWO OR MORE CONTINUOS SLABS TO BE REPLACED

SCALE: NTS

NOTES:

1. PROVIDE ROAD SLOPE PERCENT SIMILAR TO EXISTING TO MATCH EXISTING GRADE.
2. LOAD TRANSFER BARS PLACED ALONG THE TRANSVERSAL JOINTS BETWEEN EXISTING SLABS AND NEW SLABS SHALL BE PLAIN.
3. STEEL TIE BARS PLACED ALONG THE LONGITUDINAL JOINTS SHALL BE EPOXY COATED AND DEFORMED.
4. PLAIN DOWELS WILL BE LUBRICATED WITH OIL. GREASE WILL NOT BE ALLOWED.
5. DOWEL INSTALLATION IS SUBSIDIARY OF SPEC. 503



CONCRETE PAVEMENT REHABILITATION (ONE-LANE STREET)- PLAN
- FOR TWO OR MORE CONTINUOS SLABS TO BE REPLACED

SCALE: NTS

OWNER
Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT
BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

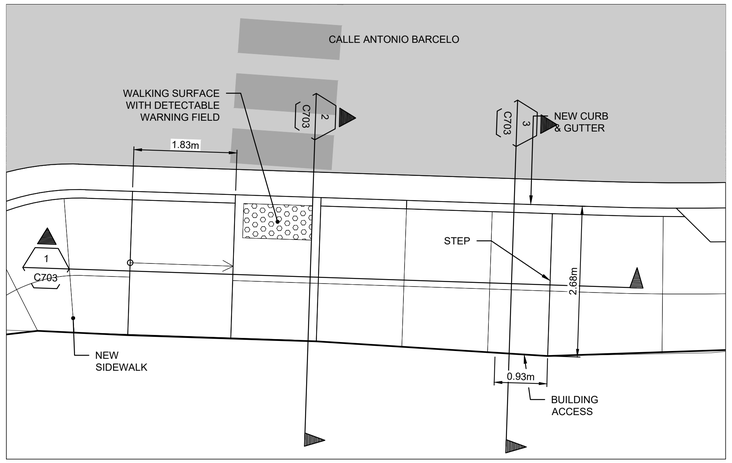
SHEET TITLE

TYPICAL SECTIONS AND DETAILS

SHEET ID

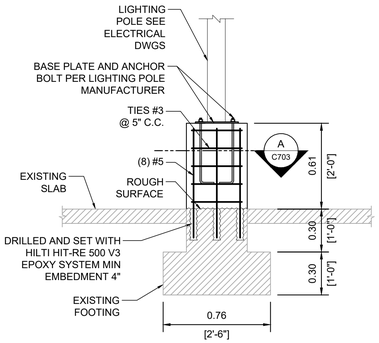
C702

8/29/2025 10:34:39 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C700-01-02-03-04.dwg



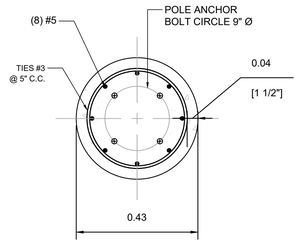
DETAIL No. 1

SCALE: 1:50



TYPICAL LIGHTING POLE FOOTING DETAIL

SCALE: 1:20



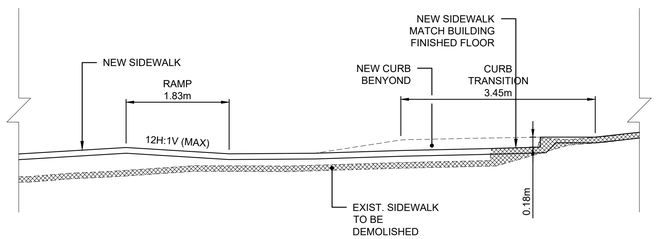
SECTION

SCALE: 1:10

A C703

NOTES:

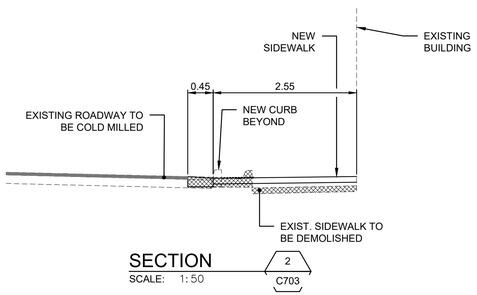
1. REFER TO ELECTRICAL PLANS FOR NEW SOLAR LIGHTING SYSTEM ON JOSE DE DIEGO AVENUE.
2. EXISTING LIGHTING POLES WITHIN THE JOSE DE DIEGO AVENUE SHALL BE REMOVED AND DISPOSED AS REQUIRED BY THE MUNICIPALITY. CONCRETE BASE (FOOTING) TO REMAIN. CONTRACTOR SHALL REMOVE EXISTING POLES WITH PRECAUTION TO AVOID DAMAGES TO THE EXISTING BASE.
3. REFER TO DETAIL INCLUDED ON THIS PLAN FOR INSTALLATION OF NEW SOLAR POLE ON EXISTING CONCRETE BASE.
4. PRIOR TO COMMENCE ANY DEMOLITION WORKS, CONTRACTOR SHALL VERIFY THE CONDITIONS OF THE CONCRETE BASE. ANY DIFFERENCE OR DAMAGE BASE SHALL BE INFORMED TO THE PROJECT OWNER OR PROJECT ENGINEER TO EVALUATE AND PROVIDE ALTERNATIVES.



SECTION

SCALE: 1:50

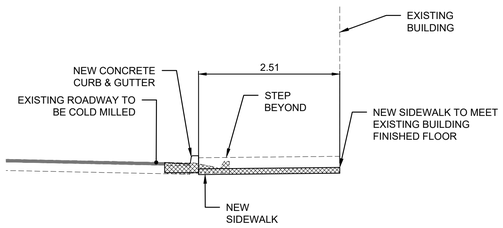
1 C703



SECTION

SCALE: 1:50

2 C703



SECTION

SCALE: 1:50

3 C703

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUES). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

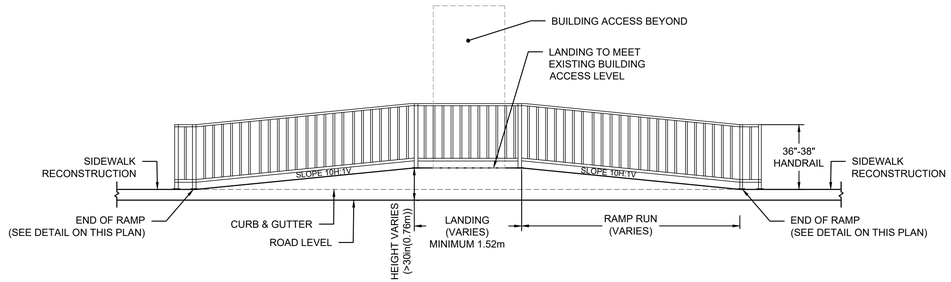
SHEET TITLE

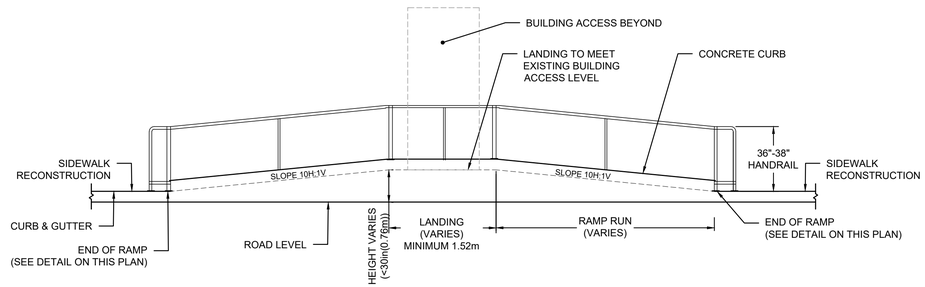
TYPICAL SECTIONS AND DETAILS

SHEET ID

C703

8/29/2025 10:34:41 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C700-01-02-03-04.dwg





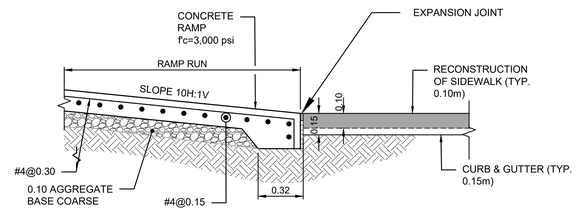
NOTE:
1. GENERAL CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO FABRICATE AND INSTALLATION

RAMP RUN DISTANCES FOR 10H:1V SLOPE	
VERTICAL CHANGE (m)	RAMP RUN LENGTH (m)
0.1016	1.016
0.1270	1.270
0.1524	1.524
0.1778	1.778
0.2032	2.032
0.2286	2.286
0.2540	2.540
0.2794	2.794
0.3048	3.048

HANDRAIL SECTION FOR UNEVEN BUILDING ACCESS SEGMENTS

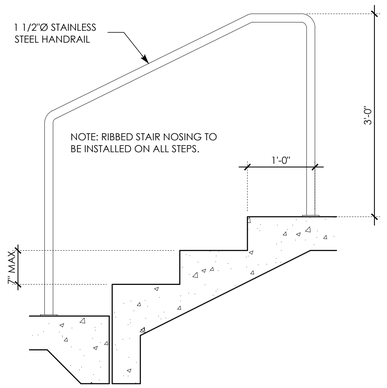
SCALE: NTS

(REFER TO DWG. C200 - C209 FOR LOCATION)

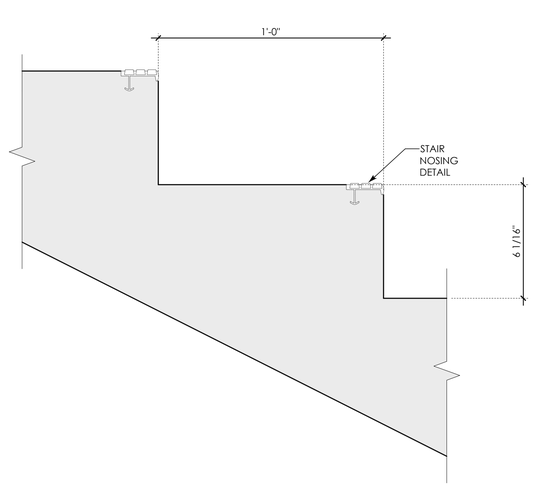


END OF RAMP DETAIL

SCALE: NTS

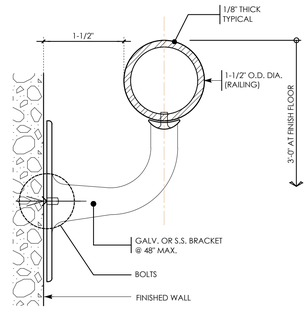


RAILING INSTALLATION DETAIL

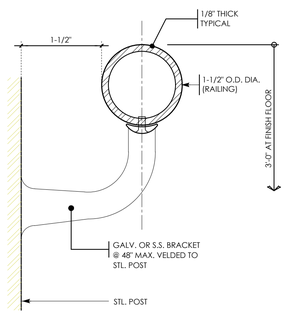


STEPS DETAIL

SCALE: N.T.S.



ATTACHED TO CONC. OR CMU WALL

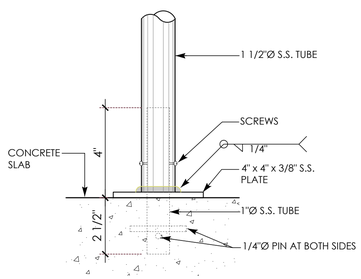


ATTACHED TO STEEL POST

NOTES :
1. DETAILS WHEN APPLICABLE.
2. STAINLESS STEEL (S.S.) AT STAIR AND RAMPS

HANDRAIL SUPPORT BRACKET

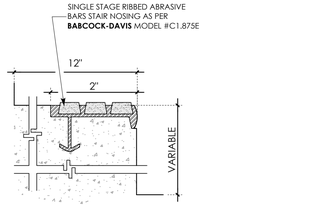
SCALE: N.T.S.

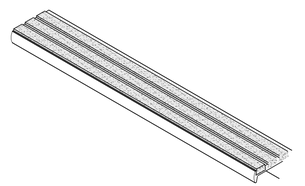


RAILING BASE DETAIL

NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS AS THEY MAY AFFECT CARRYING OUT THE WORK AS OF THE PROJECT, AND NOTIFY THE ARCHITECT OF ANY CONDITIONS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, AND SERVICES NECESSARY TO COMPLETE THE WORK.
3. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE BUILDING CODES AS NOTES ON CODE SHEETS.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITY LINES. LOCATIONS SHOWN ARE APPROXIMATE. REPAIR ALL DAMAGE TO UTILITY LINES CAUSED BY CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
5. PROVIDE SEALANT ALL JOINTS OR CRACKS THAT OCCUR WHERE DISSIMILAR MATERIALS INTERSECT PERPENDICULAR TO EACH OTHER, AND THE INTERSECTION IS EXPOSED TO VIEW, UNLESS INDICATED
6. ALL PENETRATIONS AT SMOKE AND FIRE RATED WALLS, FLOORS, OR CEILINGS, SHALL BE PROTECTED, SEALED OR DAMPERED USING ONLY UL. AND/OR I.C.B.O. APPROVED METHODS, MATERIALS, AND
7. THE CONTRACTOR IS RESPONSIBLE FOR THE REVIEW OF DIMENSIONS OF CONSTRUCTION DRAWINGS. ANY ERROR IDENTIFIED SHALL BE THE CONTRACTOR'S IMPERATIVE TO CORRECT PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL WATER PRESSURE CLEAN THE ROOF CONCRETE SLAB AND INSTALL LOW GLOSS SILICONE ROOF COATING, AS PER MANUFACTURERS INSTRUCTIONS.





STAIR NOSING DETAIL

SCALE: N.T.S.

OWNER
Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT
BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

SHEET TITLE

TYPICAL SECTIONS AND DETAILS

SHEET ID

C704

8/29/2025 10:34:51 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C700-01-02-03-04.dwg

GENERAL NOTES:

1. NO WORK OTHER THAN MOBILIZATION, TRAFFIC CONTROL AND PROJECT OFFICE, SHALL BE PERFORMED UNTIL THE PROGRESS SCHEDULE IS APPROVED BY THE ENGINEER.

2. ALL TEMPORARY CONTROL DEVICES SHALL COMPLY WITH THE SUPPLEMENTAL SPECIFICATION NUMBER 638-"MAINTENANCE AND PROTECTION OF TRAFFIC" OF THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2005 EDITION, AND WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES "MUTCD" 2009 (LATEST REVISED).

3. EQUIPMENT, MATERIALS AND OTHER DEVICES USED FOR CONSTRUCTION SHALL BE REMOVED FROM THE ROADWAY AFTER WORK HOURS AND SHALL BE STAGED A MINIMUM OF 10 METERS FROM THE TRAVEL WAY.

4. THE DRUM SPACING SHALL BE 2.50METERS. AN ALTERNATIVE FOR DRUMS IN NARROW STREET SEGMENTS, CONTRACTOR CAN USE ORANGE CONES, 28-IN HEIGHT MINIMUM AS PER MUTCD 2009, SECTION 6F-64.

5. ANY ALTERATION TO THE SCHEDULE THAT MAY IMPROVE TRAFFIC OPERATIONS WITHIN THE CONSTRUCTION AREA, IN ACCORDANCE WITH THE CURRENT MUTCD (2009) AND WITH NO ADDITIONAL COST TO THE AUTHORITY, SHALL BE SUBMITTED TO THE ENGINEER AT LEAST TWENTY ONE(21) CALENDAR DAYS IN ADVANCE TO THE PROPOSED DATE OF IMPLEMENTATION FOR REVIEW. IF THE PROPOSED ALTERATION IS APPROVED IT SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER.

6. THE CONTRACTOR CAN PERFORM, WITH THE APPROVAL OF THE ENGINEER, SEVERAL SIMULTANEOUS ACTIVITIES WITHIN A STAGE, AND AS PERMITTED BY THE CONTRACT PROPOSAL QUANTITIES ON THE TRAFFIC CONTROL ITEMS.

7. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER THE INSTALLATION OF TEMPORARY TRAFFIC CONTROL DEVICES FOR EACH PHASE AT LEAST FOURTEEN (14) CALENDAR DAYS IN ADVANCE FOR THE RELEASE OF PUBLIC NOTICE. THE CONTRACTOR SHALL NOT COMMENCE ANY OF THE CONSTRUCTION PHASES WITHOUT A PUBLIC NOTICE IS ISSUED OR WITHOUT DIRECT CONSENT FROM THE ENGINEER.

8. THE CONSTRUCTION SIGNS INSTALLATION SHOULD BE IN ACCORDANCE TO THE TEMPORARY TRAFFIC SIGNS MOUNTING DETAILS, SHEET NO. MPT-23 OF THE PRHTA STANDARD DRAWING REV. JUNE 2012.

9. THE CONTRACTOR SHALL FURNISH TEMPORARY TRAFFIC CONTROL DEVICES THAT MEET THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM REPORT (NCHRP) 350 CRITERIA FOR THE APPLICABLE CRASH WORTHINESS STANDARD.

10. ALL TRAFFIC CONTROL SIGNS DETERMINED BY THE ENGINEER TO BE UNNECESSARY FOR THE APPLICABLE CONSTRUCTION OPERATION SHALL BE IMMEDIATELY COVERED IN ITS ENTIRETY WITH NON ABRASIVE MATERIAL AND SHALL BE INSPECTED DURING DAY AND NIGHT TIME TO ENSURE THAT THE SIGN IS NOT READABLE. THIS WORK IS A SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.

11. DURING THE CONSTRUCTION OPERATIONS, THE CONTRATOR SHALL TAKE ALL THE NECESSARY PRECAUTIONS AND MEASURES TO AVOID FALLING DEBRIS, TOOLS, EQUIPMENT OR ANY OTHER MATERIALS INTERFERE OR IMPACT THE MOTORING PUBLIC IN THE ROADWAY. ALL THE MATERIALS, LABOR EQUIPMENT, AND WORK NECESSARY FOR IMPLEMENTING THIS REQUIREMENT IS SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.

12. THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO ADJACENT PROPERTIES DURING CONSTRUCTION. THIS WORK WILL REQUIRE COORDINATION WITH BUSINESSES AND PRIVATE OWNERS. ALL THE MATERIALS, LABOR, EQUIPMENT, AND WORK NECESSARY FOR IMPLEMENTING THIS REQUIREMENT IS SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.

13. NO EXCAVATION AND/OR PAVEMENT DROP-OFF SHALL REMAIN OPEN WITHIN THE TRAVELED WAY WHEN THE CONTRACTOR OR ITS PERSONNEL IS NOT WORKING AND PHYSICALLY PRESENT AT THE WORK SITE.

14. IN CASE THAT THE WORKS AFFECTED THE EXISTING LUMINARY THE CONRACTOR SHALL PROVIDE ADEQUATE ILLUMINATION IN THE AFFECTED AREA BUT THE GLARE OF THE SAME NO AFFECT THE VISIBILITY OF THE DRIVERS.

15. THE CONTRACTOR SHALL RETURN ALL AREAS DISTURBED BY TEMPORARY DETOURS TO THEIR ORIGINAL STATE.

15. RELOCATE ALL UTILITIES PRIOR TO THE PERFORMANCE OF ANY CONSTRUCTION PHASE. THIS ACTIVITY SHALL BE CLOSELY COORDINATED WITH THE CORRESPONDING UTILITY AGENCIES AND DTOP REGIONAL OFFICE SO AS TO PERMIT THE CONSTRUCTION AS SCHEDULED.

16. ALL TRENCH EXCAVATIONS MUST BE BACKFILLED THE SAME DAY BY THE END OF THE WORKSHIFT. IF NOT, THE TRENCH SHALL BE COVERED WITH A SUITABLE STEEL PLATE.

17. ALL TRAFFIC CONTROL DEVICES SHALL BE CLEANED, REPAINTED, REFLECTORIZED OR REPLACED AS NECESSARY TO PROVIDE ADEQUATE VISIBILITY AND LEGIBILITY AT ALL TIMES.

18. THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY IT DOES RESERVES THE RIGHT TO STOP THE WORKS AT ANY TIME IF THE CONTRACTOR DO NOT COMPLY WITH THE MAINTENANCE OF TRAFFIC AND THE SAFETY REGULATIONS.

CONSTRUCTION SCHEDULE

THE FOLLOWING CONSTRUCTION SCHEDULE AND SPECIAL INSTRUCTIONS SHALL BE FOLLOWED, IN ORDER TO MAINTAIN TRAFFIC FLOW WITH "THE LEAST POSSIBLE INTERFERENCE FROM CONSTRUCTION OPERATIONS".

TYPICAL APPLICATIONS ARE SUBMITTED FOR THE TEMPORARY TRAFFIC CONTROL ACTIVITIES FOR A VARIETY OF SITUATIONS COMMONLY ENCOUNTERED. IT IS REQUIRED FROM THE ENGINEER TO ADJUST THESE GUIDELINES TO FIELD CONDITIONS.

SPECIFIC SITUATIONS NOT COVERED BY THESE APPLICATIONS SHALL BE BROUGHT UP TO THE ENGINEER FOR APPROPIATE DIRECTION AND CLARIFICATION 10 DAYS BEFORE THE BEGINNING OF THE CONSTRUCTION WORK IN THAT AREA.

CONSTRUCTION:

1. IMPLEMENT THE WORK ZONE TEMPORARY TRAFFIC CONTROL IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC INDICATED ON THE PLANS

2. THE DETAILS SHOWN SHALL BE USED IN BOTH DIRECTIONS.

TRAFFIC:

1. THE TRAFFIC WILL BE FLOWING AS INDICATED ON THE MAINTENANCE OF TRAFFIC USED FOR THE CONSTRUCTION AREA.

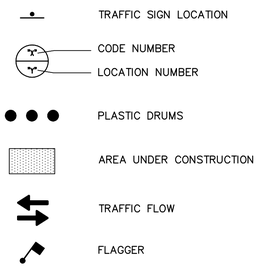
2. ALL WORK TO BE PERFORMED SHALL BE COORDINATED WITH THE TRAFFIC ENGINEERING OFFICE PERSONNEL.

3. NO WORK SHALL BE ALLOWED DURING PEAK HOURS. THE PEAK HOURS ARE DEFINED AS 6:00 AM - 9:00 AM AND 3:00 PM - 6:00 PM FROM MONDAY TO FRIDAY.

4. ALL ACTIVITIES PROPOSED FOR THE PROJECT THAT AFFECT THE NORMAL FLOW OF TRAFFIC, SHALL BE COORDINATED WITH ALL PROJECTS THAT ARE WITHIN A COVERAGE RADIUS OF TWO MILES OF THE WAY SO THAT THEY DO NOT AFFECT EACH OTHER.

5. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER THE ACCESS POINTS FOR CONSTRUCTION VEHICLES. INSTALL SIGN W8-6 (TRUCK CROSSING - 36" X 36") TO ALERT ROAD USERS OF LOCATIONS WHERE UNEXPECTED TRAVEL BY CONSTRUCTION VEHICLES MIGHT OCCUR.

LEGEND:



DISTANCE BETWEEN SIGNS

ROAD	A	B	C
PR-979	100FT (30m)	100FT (30m)	100FT (30m)
MUNICIPAL ROAD	100FT (30m)	100FT (30m)	100FT (30m)

DISTANCE FOR TEMPORARY TRAFFIC CONTROL ZONE (mts)

SPEED LIMIT	TAPER	BUFFER	TERMINATION AREA
25MPH	50FT (15m)	115FT (35m)	50FT (15m)

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	08/05/22
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	22010

SHEET TITLE

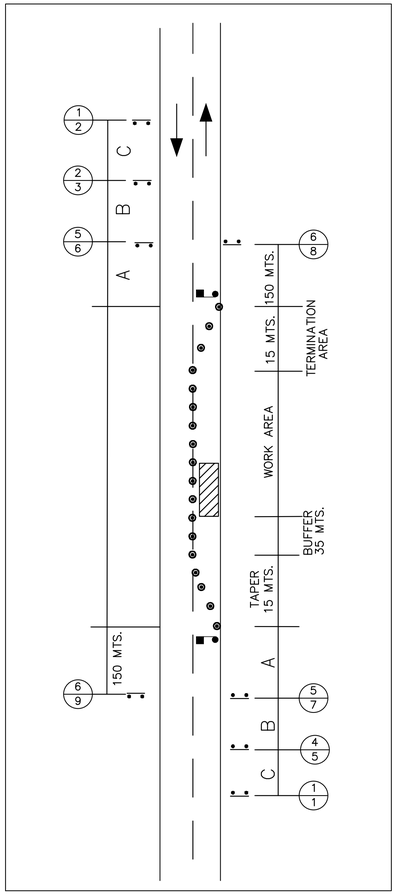
MAINTENANCE OF TRAFFIC GENERAL NOTES

SHEET ID

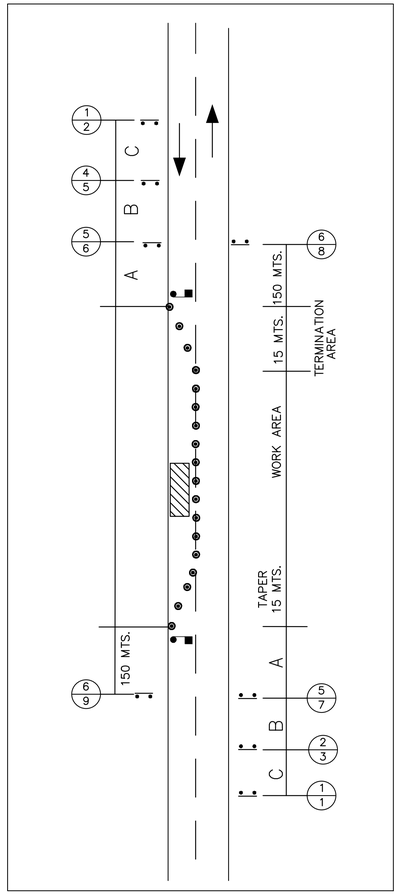
MOT1

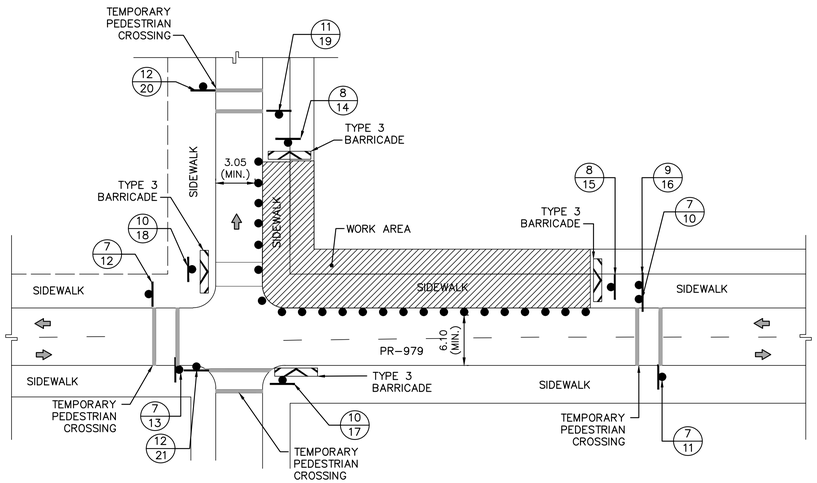
8/29/2025 10:34:55 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\MOT1.dwg

TYPICAL APPLICATION I
RIGHT LANE CLOSURE



TYPICAL APPLICATION II
LEFT LANE CLOSURE





CROSSWALK CLOSURES AND
PEDESTRIAN DETOUR (TYP.)

LEGEND:

- TRAFFIC SIGN LOCATION
- CODE NUMBER
- LOCATION NUMBER
- PLASTIC DRUMS
- AREA UNDER CONSTRUCTION
- TRAFFIC DIRECTION
- FLAGGER
- TYPE 3 BARRICADE

NOTES:

1. FOR MAINTENANCE OF TRAFFIC NOTES & LEGEND REFER TO MOT–1.
2. MAINTENANCE OF TRAFFIC APPLICATIONS SHALL COMPLY WITH MUTCD 2009 MANUAL.
3. REFER TO DWG. MOT–3 FOR CONSTRUCTION SIGNS TABLE.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	08/05/22
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	22010

SHEET TITLE

MAINTENANCE OF TRAFFIC TYPICAL APPLICATIONS

SHEET ID

MOT2

8/29/2025 10:35:00 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\MOT2.dwg

CONSTRUCTION SIGNS:

CODE No.	LOCATION No.	SIGN CODE	L E G E N D	SIZE OF SIGN PANELS	STRUCTURE TYPE	REFERENCE MANUAL	TOTAL ITEM
1	1,2	W20-1		36" X 36"	N/A	SEE D.T.P.W. MANUAL 2020	2
2	3	W20-5 (I)		36" X 36"	N/A	SEE D.T.P.W. MANUAL 2020	1
3	4	W20-5 (D)		36" X 36"	N/A	SEE D.T.P.W. MANUAL 2020	1
4	5	W20-4		36" X 36"	N/A	SEE D.T.P.W. MANUAL 2020	1
5	6,7	W20-T (A)		36" X 36"	N/A	SEE D.T.P.W. MANUAL 2020	2
6	8,9	G20-2		40" X 16"	N/A	SEE D.T.P.W. MANUAL 2020	2
7	10, 11, 12, 13	W11-2 W16-7P(I)		30"X30" 24"X12"	N/A	SEE MUTCD 2009	4
8	14, 15	R9-9		24" X 18"	N/A	SEE MUTCD 2009 & GUIDE SIGN DETAIL	2
9	16	R9-11(I)		36" X 30"	N/A	SEE MUTCD 2009 & GUIDE SIGN DETAIL	1
10	17, 18	R9-10		42" X 24"	N/A	SEE MUTCD 2009 & GUIDE SIGN DETAIL	2
11	19	R9-11(D)		36" X 30"	N/A	SEE MUTCD 2009 & GUIDE SIGN DETAIL	1
12	20, 21	W11-3 W16-7P(D)		30"X30" 24"X12"	N/A	SEE MUTCD 2009	2

NOTES:

1. FOR MAINTENANCE OF TRAFFIC NOTES & LEGEND REFER TO DWG. MOT/1
2. MAINTENANCE OF TRAFFIC APPLICATIONS MUST COMPLY WITH MUTCD 2009 MANUAL.
3. SIGNS MUST COMPLY WITH DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS' "MANUAL DE ROTULACION PARA LAS VIAS PUBLICA DE PUERTO RICO" 2020 & MUTCD 2009 MANUAL.
4. FOR GUIDE SIGN DETAIL SEE DWG. MOT-4

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGÉNCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	08/05/22
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	22010

SHEET TITLE

MAINTENANCE OF TRAFFIC CONSTRUCTION SIGNS TABLE

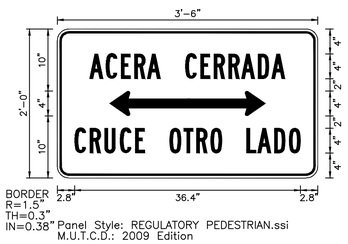
SHEET ID

MOT3

8/29/2025 10:35:04 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\MOT3.dwg

GUIDE SIGN DETAILS:

NTS



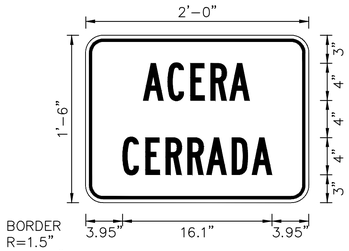
SIGN NUMBER	10/17, 10/18
WIDTH x HGHT.	3'-6" x 2'-0"
BORDER WIDTH	0.3"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
AR_THRU	90	8.4	10	4	12.6
AR_THRU	270	21	10	4	12.6

Panel Style: REGULATORY PEDESTRIAN.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																					LENGTH	SERIES/SIZE
A	C	E	R	A		C	E	R	R	A	D	A										B 2000
5.2	7.8	10.3	12.4	14.5	16.6	20.6	23.1	25.3	27.6	29.7	32.4	34.6									31.5	4
C	R	U	C	E		O	T	R	O		L	A	D	O								B 2000
2.8	5.3	7.6	10.1	12.6	14.1	18.1	20.4	22.5	24.7	26.5	30.5	32.3	35	37.4							36.4	4



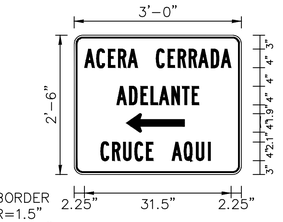
SIGN NUMBER	8/14, 8/15
WIDTH x HGHT.	2'-0" x 1'-6"
BORDER WIDTH	0.3"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT

Panel Style: REGULATORY PEDESTRIAN.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
A	C	E	R	A																			B 2000
6.2	8.8	11.3	13.4	15.5																		11.4	4
C	E	R	R	A	D	A																	B 2000
4	6.4	8.6	11	13	15.7	17.9																16.1	4



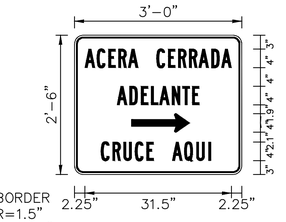
SIGN NUMBER	9/16
WIDTH x HGHT.	3'-0" x 2'-6"
BORDER WIDTH	0.3"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
AR_THRU	90	11.2	9.1	4	12.6

Panel Style: REGULATORY PEDESTRIAN DIR..ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
A	C	E	R	A		C	E	R	R	A	D	A											B 2000
2.2	4.8	7.3	9.5	11.5	13.7	17.7	20.2	22.3	24.7	26.7	29.4	31.6										31.5	4
A	D	E	L	A	N	T	E																B 2000
9.1	11.9	14.3	16.5	18.3	21	23.3	25.3															17.7	4
C	R	U	C	E		A	Q	U	I														B 2000
5.7	8.2	10.6	13	15.5	17	21	23.6	26.2	28.8													23.6	4



SIGN NUMBER	11/19
WIDTH x HGHT.	3'-0" x 2'-6"
BORDER WIDTH	0.3"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
AR_THRU	90	11.2	9.1	4	12.6

Panel Style: REGULATORY PEDESTRIAN DIR..ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
A	C	E	R	A		C	E	R	R	A	D	A											B 2000
2.2	4.8	7.3	9.5	11.5	13.7	17.7	20.2	22.3	24.7	26.7	29.4	31.6										31.5	4
A	D	E	L	A	N	T	E																B 2000
9.1	11.9	14.3	16.5	18.3	21	23.3	25.3															17.7	4
C	R	U	C	E		A	Q	U	I														B 2000
5.7	8.2	10.6	13	15.5	17	21	23.6	26.2	28.8													23.6	4

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGÉNCIA YA SEA MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24
4	90% DESIGN DRAWINGS-REV	02/28/25
5	90% DESIGN DRAWINGS-REV	05/02/25
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:	08/05/22
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	22010

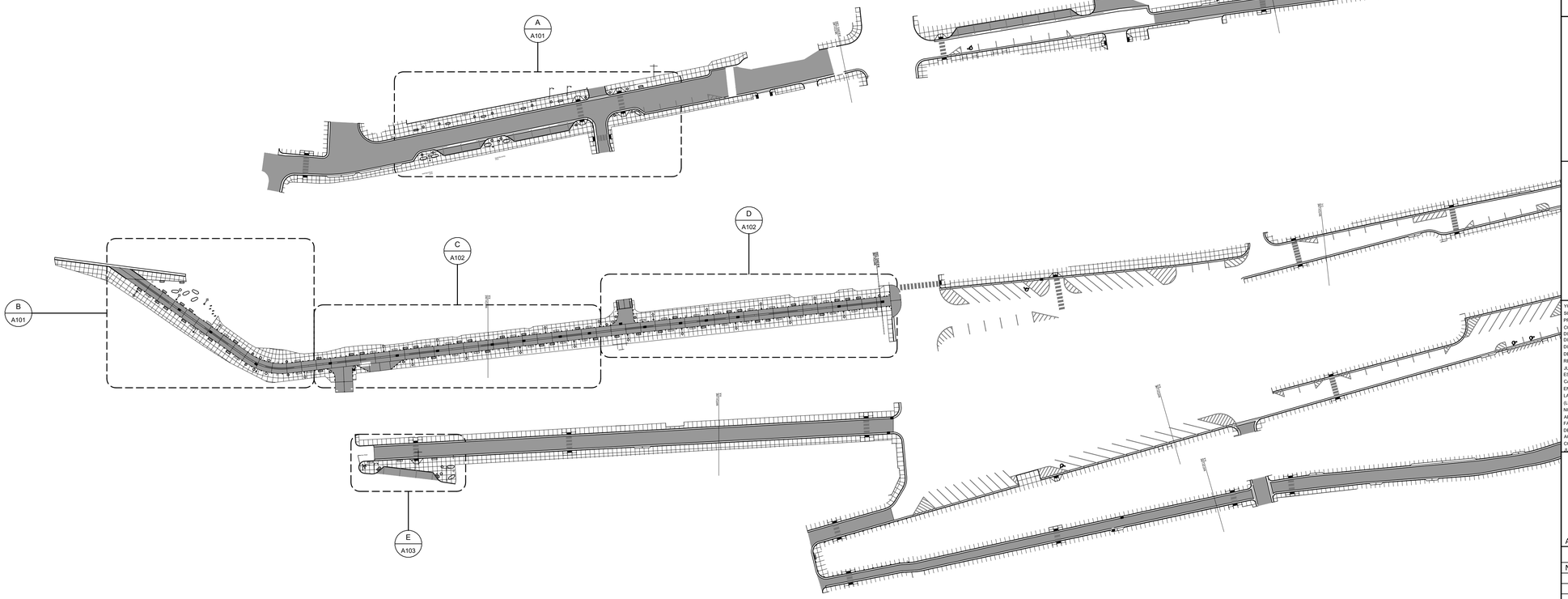
SHEET TITLE

MAINTENANCE OF TRAFFIC CONSTRUCTION SIGNS TABLE

SHEET ID

MOT4

8/29/2025 10:35:05 AM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\MOT3.dwg



N

PROPOSED GENERAL SITE PLAN

SCALE: 1/64" = 1'

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS. OTHERWISE, THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR THE CORRESPONDING RECTIFICATIONS FROM SAID DISCREPANCY.
2. LOCATION OF PROPOSED FURNITURE AND STREET ELEMENTS SHALL BE COORDINATED WITH EXISTING ELEMENTS ON SITE. ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICT BETWEEN PROPOSED AND EXISTING ELEMENTS.
3. FOR PROPOSED FURNITURE SCHEDULE REFER TO SHEET A103.
4. FOR LED STREET POLE SPECIFICATIONS AND LOCATION REFER TO SHEET E300.
5. URBAN FURNITURE AND RELATED EQUIPMENT TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS. GC SHALL BE PROVIDE THE REQUIRED LABOR, MATERIAL AND EQUIPMENT TO INSTALL TO COMPLY WITH MANUFACTURER'S SPECIFICATIONS.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, FRANCISCO A. CAPÓ HERNÁNDEZ, LIC. 21739, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	90% DESIGN DRAWINGS	09/13/24
2	90% DESIGN DRAWINGS-REV	02/28/25
3	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:
REVIEWED BY:
DRAWN BY:
DESIGNED BY:
BRA PROJECT NUMBER:

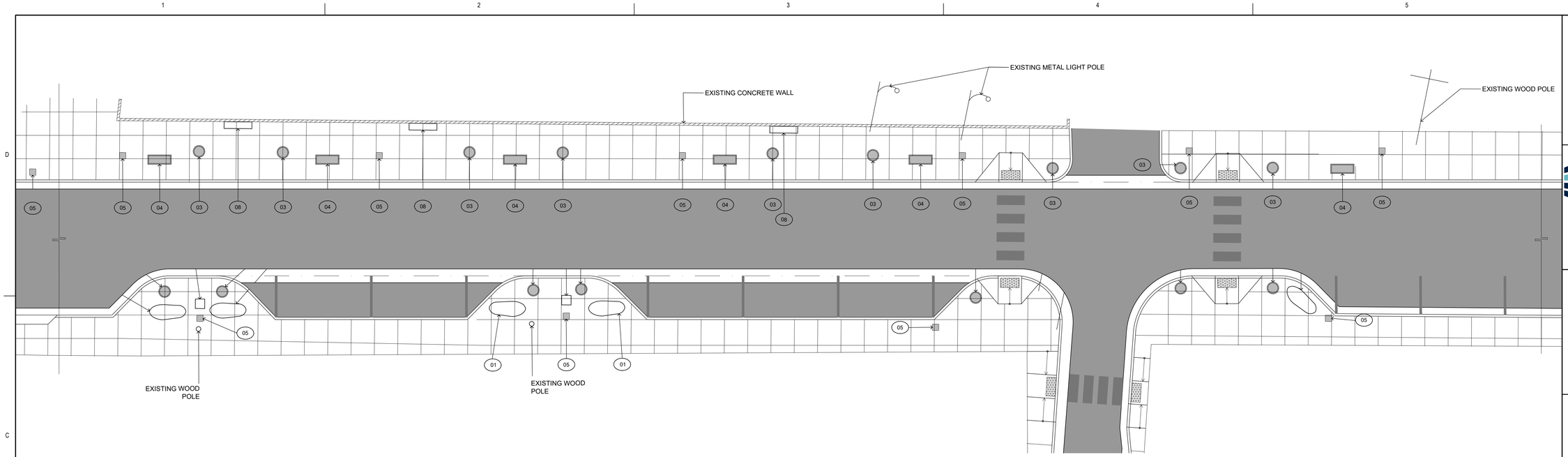
SHEET TITLE

ARCHITECTURAL
SITE PLAN

SHEET ID

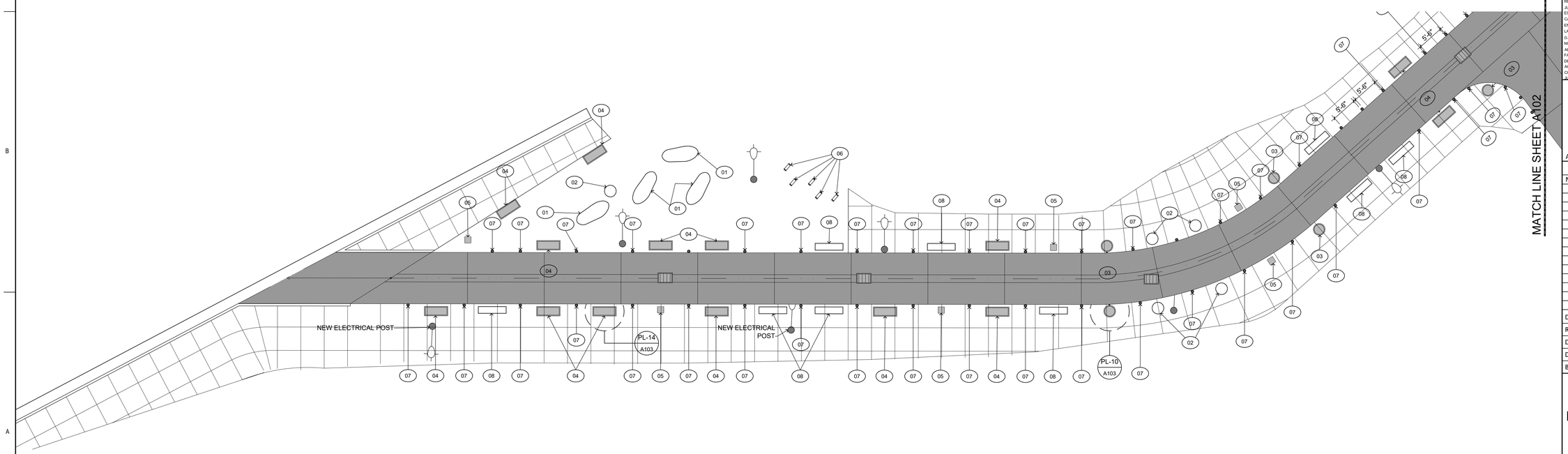
AS100

9/2/2025 4:58:43 PM C:\Users\Karla Alvarado\NewOD\OneDrive - Benitez Ramos & Associates\Luz M. Rodriguez's files - 23014-Arecibo-MejorasCalles\07-Project Design\02-Arch\AE101-103.dwg



N

A A101 PROPOSED LAYOUT PLAN A. R. BARCELO STREET
SCALE: 3/32" = 1'-0"



N

B A101 PROPOSED LAYOUT PLAN JOSE DE DIEGO AVE.
SCALE: 3/32" = 1'-0"

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS. OTHERWISE, THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR THE CORRESPONDING RECTIFICATIONS FROM SAID DISCREPANCY.
2. LOCATION OF PROPOSED FURNITURE AND STREET ELEMENTS SHALL BE COORDINATED WITH EXISTING ELEMENTS ON SITE. ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICT BETWEEN PROPOSED AND EXISTING ELEMENTS.
3. FOR PROPOSED FURNITURE SCHEDULE REFER TO SHEET A103.
4. FOR LED STREET POLE SPECIFICATIONS AND LOCATION REFER TO SHEET E300.
5. URBAN FURNITURE AND RELATED EQUIPMENT TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS. GC SHALL BE PROVIDE THE REQUIRED LABOR, MATERIAL AND EQUIPMENT TO INSTALL TO COMPLY WITH MANUFACTURER'S SPECIFICATIONS.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, FRANCISCO A. CAPÓ HERNÁNDEZ, LIC. 21739, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	90% DESIGN DRAWINGS	09/13/24
2	90% DESIGN DRAWINGS-REV	02/28/25
3	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:
REVIEWED BY:
DRAWN BY:
DESIGNED BY:
BRA PROJECT NUMBER:

SHEET TITLE

PROPOSED LAYOUT PLAN

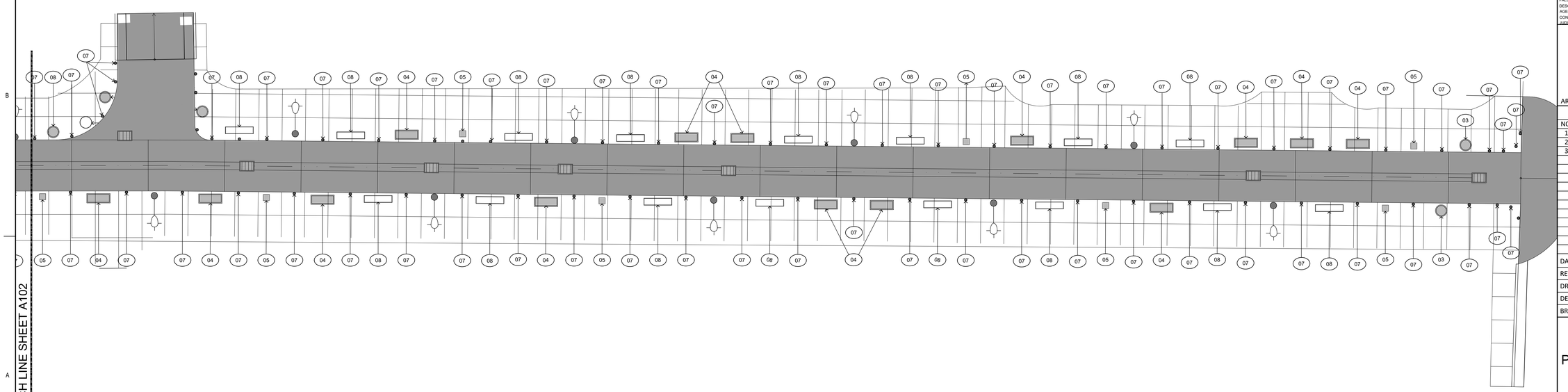
SHEET ID

A101

9/2/2025 4:58:46 PM C:\Users\Karla Alvarado\NewOD\OneDrive - Benitez Ramos & Associates\Luz M. Rodriguez's files - 23014-Arecibo-MejorasCalles\07-Project Design\02-Arch\AE101-103.dwg

N

C A102 PROPOSED LAYOUT PLAN JOSE DE DIEGO AVE.
SCALE: 3/32" = 1'-0"



N

D A102 PROPOSED LAYOUT PLAN JOSE DE DIEGO AVE.
SCALE: 3/32" = 1'-0"

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS. OTHERWISE, THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR THE CORRESPONDING RECTIFICATIONS FROM SAID DISCREPANCY.
2. LOCATION OF PROPOSED FURNITURE AND STREET ELEMENTS SHALL BE COORDINATED WITH EXISTING ELEMENTS ON SITE. ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICT BETWEEN PROPOSED AND EXISTING ELEMENTS.
3. FOR PROPOSED FURNITURE SCHEDULE REFER TO SHEET A103.
4. FOR LED STREET POLE SPECIFICATIONS AND LOCATION REFER TO SHEET E300.
5. URBAN FURNITURE AND RELATED EQUIPMENT TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS. GC SHALL BE PROVIDE THE REQUIRED LABOR, MATERIAL AND EQUIPMENT TO INSTALL TO COMPLY WITH MANUFACTURER'S SPECIFICATIONS.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, FRANCISCO A. CAPO HERNÁNDEZ, LIC. 21739, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA CUAL

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	90% DESIGN DRAWINGS	09/13/24
2	90% DESIGN DRAWINGS-REV	02/28/25
3	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:
REVIEWED BY:
DRAWN BY:
DESIGNED BY:
BRA PROJECT NUMBER:

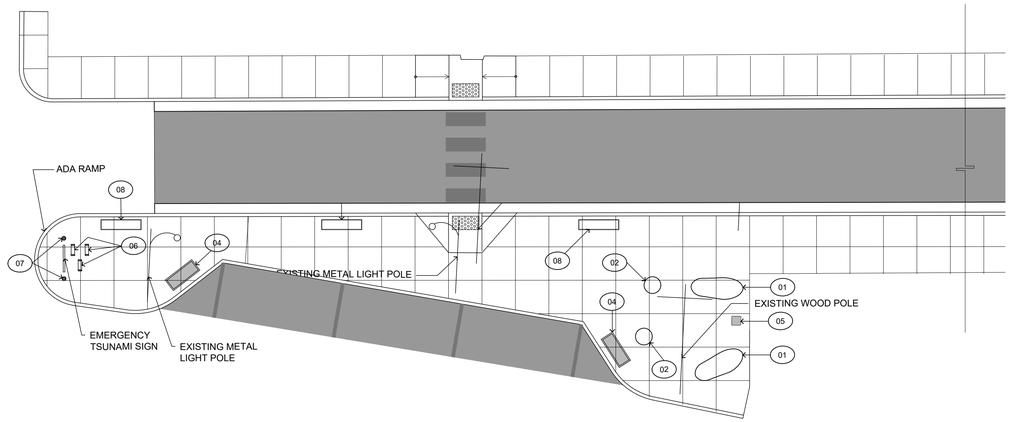
SHEET TITLE

PROPOSED LAYOUT PLAN

SHEET ID

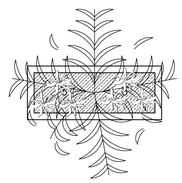
A102

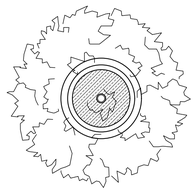
9/2/2025 4:58:54 PM C:\Users\Karla Alvarado\NewOD\OneDrive - Benitez Ramos & Associates\Luz M. Rodriguez's files - 23014-Arecibo-MejorasCalles\07-Project Design\02-Arch\AE101-103.dwg

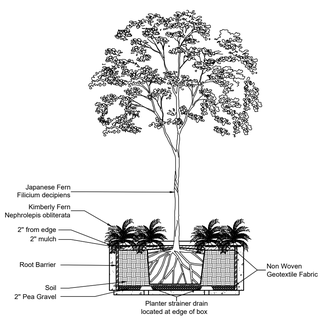


N

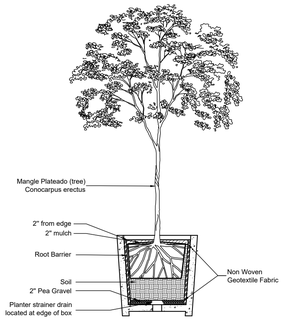
E / A103 PROPOSED LAYOUT PLAN RAMON E. BETANCES STREET
SCALE: 3/32" = 1'-0"







PL-14 / A101 TYPICAL RECTANGLE PLANTER
SCALE: 3/8" = 1'-0"



PL-10 / A101 TYPICAL ROUND PLANTER
SCALE: 3/8" = 1'-0"

KIMBERLY FERN
NEPHROLEPIS OBLITERATA

MANGLE PLATEADO (TREE)
CONOCARPUS ERECTUS

JAPANESE FERN
FILICIUM DECIPIENS

EXTERIOR ELEMENTS - FURNISHING				
MKD		DESCRIPTION	MANUFACTURER/ SUPPLIER	MODEL \ MAKE NUMBER
01		CONCRETE BENCH	713 PRECAST	BE-39
02		CONCRETE BENCH	713 PRECAST	BE-31
03		CONCRETE PLANTER	713 PRECAST	PL-10
04		CONCRETE PLANTER	713 PRECAST	PL-14
05		TRASH BINS	NERI	PICTOR LITTER BIN B
06		BIKE RACKS	713 PRECAST	BIKE RACK BR-1
07		BOLLARD	NERI	CHARA BOLLARD
08		CONCRETE BENCH WITH BACK REST	713 PRECAST	BE-25

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS. OTHERWISE, THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR THE CORRESPONDING RECTIFICATIONS FROM SAID DISCREPANCY.
2. LOCATION OF PROPOSED FURNITURE AND STREET ELEMENTS SHALL BE COORDINATED WITH EXISTING ELEMENTS ON SITE. ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICT BETWEEN PROPOSED AND EXISTING ELEMENTS.
3. FOR PROPOSED FURNITURE SCHEDULE REFER TO SHEET A103.
4. FOR LED STREET POLE SPECIFICATIONS AND LOCATION REFER TO SHEET E300.
5. URBAN FURNITURE AND RELATED EQUIPMENT TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS. GC SHALL BE PROVIDE THE REQUIRED LABOR, MATERIAL AND EQUIPMENT TO INSTALL TO COMPLY WITH MANUFACTURER'S SPECIFICATIONS.

OWNER
Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT
BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, FRANCISCO A. CAPO HERNÁNDEZ, LIC. 21739, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA, LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	90% DESIGN DRAWINGS	09/13/24
2	90% DESIGN DRAWINGS-REV	02/28/25
3	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED:
REVIEWED BY:
DRAWN BY:
DESIGNED BY:
BRA PROJECT NUMBER:

SHEET TITLE

PROPOSED LAYOUT PLAN & SCHEDULE

SHEET ID

A103

9/2/2025 4:58:54 PM C:\Users\Karla Alvarado\New\OD\OneDrive - Benitez Ramos & Associates\Luz M. Rodriguez's files - 23014-Arecibo-MejorasCalles\07-Project Design\02-Arch\AE101-103.dwg

1 LUMA NOTES:

NOTAS GENERALES

1. ESTOS PLANOS COINCIDEN CON LOS PLANOS DE INSCRIPCION RADICADOS EN LA ADMINISTRACION DE REGLAMENTOS Y PERMISOS (OGPE).
2. EL DUEÑO DEL PROYECTO ES RESPONSABLE DE GESTIONAR Y OBTENER, ANTES DE LA FECHA DE COMIENZO DE LA OBRA, TODOS LOS ENDOSOS, PERMISOS Y SERVIDUMBRES REQUERIDAS POR ENTIDADES GUBERNAMENTALES, ESTATALES, MUNICIPALES, FEDERALES Y PRIVADAS CONCERNIENTES AL DESARROLLO DEL TIPO DE PROYECTO PROPUESTO.
3. EL DUEÑO DE ESTA OBRA TIENE QUE CONTRATAR LOS SERVICIOS DE UN INGENIERO LICENCIADO QUE INSPECCONE LA CONSTRUCCION DE LAS OBRAS ELECTRICAS DE ACUERDO CON LA LEY Num.7 DEL 19 DE AJUIO DE 1985, SEGUN ENMENDADA, Y CON EL REGLAMENTO DE CERTIFICACION DE PLANOS Y CONSTRUCCION ELECTRICA DE LUMA VIGENTE. EL DUEÑO TENDRA QUE NOTIFICAR A LUMA LA DESIGNACION DE ESTE INSPECTOR PRIVADO ANTES DEL COMIENZO DEL PROYECTO.
4. LA EJECUCION DE LAS OBRAS ELECTRICAS, SEGUN DISEÑADAS EN ESTOS PLANOS, DEBERA OBSERVAR LA MEJOR PRACTICA DE LA INDUSTRIA ELECTRICA Y CONSTRUCCION DE ACUERDO CON LAS NORMAS Y REGLAMENTACION ADOPTADAS POR LUMA Y AGENCIAS CONCERNIENTES, AL IGUAL QUE CON LOS CODIGOS, NEC Y NESC, DEMAS ESTANDARES DE IEEE, NPA, NEMA Y ANSI ADOPTADOS.
5. EL CONTRATISTA NO ESTA AUTORIZADO A HACER VARIACIONES A ESTE DISEÑO. ES RESPONSABILIDAD DEL CONTRATISTA CONSULTAR CON EL DISEÑADOR O INSPECTOR DESIGNADO PARA ESTA OBRA CUALQUIER DUDA QUE SURJA DE LA INTERPRETACION DE LOS PLANOS, DE LA EJECUCION DE LAS OBRAS PROPUESTAS, ESPECIFICACIONES TECNICAS O DISCREPANCIAS ENTRE LAS CONDICIONES EXISTENTES EN EL CAMPO Y AQUELLAS UTILIZADAS PARA PROPOSITO DE DISEÑO.
6. EL DUEÑO O CONTRATISTA ELECTRICO NOTIFICARA A LUMA EL COMIENZO DE ESTAS OBRAS, MEDIANTE LA ENTREGA DEL DOCUMENTO NOTIFICACION DE COMIENZO DE PROYECTO EN EL DEPARTAMENTO DE INGENIERIA DE DISTRIBUCION DE LA REGION CORRESPONDIENTE, CON POR LO MENOS QUINCE DIAS DE ANTICIPACION A LA FECHA PROPUESTA.
7. EL INSPECTOR PRIVADO Y EL CONTRATISTA ELECTRICO SON RESPONSABLES DE ASISTIR A UNA REUNION DE PRECONSTRUCCION A COORDINARSE CON EL DEPATAMENTO DE INGENIERIA DE DISTRIBUCION DE LA REGION CORRESPONDIENTE.
8. TODO TRABAJO A REALIZARSE EN LINEAS ENERGIZADAS, INCLUYENDO LA CONEXION DE ESTA OBRA, TIENE QUE SER REALIZADO POR LUMA EL PROPONENTE TIENE QUE ASUMIR TODOS LOS COSTOS DE EQUIPO, MATERIALES Y LABOR. EL PROPONENTE TIENE QUE SOLICITAR A LUMA UN ESTIMADO PARA ESTOS TRABAJOS, EL CUAL TIENDA UNA VIGENCIA DE TRES MESES DESDE SU EXPEDICION.
9. SE PROHIBE LA REALIZACION DE CUALQUIER TIPO DE TRABAJO EN LAS FRANJAS DE SERVIDUMBRE ELECTRICA SIN LA AUTORIZACION POR ESCRITO DE LUMA.
10. LUMA NO APROBARA LA CONSTRUCCION POR CONDICIONES DE INVASION DE SERVIDUMBRE O QUE NO CUMPLAN CON LOS DESPEJOS DE SEGURIDAD REQUERIDOS.

NOTAS ESPECIALES

11. EL DUEÑO DEL PROYECTO APORTARA A LUMA:
    - ☐ LA CANTIDAD DE $0.00 A LA CUENTA 419.06 OD PARA MEJORAS AL SISTEMA ELECTRICO EXISTENTE.
    - ☐ LAS OBRAS REQUERIDAS EN LA EVALUACION PARA ESTE PROYECTO DEL 16 DE DICIEMBRE DE 2023.

    ESTA APORTACION SE REALIZARA SEGUN LA CARGA PROPUESTA DE ACUERDO CON EL REGLAMENTO PARA DETERMINAR Y COBRAR LAS APORTACIONES DE PERSONAS O INSTITUCIONES EN PROYECTOS DE DESARROLLO VIGENTE.
12. LUMA NO CONECTARA EL PROYECTO A SU SISTEMA ELECTRICO HASTA TANTO EL DUEÑO CONSTITUYA LAS SERVIDUMBRES REQUERIDAS DE ACUERDO CON EL REGLAMENTO DE SERVIDUMBRE REQUERIDA, YA SEA DENTRO COMO FUERA DE LOS LIMITES DE PROYECTO.
13. LA INSTALACION DE SISTEMAS DE MEDICION TIENE QUE COORDINARSE CON LA OFICINA DE MEDICION DE LA REGION CORRESPONDIENTE. EL DISEÑADOR O EL CONTRATISTA ELECTRICO TIENE QUE ASEGURARSE DE CONSULTAR CON ESTA OFICINA SOBRE LOS EQUIPOS Y MATERIALES A UTILIZARSE ADEMAS DE LA UBICACION DEL EQUIPO.
14. LA INSTALACION DE SUBESTACIONES, TRANSFORMADORES U OTRO EQUIPO ELECTRICO SOBRE SISTEMAS DE ALCANTARILLADO, LINEAS DE AGUA U OTRAS UTILIDADES ESTA PROHIBIDA.

NOTAS ESPECIALES

15. TODOS LOS EQUIPOS A UTILIZARSE EN LA CONSTRUCCION TIENEN QUE CUMPLIR CON LOS ESTANDARES DE IEEE, ANSI, NEMA Y ASTM.
16. EL CONTRATISTA ES RESPONSABLE DE VERIFICAR CON LUMA QUE TODO MATERIAL O EQUIPO A UTILIZARSE ESTE APROBADO POR LUMA PREVIO A SU INSTALACION. LUMA SE RESERVA EL DERECHO DE ACEPTAR CUALQUIER EQUIPO QUE SE LE VAYA A TRANSFERIR.
17. TODO EQUIPO Y MATERIAL (INCLUYENDO TRANSFORMADORES Y GABINETES DE SUBESTACIONES) A SER INSTALADOS A UNA MILLA O MENOS DE DISTANCIA DE CUERPOS DE AGUA SALADA TIENE QUE SER CONSTRUIDO EN ACERO INOXIDABLE, CON EXCEPCION DE LAS BASES DE MONTADORES.
18. EN LOS SISTEMAS SOTERRADOS, TIENEN QUE UTILIZARSE CABLES PRIMARIOS CON TERMINACIONES DE 15KV PARA VOLTAJES DE DISTRIBUCION Y DE 46KV PARA LINEAS DE 38KV.
19. EN LOS SISTEMAS AEREOS, TIENEN QUE UTILIZARSE AISLADORES DE POLIMETRO DE 15KV PARA VOLTAJES DE DISTRIBUCION Y DE 46KV PARA LINEAS DE 38KV.
20. EL CONTRATISTA SERA RESPONSABLE DE ROTULAR TODO TRANSFORMADOR A SER TRANSFERIDO A LUMA CON UN NUMERO DE PROPIEDAD PROVISTO POR EL DEPARTAMENTO DE INGENIERIA DE DISTRIBUCION CORRESPONDIENTE.

SISTEMAS

21. EL DUEÑO DEL PROYECTO ES RESPONSABLE DE REALIZAR LAS PRUEBAS DE LOS CABLES PRIMARIOS Y SECUNDARIOS CON SUS TERMINACIONES. LOS RESULTADOS DE ESTAS PRUEBAS TIENEN QUE ESTAR DE ACUERDO CON LOS PARAMETROS ESTABLECIDOS POR LUMA PARA LAS MISMAS. ESTAS PRUEBAS TIENEN QUE REALIZARSE EN COORDINACION CON UN REPRESENTANTE DE LA OFICINA DE INSPECCIONES DEL DEPARTAMENTO DE INGENIERIA DE DISTRIBUCION CORRESPONDIENTE.
22. DURANTE LA INSTALACION DEL CABLE, ESTE DEBE ESTAR PROTEGIDO DE LA HUMEDAD Y ABRASIONES. EL CONTRATISTA ES RESPONSABLE DE INSTALAR EL CABLE MEDIANTE LAS PRACTICAS RECOMENDADAS DE HALADO PARA NO EXCEDER LA TENSION ESPECIFICADA PARA EL CABLE.
23. LAS TAPAS DE REGISTRO (MANHOLES) A SER INSTALADOS EN EL AREA DE SIEMBRA TIENEN QUE ESTAR PROTEGIDAS MEDIANTE UNA LOZA DE HORMIGON REFORZADO, SEGUN ESPECIFICADO EN EL PLATION URD-50.
24. EN AQUELLOS CASOS DONDE EL PROYECTO ESTE LOCALIZADO A MENOS DE UNA MILLA DE CUERPOS DE AGUA SALADA, LOS CONDUCTOS ASCENDENTES TIENEN QUE SER DE PVC SCHEDULE 80 O DE FIBERGLASS, SEGUN APROBADO POR LUMA
25. LAS BANCADAS DEL SISTEMA SOTERRADO SERAN INSPECCIONADAS POR LUMA ANTES DE SER CUBIERTAS Y COMPACTADAS.
26. TODA BANCADA EXPUESTA A TRAFICO VEHICULAR TENDRA QUE SER PROTEGIDA CON HORMIGON. AQUELLAS QUE SE ENCUENTREN CERCA DE INSTALACIONES DE OTRAS UTILIDADES TENDRAN UN DESPEJO MINIMO DE 13 PULGADAS DE ESTAS.
27. LA CANTIDAD DE FUSIBLES DE REMPLAZO QUE PROVEERA EL CONTRATISTA SERA LA MISMA CANTIDAD DE LOS INSTALADOS EN CADA SUBESTACION.
28. LOS CONECTORES QUE SE UTILIZARAN PARA LA CONEXION A TIERRA DE ANTENAS Y SUBESTACIONES SERAN DE SOLDADURA EXOTERMICA (THERMO–WELD) O DE COMPRESION.
29. EL CONTRATISTA PROVEERA CABLE HALADO (FISHWIRE) EN CADA CONDUCTO DE RESGUARDO.
30. TODO SISTEMA DE DISTRIBUCION TENDRA UNA RESISTENCIA MAXIMA A TIERRA DE 10 OHMIOS. SE INSTALARA UNA VARILLA PARA CONECTAR A TIERRA EL NEUTRAL EN CADA CUATRO POSTES O CADA 1,000 PIES Y EN TODOS LOS TRANSFORMADORES.
31. CADA BASE DE HORMIGON PARA POSTE TIENE QUE INCLUIR DOS CONDUCTOS DE RESGUARDO PARA USO FUTURO, SEGUN REQUERIDO POR LUMA
32. LAS BASES PARA POSTES TIENEN QUE SER INSPECCIONADOS POR LUMA EN SU ETAPA DE CONSTRUCCION.

2 TELECOMMUNICATIONS NOTES:

GENERAL NOTES

1. THE DEVELOPER OR ITS REPRESENTATIVES SHALL SUPPLY AND INSTALL ALL MATERIALS REQUIRED FOR THE TELECOMMUNICATIONS INFRASTRUCTURE, INCLUDING BUT NOT LIMITED TO 1", 2" AND 4" DIAMETER CONDUITS SHOWN ON THE PRINTS.
2. THE 1"Ø CONDUITS SHALL BE PVC SCH 40 RODDED WITH 1/8"Ø NYLON ROPE WITH A MINIMUM PULLING STRENGTH OF 300 LB.
3. THE 2"Ø PVC CONDUIT (FOR CATV DISTRIBUTION FACILITIES) AND THE DE 4"Ø (FOR TELEPHONE DISTRIBUTION FACILITIES) SHALL BE INSTALLED IN THE TELECOMMUNICATIONS EASEMENT. THE 2"Ø CONDUITS SHALL BE INSTALLED ON THE SIDEWALK SIDE OF THE TRENCH AND THE 4"Ø ON THE FARTHERMOST SIDE OF THE TRENCH FROM THE SIDEWALK (SEE EASEMENT CONDUIT INSTALLATION DETAIL).
4. THE 2"Ø AND 4"Ø CONDUITS SHALL BE SCH 40 (MINIMUM) RODDED WITH 1/4"Ø NYLON ROPE WITH A MINIMUM BREAKING STRENGTH OF 500 LBS. AND SHALL BE TESTED WITH 1–5/8" AND 3–5/8" MANDRELS RESPECTIVELY.
5. ALL CONDUIT ENDS SHALL BE CAPPED WITH PVC END CAPS.
6. THE MINIMUM DEPTH OF THE CONDUITS PLACED ALONG THE EASEMENT AND SERVICE CONDUITS TO EACH RESIDENCE SHALL BE:

1"Ø CONDUITS	14" BELOW GROUND LEVEL
2"Ø CONDUITS	24" BELOW GROUND LEVEL
4"Ø CONDUITS	24" BELOW GROUND LEVEL

7. WHEN CONDUITS ARE INSTALLED ON CONCRETE ENCASE PLASTIC SPACERS SHALL BE INSTALLED EVERY SIX FEET OR AS SPECIFIED BY THE MANUFACTURER IN ORDER TO MAINTAIN THE PROPER CONDUIT RUN FORMATION AND SEPARATION.
8. WHEN EXPOSED TO VEHICULAR TRAFFIC (ROADWAY, STREET, CARPORT CROSSINGS AND PARKING AREAS) CONDUITS SHALL BE INSTALLED AT A DEPTH BETWEEN 30" AND 36" MEASURED FROM THE SURFACE OF THE PAVEMENT AND SHALL BE ENCASED IN CONCRETE WITH A MINIMUM RESISTANCE OF 3000 LBS. PER SQUARE INCH (3000 PSI).
9. TRENCH BACKFILLING SHALL BE PERFORMED WITH SELECTED MATERIALS FREE OF LARGE STONES AND OTHER CONTAMINANTS SUCH AS SCRAPS OF WOOD, ASPHALT, CONCRETE PAVEMENT, ETC. BACKFILL SHALL BE COMPACTED TO 95% IN INCH LAYERS BY MEANS OF A TAMPER, WITH THE FIRST 12 INCHES TAMPED USING LIGHTWEIGHT EQUIPMENT.
10. A SIX INCH WIDE ORANGE WARNING RIBBON (EQUAL OR SIMILAR TO TERRA TAPE† 42–00407) SHALL BE INSTALLED AT A DEPTH OF 12" BELOW GROUND LEVEL ABOVE THE CONDUITS AND ALONG THE WHOLE CONDUIT RUN.
11. THE DEVELOPER OR ITS REPRESENTATIVES SHALL CLEARLY IDENTIFY ALL CONDUIT ENDS (INCLUDING BUT NOT LIMITED TO DISTRIBUTION POINTS, SERVICE CONDUITS) WHEN SPLICING OR DISTRIBUTION BOXES HAS NOT BE SPECIFIED OR RECOMMENDED. SEE "ROD STAKE DETAIL".
12. THE 2"Ø AND 4"Ø CONDUIT BENDS SHALL NOT BE LESS THAN 90° AND SHALL HAVE A MINIMUM RADIUS OF 36". ALL CONDUITS SHALL BE LIMITED TO TWO 90° ENDING BENDS IN A CONDUIT SECTION.
13. GENERALLY DISTRIBUTION BOXES WILL BE *3' X 3' X 3', 4' X 4' X 4'* AS WELL AS *6' X 4' X 4'* AND *(OR 7' X 4'–6" X 4'* SPLICE BOXES WILL BE INSTALLED FOR TELECOMMUNICATIONS SERVICES AS INDICATED ON PRINTS. THESE BOXES WILL NOT BE LOCATED IN AREAS NOT EXPOSED TO VEHICULAR TRAFFIC AND SHOULD BE DESIGNED TO RESIST INCIDENTAL TRAFFIC. IF BOXES WILL BE EXPOSED TO VEHICULAR TRAFFIC A MANHOLE OR SPECIAL BOX DESIGNED FOR THAT APPLICATION SHOULD BE INSTALLED WITH THE CAPACITY TO AVOID ANY DEFORMATION OR COLLAPSE OF ITS ENTRANCE COVER, SIMILAR OR EQUAL TO POWER POLES MH 6'X6'X7'.
14. THE DISTRIBUTION POINTS OR BOXES SHALL BE PLACED IN EASEMENT LOCATED TWO FEET FROM THE PROPERTY LINE BETWEEN LOTS WITHOUT INTERFERING WITH ANY ENTRANCE (CARPORT OR SIDEWALK).
15. DISTRIBUTION BOXES AND SPLICE BOXES SHALL BE
    a. PREFABRICATED WITH STEEL REINFORCED CONCRETE (EQUAL OR SIMILAR TO POWER POLES INC.)
    b. CAST–IN PLACE WITH STEEL REINFORCED CONCRETE.
    c. PREFABRICATED POLYMER CONCRETE BOX (EQUAL OR SIMILAR TO QUAZITE†) 17"X30"X18" (MAXIMUM SIZE ALLOWED) ONLY WILL BE ACCEPTED FOR CABLE TV APPLICATION IN AREAS WITH SPACE PROBLEM.
    d. NOT CHANGE IN THE TYPE OF BOXES TO BE USED WILL REQUIRE THE APPROVAL OF NETPR BEFORE THEIR INSTALLATION
16. ALL CONDUITS, WHETHER OR NOT IN USE, SHALL BE SEALD IN DISTRIBUTION BOXES, SPLICE BOXES, AND BUILDINGS TELECOMMUNICATION CANDIET USING A DUCT SEALER (EQUAL OR SIMILAR TO 3M† 4414 DUCT SEALING KIT).
17. 2"Ø CONDUITS FOR CABLE TELEVISION (CATV) DISTRIBUTION FACILITIES IN RESIDENTIAL PROJECTS, OF SINGLE FAMILY UNIT HOMES, ROW HOUSES, PATIO HOUSES, ETC., SHALL NOT BE TERMINATED AT TELECOMMUNICATIONS DISTRIBUTION BOXES. THESE CONDUITS, AS WELL AS THE 1"Ø CONDUITS FOR CATV SERVICE DROPS, SHALL BE END CAPPED AND LEFT AT CATV DISTRIBUTION POINTS LOCATED IN THE PLANTING STRIP (GENERALLY NEXT TO LIGHT POSTS) AS INDICATED ON PRINTS.
18. THE EXTERIOR METALLIC BOXES 4" X 4" X 2 1/8" (MINIMUM), FOR TELECOMMUNICATIONS SERVICE DROPS (TELEPHONE AND CATV), SHALL BE INSTALLED ON ONE OF THE LIVING UNITS WALLS CONVENIENTLY LOCATED SO AS TO PROVIDE EASY UNOBSTRUCTED ACCESS.
19. THE CONDUIT, THROUGH WHICH THE GROUND WIRE FOR THE EXTERIOR SERVICE DROP METALLIC BOXES SHALL BE INSTALLED, SHALL COME OUT FROM THE LIVING UNIT WALL AT A DEPTH OF SIX INCHES BELOW GROUND LEVEL.
20. THE TELECOMMUNICATIONS SERVICE DROPS ELECTRICAL GROUNDING WILL BE ACHIEVED WITH THE NECESSARY 8' X 5/8" COPPER WELDED GROUND RODS INSTALLED BY THE TELECOMMUNICATIONS SERVICE PROVIDER AND MUST COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE.
21. ALL TELECOMMUNICATIONS SYSTEMS (TELEPHONE AND CATV) SHALL BE BONDED AND GROUNDED AT ALL POINTS AND MUST COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE.
22. NO MORE THAN TWO 90° BENDS SHALL BE ALLOWED IN THE CONDUITS CONNECTING THE EXTERIOR METALLIC BOXES FOR SERVICE DROP AND THE INTERIOR SERVICE BOXES.
23. THE INTERIOR RESIDENTIAL TELECOMMUNICATIONS SERVICE DISTRIBUTION CONDUITS SHALL HAVE A MINIMUM 3/4" INSIDE DIAMETER AND EACH LIVING UNIT SHALL BE PROVIDED WITH TELECOMMUNICATIONS SERVICES (TELEPHONE AND CATV) OUTLETS IN THE KITCHEN, LIVING ROOM AND EACH OF THE BEDROOMS.
24. AT WALK–UPS AND MULTI–STORY RESIDENTIAL BUILDINGS THE MINIMUM SIZE FOR TELECOMMUNICATIONS CABINETS SHALL BE 36" X 24" X 6" FOR (TELEPHONE) AND 36"X36"X8" FOR (CATV) AND SHALL SERVE NO MORE THAN 16 UNITS. THE CABINETS SHALL BE EQUIPPED WITH A 3/4" THICK TREATED PLYWOOD BACKBOARD, A HINGED DOOR WITH LATCH AND KEY, AND SHALL HAVE COMPLETE FRONTAL ACCESS. THE CABINETS SHALL ALSO PROVIDE FOR THE PROPER BONDING AND GROUNDING OF THE TELECOMMUNICATIONS FACILITIES AND MUST COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE.
25. WALK–UP PROJECTS SHALL HAVE INDEPENDENT TELECOMMUNICATIONS CABINETS FOR TELEPHONE AND CATV SERVICES. THE TELEPHONE CABINET WILL BE CONNECTED TO THE NEAREST SPLICING BOX BY MEANS OF 2–2"Ø PVC CONDUITS. THE CATV CABINET WILL BE CONNECTED TO THE NEAREST SPLICING BOX OR THE NEAREST CATV CABINET (IN THE NEXT BUILDING) DEPENDING ON THE LOOP DESIGN SPECIFIED ON THE DRAWINGS BY MEANS OF 2–2"Ø PVC CONDUITS. THE MINIMUM SIZE OF THE SPLICE BOX SHALL BE 7' X 4'–6" X 4' AND MAY BE JOINTLY USED FOR TELEPHONE AND CATV SERVICES.
26. RESIDENTIAL BUILDINGS (MULTI–STORY APARTMENT BUILDINGS OTHER THAN WALK UPS, HIGH–RISE CONDOMINIUMS, ETC.) SHALL HAVE INDEPENDENT MAIN DISTRIBUTION CABINETS FOR TELEPHONE AND CATV SERVICES. THE MAIN DISTRIBUTION CABINETS, GENERALLY CONSISTING OF AN 8' X 4' X 3/4" FIRE–RETARDANT PLYWOOD PANEL OR AN 8' X 4' X 3/4" TREATED PLYWOOD PANEL PAINTED WITH TWO COATS OF FIRE RETARDANT PAINT, WILL BE PLACED IN A TELECOMMUNICATIONS' CLOSET OR ROOM. THE MAIN DISTRIBUTION PANELS FOR TELEPHONE AND CATV SERVICES SHALL BE CONNECTED VERTICALLY TO OTHERS DISTRIBUTION CABINETS (EACH SERVING A MAXIMUM OF 16 UNITS) BY MEANS OF 2–4" Ø AND 2–2" Ø PVC CONDUITS RESPECTIVELY.
27. EACH CABINET OR PANEL SHALL ALSO PROVIDE FOR THE PROPER BONDING AND GROUNDING OF THE TELECOMMUNICATIONS FACILITIES WITH A GROUND BAR, GROUND WIRE AND CONNECTED TO A 8' X 5/8" COPPER WELD GROUND ROD SYSTEM AND MUST COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE. THIS WILL BE A DEVELOPER'S RESPONSIBILITY.
28. ALL APARTMENTS SHALL BE CONNECTED TO EACH OF THEIR CORRESPONDING DISTRIBUTION CABINETS (TELEPHONE AND CATV) BY MEANS OF 1–1"Ø CONDUIT.
29. ENTRANCE FACILITIES FOR RESIDENTIAL BUILDINGS SHALL CONSIST OF A MINIMUM OF 2–4"Ø FOR TELEPHONE SERVICE AND 2–2"Ø PVC CONDUITS FOR CATV SERVICE. THE CONDUITS SHALL CONNECT THE MAIN DISTRIBUTION CABINETS AND THE DESIGNATED BUILDING TELECOMMUNICATIONS POINT OF CONNECTION. WHEN A BUILDING'S TELECOMMUNICATIONS POINT OF CONNECTION IS A SPLICE BOX IT SHALL HAVE A MINIMUM SIZE OF 7' X 4'–6" X 4' AND MAY BE JOINTLY USED FOR TELEPHONE AND CATV SERVICES.

SPECIAL NOTES

30. THE DEVELOPER IN COMPLIANCE WITH SECTION 19.04 OF THE PUERTO RICO PLANNING BOARD'S "REGLAMENTO DE LOTIFICACION Y URBANIZACION (REGLAMENTO DE PLANIFICACION 3) REVISADO" SHALL TRANSFER TO THE PUERTO RICO TELECOMMUNICATIONS REGULATORY BOARD (NETPR) THE RIGHT OF WAY DEPICTED ON THESE DRAWINGS REQUIRED TO PROVIDE TELECOMMUNICATIONS SERVICES (TELEPHONE AND CATV) TO THIS PROJECT BY MEANS OF A PUBLIC DEED.
31. THE PUERTO RICO TELECOMMUNICATIONS REGULATORY BOARD (NETPR) MAY ISSUE PARTIAL ENDORSEMENTS FOR SINGLE FAMILY RESIDENTIAL PROJECTS (SINGLE FAMILY HOMES, ROW HOUSES, TOWNHOUSES, PATIO HOUSES, ETC.) SO THAT THE DEVELOPER CAN DELIVER PORTIONS OF THE PROJECT AS THEY ARE COMPLETED. ONCE THE PROJECT IS COMPLETED, THE DEVELOPER SHALL COMPLY WITH THE PROCEDURE SPECIFIED IN SECTION 5.03.8 OF THE NETPR'S "REGLAMENTO PARA ENDOSOS DE SERVIDUMBRES E UNFRAESTRUCTURA" RELATED TO OBTAIN THE FINAL ENDORSEMENTS.
32. THE DEVELOPER SHALL ALLOW TELECOMMUNICATIONS SERVICE PROVIDERS (TELEPHONE AND CATV) AUTHORIZED BY THE NETPR TO PROVIDE SAID SERVICES, TO INSTALL THEIR DISTRIBUTION FACILITIES IN A COORDINATED AND ORDERLY MANNER IN THOSE PORTIONS OF THE PROJECT FOR WHICH A PARTIAL ENDORSEMENT HAS BEEN ISSUED.
33. THE DEVELOPER SHALL COORDINATE WITH TELECOMMUNICATIONS SERVICE PROVIDERS (TELEPHONE AND CATV) AND THE PUERTO RICO ELECTRICAL POWER AUTHORITY (LUMA) THE INSTALLATION AND/OR CONNECTION OF RISERS, CONDUITS OR ANY ACTION TO ACCESS TO THEIR FACILITIES.
34. THE DEVELOPER SHALL COORDINATE WITH THE TELECOMMUNICATIONS SERVICE PROVIDERS (TELEPHONE AND CATV) AND WITH ANY OTHER PUBLIC OR PRIVATE ORGANIZATION WHOSE FACILITIES ARE AFFECTING BY THE CONSTRUCTION OF THE PROJECT, THE REMOVALS, RELOCATION AND/OR MODIFICATIONS OF ANY EXISTING INFRASTRUCTURE.
35. THE DEVELOPER SHALL ASSIGN AN ENGINEER OR ARCHITECT TO INSPECT AND CERTIFY THAT THE CONSTRUCTION JOBS WERE PERFORMED AND COMPLETED AS THE ENDORSED DRAWINGS BY THE PUERTO RICO TELECOMMUNICATIONS REGULATORY BOARD (NETPR). FOR THAT PROCESS WILL USED FORM NETPR F–102 AND SUBMIT TO NETPR AND OBTAIN THEIR APPROVAL BEFORE APPLY FOR THE PERMIT OF USE AT ADMINISTRACION DE REGLAMENTOS & PERMISOS† (ARPE).
36. COMMERCIAL BUILDINGS WILL REQUIRE TWO (2) MAIN DISTRIBUTION CABINETS OR PANELS FOR TELEPHONE AND CATV SERVICES RESPECTIVELY. A TELECOMMUNICATION ROOM OR AREA WILL BE DESIGNATED TO PLACE THEM AND THEY MUST COMPLY WITH ONE OF THE SPECIFICATION DESCRIBED BELOW:
    a. TREATED WOOD PANEL 4' X 8' X 3/4" (DOUBLE COATED WITH WHITE FIRE RETARDANT PAINT)
    b. TELEPHONE METAL CABINET 30" X 24" X 4"(MIN) AND CATV 30" X 30" X 6" BOTH CABINET SHALL BE EQUIPPED WITH A 3/4" THICK TREATED PLYWOOD

KEY PLAN — SEE DWGS FOR CORRESPONDING COORDINATES AT EACH AREAS

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1988, según enmendada, y conozco el contenido de los planos de construcción basándose en la certificación sometida por el operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that I am a licensed and registered engineer, surveyor, or architectin compliance with Act 173 of 1988, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.
2. En armonía con las disposiciones de la Ley Núm. 135 de 15 de junio de 1967, según enmendada, conocida como Ley de Certificación de Planos de Construcción, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los estándares de construcción establecidos por LUMA Energy, el Reglamento de Planificación Núm. 3 de Puerto Rico y el Manual de Prácticas Profesional del CIAPR / In compliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CIAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO
Número de Proyecto / Project Number : 24-5-1389
Carga / Load: (KVA) : 15KVA Revisión / Revision :

ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño eléctrico mostrado en estos planos de construcción basándose en la certificación sometida por el diseñador en cumplimiento con la Ley Núm 135 del 15 de junio de 1967, según enmendada. / LUMA endorses the electrical design shown on these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no relieva al diseñador de la responsabilidad profesional que asume al certificar estos planos, este endoso no relieva al constructor ni al inspector de obra privado de cumplir con las disposiones del Código Eléctrico Nacional, Código Eléctrico Nacional de Seguridad, códigos, estándares, normas, and regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins. / LUMA does not assume responsibility over the certified design. LUMA's endorsement does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from : National Electric Code, National Electric Safety Code, construction standards, norms, and regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins.
3. El presente endoso tiene vigencia de un (1) año. De iniciar las obras eléctricas dentro de este término, mediando inspección positiva de LUMA, el endoso tendrá vigencia hasta la terminación de la obra. De no iniciarse la obra, o de no certificar dicha obra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbre ni para completar proceso de Cesión, Traspaso y Garantía del equipo. Para esto es necesario cumplir con todo lo dispuesto en el Reglamento para la Determinación y Cobro de Aportaciones de Personas o Instituciones en Proyectos de Desarrollo (Vigente) / This endorsement is valid for one (1) year. If electrical works have begun during this year, with prior notification to LUMA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. This endorsement in not to constitute an easement or to complete the Assignments, Transfer and Guarantee process of the equipment. For this, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority(PREA 4 1997).

NEGOCIADO DE TELECOMUNICACIONES DE PUERTO RICO

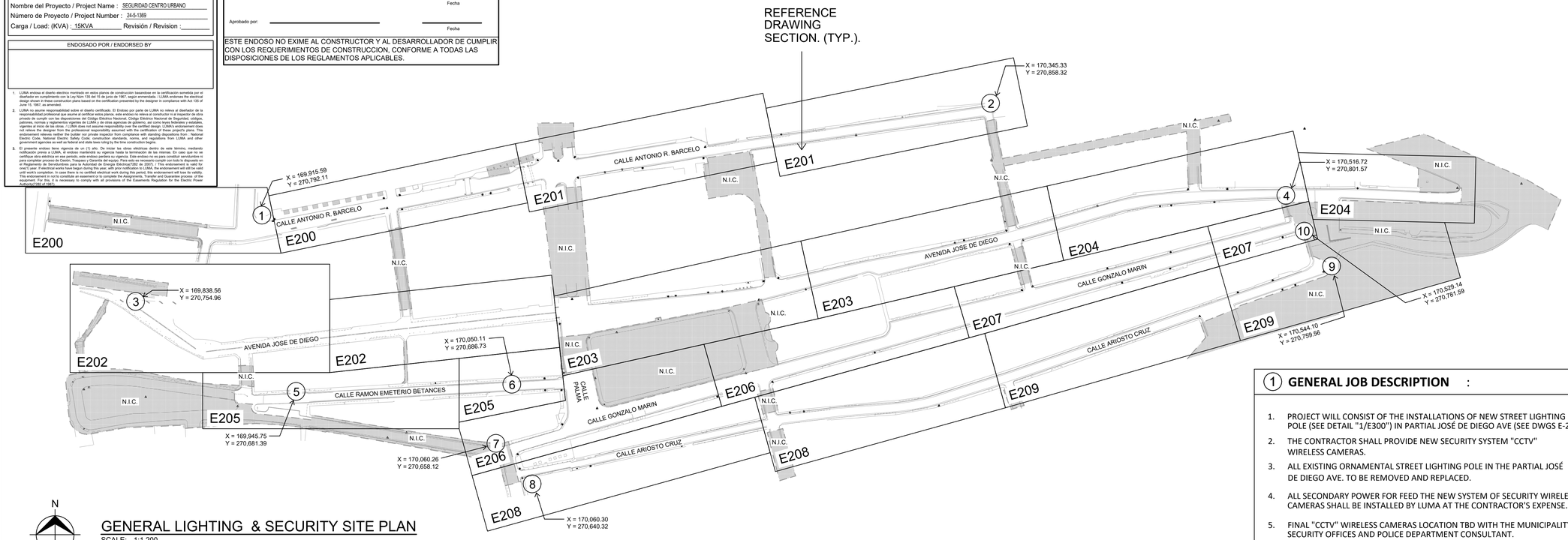
Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX
NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____
Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.



N

GENERAL LIGHTING & SECURITY SITE PLAN

SCALE: 1:1,200

5 0 10 20 50 80

SCALE: 1:1,200

1 GENERAL JOB DESCRIPTION :

1. PROJECT WILL CONSIST OF THE INSTALLATIONS OF NEW STREET LIGHTING POLE (SEE DETAIL "1/E300") IN PARTIAL JOSÉ DE DIEGO AVE (SEE DWGS E-202).
2. THE CONTRACTOR SHALL PROVIDE NEW SECURITY SYSTEM "CCTV" WIRELESS CAMERAS.
3. ALL EXISTING ORNAMENTAL STREET LIGHTING POLE IN THE PARTIAL JOSÉ DE DIEGO AVE. TO BE REMOVED AND REPLACED.
4. ALL SECONDARY POWER FOR FEED THE NEW SYSTEM OF SECURITY WIRELESS CAMERAS SHALL BE INSTALLED BY LUMA AT THE CONTRACTOR'S EXPENSE.
5. FINAL "CCTV" WIRELESS CAMERAS LOCATION TBD WITH THE MUNICIPALITY SECURITY OFFICES AND POLICE DEPARTMENT CONSULTANT.
6. FINAL POINT OF CONNECTION TO DATA SECURITY CCTV SYSTEM TO BE AT "CUARTO DE CONTROL CASA ALCALDIA".

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

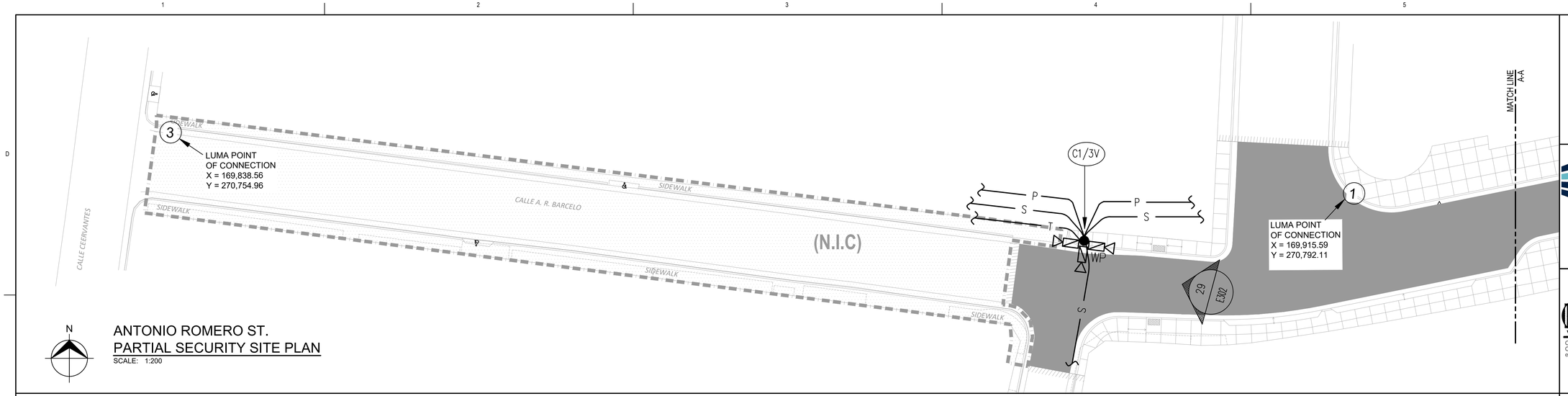
BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@braprr.com

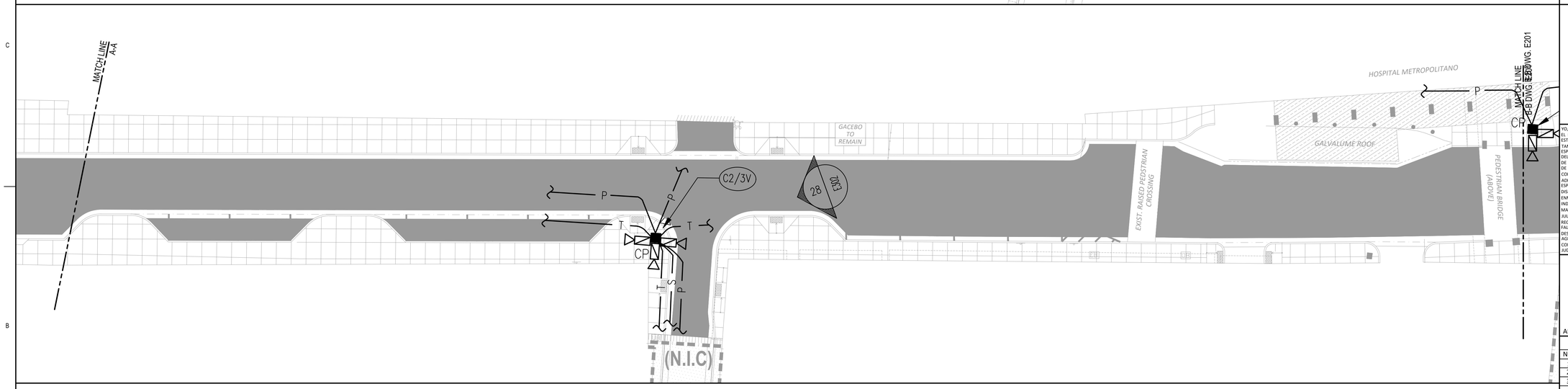
CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICION





ANTONIO ROMERO ST.
PARTIAL SECURITY SITE PLAN
SCALE: 1:200

SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. ALL "CCTV" SYSTEM CAMERAS WILL BE WIRELESS. SELF ANTENNA FOR DATA TRANSMISSION, SPECS AND FINAL DETAILS SHALL BE BY OTHER.

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX
NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1988, según enmendada y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that I am a licensed and registered engineer, surveyor, or architect(in compliance with Act 173 of 1988, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.
2. En armonía con las disposiciones de la Ley Núm. 135 de 15 de junio de 1967, según enmendada, conocida como Ley de Certificados de Planos Sometidos para Permisos, Consultas de Ubicación y Certificaciones de Cumplimiento, los códigos, patrones, normas y reglamentos aprobados por la AEE, la Junta de Planificación y la Oficina de Gerencia de Permisos, LUMA Energy y el Manual de Práctica Profesional del CIAPR./ In compliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CIAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO
Número de Proyecto / Project Number : 24-5-1369
Carga / Load: (KVA) : 15KVA Revisión / Revision : _____

ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño eléctrico mostrado en estos planos de construcción basandose en la certificación sometida por el diseñador en cumplimiento con la Ley Num 135 del 15 de junio de 1967, segun enmendada. / LUMA endorses the electrical design shown in these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no releva al diseñador de la responsabilidad profesional que asume al certificar estos planos, este endoso no releva al constructor ni al inspector de obra de la responsabilidad de cumplir con el diseño certificado por el diseñador. El endoso no releva de cumplir con los códigos, patrones, normas y reglamentos vigentes de LUMA y de otras agencias de gobierno, así como leyes federales y estatales, vigentes al inicio de las obras. / LUMA does not assume responsibility over the certified design. LUMA's endorsement does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from : National Electrical Code, NESC, OSHA, as well as with standing dispositions from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins.
3. El presente endoso tiene vigencia de un (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso que no se certifique obra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbre ni completar los Assignments, Transfer and Guarantee process del Reglamento de Servidumbre para la Autoridad de Energía Electrica(CNE de 2007). / This endorsement is valid for one(1) year. If electrical works have begun during this year, with prior notification to LUMA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. This endorsement in not to constitute an easement or to complete the Assignments, Transfer and Guarantee process of the Easement. For this, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority(CNE of 2007).

OWNER
Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT
BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT
RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% Revised DESIGN DWGS.	02/27/25
6	100% Revised DESIGN DWGS.	09/03/25

DATE ISSUED:	08/27/25
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

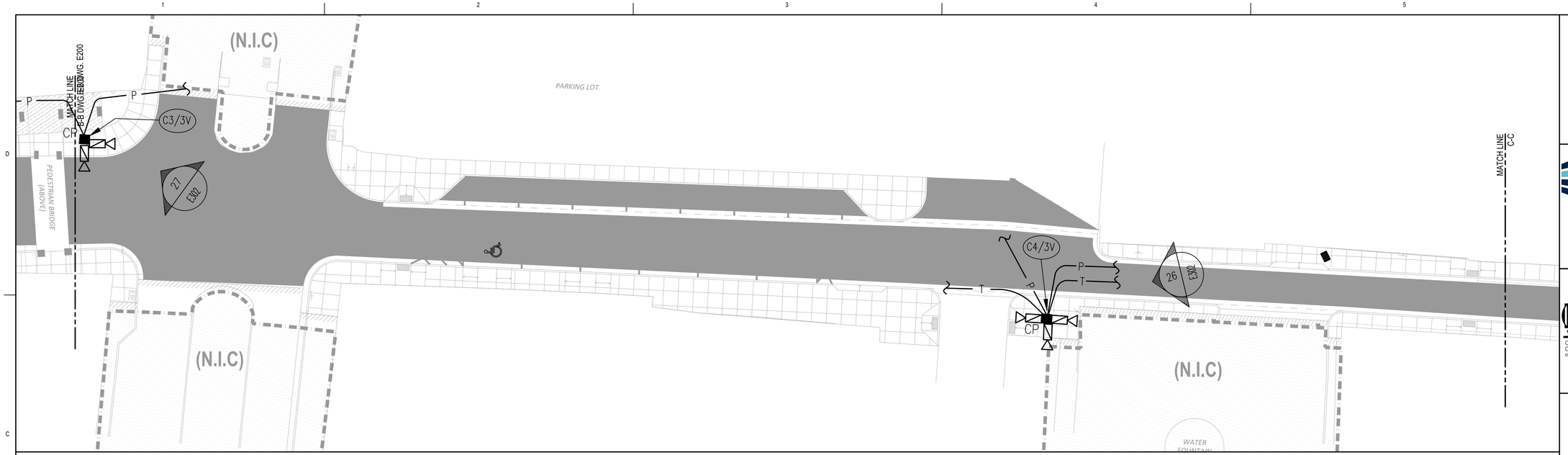
SHEET TITLE

ANTONIO ROMERO ST, - PARTIAL SECURITY SITE PLAN

SHEET ID

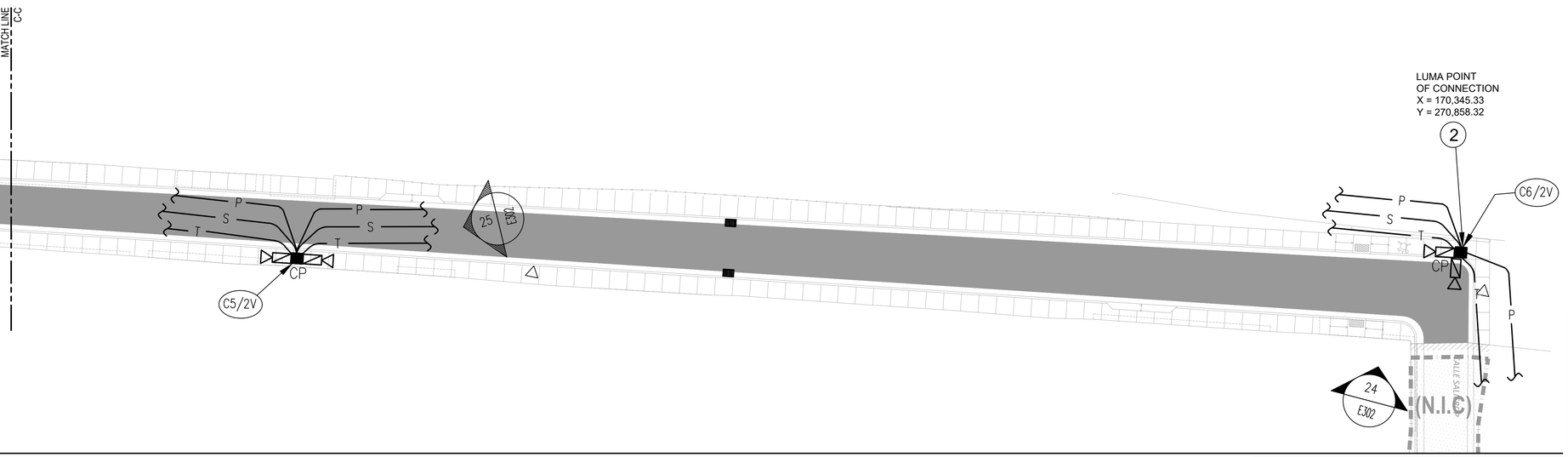
E200

8/27/2025 10:05:36 PM C:\Users\Luis Perez\Documents\0) JOBS\RJR\24-09 CALLES\00) revision 08.2025\E200.dwg



N

ANTONIO ROMERO ST.
PARTIAL SECURITY SITE PLAN
SCALE: 1:200



N

ANTONIO ROMERO ST.
PARTIAL SECURITY SITE PLAN
SCALE: 1:200

2 0 5 10 15m

SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. ALL "CCTV" SYSTEM CAMERAS WILL BE WIRELESS. SELF ANTENNA FOR DATA TRANSMISSION, SPECS AND FINAL DETAILS SHALL BE BY OTHER.

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX
NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1988, según enmendada, y autorizado por el dueño de la obra (propietario) o por la corporación pública concernida (Autoridad de Energía Eléctrica operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that I am a licensed and registered engineer, surveyor, or architect(in compliance with Act 173 of 1988, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.
2. En armonía con las disposiciones de la Ley Núm. 135 de 15 de junio de 1967, según enmendada, conocida como Ley de Certificación de Planos de Construcción, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los códigos, palmires, normas y reglamentos aprobados por la AEE, la Junta de Planificación y la Oficina de Gerencia de Permisos, LUMA Energy y el Manual de Practica Profesional del CIAPR./ In compliance with Act No. 135 of June 15, 1967, as amended, known as the Construction Plans Certification Act, I certify that I prepared the electrical design for the construction of this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CIAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO
Número de Proyecto / Project Number : 24-5-1369
Carga / Load: (KVA) : 15KVA Revisión / Revision : _____

ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño eléctrico mostrado en estos planos de construcción basandose en la certificación sometida por el diseñador en cumplimiento con la Ley Núm 135 del 15 de junio de 1967, según enmendada. / LUMA endorses the electrical design shown in these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no relieva al diseñador de la responsabilidad profesional que asume al certificar estos planos, este endoso no relieva al constructor ni al inspector de obra privado de cumplir con las disposiciones del Código Electrico Nacional, Código Electrico Nacional de Seguridad, códigos, normas, y reglamentos de construcción aplicables de LUMA y de cualquier otra agencia gubernamental federal y estatal vigentes al inicio de las obras. / LUMA does not assume responsibility over the certified design. LUMA's endorsement does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from : National Electric Code, National Electric Safety Code, construction standards, norms, and regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins.
3. El presente endoso tiene vigencia de un (1) año. De iniciar las obras eléctricas dentro de este término, mediando diligencia razonable, LUMA le concederá automáticamente una extensión adicional de un (1) año. Si no ha iniciado la construcción otra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbre ni para completar proceso de Cesión, Traspaso y Garantía del equipo, Para esto es necesario cumplir con todo lo dispuesto en el Reglamento de Servidumbres para la Autoridad de Energía Electrica(TS82 de 2007). / This endorsement is valid for one(1) year. If electrical works have begun during this year, with prior notification to LUMA, the endorsement will still be valid for an additional year. If work has not begun during the second year, this endorsement will lose its validity. / This endorsement in not to constitute an easement or to complete the Assignments, Transfer and Guarantee process of the equipment. For this, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority(TS82 of 1987).

OWNER
Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT
BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT
RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% Revised DESIGN DWGS.	02/27/25
6	100% Revised DESIGN DWGS.	09/03/25

DATE ISSUED:	08/27/25
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

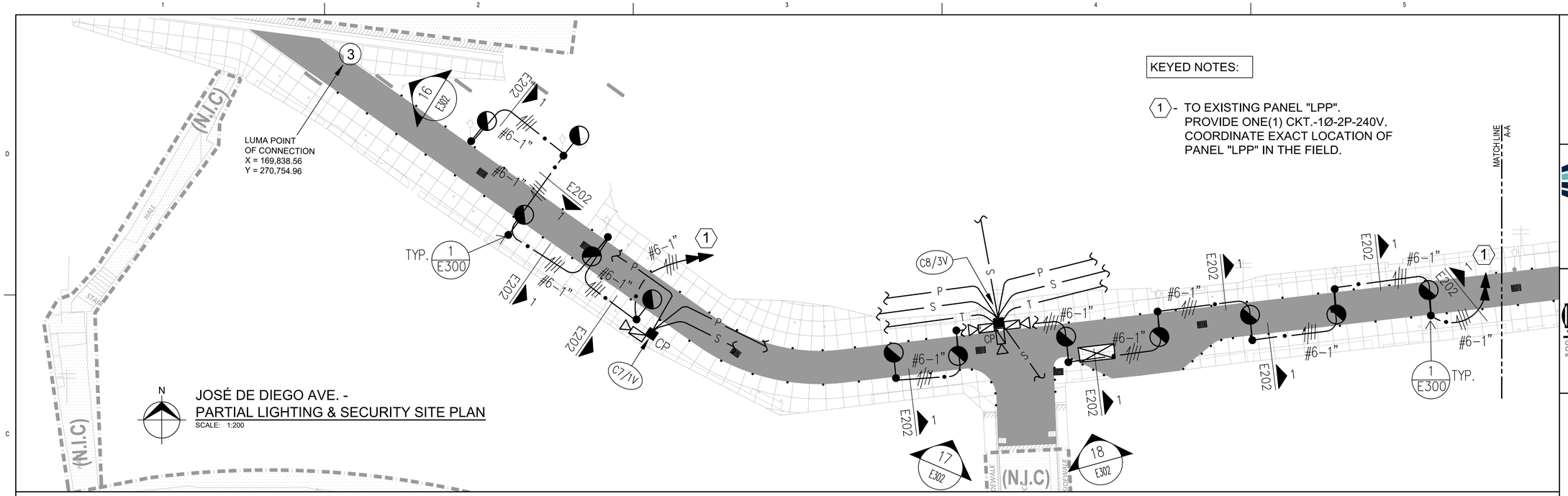
SHEET TITLE

ANTONIO ROMERO ST, - PARTIAL SECURITY SITE PLAN

SHEET ID

E201

8/27/2025 10:05:49 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\00 revision 08.2025\E200.dwg

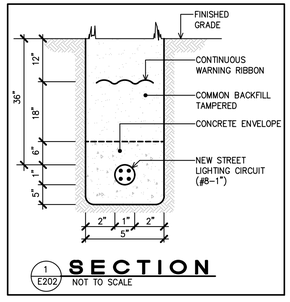


KEYED NOTES:

1 - TO EXISTING PANEL "LPP". PROVIDE ONE(1) CKT.-1Ø-2P-240V. COORDINATE EXACT LOCATION OF PANEL "LPP" IN THE FIELD.

N

JOSÉ DE DIEGO AVE. -
PARTIAL LIGHTING & SECURITY SITE PLAN
SCALE: 1:200



1 E202 SECTION NOT TO SCALE

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. RE-USE EXISTING CONDUITS AS MUCH AS POSSIBLE. PROVIDE NEW WIRING.
3. ALL "CCTV" SYSTEM CAMERAS WILL BE WIRELESS. SELF ANTENNA FOR DATA TRANSMISSION. SPECS AND FINAL DETAILS SHALL BE BY OTHER.

N

JOSÉ DE DIEGO AVE. -
PARTIAL LIGHTING & SECURITY SITE PLAN
SCALE: 1:200

N

JOSÉ DE DIEGO AVE. -
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PROVOCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% Revised DESIGN DWGS.	02/27/25
6	100% Revised DESIGN DWGS.	09/03/25

DATE ISSUED: 08/27/25
REVIEWED BY: RJR
DRAWN BY: LAPD
DESIGNED BY: LAPD
BRA PROJECT NUMBER: 24-09

SHEET TITLE

JOSÉ DE DIEGO AVE.
- PARTIAL LIGHTING & SECURITY SITE PLAN

SHEET ID

E202

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1988, según enmendada, concesta como Ley de Certificación de Planos de Construcción, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los estándares, reglas, y regulaciones aprobados por el Autoridad de Energía Eléctrica de Puerto Rico, LUMA Energy y el Manual de Práctica Profesional del CIAPR.(In compliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CIAPR Professional Practice Manual.
2. En armonia con las disposiciones de la Ley Núm. 135 de 15 de junio de 1967, según enmendada, conocida como Ley de Certificación de Planos de Construcción, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los estándares, reglas, y regulaciones aprobados por la Autoridad de Energía Eléctrica de Puerto Rico, LUMA Energy y el Manual de Práctica Profesional del CIAPR.(In compliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CIAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

NEGOCIADO DE TELECOMUNICACIONES DE PUERTO RICO

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX
NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

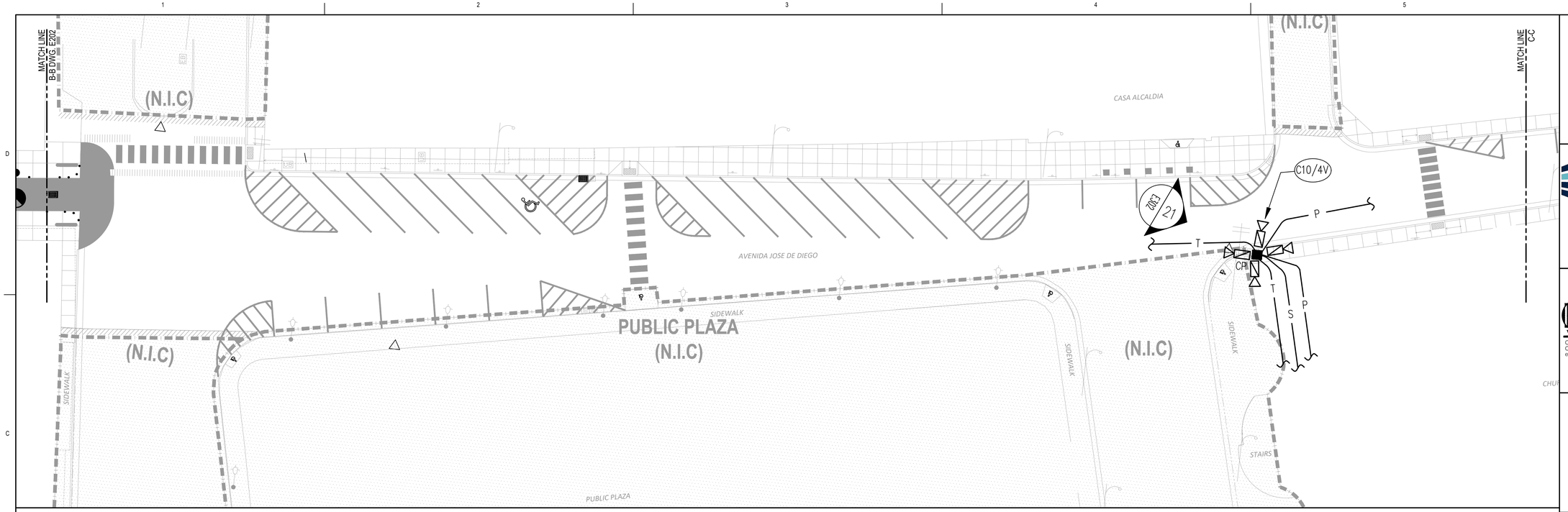
ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO
Número de Proyecto / Project Number : 24-5-1309
Carga / Load: (KVA) : 15KVA Revisión / Revision : _____

ENDOSADO POR / ENDORSED BY

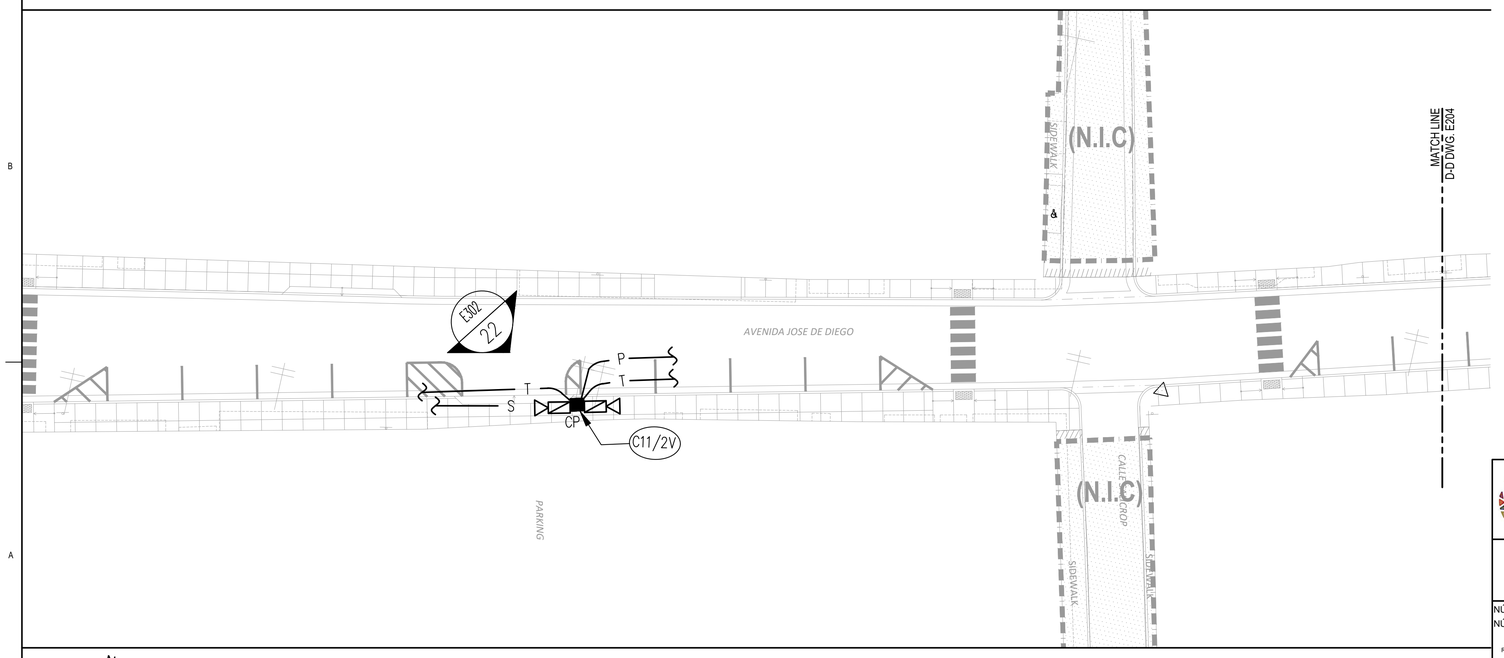
1. LUMA endosa el diseño electrico mostrado en estos planos de construcción basandose en la certificación sometida por el diseñador en cumplimiento con la Ley Núm 135 del 15 de junio de 1967, según enmendada. (LUMA endorses the electrical design shown on these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no relieva al diseñador de la responsabilidad profesional que asume al certificar estos planos. este endoso no relieva al constructor ni al inspector de obra privado de cumplir con las disposiciones del Código Electrico Nacional, Código Electrico Nacional de Seguridad, códigos, patrones, normas y reglamentos vigentes de LUMA y de otras agencias de gobierno, así como leyes federales y estatales.

   LUMA endorses the electrical design certified. The endorsement by LUMA does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from National Electric Code, National Electric Safety Code, construction standards, norms, and regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins.
3. El presente endoso tiene vigencia de un (1) año. De iniciar las obras electricas dentro de este termino, mediando supervisión de LUMA, el endoso será válido hasta la terminación de las mismas. De no iniciarse las obras, el diseñador debe certificar otra electrica en ese periodo, este endoso perdera su vigencia. Este endoso no es para constituir aerodumbre ni para completar proceso de Cesión, Traspaso y Garantía del equipo. Para esto es necesario cumplir con todo lo dispuesto en el Reglamento para la Cesión, Traspaso y Garantía de Equipo Eléctrico de la AEE. (This endorsement is valid for one(1) year. If electrical works have begun during this year, with prior notification to LUMA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. This endorsement in not to constitute an easement or to complete the Assignments, Transfer and Guarantee process of the equipment. For this, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority(PREPA).



N

JOSÉ DE DIEGO AVE -
PARTIAL SECURITY SITE PLAN
SCALE: 1:200



N

JOSÉ DE DIEGO AVE -
PARTIAL SECURITY SITE PLAN
SCALE: 1:200

2 0 5 10 15m

SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. ALL "CCTV" SYSTEM CAMERAS WILL BE WIRELESS. SELF ANTENNA FOR DATA TRANSMISSION, SPECS AND FINAL DETAILS SHALL BE BY OTHER.

NEGOCIADO DE TELECOMUNICACIONES DE PUERTO RICO

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX
NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1988, según enmendada y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that I am a licensed and registered engineer, surveyor, or architect(in compliance with Act 173 of 1988, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.
2. En armonía con las disposiciones de la Ley Núm. 135 de 15 de junio de 1967, según enmendada, conocida como Ley de Certificación de Planos de Construcción, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los Criterios de Diseño y Estándares de Construcción de LUMA Energy, el Reglamento Único de Solicitud de Concesión de Permisos, LUMA Energy y el Manual de Práctica Profesional del CAPR/ In compliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO
Número de Proyecto / Project Number : 24-5-1369
Carga / Load: (KVA) - 15KVA Revisión / Revision : _____

ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño electrico mostrado en estos planos de construcción basandose en la certificación sometida por el diseñador en cumplimiento con la Ley Núm 135 de 15 de junio de 1967, segun enmendada. / LUMA endorses the electrical design shown in these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no relieva al diseñador de la responsabilidad profesional que asume al certificar estos planos, este endoso no relieva al constructor o al dueño/ de obra por omisión de cumplir con las disposiciones del Código Eléctrico Nacional, Código Electrico Nacional de Seguridad, código, normas, y regulaciones de construcción aplicables de LUMA y de otras agencias gubernamentales federales y estatales locales vigentes al inicio de las obras. / LUMA does not assume responsibility over the certified design. LUMA's endorsement does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement does not relieve the owner/ developer or contractor from complying with the requirements from : National Electric Code, National Electric Safety Code, construction standards, norms, and regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins.
3. El presente endoso tiene vigencia de un (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso que no se certifique obra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbres ni para completar proceso de Cesión, Traspaso y Garantía del equipo. Para esto es necesario cumplir con todo lo dispuesto en el Reglamento de Regulación para el Sistema Eléctrico de Potencia de la AEE. / This endorsement is valid for one(1) year. If electrical works have begun during this year, with prior notification to LUMA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. This endorsement in not to constitute an easement or to complete the Assignments, Transfer and Guarantee process of the equipment. For this, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority (AEE, in Spanish).

OWNER
Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT
BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT
RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% Revised DESIGN DWGS.	02/27/25
6	100% Revised DESIGN DWGS.	09/03/25

DATE ISSUED:	08/27/25
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

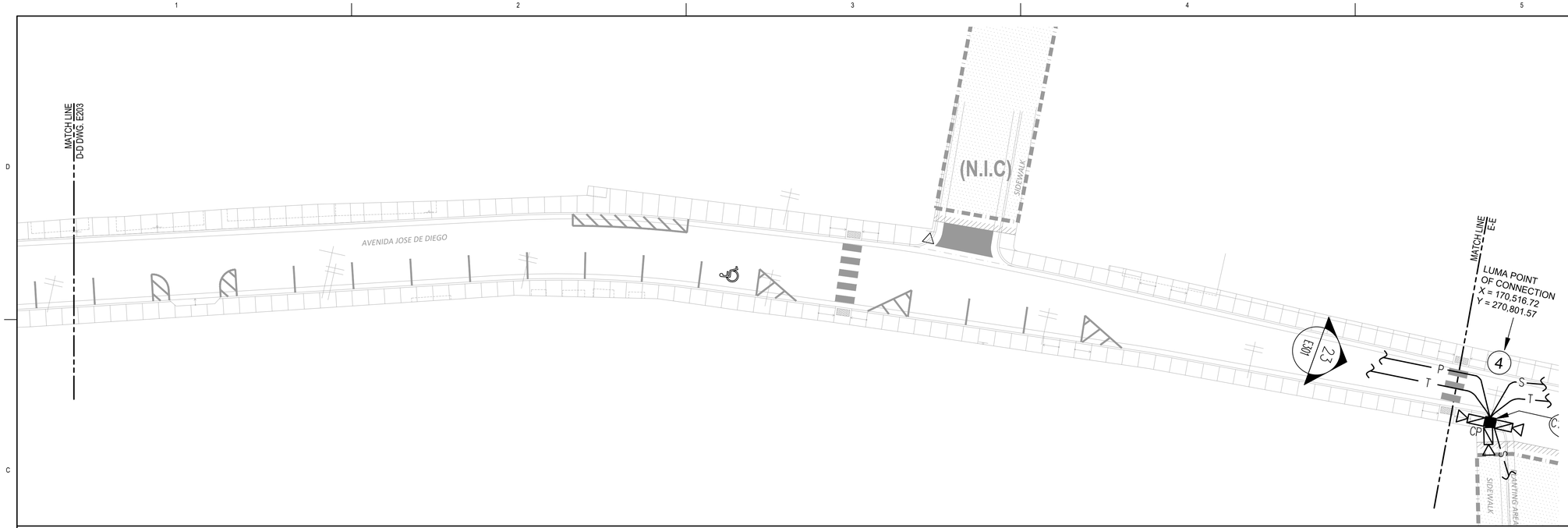
SHEET TITLE

JOSÉ DE DIEGO AVE.
- PARTIAL SECURITY SITE PLAN

SHEET ID

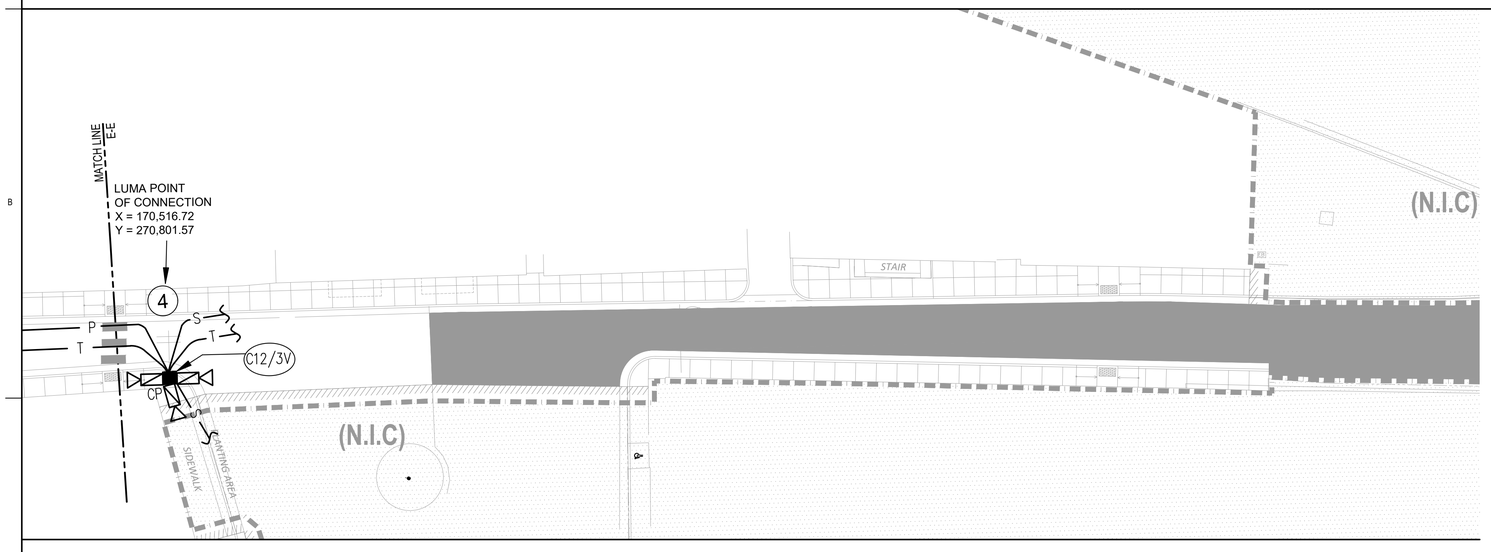
E203

8/27/2025 10:06:22 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR\24-09 CALLES\00 revision 08.2025\E202-3-4.dwg



N

JOSÉ DE DIEGO AVE -
PARTIAL SECURITY SITE PLAN
SCALE: 1:200



N

JOSÉ DE DIEGO AVE -
PARTIAL SECURITY SITE PLAN
SCALE: 1:200

2 0 5 10 15m

SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. ALL "CCTV" SYSTEM CAMERAS WILL BE WIRELESS, SELF ANTENNA FOR DATA TRANSMISSION, SPECS AND FINAL DETAILS SHALL BE BY OTHER.

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX
NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1988, según enmendada y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that I am a licensed and registered engineer, surveyor, or architectin compliance with Act 173 of 1988, as amended) and authorized by the project or land owner to submit these plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.
2. En armonía con las disposiciones de la Ley Núm. 135 de 15 de junio de 1967, según enmendada, conocida como Ley de Certificación de Planos de Construcción, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los códigos, patrones, normas y reglamentos aprobados por la AEE, la Junta de Planificación y la Oficina de Gerencia de Permisos, LUMA Energy y el Manual de Práctica Profesional del CIAPR./ In compliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, patterns, norms, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CIAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO
Número de Proyecto / Project Number : 24-5-1369
Carga / Load: (KVA) : 15KVA Revisión / Revision :

ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño electrico mostrado en estos planos de construcción basandose en la certificación sometida por el diseñador en cumplimiento con la Ley Núm 135 del 15 de junio de 1967, segun enmendada. / LUMA endorses the electrical design shown in these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no releva al diseñador de la responsabilidad asumida con la certificación de estos planos. El diseño electrico certificado debe ser preparado y sometido por un profesional debidamente autorizado para ejercer en Puerto Rico y debe cumplir con las disposiciones del Codigo Electrico Nacional, Codigo Electrico Nacional de Seguridad, codigos, patrones, normas y reglamentos vigentes de LUMA y de otras agencias de gobierno, asi como leyes federales y estatales, vigentes al inicio de las obras. / LUMA does not assume responsibility over the certified design. LUMA's endorsement does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This certified electrical design shall be prepared by a duly authorized professional to practice in Puerto Rico and shall comply with the Electric Code, National Electric Safety Code, construction standards, norms, and regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins.
3. El presente endoso tiene vigencia de un (1) año. De iniciar las obras electricas dentro de este termino, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso que no se inicien las obras dentro de este término, el diseñador deberá someter de nuevo los planos para endoso, incluyendo el pago para completar proceso de Cesión, Traspaso y Garantía del equipo. Para esto es necesario cumplir con todo lo dispuesto en el Reglamento de Servidumbres para la Autoridad de Energía Electrica(7282 de 2007). / This endorsement is valid for one(1) year. If electrical works have begun during this year, with prior notification to LUMA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. The designer must submit the plans for endorsement for to complete the Assignments, Transfer and Guarantee process of the equipment. For this, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority(7282 of 1987).

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% Revised DESIGN DWGS.	02/27/25
6	100% Revised DESIGN DWGS.	09/03/25

DATE ISSUED:	08/27/25
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

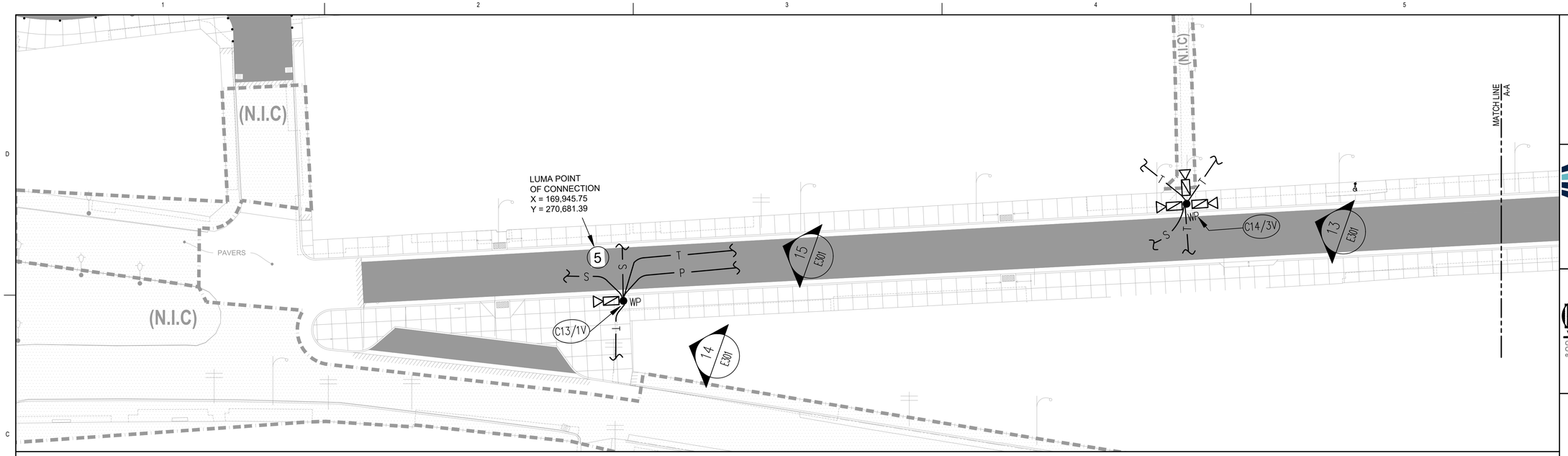
SHEET TITLE

JOSÉ DE DIEGO AVE.-
PARTIAL SECURITY
SITE PLAN

SHEET ID

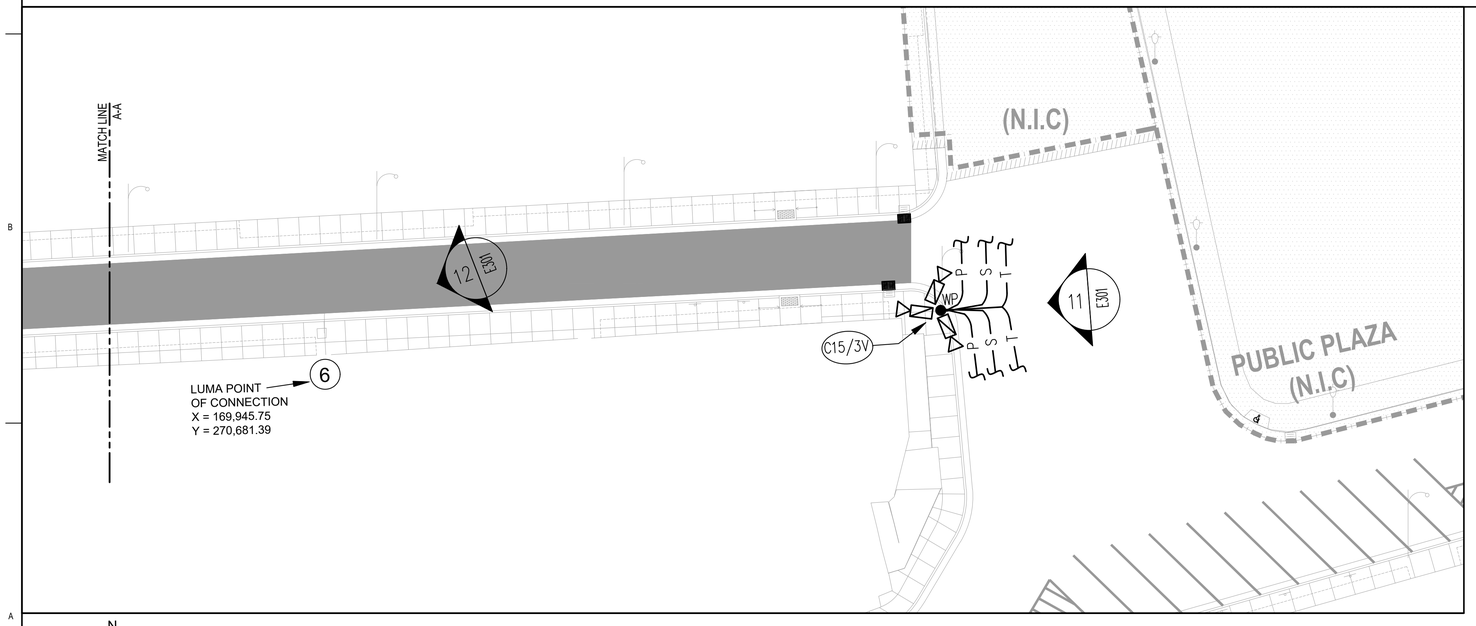
E204

8/27/2025 10:06:33 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\03 revision 08.2025\E202-3-4.dwg



N

RAMÓN E. BETANCES ST.
PARTIAL SECURITY SITE PLAN
SCALE: 1:200



N

RAMÓN E. BETANCES ST.
PARTIAL SECURITY SITE PLAN
SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. ALL "CCTV" SYSTEM CAMERAS WILL BE WIRELESS. SELF ANTENNA FOR DATA TRANSMISSION, SPECS AND FINAL DETAILS SHALL BE BY OTHER.

2 0 5 10 15m

SCALE: 1:200

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX
NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1968, según enmendada y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that I am a licensed and registered engineer, surveyor, or architect(in compliance with Act 173 of 1968, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.
2. En armonía con las disposiciones de la Ley Núm. 135 de 15 de junio de 1967, según enmendada, conocida como Ley de Certificación de Planos de Construcción, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los códigos, patrones, normas y reglamentos aprobados por la AEE, la Junta de Planificación y la Oficina de Gerencia de Permisos (OGPe). / In accordance with the provisions of Law Number 135 of June 15, 1967, known as Act 135 of 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO
Número de Proyecto / Project Number : 24-5-1389
Carga / Load: (KVA) : 15KVA Revisión / Revision :

ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño eléctrico mostrado en estos planos de construcción basándose en la certificación sometida por el diseñador eléctrico bajo la Ley Núm. 135 de 15 de junio de 1967, según enmendada. / LUMA endorses the electrical design shown in these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no relieva al diseñador de la responsabilidad profesional que asume al certificar estos planos. este endoso no relieva al constructor ni al inspector de obra privado de cumplir con las disposiciones del Código Eléctrico Nacional, Código Eléctrico Nacional de Seguridad, códigos, patrones, normas y reglamentos vigentes de LUMA y de otras agencias de gobierno, así como leyes federales y estatales, que apliquen a la obra. / LUMA does not assume responsibility for the design certified. LUMA's endorsement does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from : National Electrical Code, National Electrical Safety Code, LUMA standards, codes, patterns, norms and regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction is executed.
3. El presente endoso tiene vigencia de un (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso que no se certifique obra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbre ni para completar proceso de Cesión, Traspaso y Garantía del equipo. Para esto es necesario cumplir con todo lo dispuesto en el Reglamento de Servidumbres para la Autoridad de Energía Eléctrica(7282 de 2007). / This endorsement is valid for one (1) year. If electrical work begins within this term, and notification is given to LUMA, the endorsement will remain in effect until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. This endorsement in not to constitute an easement or to complete the Assignments, Transfer and Guarantee process of the equipment. For this, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority(7282 of 1947).

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 ; SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 197B, SEGÚN ENMENDADA; SEGÚN APLIQUE) RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% Revised DESIGN DWGS.	02/27/25
6	100% Revised DESIGN DWGS.	09/03/25

DATE ISSUED:	08/27/25
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

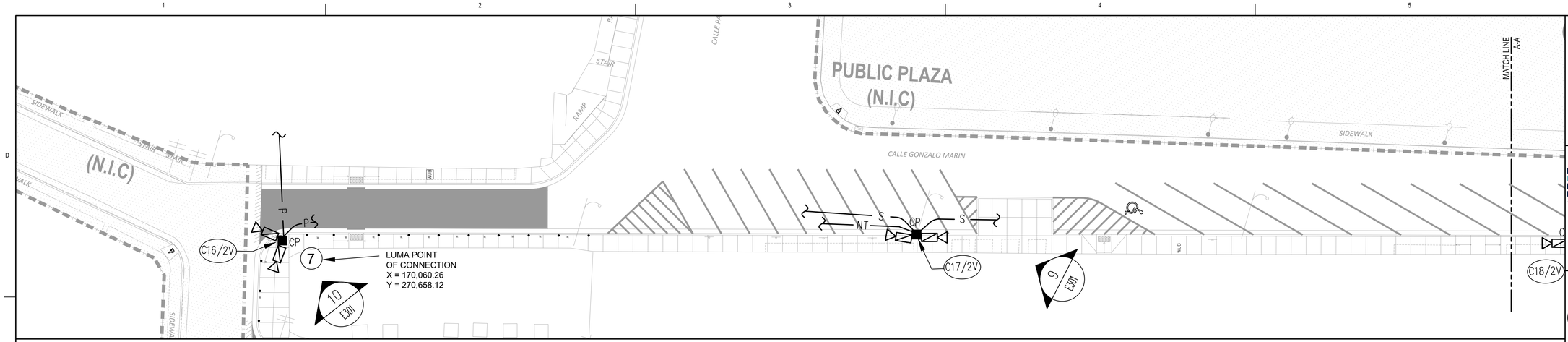
SHEET TITLE

RAMÓN E. BETANCES ST. - PARTIAL SECURITY SITE PLAN

SHEET ID

E205

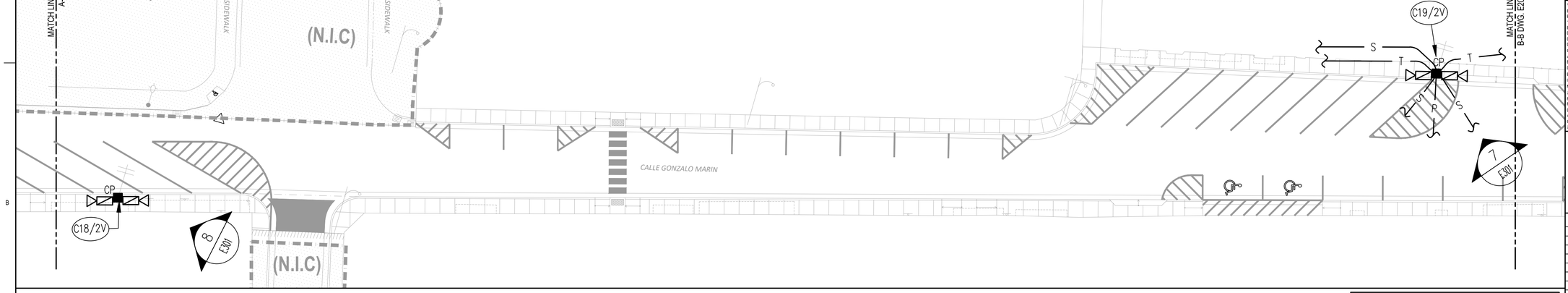
8/27/2025 10:06:56 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\00 revision 08.2025\E205.dwg



N

GONZALÓ MARÍN ST. -
PARTIAL SECURITY SITE PLAN

SCALE: 1:200



N

GONZALÓ MARÍN ST. -
PARTIAL SECURITY SITE PLAN

SCALE: 1:200

2 0 5 10 15m

SCALE: 1:200

NOTES:

1. **FOR LEGENDS AND NOTES, SEE DWG. E300.**
2. **ALL "CCTV" SYSTEM CAMERAS WILL BE WIRELESS. SELF ANTENNA FOR DATA TRANSMISSION, SPECS AND FINAL DETAILS SHALL BE BY OTHER.**

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1988, según enmendada y exijo autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. I certify that I am a licensed and registered engineer, surveyor, or architectin compliance with Act 173 of 1988, as amended and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.
2. En armonía con las disposiciones de la Ley Núm. 130 de 15 de junio de 1967, según enmendada, conocida como Ley de Certificación de Planos de Construcción, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los códigos, patrones, normas y reglamentos aprobados por la AEE, la Junta de Planificación y la Oficina de Gerencia de Permisos (OGPe). In accordance with the provisions of Law Number 130 of June 15, 1967, as amended, known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CAIFR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

NEGOCIADO DE TELECOMUNICACIONES DE PUERTO RICO

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX

NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO

Número de Proyecto / Project Number : 24-5-1369

Carga / Load: (KVA) : 15KVA Revisión / Revision :

ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño eléctrico mostrado en estos planos de construcción basándose en la certificación sometida por el diseñador electricista profesional que asume la responsabilidad del diseño certificado. LUMA endorses the electrical design shown in these construction plans based on the certification presented by the designer in compliance with Act 130 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no relieva al diseñador de la responsabilidad profesional que asume al certificar estos planos, este endoso no relieva al constructor ni al inspector de obra privado de responsabilidad alguna requerida por ley. LUMA no asume responsabilidad por el cumplimiento de códigos, patrones, normas y reglamentos vigentes de LUMA y de otras agencias de gobierno, así como leyes federales y estatales, vigentes al inicio de las obras. / LUMA does not assume responsibility over the certified design. LUMA's endorsement does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from : National Electric Code, LUMA and other codes, standards, rules and regulations in force, as well as regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins.
3. El presente endoso tiene vigencia de un (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso que no se certifique obra eléctrica en ese periodo, este endoso perdera su vigencia. Este endoso no es para constituir servidumbre ni para completar proceso de Cesión, Traspaso y Garantía del equipo. Para esto es necesario cumplir con todo lo dispuesto en el Reglamento de Servidumbres para la Autoridad de Energía Eléctrica(7282 de 2007). / This endorsement is valid for one (1) year. If electrical work begins within this period, and upon prior notification to LUMA, the endorsement will remain valid until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. This endorsement in not to constitute an easement or to complete the Assignments, Transfer and Guarantee process of the equipment. For this, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority(7282 of 2007).

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUEN. RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% Revised DESIGN DWGS.	02/27/25
6	100% Revised DESIGN DWGS.	09/03/25

DATE ISSUED:	08/27/25
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

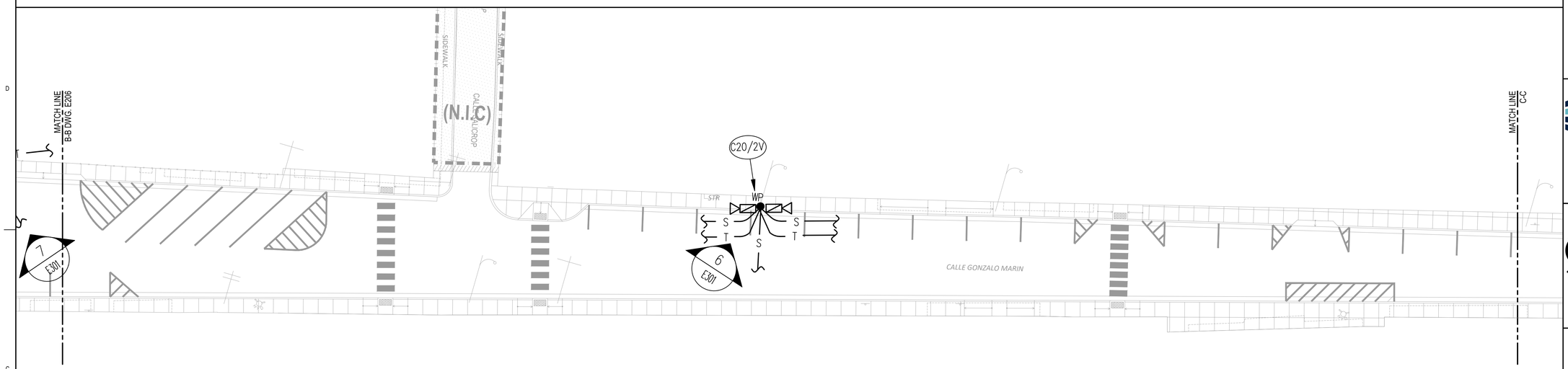
SHEET TITLE

GONZALÓ MARIN ST. -
PARTIAL SECURITY
SITE PLAN

SHEET ID

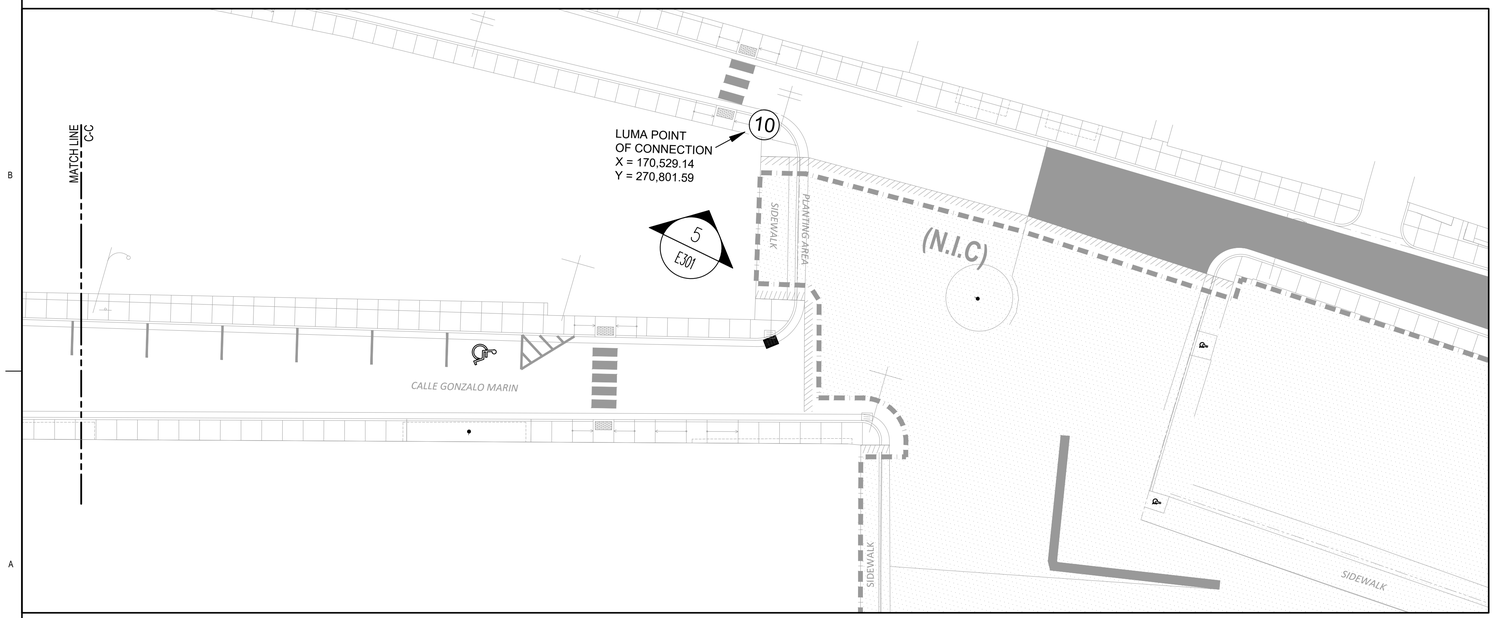
E206

8/27/2025 10:07:32 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\00 revision 08.2025\E206-7.dwg



N

GONZALÓ MARÍN ST. -
PARTIAL SECURITY SITE PLAN
SCALE: 1:200



N

GONZALÓ MARÍN ST. -
PARTIAL SECURITY SITE PLAN
SCALE: 1:200

2 0 5 10 15m

SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. ALL "CCTV" SYSTEM CAMERAS WILL BE WIRELESS. SELF ANTENNA FOR DATA TRANSMISSION, SPECS AND FINAL DETAILS SHALL BE BY OTHER.

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX
NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y obligado en cumplimiento con la Ley 173 de 1988, según enmendada y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that I am a licensed and registered engineer, surveyor, or architectOn compliance with Act 173 of 1988, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.
2. En armonía con las disposiciones de la Ley Núm. 135 de 15 de junio de 1967, según enmendada, conocida cómo Ley de Certificación de Planos de Construcción, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los Requisitos de Instalación Eléctrica establecidos por LUMA Energy, LLC y NEPR-MP-0002, Manual de Practica Profesional de Permisos, LUMA Energy y el Manual de Práctica Porfesional del CIAPR) / In compliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CIAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO
Número de Proyecto / Project Number : 24-5-1369
Carga / Load: (KVA) : 15KVA Revisión / Revision : _____

ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño eléctrico mostrado en estos planos de construcción basandose en la certificación sometida por el diseñador en cumplimiento con la Ley Núm 135 del 15 de junio de 1967, segun enmendada. / LUMA endorses the electrical design shown in these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no releva al diseñador de la responsabilidad profesional que asume al certificar estos planos, este endoso no releva al inspector de obra, persona de cumplir con las disposiciones del Código Eléctrico Nacional, Código Eléctrico Nacional de Seguridad, código, normas, y reglamentos de construcción de LUMA y cualquier otro gobierno agencias así como federal y estatal leyes vigentes al inicio de las obras. / LUMA does not assume responsibility over the certified design. LUMA's endorsement does not relieve the designer from the professional responsibility assumed with the certification of these prjoect's plans. This endorsement does not relieve the work inspector, person of compliance with the provisions of the National Electric Code, National Electric Safety Code, construction standards, norms, and regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins.
3. El presente endoso tiene vigencia de un (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso que no se certifique obra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbres ni para completar proceso de Cesión, Traspaso y Garantía del equipo. Para esto es necesario cumplir con todo lo dispuesto en el Reglamento de Cesión, Traspaso y Garantía de Equipo de la AEE. / This endorsement is valid for a period of one(1) year. If electrical works have begun during this year, with prior notification to LUMA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. This endorsement in not to constitute an easement or to complete the Assignments, Transfer and Guarantee process of the equipment. For this, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority (AEE) of 1970.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% Revised DESIGN DWGS.	02/27/25
6	100% Revised DESIGN DWGS.	09/03/25

DATE ISSUED:	08/27/25
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

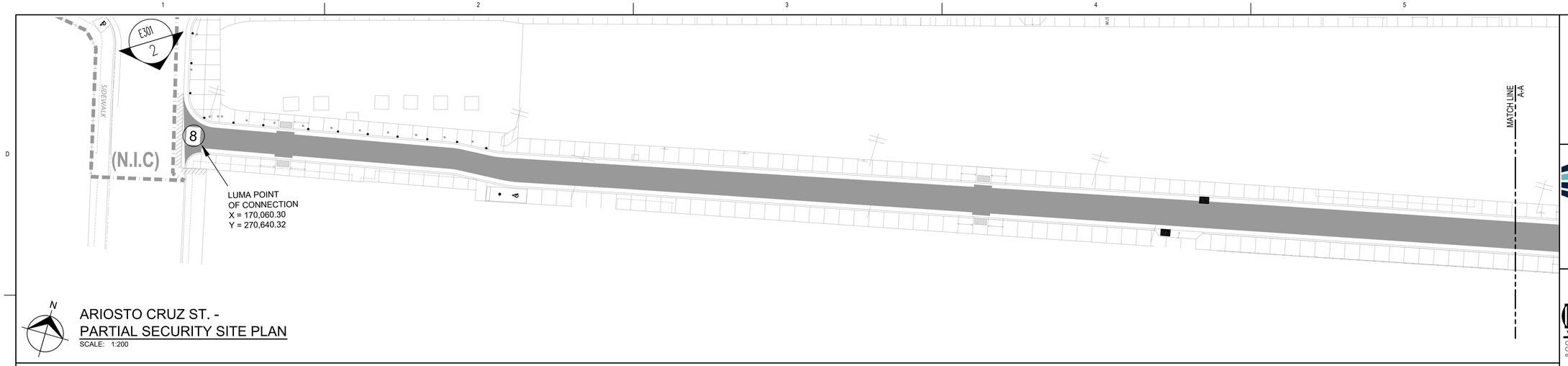
SHEET TITLE

GONZALÓ MARIN ST. -
PARTIAL SECURITY
SITE PLAN

SHEET ID

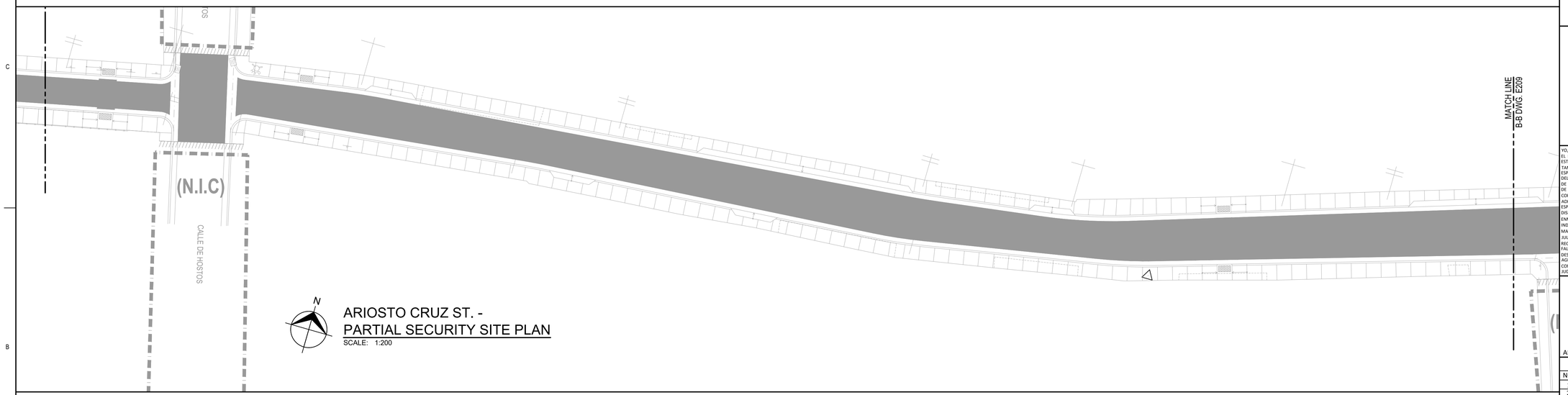
E207

8/27/2025 10:07:17 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR\24-09 CALLES\00 revision 08.2025\E206-7.dwg



N

ARIOSTO CRUZ ST. -
PARTIAL SECURITY SITE PLAN
SCALE: 1:200



N

ARIOSTO CRUZ ST. -
PARTIAL SECURITY SITE PLAN
SCALE: 1:200

2 0 5 10 15m

SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. ALL "CCTV" SYSTEM CAMERAS WILL BE WIRELESS. SELF ANTENNA FOR DATA TRANSMISSION, SPECS AND FINAL DETAILS SHALL BE BY OTHER.

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX
NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1988, según enmendada y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. I I certify that I am a licensed and registered engineer, surveyor, or architectin compliance with Act 173 of 1988, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.
2. En armonia con las disposiones de la Ley Núm. 135 de 15 de junio de 1967, segun enmendada, conocida como Ley de Certificación de Planos de Construcción, certifico que preparé el diseño electrico de este proyecto en conformidad con las normas aplicables de construcción aprobadas por la OGPe y el Manual de Práctica Profesional del CAPR. In the State of Puerto Rico and its Territorial Waters, LUMA Energy y el Manual de Práctica Profesional del CAPR) In compliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO
Número de Proyecto / Project Number : 24-5-1369
Carga / Load: (KVA) : 15KVA Revisión / Revision :

ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño electrico mostrado en estos planos de construcción basandose en la certificación sometida por el diseñador en cumplimiento con la Ley Núm 135 del 15 de junio de 1967, segun enmendada. I LUMA endorses the electrical design shown in these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no relieva al diseñador de la responsabilidad profesional que asume al momento de certificar los planos de construcción. El diseñador es el responsable de cumplir con todas las disposiciones del Código Eléctrico Nacional, Código Eléctrico Nacional de Seguridad, códigos, estándares de compañías, reglamentos de LUMA y de otras agencias. Código Eléctrico Nacional de Seguridad, códigos, reglas y regulaciones vigentes de LUMA y de otras agencias gubernamentales y federales y todas las ordenanzas municipales vigentes al inicio de las obras. I LUMA does not assume responsibility over the certified design. LUMA's endorsement does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement is not to be construed as an assurance or guarantee that the design complies with the National Electrical Code, National Electric Safety Code, construction standards, norms, and regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins.
3. El presente endoso tiene vigencia de un (1) año. De iniciar las obras electricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso que no se certifique obra electrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbre ni para completar proceso de Cesión, Traspaso y Garantía del equipo. Para esto es necesario cumplir con todo lo dispuesto en el Reglamento Conjunto de Permisos para Obras de Construcción vigente. I This endorsement is valid for a period of one(1) year. If electrical works have begun during this year, with prior notification to LUMA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. This endorsement in not to constitute an easement or to complete the Assignments, Transfer and Guarantee process of the equipment. For this, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority(PREPA) and

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCION. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% Revised DESIGN DWGS.	02/27/25
6	100% Revised DESIGN DWGS.	09/03/25

DATE ISSUED:	08/27/25
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

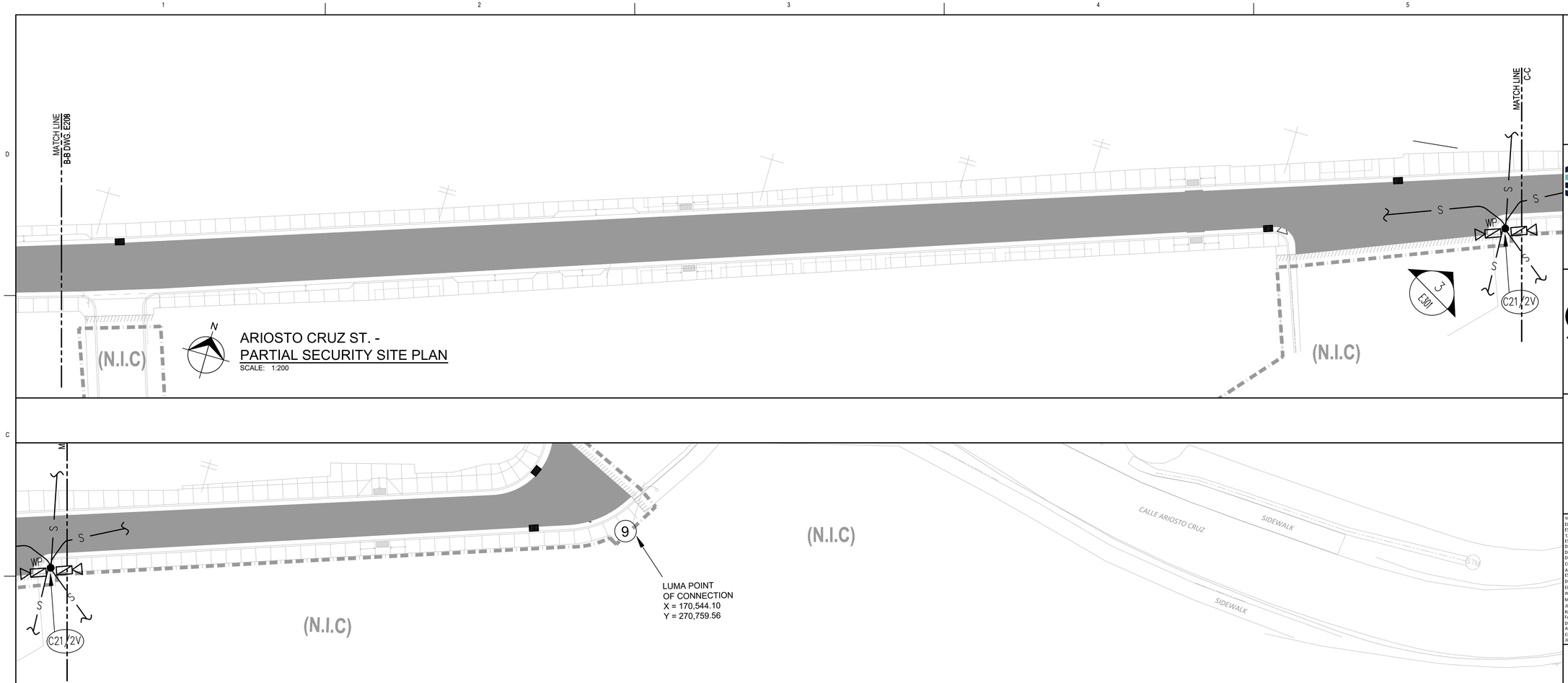
SHEET TITLE

ARIOSTO CRUZ ST. -
PARTIAL SECURITY
SITE PLAN

SHEET ID

E208

8/27/2025 10:08:00 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\00 revision 08.2025\E208-9.dwg



ARIOSTO CRUZ ST. -
PARTIAL SECURITY SITE PLAN
SCALE: 1:200

2 0 5 10 15m

SCALE: 1:200

NOTES:

1. **FOR LEGENDS AND NOTES, SEE DWG. E300.**
2. **ALL "CCTV" SYSTEM CAMERAS WILL BE WIRELESS. SELF ANTENNA FOR DATA TRANSMISSION, SPECS AND FINAL DETAILS SHALL BE BY OTHER.**

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1988, según enmendada y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that I am a licensed and registered professional in accordance with Act No. 173 of 1988, as amended, and I am authorized by the owner of the project to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.
2. En armonía con las disposiciones de la Ley Núm. 135 de 15 de junio de 1967, según enmendada, conocida como Ley de Certificaciones de Planos y Proyectos de Construcción Ante el Gobierno, estos planos de sistema eléctrico de alto voltaje propuestos cumplen con los códigos, patrones, normas y reglamentos aprobados por la AEE, la Junta de Planificación y la Oficina de Gerencia de Permisos, LUMA Energy y el Manual de Práctica Profesional del CIAPR./ In compliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CIAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

NEGOCIADO DE TELECOMUNICACIONES DE PUERTO RICO

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX

NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO

Número de Proyecto / Project Number : 24-5-1369

Carga / Load: (KVA) : 15KVA Revisión / Revision : _____

ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño eléctrico mostrado en estos planos de construcción basandose en la certificación sometida por el diseñador en cumplimiento con la Ley Núm 135 del 15 de junio de 1967, según enmendada. / LUMA endorses the electrical design shown in these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. Esta endosando la responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no relieva al diseñador de la responsabilidad profesional que asume al certificar estos planos, este endoso no relieva al constructor ni al inspector de obra privado de cumplir con las disposiciones del Código Eléctrico Nacional, Código Eléctrico Nacional de Seguridad, códigos, patrones, normas y reglamentos vigentes de LUMA y de otras agencias de gobierno, así como leyes federales y estatales, vigentes al inicio de las obras. / LUMA does not assume responsibility over the certified design; LUMA's endorsement does not relieve the designer of the professional responsibility assumed when certifying these plans, this endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from : National Electric Code, National Electric Safety Code; construction standards, norms, and regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins.
3. El presente endoso tiene vigencia de un (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso que no se certifique obra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbre ni para cumplir con los Asignamientos, Traspaso y Garantías de Servidumbres del Reglamento de Servidumbres de la Autoridad de Energía Eléctrica(12SE de 2007). / This endorsement is valid for one(1) year. If electrical works have begun during this year, with prior notification to LUMA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. This endorsement is not to constitute an easement or to complete the Assignments, Transfer and Guarantee process of the Easements Rules. It is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority(12SE of 1997).

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% Revised DESIGN DWGS.	02/27/25
6	100% Revised DESIGN DWGS.	09/03/25

DATE ISSUED:	08/27/25
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

SHEET TITLE

ARIOSTO CRUZ ST. -
PARTIAL SECURITY
SITE PLAN

SHEET ID

E209

8/27/2025 10:08:15 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\00 revision 08.2025\E208-9.dwg

1 GENERAL NOTES:

1 - UNLESS OTHERWISE INDICATED ALL WIRES AND CABLES SHALL BE #12-AWG. UNLESS OTHERWISE INDICATED ALL WIRES AND CABLES SHALL BE COPPER, UP TO #10-AWG USE WIRE, ALL LARGES SIZES SHALL BE CABLE. CONTROL CABLES TO BE #14 AWG MIN. SIZES.

2 - ALL WIRES AND CABLES SHALL BE THWN/THHN-600V. INSULATION.

3 - UNLESS OTHERWISE INDICATED ALL WIRES AND CABLES SHALL BE COPPER.

4 - PROVIDE GROUND WIRE IN ALL THE CONDUITS.

5 - PROVIDE #12-AWG GREEN JUMPER BETWEEN RECEPTACLE GROUNDING SCREW AND OUTLET BOX GROUNDING SCREW.

6 - UNLESS OTHERWISE INDICATED ALL CONDUITS SHALL BE 3/4" IN DIAMETER MINIMUM.

7 - PROVIDE AN EXPANSION JOINT COUPLING OF THE REQUIRED TYPE AND SIZE WHENEVER A CONDUIT CROSSES AN EXPANSION JOINT.

8 - CONTRACTOR MUST MAKE SURE THAT THE ENTIRE ELECTRICAL SYSTEM HAS GROUND CONTINUITY.

9 - ALL THE ELECTRICAL INSTALLATION SHALL BE DONE IN A NEAT & WORKMANLIKE MANNER, ACCORDING TO THE LAST EDITION OF THE NATIONAL ELECTRICAL CODE, LUMA ENERGY LATEST STANDARDS & "NEGOCIADO DE TELECOMMUNICACIONES DE PR" (NETPR) LATEST PRACTICES.

10 - THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME ACQUAINTED WITH THE EXISTING FIELD CONDITIONS. IT SHALL BE THE DIRECT RESPONSIBILITY OF THE CONTRACTOR TO BRING PROMPTLY TO THE ATTENTION OF THE ENGINEER ANY DISCREPANCIES BETWEEN THE EXISTING FIELD CONDITIONS AND THOSE THAT WERE USED FOR DESIGN PURPOSES. THIS SHALL BE DONE BEFORE THE CONTRACTOR SUBMITS HIS BID, SO THAT THE ENGINEER CAN RENDER A DECISION ON THE MATTER BEFORE THE BIDS ARE RECEIVED. THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTAND THROUGHLY AND COMPLETELY THE SCOPE OF THE WORK INVOLVED, HAS FAMILIARIZED HIMSELF WITH THE EXISTING FIELD CONDITIONS, AND HAS INCLUDED IN HIS BID ALL THE ITEMS NECESSARY TO PERFORM THE ELECTRICAL WORK. NO ALLOWANCE WILL BE PERMITTED ON THIS MATTER AFTER THE BIDS ARE RECEIVED.

11 - UNLESS OTHERWISE INDICATED ALL OUTLETS SHALL BE FLUSH MOUNTED AND SHALL HAVE THEIR OWN INDEPENDENT OUTLET BOXES. MINIMUM SIZE OF OUTLET BOX TO BE 4" SQUARE & 1-1/2" DEEP, EXACT SIZE OF OUTLET BOX SHALL BE DETERMINED ACCORDING TO THE MAXIMUM NUMBER OF CONDUCTORS IN THE BOX PER N.E.C. ARTICLE 314.16.

12 - ALL INDICATED HEIGHTS ARE FROM CENTER OF BOX TO FINISHED FLOOR.

13 - CONTRACTOR SHALL BALANCE ALL LOADS.

14 - ROUTE OF ALL CONDUITS SHOWN IN THE DRAWINGS IS SCHEMATIC AND INTENDED ONLY TO INDICATE INTERCONNECTIONS BETWEEN OUTLETS. EXACT CONDUIT ROUTING SHALL BE DETERMINED AT THE JOB SITE TO CONFORM WITH THE STRUCTURAL CONDITIONS AND SHALL BE SUBJECT TO THE FINAL APPROVAL OF THE ARCHITECT/ENGINEER.

15 - LEAVE A #12-AWG-TW FISHWIRE IN ALL EMPTY CONDUITS.

16 - ALL PANELBOARDS AND LOAD CENTERS SHALL BE PROVIDED WITH A FACTORY INSTALLED GROUND BUS FOR CONNECTING TO GROUND ALL THE GROUND WIRES OR CABLES ENTERING OR LEAVING THE PANELBOARD, THE GROUND BUS SHALL BE SIMILAR IN SIZE AND CHARACTERISTICS TO THE NEUTRAL BUS. ALL PANELBOARDS SHALL HAVE A MONOFLAT FRONT AND KEY LOCK.

17 - WHEN TWO OR MORE WIRING DEVICES ARE SHOWN TOGETHER IN ADJACENT POSITIONS AND AT THE SAME HEIGHT, THEY SHALL BE INSTALLED IN A MULTIPLE GANG OUTLET BOX OF THE PROPER SIZE SO THAT ONLY ONE RAISED COVER PLATE OF THE REQUIRED TYPE AND SIZE ARE USED. 120V AND 277V OUTLETS SHALL BE INSTALLED ON SEPARATE BOXES.

18 - UNLESS OTHERWISE INDICATED, ALL WIRING DEVICES SHALL BE WHITE-COLORED WITH 302 STAINLESS STEEL COVER PLATES, EXCEPT THE WEATHERPROOF OUTLETS WHICH SHALL HAVE THEIR STANDARD GRAY COVER PLATES.

19 - WHEN TWO OR MORE PANELBOARDS OR CABINETS ARE SHOWN TOGETHER IN ADJACENT LOCATIONS, THE TOP OF ALL PANELBOARDS OR CABINETS SHALL BE ALIGNED WITH THE TOP OF THE BIGGEST ONE SO THAT ALL THE TOPS ARE AT EXACTLY THE SAME HEIGHT FROM THE FINISHED FLOOR.

20 - IN CONDUIT RUNS, THE NUMBER OF ARROWS DESIGNATE THE NUMBER OF CIRCUITS IN THE CONDUIT (ONE POLE IN THE PANELBOARD PER EACH CIRCUIT), THE NUMBER OF LINES DESIGNATE THE NUMBER OF CONDUCTORS IN THE CONDUIT , THE LONGER LINE BEING A NEUTRAL CONDUCTOR AND " " BEING THE GROUND CONDUCTOR.

21 - C1 IN LIGHTING OUTLET, 'C1' INDICATES THE CIRCUIT NUMBER, 'L1' INDICATES THE LUMINARY L1 TYPE FROM THE LUMINARY SCHEDULE AND '1' INDICATES THE SWITCH CONTROLLING UNIT. 1
C3 IN RECEPTACLE OUTLET, 'C3' INDICATES THE CIRCUIT NUMBER.

22 - ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE.

23 - ALL THE SELF-STANDING AND SURFACE MOUNTED ELECTRICAL EQUIPMENT AS WELL AS THE LUMINARIES SHALL BE BRACED FOR SEISMIC SHOCK ACCORDING TO THE SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS. THE SAME APPLIES TO ALL THE CONDUIT WORK. THE DETAILS AND INSTALLATION METHODS IN SAID MANUAL SHALL BE MODIFIED AS REQUIRED TO FIT THE ELECTRICAL INSTALLATION OF THE PROJECT.

24 - CONDUIT WORK:

CONDUIT CONDITIONS				
CONDUIT TYPE	CONDUITS INSTALLED UNDERGROUND	EMBEDDED IN CONCRETE, WALL CONCRETE SLABS & FLOOR SLABS NO DIRECT CONTACT WITH THE EARTH	EXPOSED IN OUTDOOR AREAS	
EMT				
IMC				
PVC SCH. 40	●	●		
HEAVY WALL RIGID GALV. STEEL				●
HEAVY WALL RIGID GALV. STEEL PVC COATED.				

'ENT' CONDUIT IS NOT ALLOWED IN THIS PROJECT. * * *

25 - ALL WIRES AND CABLES SHALL BE #12-AWG, EXCEPT WHEN OTHERWISE INDICATED IN THE DRAWINGS OR AS INDICATED BELOW FOR 20 AMPS. CKTS. WIRE SIZING:

WIRE SIZE (AWG)	20 AMPS. @ 120V. CIRCUIT (MAX. DISTANCE)	MINIMUM CONDUIT SIZE			
		SINGLE CKT.	TWO CKTS.	THREE CKTS.	FOUR CKTS.
#12	0' TO 100'	3/4"	3/4"	3/4"	1"
#10	101' TO 200'	3/4"	3/4"	1"	1-1/4"
#8	201' TO 300'	3/4"	1"	1-1/4"	1-1/2"
#6	301' TO 400'	1"	1-1/4"	1-1/2"	N/A

26 - WIRES COLOR CODING:

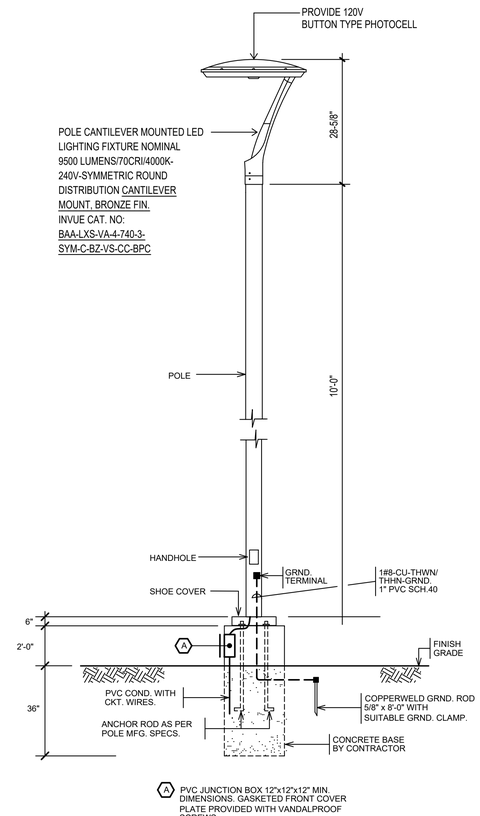
120/208V					277/480V				
ØA	ØB	ØC	N	GROUND	ØA	ØB	ØC	N	GROUND
BLACK	RED	BLUE	WHITE	GREEN	BROWN	ORANGE	YELLOW	LIGHT GRAY	GREEN

27 - ALL LIGHTING AND RECEPTACLE OUTLET SHALL BE IDENTIFIED WITH WHERE INDICATED PANEL AND CIRCUIT WHERE IS CONNECTED.

28 - ALL ELECTRICAL, COMMUNICATION & SECURITY SYSTEM CONDUITS SHALL BE PAINTED WITH EPOXY TYPE ENAMEL PAINT AS PER 'BAXTER'COLOR CODING.

2 LEGEND:

- NEW LED STREET POLE. SEE DETAIL (1/300).
- P — EXISTING AERIAL PRIMARY LINES, TO REMAIN.
- S — EXISTING AERIAL SECONDARY LINES, TO REMAIN.
- T — EXISTING AERIAL TELECOMMUNICATIONS LINES, TO REMAIN.
- 'CCTV' SYSTEM WI-FI CAMERA POLE MOUNTED, EXACT LOCATION TO BE COORDINATED WITH SECURITY CONSULTANT.
- CP EXISTING CONCRETE POLE, TO REMAIN.
- WP EXISTING WOOD POLE, TO REMAIN.
- SP EXISTING STEEL POLE, TO REMAIN.



A PVC JUNCTION BOX 12"x12"x12" MIN. DIMENSIONS. GASKETED FRONT COVER PLATE PROVIDED WITH VANDALPROOF SCREWS.

1 / E-300 **POLE MTD. LUMINARY DETAIL**
NOT TO SCALE

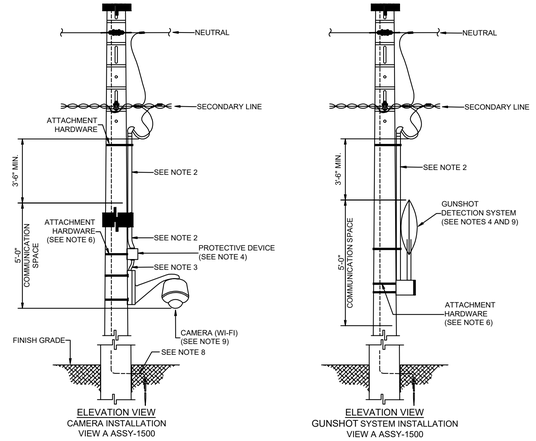
LUMA

DISTRIBUTION ENGINEERING
OVERHEAD DISTRIBUTION STANDARDS

TITLE:

OVERHEAD FED SURVEILLANCE CAMERA, GUNSHOT DETECTION SYSTEM AND WIRELESS COMMUNICATION EQUIPMENT
MAXIMUM VOLTAGE: 240 V

STANDARD NO. CAMVIG-01 VERSION 4
DOCUMENT NO. 4301.080
PAGE 1 OF 2 DATE FEB 2, 2024
SUBMITTED LUIS R. SOTO LIC. 11658
REVIEWED IVETTE D. SANCHEZ LIC. 13837
APPROVED RICARDO CASTRO LIC. 12135
DIGITIZED EMILIO CUADRADO LIC. 3000
VICTOR R. FEBRES LIC. 3412



ELEVATION VIEW
CAMERA INSTALLATION
VIEW A ASSY-1500

ELEVATION VIEW
GUNSHOT SYSTEM INSTALLATION
VIEW A ASSY-1500

1. THIS STANDARD IS FOR THE EXCLUSIVE USE OF PRIVATE OR PUBLIC ENTITIES WITH A CURRENT LUMA'S THIRD-PARTY ATTACHMENT AGREEMENT.
2. 3/4" MINIMUM DIAMETER PVC SCH-80 DUCT SHALL BE USED.
3. LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT (LFNC) SHALL BE USED.
4. THIS COMMUNICATION EQUIPMENT SHALL INCLUDE A PROTECTIVE DEVICE.
5. A SURVEILLANCE CAMERA CAN BE INSTALLED WIRELESSLY OR CONNECTED TO THE EXISTING COMMUNICATION LINE
6. THE CAMERA ATTACHMENT, GUNSHOT DETECTION SYSTEM AND RISER MUST BE HOLD TO THE POLE WITH THE APPROPIATE ATTACHMENT HARDWARE COMPLYING WITH THE APPLICABLE INDUSTRY STANDARDS. FIELD DRILLING OF POLES IS NOT ALLOWED.
7. FOR INSTALLATION OF SURVEILLANCE CAMERAS OR GUNSHOTS ON EXCLUSIVELY STREET LIGHTING POLES REFER TO STREET LIGHTING SYSTEM DESIGN AND CONSTRUCTION MANUAL.
8. CAMERA OWNERS SHALL PROVIDE ADDITIONAL SPECIFICATION DETAILS PRIOR TO INSTALLATION, IF REQUIRED.
9. CAMERAS AND GUNSHOT DETECTION SYSTEM MUST BE INSTALLED WITHIN THE COMMUNICATION SPACE ON THE POLE NO PART OF THIS EQUIPMENT MAY BE OUTSIDE THE COMMUNICATION SPACE.
10. THE ELECTRICAL SUPPLY AND COMMUNICATION SYSTEMS SHALL BE GROUNDED TOGETHER VIA A SINGLE GROUNDING CONDUCTOR. THE MINIMUM REQUIRED GROUNDING CONNECTIONS FOR THE COMMUNICATION SYSTEM TO THE POLE GROUNDING CONDUCTOR, WHEN USED JOINTLY WITH THE ELECTRICAL SUPPLY SYSTEM, SHALL INCLUDE CONNECTIONS AT THE FIRST AND LAST POLES, ALONG WITH ANY ADDITIONAL CONNECTIONS REQUIRED BY THE NESC. A MINIMUN OD #2 AWG STRANDED COPPER PIGTAIL INTENDED FOR CONNECTING TO THE POLE'S SINGLE GROUNDING CONDUCTOR SHOULD BE LEFT IN THE COMMUNICATION SPACE BY THE FIRST COMMUNICATION COMPANY REQUESTING INSTALLATION, ENABLING LUMA TO PERFORM THE NECESSARY CON
11. THE INSTALLATION OF SOLAR PANELS ON PREPA POLES FOR POWERING COMMUNICATION EQUIPMENT IS NOT ALLOWED.
12. WHERE THERE IS NO SECONDARY LINE, A MINIMUM CLEARANCE OF 6'-6" BETWEEN THE NEUTRAL AND COMMUNICATION LINES IS REQUIRED TO ALLOW FOR THE FUTURE INSTALLATION OF THE SECONDARY LINE, EXCEPT IN AREAS WITH LIMITED CUSTOMER EXPANSION OR WHERE THE SECONDARY LINE IS UNDERGROUND, IN WHICH CASE THE REQUIRED MINIMUM CLEARANCE WOULD BE

2 / E300 **SECURITY CAMERAS LUMA POLE MTD.**
NOT TO SCALE

SECURITY SYSTEM

VERY IMPORTANT NOTE:

1 - FOR TECHNICAL SPECIFICATION, ROUTING, MOUNTING HEIGHT AND POINT OF CONNECTION OF THE SECURITY WIRELESS CAMERAS, SEE MUNICIPALITY SECURITY OFFICES FOR DETAILS & SPECIFICATIONS.

2 - SEE DWGS E301 & E302 FOR EXISTING CONDITIONS FOR EACH POLE WHEN THE SECURITY CAMERAS WIIL BE MOUNTED.

3 EXISTING POLE WITH NEW WIRELESS CAMERA INSTALLATIONS TABLE

ID#	STREET LOCATIONS	CAMERA TYPE:	POLE TYPE	CLEARANCE
C1	ANTONIO R. BARCELO ST.	SEE SPECS.	WOOD	
C2	ANTONIO R. BARCELO ST.	SEE SPECS.	CONCRETE	
C3	ANTONIO R. BARCELO ST.	SEE SPECS.	CONCRETE	
C4	ANTONIO R. BARCELO ST.	SEE SPECS.	CONCRETE	
C5	ANTONIO R. BARCELO ST.	SEE SPECS.	CONCRETE	
C6	ANTONIO R. BARCELO ST.	SEE SPECS.	CONCRETE	
C7	JOSE DE DIEGO AVE.	SEE SPECS.	CONCRETE	
C8	JOSE DE DIEGO AVE.	SEE SPECS.	CONCRETE	
C9	JOSE DE DIEGO AVE.	SEE SPECS.	WOOD	
C10	JOSE DE DIEGO AVE.	SEE SPECS.	CONCRETE	
C11	JOSE DE DIEGO AVE.	SEE SPECS.	CONCRETE	
C12	JOSE DE DIEGO AVE.	SEE SPECS.	CONCRETE	
C13	RAMON E. BETANCES ST.	SEE SPECS.	WOOD	
C14	RAMON E. BETANCES ST.	SEE SPECS.	WOOD	
C15	RAMON E. BETANCES ST.	SEE SPECS.	WOOD	
C16	GONZALO MARIN ST.	SEE SPECS.	CONCRETE	
C17	GONZALO MARIN ST.	SEE SPECS.	CONCRETE	
C18	GONZALO MARIN ST.	SEE SPECS.	CONCRETE	
C19	GONZALO MARIN ST.	SEE SPECS.	CONCRETE	
C20	GONZALO MARIN ST.	SEE SPECS.	WOOD	
C21	ARIOSTO CRUZ ST.	SEE SPECS.	WOOD	

NEGOCIADO DE TELECOMUNICACIONES DE PUERTO RICO

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX
NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1988, según enmendada y estoy autorizado por el Dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that I am a licensed and registered engineer, surveyor, or architect(in compliance with Act 173 of 1988, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.

2. En armonía con las disposiciones de la Ley Núm. 135 de 15 de junio de 1967, según enmendada, conocida como Ley de Certificación de Planos de Construcción, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los códigos, patrones, normas y reglamentos aprobados por la AEE, la Junta de Planificación y la Oficina de Gerencia de Permisos (OGPe). / In accordance with the provisions of Puerto Rico Act Number 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO
Número de Proyecto / Project Number : 24-5-1369
Carga / Load: (KVA) : 15KVA Revisión / Revision : _____

ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño electrico mostrado en estos planos de construcción basandose en la certificación sometida por el diseñador electrico cumpliendo con la Ley Núm. 135 de 15 de junio de 1967, según enmendada. / LUMA endorses the electrical design shown in these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no relieva al diseñador de la responsabilidad profesional que asume al certificar estos planos. este endoso no relieva al constructor ni al inspector de obra privado de cumplir con las disposiciones del Código Eléctrico Nacional, Código Eléctrico Nacional de Seguridad, códigos, patrones, normas y reglamentos vigentes de LUMA y de otras agencias de gobierno, así como leyes federales y estatales, aplicables a la obra. / LUMA does not assume responsibility for the certified design. The endorsement by LUMA does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from : National Electric Code, National Electric Safety Code, construction standards, norms, and regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins.
3. Este endoso tendrá una vigencia de 1 año a partir de la fecha de aprobación de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso que no se certifique obra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbre ni para completar proceso de Cesión, Traspaso y Garantía del equipo. Para esto es necesario cumplir con todo lo dispuesto en el Reglamento de Servidumbres para la Autoridad de Energía Eléctrica(7282 de 2007). / This endorsement is valid for 1 year from the date of approval of this term, unless prior notification to LUMA, the endorsement will remain in force until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. This endorsement is not to constitute an easement or to complete the Assignments, Transfer and Guarantee process of the equipment. For this, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority(7282 of 1987).

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	100% DESIGN DRAWINGS	09/03/25

DATE ISSUED: 11/19/2024
REVIEWED BY: RJR
DRAWN BY: LAPD
DESIGNED BY: LAPD
BRA PROJECT NUMBER: 24-09

SHEET TITLE

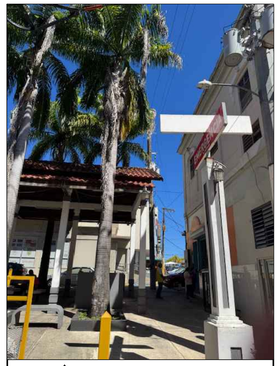
GENERAL NOTES, LEGEND AND DETAILS

SHEET ID

E300

8/27/2025 10:09:14 PM C:\Users\Luis Perez\Documents\3) JOBS\R-JR-24-09 CALLES 900 revision 08 2025\E300.dwg

1 E301 PHOTO #1
GONZALO MARIN ST.

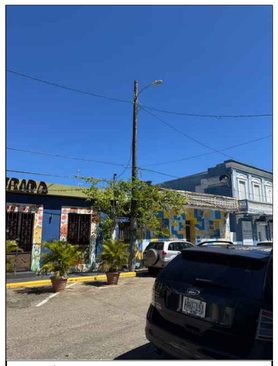


2 E301 PHOTO #2
ARIOSTO CRUZ ST.

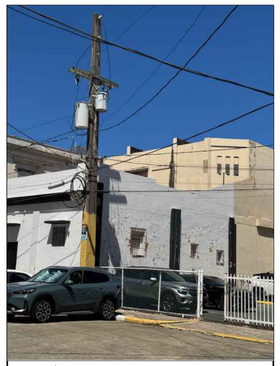
3 E301 PHOTO #3
ARIOSTO CRUZ ST.

4 E301 PHOTO #4
ARIOSTO CRUZ ST.

5 E301 PHOTO #5
ARIOSTO CRUZ ST.



6 E301 PHOTO #6
ARIOSTO CRUZ ST.

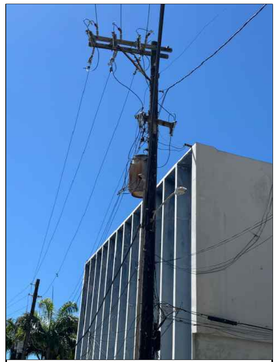


7 E301 PHOTO #7
ARIOSTO CRUZ ST.

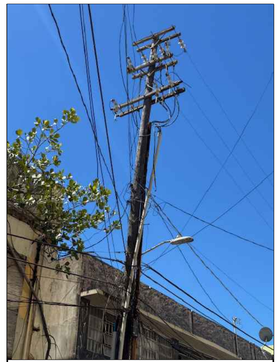
8 E301 PHOTO #8
JOSE DE DIEGO AVE.

9 E301 PHOTO #9
JOSE DE DIEGO AVE.

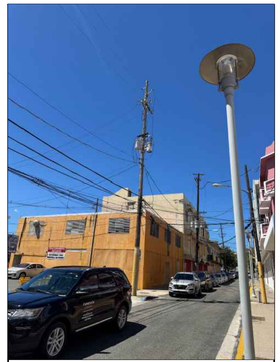
10 E301 PHOTO #10
GONZALO MARIN ST.



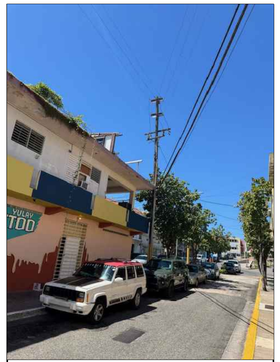
11 E301 PHOTO #11
RAMÓN E. BETANCES ST.



12 E301 PHOTO #12
RAMÓN E. BETANCES ST.



13 E301 PHOTO #13
RAMÓN E. BETANCES ST.



14 E301 PHOTO #14
RAMÓN E. BETANCES ST.

15 E301 PHOTO #15
RAMÓN E. BETANCES ST.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.

Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% Revised DESIGN DWGS.	02/27/25
6	100% Revised DESIGN DWGS.	08/27/25

DATE ISSUED:	08/27/25
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

SHEET TITLE

PHOTOS - EXISTING CONDITIONS SHEET #1

SHEET ID

E301

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1988, según enmendada y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador de la Transmisión y Distribución del Sistema de Luma Energy. Certify that I am a professional engineer, surveyor, or architectin compliance with Act 173 of 1988, as amended, and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.
2. En armonía con las disposiciones de la Ley Núm. 135 de 15 de junio de 1967, según enmendada, conocida como Ley de Certificación de Planos de Construcción, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los códigos, patrones, normas y reglamentos aprobados por la AEE, la Junta de Planificación y la Oficina de Gerencia de Permisos, LUMA Energy y el Manual de Práctica Profesional del CAPR.I In compliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in conformity with the codes, patterns, norms and regulations approved by the AEE, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

NEGOCIADO DE TELECOMUNICACIONES DE PUERTO RICO

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX
NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

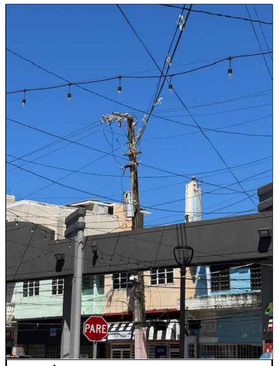
ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : SEGURIDAD CENTRO URBANO
Número de Proyecto / Project Number : 24-5-1369
Carga / Load: (KVA) : 15KVA Revisión / Revision : _____

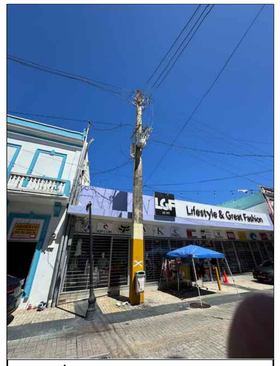
ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño electrico mostrado en estos planos de construcción basandose en la certificación sometida por el diseñador en cumplimiento con la Ley Núm 135 del 15 de junio de 1967, segun enmendada. / LUMA endorses the electrical design shown in these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no releva al diseñador de la responsabilidad profesional que asume al certificar estos planos, este endoso no releva al constructor ni al inspector de obra privado de cumplir con las disposiciones del Código Eléctrico Nacional, Código Eléctrico Nacional de Seguridad, códigos, patrones, normas y reglamentos vigentes de LUMA y de otras agencias de gobierno, así como leyes federales y estatales, que rigen la materia. / LUMA's endorsement does not relieve the designer of responsibility for the design certified. The endorsement does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from : National Electric Code, National Electric Safety Code, construction standards, norms, and regulations from LUMA and other government agencies as well as federal and state laws ruling by the time construction begins.
3. El presente endoso tiene vigencia de un (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso que no se inicien las obras dentro de un (1) año, el endoso tendrá vigencia de un (1) año adicional. Para este endoso aplica garantía para completar procesos de Diseño, Traspaso y Garantía del equipo. Para esto es necesario cumplir con todo lo dispuesto en el Reglamento de Servidumbres para la Autoridad de Energía Eléctrica(7282 de 2007). / This endorsement is valid for one(1) year. If electrical works have begun during this year, with prior notification to LUMA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. For this endorsement, a guarantee to complete Design, Transfer and Equipment Warranty processes is applicable. To do so, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority(7282 of 1997).

8/27/2025 10:09:30 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\00 revision 08.2025\E301.dwg

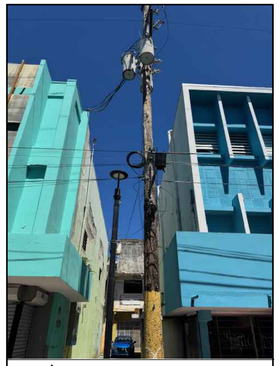


16 E302 PHOTO # 16
JOSÉ DE DIEGO AVE.

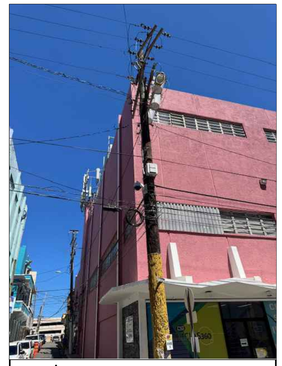


17 E302 PHOTO # 17
JOSÉ DE DIEGO AVE.

18 E302 PHOTO # 18
JOSÉ DE DIEGO AVE.

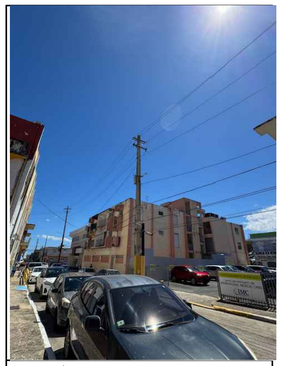


19 E302 PHOTO # 19
JOSÉ DE DIEGO AVE.



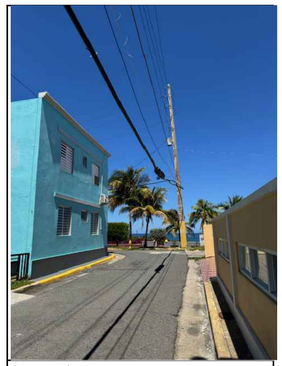
20 E302 PHOTO # 20
JOSÉ DE DIEGO AVE.

21 E302 PHOTO # 21
JOSÉ DE DIEGO AVE.

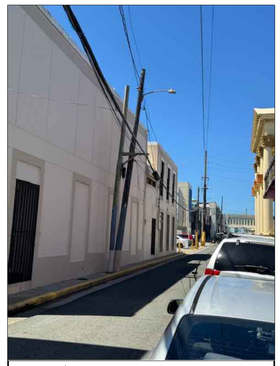


22 E302 PHOTO # 22
JOSÉ DE DIEGO AVE.

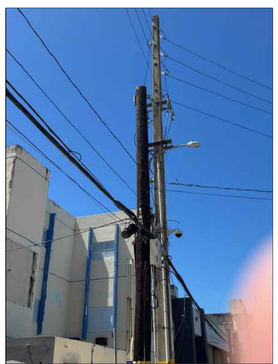
23 E302 PHOTO # 23
JOSÉ DE DIEGO AVE.



24 E302 PHOTO # 24
ANTONIO R. BARCELO ST.

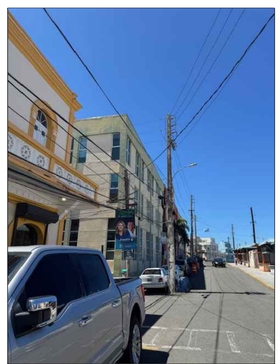


25 E302 PHOTO # 25
ANTONIO R. BARCELO ST.



26 E302 PHOTO # 26
ANTONIO R. BARCELO ST.

27 E302 PHOTO # 27
ANTONIO R. BARCELO ST.



28 E302 PHOTO # 28
ANTONIO R. BARCELO ST.

29 E302 PHOTO # 29
ANTONIO R. BARCELO ST.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.

Calle 527OG-23 Country Club, Carolina, PR 00982
Cel: 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 ; SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 197B, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% Revised DESIGN DWGS.	02/27/25
6	100% Revised DESIGN DWGS.	08/27/25

DATE ISSUED:	08/27/25
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

SHEET TITLE

PHOTOS - EXISTING CONDITIONS SHEET #2

SHEET ID

E302

CERTIFICACIÓN DEL DISEÑADOR/DESIGNER'S CERTIFICATION

1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con la Ley 173 de 1988, según enmendada, y que preparé el diseño eléctrico de este proyecto en conformidad con los estándares de LUMA Energy, operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that I am a licensed and registered engineer, surveyor, or architect(in compliance with Act 173 of 1988, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.
2. En armonía con las disposiciones de la Ley Núm. 155 de 15 de junio de 1967, según enmendada, conocida como Ley de Certificación de Planos de Construcción, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los estándares de LUMA Energy, operador y administrador del Sistema de Transmisión y Distribución de la Autoridad de Energía Eléctrica de Puerto Rico, LUMA Energy y el Manual de Práctica Profesional del CIAPR./ In compliance with Act No. 155 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electrical design for this project in accordance with the codes, standards, rules, and regulations approved by PREPA, Puerto Rico Planning Board and Permits Management Office, LUMA Energy and the CIAPR Professional Practice Manual.

FIRMA DEL DISEÑADOR/DESIGNER'S SIGNATURE

Negociado de Telecomunicaciones de Puerto Rico

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

NÚMERO DE CASO NETPR 2024-XX-XXXX
NÚMERO DE CASO OGPe 2024-496885-SRI-310274

Revisado por: _____ Fecha _____

Aprobado por: _____ Fecha _____

ESTE ENDOSO NO EXIME AL CONSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS REGLAMENTOS APLICABLES.

ENDOSO / ENDORSEMENT

Nombre del Proyecto / Project Name : _____
Número de Proyecto / Project Number : _____
Carga / Load: (KVA) : 15KVA Revisión / Revision : _____

ENDOSADO POR / ENDORSED BY

1. LUMA endosa el diseño eléctrico mostrado en estos planos de construcción basandose en la certificación sometida por el diseñador en cumplimiento con la Ley Núm 155 del 15 de junio de 1967, según enmendada. / LUMA endorses the electrical design shown in these construction plans based on the certification presented by the designer in compliance with Act 135 of June 15, 1967, as amended.
2. LUMA no asume responsabilidad sobre el diseño certificado. El Endoso por parte de LUMA no releva al diseñador de la responsabilidad profesional que asume al certificar estos planos, este endoso no releva al constructor ni al inspector de obra privado de cumplir con las disposiciones del Código Eléctrico Nacional, Código Eléctrico Nacional de Seguridad, códigos, normas, estándares y reglamentos de LUMA y cualquier otro código, estándar, norma y reglamento de construcción vigentes al inicio de las obras. / LUMA does not assume responsibility over the certified design. LUMA's endorsement does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from : National Electric Code, National Electric Safety Code, construction standards, norms, and regulations from LUMA and other construction codes, standards, norms and regulations in force at the start of the works.
3. El presente endoso tiene vigencia de un (1) año. De existir fases electricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso que no se certifique obra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbre ni para completar proceso de Cesión, Traspaso y Garantía del equipo. Para esto es necesario cumplir con todo lo dispuesto en el Reglamento de Servidumbres de Paso de la AEE. / This endorsement is valid for one (1) year. If electrical works have begun during this year, with prior notification to LUMA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. This endorsement in not to constitute an easement or to complete the Assignments, Transfer and Guarantee process of the equipment. For this, it is necessary to comply with all provisions of the Easements Regulation for the Electric Power Authority(AEE) of 1961.

8/27/2025 10:09:54 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\00 revision 08.2025\E302.dwg

Appendix C:
Airport Hazards

PR-CRP-000768 Civil Airport Map

Address: Arecibo, PR 00612

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254

August 13, 2025

Search Result (point)

Airport Polygons

Airport Points

Source: EPA NEPAssist

1:288,895

0 2.25 4.5 9 mi

0 3.75 7.5 15 km

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

PR-CRP-000768 Military Airport Hazards Map

Address: Pueblo Ward, Arecibo, PR 00612

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254

August 27, 2025

Search Result (point)

Airport Polygons

Airport Points

1:577,791

0 4.75 9.5 19 mi

0 5 10 20 km

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

Source: EPA NEPAssist

Appendix D:
Coastal Barrier Resources

PR-CRP-000768 CBRS Map

Address: Pueblo Ward, Arecibo, PR 00612

U.S. Fish and Wildlife Service

Coastal Barrier Resources System

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254

August 1, 2025

CBRS Buffer Zone

CBRS Units

Otherwise Protected Area

System Unit

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

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

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

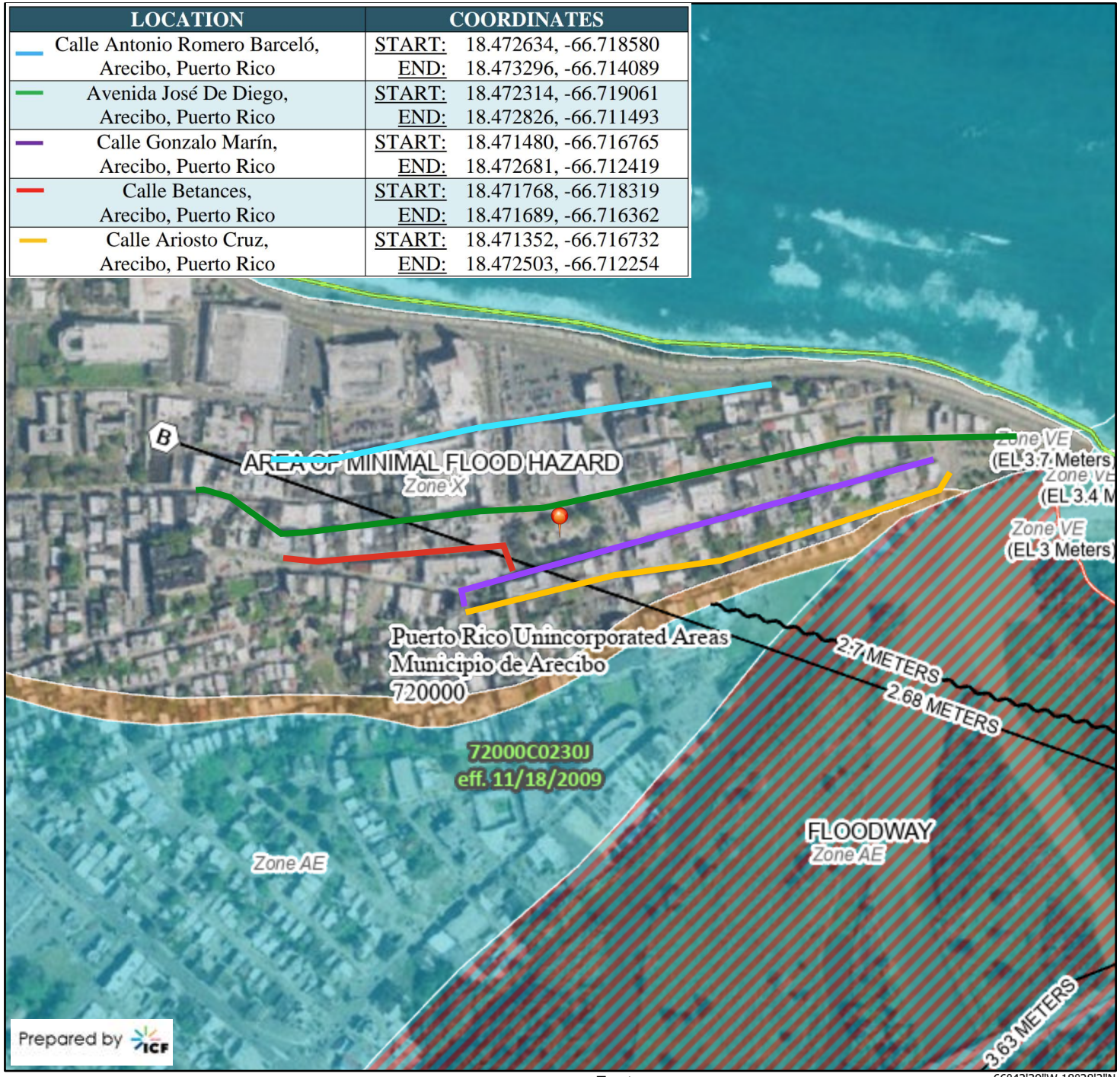
Appendix E:
Flood Insurance

PR-CRP-000768 National Flood Hazard Layer FIRMette

Address: Arecibo, PR 00612

FEMA

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254



0 250 500 1,000 1,500 2,000 Feet

1:6,000

66°42'39"W 18°28'2"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- **SPECIAL FLOOD HAZARD AREAS**
  - Without Base Flood Elevation (BFE) *Zone A, V, A99*
  - With BFE or Depth *Zone AE, AO, AH, VE, AR*
  - Regulatory Floodway
- **OTHER AREAS OF FLOOD HAZARD**
  - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
  - Future Conditions 1% Annual Chance Flood Hazard *Zone X*
  - Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
  - Area with Flood Risk due to Levee *Zone D*
- **OTHER AREAS**
  - NO SCREEN Area of Minimal Flood Hazard *Zone X*
  - Effective LOMRs
  - Area of Undetermined Flood Hazard *Zone D*
- **GENERAL STRUCTURES**
  - Channel, Culvert, or Storm Sewer
  - Levee, Dike, or Floodwall
- **OTHER FEATURES**
  - 20.2 Cross Sections with 1% Annual Chance
  - 17.5 Water Surface Elevation
  - Coastal Transect
  - 513 Base Flood Elevation Line (BFE)
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature
- **MAP PANELS**
  - Digital Data Available
  - No Digital Data Available
  - Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

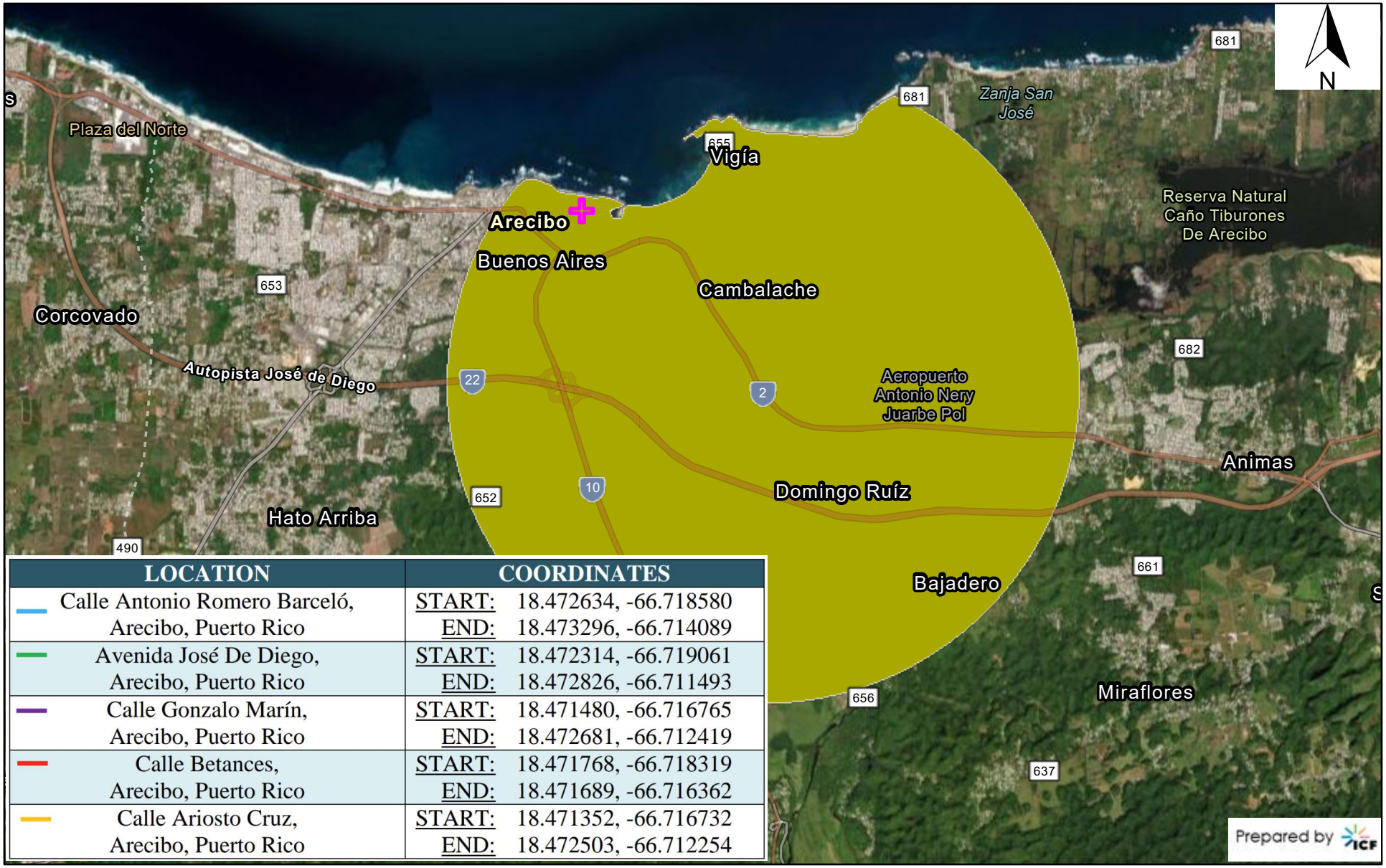
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/1/2025 at 7:38 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix F:
Clean Air

PR-CRP-000768 Clean Air Map

Address: Arecibo, PR 00612



LOCATION	COORDINATES	
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START:	18.472634, -66.718580
	END:	18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START:	18.472314, -66.719061
	END:	18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START:	18.471480, -66.716765
	END:	18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START:	18.471768, -66.718319
	END:	18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START:	18.471352, -66.716732
	END:	18.472503, -66.712254

August 1, 2025

Search Result (point)

Lead (2008 standard)

Nonattainment

Source: EPA NEPAssist

1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

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

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

Data is current as of July 31, 2025

Listed by County, NAAQS, Area. The 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.

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

Change the State:
PUERTO RICO GO

Important Notes

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

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

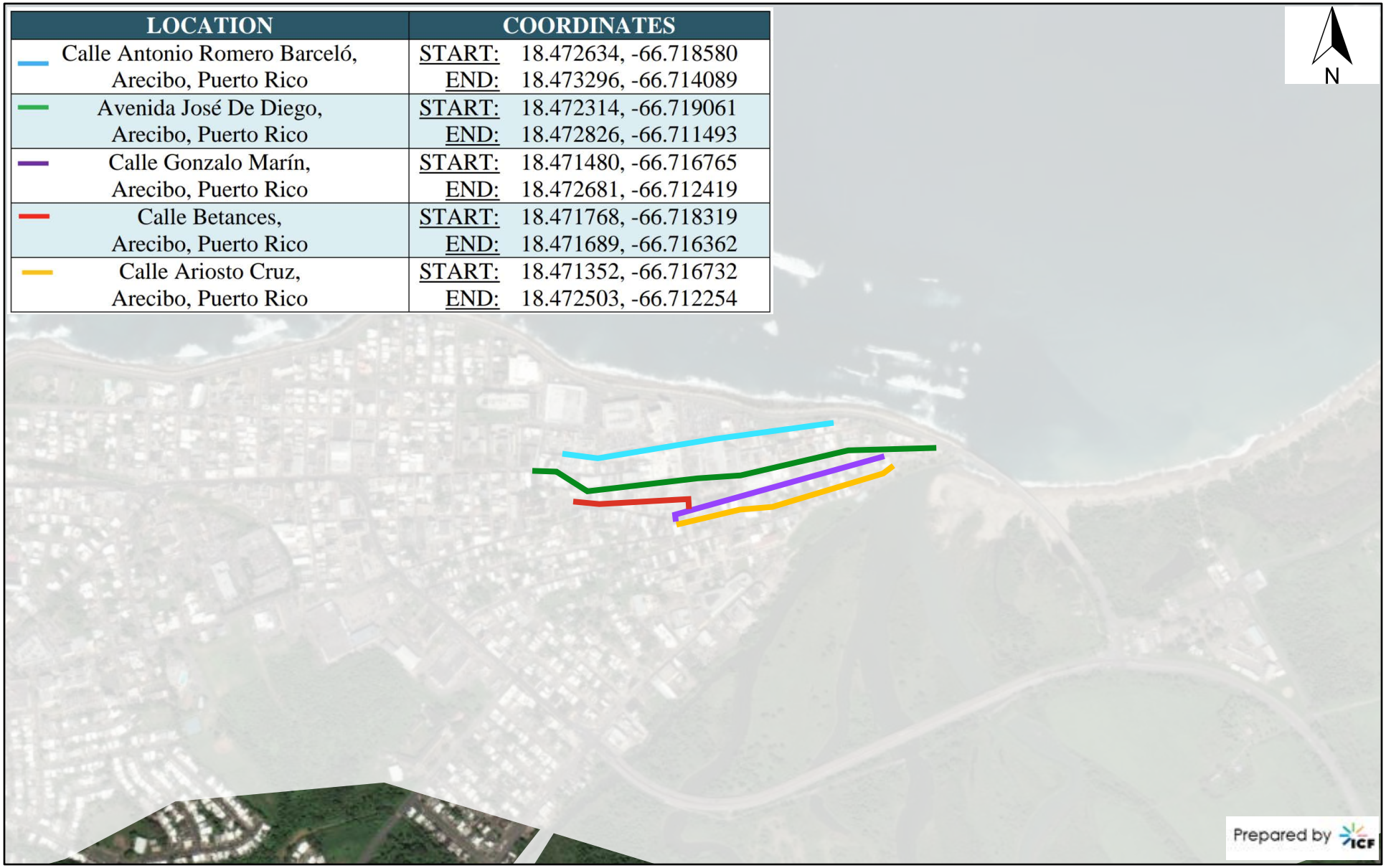
Important Notes

Appendix G:
Coastal Zone Management

PR-CRP-000768 CZMA Map

Address: Arecibo, PR 00612

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254



8/26/2025

1:12,120

0 0.07 0.15 0.3 mi

0 0.15 0.3 0.6 km

Maxar

CoastalZoneManagementAct - Coastal Zone Management Act

coastal zone

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

2.4m Resolution Metadata

GOBIERNO DE PUERTO RICO

PUERTO RICO PLANNING BOARD

November 7, 2024

Angel López Guzmán
Director
Permits and Environmental Compliance Director
Disaster Recovery Office
PR Department of Housing
PO Box 21365
San Juan, PR 00928-1365

Federal Consistency Certification with the Puerto Rico Coastal Zone Management Program (PRCZMP)
CZ-2024-1009-210
Federal Assistance with CDBG-DR funds from the City Revitalization Program (CRP)
PR-CRP-000768
Improvements & Revitalization of the Urban Center Streets & Sidewalks Arecibo, Puerto Rico

Dear Mr. López:

We have been evaluation the application at reference. The Puerto Rico Planning Board in its meeting of July 24, 2024, emitted a General Federal Consistency Certification with the PRCZMP under resolution JP-2024-004 for projects to be financed with Federal funds under the CBDG-DR and CDBG-MIT programs. The section D of this resolution establishes that Federal assistance awarded under CDBG-DR and CDBG-MIT programs for infrastructure projects (sidewalks, roads, highways, service lines, public squares) is consistent with the PRCZMP with the condition that the applicant fulfills the following requirements ninety (90) days before the construction phase of the project:

1. Evidence of compliance with the PR Environmental Policy Law (Law number 416 of September 22, 2004) by providing copy of the Environmental Compliance Determination emitted by the PR Permit Management Office (OGPe).

2. Evidence of compliance with the Special Flood Hazard Zone Regulations (Planning Regulation Number 13) when it is required depending on the nature and location of the project.

3. In the case of projects that are located within designated Historic Zones, the project must have the endorsement of the Puerto Rican Culture Institute.

These documents must be submitted to the Office of Geology and Hydrogeology Office of the Puerto Rico Planning Board as soon as possible within a period of 120 days from this communication. Please refer to the Federal Consistency review application number.

Considering this, the project at reference is consistent with the PRCZMP with the condition that the applicant complies with the above-mentioned requirements as established in Resolution JP-2024-004.

If you have any question or need assistance, do not hesitate to contact Rose A. Ortiz at (787) 723-6200 ext. 16012 or by e-mail ortiz_r@jp.pr.gov.

Cordially,

Luis E. Lamboy Torres
Director
Office of Geology and Hydrogeology

RAO

Appendix H: Contamination and Toxic Substances

PR-CRP-000768 EPA Facilities Map

Address: Arecibo, PR 00612

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254

August 14, 2025

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

1:18,056

0 0.13 0.25 0.5 mi

0 0.23 0.45 0.9 km

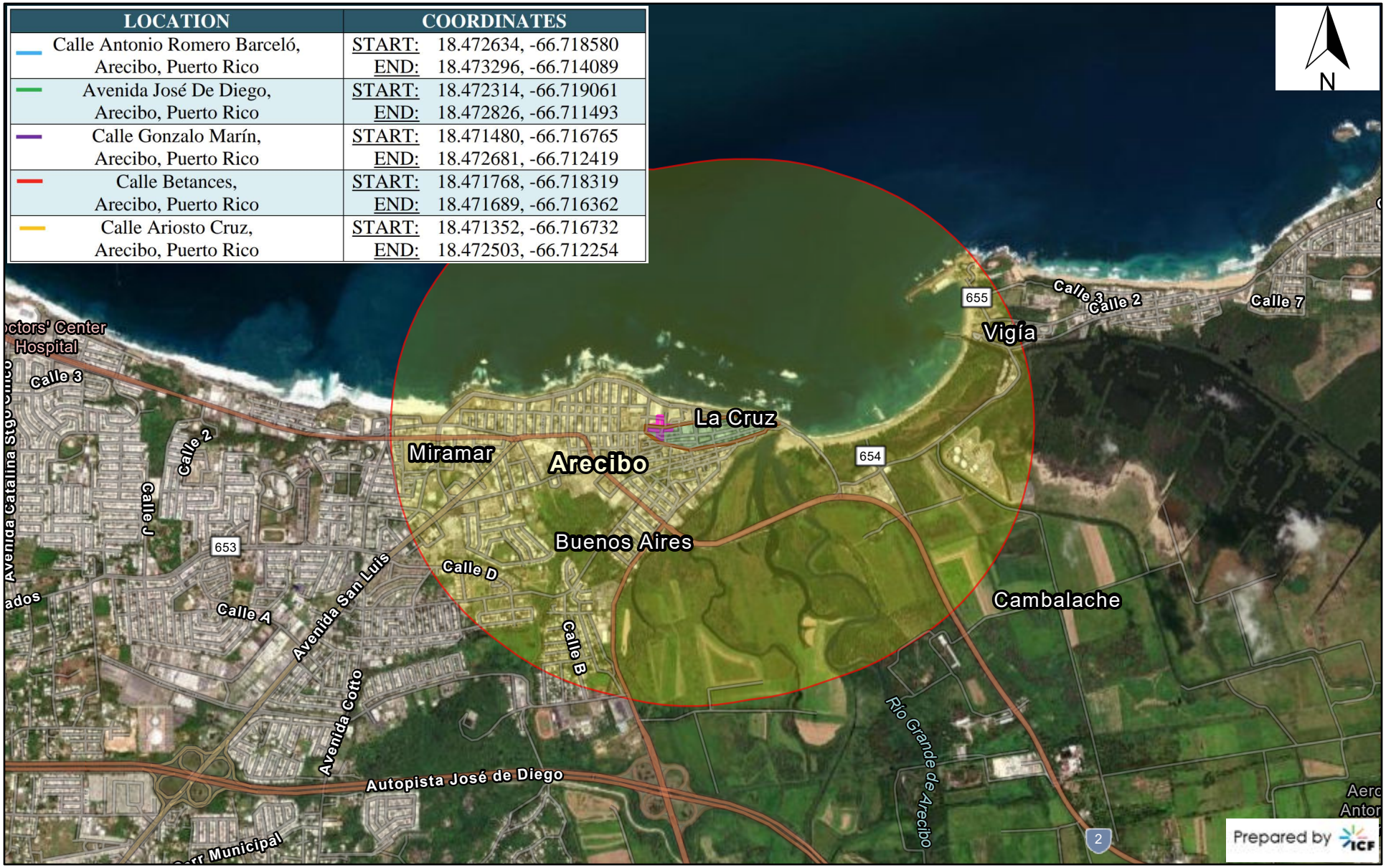
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

Source: EPA NEPAssist

PR-CRP-000768 NPL & Brownfields Map

Address: Arecibo, PR 00612

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254



August 14, 2025

Project Area

Project Location (point)

Project Buffer (1 mile)

Source: EPA NEPAssist

1:36,112

0 0.28 0.55 1.1 mi

0 0.45 0.9 1.8 km

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

Detailed Facility Report

Facility Summary

ARECIBO MUNICIPALITY

NUMBER 100 JOSE DE DIEGO AVENUE, ARECIBO, PR 00613

FRS (Facility Registry Service) ID: 110064622635

EPA Region: 02

Latitude: 18.47223

Longitude: -66.71642

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	1
Date of Last Compliance Monitoring Activity	04/21/2025
Compliance Status	Unknown
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Expired; Compliance Tracking Partially Off (PRR040029)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110064622635					N	18.47223	-66.71642
ICIS-NPDES	CWA	PRR040029	Non-Major: General Permit Covered Facility	Expired; Compliance Tracking Partially Off	Urban Stormwater (Small MS4)	06/30/2021	N	18.47223	-66.71642

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110064622635	ARECIBO MUNICIPALITY	NUMBER 100 JOSE DE DIEGO AVENUE, ARECIBO, PR 00613	Arecibo Municipio
ICIS-NPDES	CWA	PRR040029	ARECIBO MUNICIPALITY	NUMBER 100 JOSE DE DIEGO AVENUE, ARECIBO, PR 00613	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	PRR040029	9199	General Government

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
CWA	PRR040029	ICIS-NPDES	Offsite Record Review	Urban Stormwater (MS4) - Desk Audit	EPA	04/21/2025	

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRR040029	No	03/31/2025	0	08/08/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
CWA (Source ID: PRR040029)		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	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
	Quarterly Noncompliance Report History	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined

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?
210100020414	Rio Grande de Arecibo 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	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2024	PRNR7A1a	RIO SANTIAGO	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)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

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

DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	3,334
Population Density	2,007/sq.mi.
Housing Units in Area	2,262
Percent People of Color	100%
Households in Area	1,413
Households on Public Assistance	116
Persons With Low Income	2,830
Percent With Low Income	86%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.47223
Center Longitude	-66.71642
Total Area	3.121 sq.mi.
Land Area	53%
Water Area	47%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	698 (49.33%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	177 (5%)
Minors 17 years and younger	618 (19%)
Adults 18 years and older	2,716 (81%)
Seniors 65 years and older	853 (26%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	1,213 (36%)
African-American	115 (3%)
Hispanic-Origin	3,319 (100%)
Asian	64 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	2 (0%)
Other/Multiracial	736 (22%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	221 (9.12%)
9th through 12th Grade	241 (9.95%)
High School Diploma	727 (30.02%)
Some College/2-year	304 (12.55%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
$15,000 - $25,000	294 (20.78%)
$25,000 - $50,000	286 (20.21%)
$50,000 - $75,000	94 (6.64%)
Greater than $75,000	43 (3.04%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	739 (30.51%)

Detailed Facility Report

Facility Summary

BUENOS AIRES COMMUNITY MS4

PO BOX 1086, ARECIBO, PR 00613

FRS (Facility Registry Service) ID: 110039184254

EPA Region: 02

Latitude: 18.471111

Longitude: -66.713333

Locational Data Source: NPDES

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	11/16/2010
Compliance Status	Not Applicable
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, (PRU000525)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110039184254					N	18.471111	-66.713333
ICIS-NPDES	CWA	PRU000525	Non-Major: Unpermitted Facility				N	18.471111	66.713333

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110039184254	BUENOS AIRES COMMUNITY MS4	PO BOX 1086, ARECIBO, PR 00613	

System	Statute	Identifier	Facility Name	Facility Address	Facility County
ICIS-NPDES	CWA	PRU000525	BUENOS AIRES COMMUNITY MS4	PO BOX 1086, ARECIBO, PR 00613	Arecibo Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRU000525	No	03/31/2025	0	08/08/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
CWA (Source ID: PRU000525)		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	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Quarterly Noncompliance Report History											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100020414	Rio Grande de Arecibo 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	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2024	PRNR7A1a	RIO SANTIAGO	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)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

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

DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	2,460
Population Density	1,330/sq.mi.
Housing Units in Area	1,813
Percent People of Color	100%
Households in Area	1,054
Households on Public Assistance	64
Persons With Low Income	2,014
Percent With Low Income	84%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.471111
Center Longitude	-66.713333
Total Area	3.121 sq.mi.
Land Area	59%
Water Area	41%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	462 (43.87%)
$15,000 - $25,000	225 (21.37%)
$25,000 - $50,000	248 (23.55%)
$50,000 - $75,000	80 (7.6%)
Greater than $75,000	38 (3.61%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	101 (4%)
Minors 17 years and younger	396 (16%)
Adults 18 years and older	2,063 (84%)
Seniors 65 years and older	722 (29%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	897 (36%)
African-American	92 (4%)
Hispanic-Origin	2,455 (100%)
Asian	47 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	4 (0%)
Other/Multiracial	530 (22%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	171 (9.13%)
9th through 12th Grade	178 (9.51%)
High School Diploma	521 (27.83%)
Some College/2-year	248 (13.25%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	597 (31.89%)

Detailed Facility Report

Facility Summary

CARIBBEAN RCCYCLING INC

415 JUAN ROSADO AVE, ARECIBO, PR 00612

FRS (Facility Registry Service) ID: 110066978462

EPA Region: 02

Latitude: 18.46981

Longitude: -66.71557

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	06/04/2015
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, (PRN008028235)

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		110066978462					N	18.46981	-66.71557
RCRAInfo	RCRA	PRN008028235	Other	Inactive ( )			N	18.464857	-66.720251

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110066978462	CARIBBEAN RCCYCLING INC	415 JUAN ROSADO AVE, ARECIBO, PR 00612	Arecibo Municipio
RCRAInfo	RCRA	PRN008028235	CARIBBEAN RCCYCLING INC	415 JUAN ROSADO AVE, ARECIBO, PR 00612	Arecibo Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRN008028235	No	08/09/2025	0	08/08/2025

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: PRN008028235)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	3,723
Population Density	1,899/sq.mi.
Housing Units in Area	2,433
Percent People of Color	100%
Households in Area	1,560
Households on Public Assistance	137
Persons With Low Income	3,183
Percent With Low Income	87%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.46981
Center Longitude	-66.71557
Total Area	3.121 sq.mi.
Land Area	63%
Water Area	37%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	785 (50.32%)
$15,000 - $25,000	324 (20.77%)
$25,000 - $50,000	305 (19.55%)
$50,000 - $75,000	99 (6.35%)
Greater than $75,000	47 (3.01%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	216 (6%)
Minors 17 years and younger	738 (20%)
Adults 18 years and older	2,987 (80%)
Seniors 65 years and older	908 (24%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	1,337 (36%)
African-American	124 (3%)
Hispanic-Origin	3,702 (99%)
Asian	64 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	3 (0%)
Other/Multiracial	861 (23%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	237 (8.96%)
9th through 12th Grade	275 (10.4%)
High School Diploma	815 (30.82%)
Some College/2-year	341 (12.9%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	776 (29.35%)

Detailed Facility Report

Facility Summary

CONSTRUCTION OF SAGRADO CORAZÓN DE JESÚS SENIORS HOUSING COMPLEX

HOSTOS ST., SAN LUIS SECTOR, PUEBLO WARD, ARECIBO, PR 00612

FRS (Facility Registry Service) ID: 110071347331

EPA Region: 02

Latitude: 18.4714

Longitude: -66.7257

Locational Data Source: NPDES

Industries: --

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Effective (PRR1000FW)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110071347331					N	18.4714	-66.7257
ICIS-NPDES	CWA	PRR1000FW	Non-Major: General Permit Covered Facility	Effective	Construction Stormwater	02/16/2027	N	18.4714	-66.7257

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110071347331	CONSTRUCTION OF SAGRADO CORAZÓN DE JESÚS SENIORS HOUSING COMPLEX	HOSTOS ST., SAN LUIS SECTOR, PUEBLO WARD, ARECIBO, PR 00612	Arecibo Municipio
ICIS-NPDES	CWA	PRR1000FW	CONSTRUCTION OF SAGRADO CORAZÓN DE JESÚS SENIORS HOUSING COMPLEX	HOSTOS ST., SAN LUIS SECTOR, PUEBLO WARD, ARECIBO, PR 00612	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRR1000FW	No	03/31/2025	0	08/08/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
CWA (Source ID: PRR1000FW)		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
	Quarterly Noncompliance Report History											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100020506	Non-contributing area-Name not assigned	CULVERT BOX	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2024	PRNQ6A	QUEBRADA SECA	Unknown - With Restoration Plan	--	Not Assessed	Insufficient Information	--	Insufficient Information	--
PR	2024	PRNE5A	RIO CAMUY ESTUARY	Impaired - With Restoration Plan	PATHOGENS	--	Insufficient Information	--	Not Supporting	--

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

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

DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	8,950
Population Density	4,868/sq.mi.
Housing Units in Area	5,091
Percent People of Color	100%
Households in Area	3,687
Households on Public Assistance	275
Persons With Low Income	7,806
Percent With Low Income	89%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.4714
Center Longitude	-66.7257
Total Area	3.121 sq.mi.
Land Area	59%
Water Area	41%

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	529 (6%)
Minors 17 years and younger	2,062 (23%)
Adults 18 years and older	6,886 (77%)
Seniors 65 years and older	1,902 (21%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,142 (35%)
African-American	186 (2%)
Hispanic-Origin	8,870 (99%)
Asian	160 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	2 (0%)
Other/Multiracial	2,047 (23%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	792 (12.91%)
9th through 12th Grade	575 (9.37%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	2,102 (57.07%)
$15,000 - $25,000	624 (16.94%)
$25,000 - $50,000	687 (18.65%)
$50,000 - $75,000	189 (5.13%)
Greater than $75,000	81 (2.2%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	2,174 (35.43%)
Some College/2-year	617 (10.06%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,464 (23.86%)

Detailed Facility Report

Facility Summary

DEPT OF ED - MARIA CADILLA

AVE ESTEBAN PADILLA, ARECIBO, PR 00613

FRS (Facility Registry Service) ID: 110007802324

EPA Region: 02

Latitude: 18.4715

Longitude: -66.72185

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PR0000012625)

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		110007802324					N	18.4715	-66.72185
RCRAInfo	RCRA	PR0000012625	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007802324	DEPT OF ED - MARIA CADILLA	AVE ESTEBAN PADILLA, ARECIBO, PR 00613	Arecibo Municipio
RCRAInfo	RCRA	PR0000012625	DEPT OF ED - MARIA CADILLA	AVE ESTEBAN PADILLA, ARECIBO, PR 00613	Arecibo Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PR0000012625	No	08/09/2025	0	08/08/2025

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: PR0000012625)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	6,805
Population Density	3,854/sq.mi.
Housing Units in Area	4,037
Percent People of Color	100%
Households in Area	2,848
Households on Public Assistance	238
Persons With Low Income	5,955
Percent With Low Income	89%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.4715
Center Longitude	-66.72185
Total Area	3.121 sq.mi.
Land Area	57%
Water Area	43%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,627 (57.11%)
$15,000 - $25,000	509 (17.87%)
$25,000 - $50,000	514 (18.04%)
$50,000 - $75,000	143 (5.02%)
Greater than $75,000	56 (1.97%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	418 (6%)
Minors 17 years and younger	1,559 (23%)
Adults 18 years and older	5,247 (77%)
Seniors 65 years and older	1,484 (22%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,397 (35%)
African-American	157 (2%)
Hispanic-Origin	6,741 (99%)
Asian	122 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	1 (0%)
Other/Multiracial	1,557 (23%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	581 (12.37%)
9th through 12th Grade	469 (9.99%)
High School Diploma	1,645 (35.04%)
Some College/2-year	479 (10.2%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,140 (24.28%)

Detailed Facility Report

Facility Summary

ESSO STANDARD OIL CO - PR CO-117

AVE JUAN ROSADO 253, ARECIBO, PR 00612

FRS (Facility Registry Service) ID: 110004894393

EPA Region: 02

Latitude: 18.46801

Longitude: -66.71763

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	09/15/2000
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, (PRR000009530)

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		110004894393					N	18.46801	-66.71763
RCRAInfo	RCRA	PRR000009530	VSQG	Active (H)			N	18.469097	-66.716377

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004894393	ESSO STANDARD OIL CO - PR CO-117	AVE JUAN ROSADO 253, ARECIBO, PR 00612	Arecibo Municipio
RCRAInfo	RCRA	PRR000009530	ESSO STANDARD OIL CO - PR CO-117	AVE JUAN ROSADO 253, ARECIBO, PR 00612	Arecibo Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000009530	No	08/09/2025	0	08/08/2025

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: PRR000009530)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	5,171
Population Density	2,398/sq.mi.
Housing Units in Area	3,187
Percent People of Color	100%
Households in Area	2,160
Households on Public Assistance	192
Persons With Low Income	4,504
Percent With Low Income	88%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.46801
Center Longitude	-66.71763
Total Area	3.121 sq.mi.
Land Area	69%
Water Area	31%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,171 (54.29%)
$15,000 - $25,000	423 (19.61%)
$25,000 - $50,000	384 (17.8%)
$50,000 - $75,000	121 (5.61%)
Greater than $75,000	58 (2.69%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	344 (7%)
Minors 17 years and younger	1,107 (21%)
Adults 18 years and older	4,063 (79%)
Seniors 65 years and older	1,166 (23%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	1,809 (35%)
African-American	155 (3%)
Hispanic-Origin	5,137 (99%)
Asian	88 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	3 (0%)
Other/Multiracial	1,251 (24%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	372 (10.36%)
9th through 12th Grade	393 (10.94%)
High School Diploma	1,144 (31.85%)
Some College/2-year	452 (12.58%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	967 (26.92%)

Detailed Facility Report

Facility Summary

ESSO STANDARD OIL CO - PR CO-118

AVE LUIS LLORENS TORRES 205, ARECIBO, PR 00612

FRS (Facility Registry Service) ID: 110007174477

EPA Region: 02

Latitude: 18.46796

Longitude: -66.71929

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): Operating Minor (PR0000007201300080)

Clean Water Act (CWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRR000003301)

Safe Drinking Water Act (SDWA): No Information

Toxic Releases (TRI): No Information

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

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007174477					N	18.46796	-66.71929
ICIS-Air	CAA	PR0000007201300080	Minor Emissions	Operating	CAACFC		N	18.469042	-66.720643
RCRAInfo	RCRA	PRR000003301	Other	Inactive ( )			N	18.469042	-66.720643

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007174477	ESSO STANDARD OIL CO - PR CO-118	AVE LUIS LLORENS TORRES 205, ARECIBO, PR 00612	Arecibo Municipio
ICIS-Air	CAA	PR0000007201300080	TONY'S ESSO SERVICE CENTER	AVENIDA LUIS LLORENS TORRES205, ARECIBO, PR 00612	Arecibo Municipio
RCRAInfo	RCRA	PRR000003301	ESSO STANDARD OIL CO - PR CO-118	AVE LLORENS TORRES, ARECIBO, PR 00612	Arecibo Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-Air	PR0000007201300080	5013	Motor Vehicle Supplies And New Parts

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
ICIS-Air	PR0000007201300080	999999	

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CAA	PR0000007201300080	No	08/09/2025	0	08/08/2025
RCRA	PRR000003301	No	08/09/2025	0	08/08/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	
CAA (Source ID: PR0000007201300080)		10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/0
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No I
	HPV History											
	Violation Type / Agency / Programs / Pollutants											

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRR000003301)		10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation / Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	6,287
Population Density	2,890/sq.mi.

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	413 (7%)
Minors 17 years and younger	1,397 (22%)

General Statistics (ACS (American Community Survey))	
Housing Units in Area	3,778
Percent People of Color	100%
Households in Area	2,625
Households on Public Assistance	221
Persons With Low Income	5,493
Percent With Low Income	89%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.46796
Center Longitude	-66.71929
Total Area	3.121 sq.mi.
Land Area	70%
Water Area	30%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,463 (55.71%)
$15,000 - $25,000	494 (18.81%)
$25,000 - $50,000	468 (17.82%)
$50,000 - $75,000	138 (5.26%)
Greater than $75,000	63 (2.4%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Adults 18 years and older	4,890 (78%)
Seniors 65 years and older	1,387 (22%)
Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,189 (35%)
African-American	168 (3%)
Hispanic-Origin	6,238 (99%)
Asian	111 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	2 (0%)
Other/Multiracial	1,515 (24%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	501 (11.5%)
9th through 12th Grade	465 (10.68%)
High School Diploma	1,443 (33.13%)
Some College/2-year	512 (11.76%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,102 (25.3%)

Detailed Facility Report

Facility Summary

HOSPITAL METROPOLITANO DR SUSONI

55 CALLE PALMA, ARECIBO, PR 00614

FRS (Facility Registry Service) ID: 110037441408

EPA Region: 02

Latitude: 18.47312

Longitude: -66.71655

Locational Data Source: FRS

Industries: Hospitals

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	12/18/2012
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, (PRR000021790)

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		110037441408					N	18.47312	-66.71655
RCRAInfo	RCRA	PRR000021790	SQG	Active (H)			N	18.471942	-66.71738

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110037441408	HOSPITAL METROPOLITANO DR SUSONI	55 CALLE PALMA, ARECIBO, PR 00614	Arecibo Municipio

System	Statute	Identifier	Facility Name	Facility Address	Facility County
RCRAInfo	RCRA	PRR000021790	HOSPITAL METROPOLITANO DR SUSONI	55 PALMA ST, ARECIBO, PR 00612	Arecibo 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	PRR000021790	622110	General Medical and Surgical Hospitals

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000021790	No	08/09/2025	0	08/08/2025

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: PRR000021790)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	3,051
Population Density	1,967/sq.mi.
Housing Units in Area	2,131
Percent People of Color	100%
Households in Area	1,301
Households on Public Assistance	99
Persons With Low Income	2,565
Percent With Low Income	86%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.47312
Center Longitude	-66.71655
Total Area	3.121 sq.mi.
Land Area	50%
Water Area	50%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	620 (47.69%)
$15,000 - $25,000	273 (21%)
$25,000 - $50,000	277 (21.31%)
$50,000 - $75,000	89 (6.85%)
Greater than $75,000	41 (3.15%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	150 (5%)
Minors 17 years and younger	531 (17%)
Adults 18 years and older	2,520 (83%)
Seniors 65 years and older	816 (27%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	1,117 (37%)
African-American	109 (4%)
Hispanic-Origin	3,041 (100%)
Asian	62 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	2 (0%)
Other/Multiracial	655 (21%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	207 (9.15%)
9th through 12th Grade	219 (9.68%)
High School Diploma	659 (29.13%)
Some College/2-year	285 (12.6%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	711 (31.43%)

Detailed Facility Report

Facility Summary

MUNICIPALITY OF ARECIBO

100 AVENIDA JOSE DE DIEGO, ARECIBO, PR 00612

FRS (Facility Registry Service) ID: 110035859808

EPA Region: 02

Latitude: 18.47223

Longitude: -66.71642

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	10/31/2019
Compliance Status	Not Applicable
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, (PRU201961)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110035859808					N	18.47223	-66.71642
ICIS-NPDES	CWA	PRU201961	Non-Major: Unpermitted Facility				N	18.47226	-66.71851

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110035859808	MUNICIPALITY OF ARECIBO	100 AVENIDA JOSE DE DIEGO, ARECIBO, PR 00612	Arecibo Municipio

System	Statute	Identifier	Facility Name	Facility Address	Facility County
ICIS-NPDES	CWA	PRU201961	MUNICIPALITY OF ARECIBO	CALLE JOSE DE DIEGO # 100, ARECIBO, PR 00613	Arecibo Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRU201961	No	03/31/2025	0	08/08/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
CWA (Source ID: PRU201961)		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	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Quarterly Noncompliance Report History											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100020414	Rio Grande de Arecibo 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	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2024	PRNR7A1a	RIO SANTIAGO	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)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

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

DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	3,334
Population Density	2,007/sq.mi.
Housing Units in Area	2,262
Percent People of Color	100%
Households in Area	1,413
Households on Public Assistance	116
Persons With Low Income	2,830
Percent With Low Income	86%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.47223
Center Longitude	-66.71642
Total Area	3.121 sq.mi.
Land Area	53%
Water Area	47%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	698 (49.33%)
$15,000 - $25,000	294 (20.78%)
$25,000 - $50,000	286 (20.21%)
$50,000 - $75,000	94 (6.64%)
Greater than $75,000	43 (3.04%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	177 (5%)
Minors 17 years and younger	618 (19%)
Adults 18 years and older	2,716 (81%)
Seniors 65 years and older	853 (26%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	1,213 (36%)
African-American	115 (3%)
Hispanic-Origin	3,319 (100%)
Asian	64 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	2 (0%)
Other/Multiracial	736 (22%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	221 (9.12%)
9th through 12th Grade	241 (9.95%)
High School Diploma	727 (30.02%)
Some College/2-year	304 (12.55%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	739 (30.51%)

Detailed Facility Report

Facility Summary

NC TRANSMITION PARTS

150 JUAN ROSADO AVE, ARECIBO, PR 00612

FRS (Facility Registry Service) ID: 110004890315

EPA Region: 02

Latitude: 18.469379

Longitude: -66.716114

Locational Data Source: FRS

Industries: Repair and Maintenance

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	08/11/2009
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, (PRD987381076)

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		110004890315					N	18.469379	-66.716114
RCRAInfo	RCRA	PRD987381076	VSQG	Active (H)			N	18.469964	-66.715434

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004890315	NC TRANSMITION PARTS	150 JUAN ROSADO AVE, ARECIBO, PR 00612	Arecibo Municipio
RCRAInfo	RCRA	PRD987381076	NC TRANSMITION PARTS	150 JUAN ROSADO AVE, ARECIBO, PR 00612	Arecibo 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	PRD987381076	81119	Other Automotive Repair and Maintenance

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRD987381076	No	08/09/2025	0	08/08/2025

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: PRD987381076)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

e-Manifest Hazardous Waste History (Public)

Hazardous Waste Shipped in Kilograms by Year (Through 5/10/2025)

Source ID	Waste Description	2022	2023	2024	2025
PRD987381076	Hazardous Waste	965	1,135	832	605
PRD987381076	Acute Hazardous Waste	0	0	0	0
PRD987381076	Pharmaceutical Hazardous Waste	0	0	0	0

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

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	4,112
Population Density	2,055/sq.mi.
Housing Units in Area	2,629
Percent People of Color	100%
Households in Area	1,718
Households on Public Assistance	158
Persons With Low Income	3,547
Percent With Low Income	88%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.469379
Center Longitude	-66.716114
Total Area	3.121 sq.mi.
Land Area	64%
Water Area	36%

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	253 (6%)
Minors 17 years and younger	845 (21%)
Adults 18 years and older	3,267 (79%)
Seniors 65 years and older	962 (23%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	1,469 (36%)
African-American	134 (3%)
Hispanic-Origin	4,086 (99%)
Asian	68 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	3 (0%)
Other/Multiracial	967 (24%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	259 (9.01%)
9th through 12th Grade	304 (10.57%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	890 (51.9%)
$15,000 - $25,000	354 (20.64%)
$25,000 - $50,000	318 (18.54%)
$50,000 - $75,000	105 (6.12%)
Greater than $75,000	48 (2.8%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	909 (31.61%)
Some College/2-year	369 (12.83%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	824 (28.65%)

Detailed Facility Report

Facility Summary

PRASA ARECIBO REGIONAL OFFICE

CAPITAN ABREU ST, ARECIBO, PR 00612

FRS (Facility Registry Service) ID: 110007810547

EPA Region: 02

Latitude: 18.471475

Longitude: -66.721833

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	02/28/1991
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, (PRD987369733)

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		110007810547					N	18.471475	-66.721833
RCRAInfo	RCRA	PRD987369733	Other	Inactive ( )			N	18.471475	-66.721833

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007810547	PRASA ARECIBO REGIONAL OFFICE	CAPITAN ABREU ST, ARECIBO, PR 00612	Arecibo Municipio
RCRAInfo	RCRA	PRD987369733	PRASA ARECIBO REGIONAL OFFICE	CAPITAN ABREU ST, ARECIBO, PR 00612	Arecibo Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRD987369733	No	08/09/2025	0	08/08/2025

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: PRD987369733)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	6,804
Population Density	3,847/sq.mi.
Housing Units in Area	4,038
Percent People of Color	100%
Households in Area	2,847
Households on Public Assistance	238
Persons With Low Income	5,954
Percent With Low Income	89%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.471475
Center Longitude	-66.721833
Total Area	3.121 sq.mi.
Land Area	57%
Water Area	43%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,628 (57.16%)
$15,000 - $25,000	508 (17.84%)
$25,000 - $50,000	513 (18.01%)
$50,000 - $75,000	143 (5.02%)
Greater than $75,000	56 (1.97%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	418 (6%)
Minors 17 years and younger	1,559 (23%)
Adults 18 years and older	5,246 (77%)
Seniors 65 years and older	1,484 (22%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,395 (35%)
African-American	157 (2%)
Hispanic-Origin	6,740 (99%)
Asian	122 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	1 (0%)
Other/Multiracial	1,559 (23%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	580 (12.36%)
9th through 12th Grade	470 (10.01%)
High School Diploma	1,644 (35.02%)
Some College/2-year	480 (10.23%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,140 (24.29%)

Detailed Facility Report

Facility Summary

SHELL SAN LUIS SS 0418

406 AVENIDA JOSE DE DIEGO, ARECIBO, PR 00612

FRS (Facility Registry Service) ID: 110004892689

EPA Region: 02

Latitude: 18.4722

Longitude: -66.72477

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRR000003954)

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		110004892689					N	18.4722	-66.72477
ICIS		1400005319					N	18.4725	-66.724722
RCRAInfo	RCRA	PRR000003954	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004892689	SHELL SAN LUIS SS 0418	406 AVENIDA JOSE DE DIEGO, ARECIBO, PR 00612	Arecibo Municipio
ICIS		1400005319	SHELL #418	CALLE JOSE DE DIEGO #406, ARECIBO, PR 00612	Arecibo Municipio
RCRAInfo	RCRA	PRR000003954	SAN LUIS SS 0418	CALLE JOSE DE DIEGO 406, ARECIBO, PR 00613	Arecibo Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000003954	No	08/09/2025	0	08/08/2025

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: PRR000003954)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	8,185
Population Density	4,755/sq.mi.
Housing Units in Area	4,728
Percent People of Color	100%
Households in Area	3,401
Households on Public Assistance	266
Persons With Low Income	7,163
Percent With Low Income	89%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.4722
Center Longitude	-66.72477
Total Area	3.121 sq.mi.
Land Area	55%
Water Area	45%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,961 (57.68%)
$15,000 - $25,000	582 (17.12%)
$25,000 - $50,000	623 (18.32%)
$50,000 - $75,000	168 (4.94%)
Greater than $75,000	66 (1.94%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	490 (6%)
Minors 17 years and younger	1,900 (23%)
Adults 18 years and older	6,285 (77%)
Seniors 65 years and older	1,757 (21%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,877 (35%)
African-American	166 (2%)
Hispanic-Origin	8,109 (99%)
Asian	146 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	2 (0%)
Other/Multiracial	1,855 (23%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	736 (13.08%)
9th through 12th Grade	538 (9.56%)
High School Diploma	2,005 (35.64%)
Some College/2-year	549 (9.76%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,327 (23.59%)

Detailed Facility Report

Facility Summary

TEXACO PR INC VILLA SS

PR-2 KM 77.1, ARECIBO, PR 00612

FRS (Facility Registry Service) ID: 110007821740

EPA Region: 02

Latitude: 18.472252

Longitude: -66.724314

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, (PRR000009175), Inactive Other, (PRR000006536), Inactive Other, (PRR000010363)

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		110007821740					N	18.472252	-66.724314
RCRAInfo	RCRA	PRR000009175	Other	Inactive ( )			N	18.472111	-66.726742
RCRAInfo	RCRA	PRR000006536	Other	Inactive ( )			N	18.472175	-66.72578
RCRAInfo	RCRA	PRR000010363	Other	Inactive ( )			N	18.472175	-66.72578

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007821740	TEXACO PR INC VILLA SS	PR-2 KM 77.1, ARECIBO, PR 00612	Arecibo Municipio
RCRAInfo	RCRA	PRR000009175	TEXACO PR INC AUREA CANALES SS	RD 2 KM 77.2, ARECIBO, PR 00612	Arecibo Municipio
RCRAInfo	RCRA	PRR000006536	TEXACO PR INC - HECTOR NOLLA SS	RD PR 2 KM 77.1, ARECIBO, PR 00612	Arecibo Municipio
RCRAInfo	RCRA	PRR000010363	TEXACO PR INC VILLA SS	RD 2 KM 77.1, ARECIBO, PR 00612	Arecibo Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000009175	No	08/09/2025	0	08/08/2025
RCRA	PRR000006536	No	08/09/2025	0	08/08/2025
RCRA	PRR000010363	No	08/09/2025	0	08/08/2025

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: PRR000006536)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											
RCRA (Source ID: PRR000009175)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											
RCRA (Source ID: PRR000010363)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	7,932
Population Density	4,647/sq.mi.
Housing Units in Area	4,606
Percent People of Color	100%
Households in Area	3,304
Households on Public Assistance	260
Persons With Low Income	6,941
Percent With Low Income	89%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.472252
Center Longitude	-66.724314
Total Area	3.121 sq.mi.
Land Area	55%

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	474 (6%)
Minors 17 years and younger	1,842 (23%)
Adults 18 years and older	6,091 (77%)
Seniors 65 years and older	1,711 (22%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,792 (35%)
African-American	161 (2%)
Hispanic-Origin	7,856 (99%)
Asian	142 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	2 (0%)
Other/Multiracial	1,798 (23%)

Geography	
Water Area	45%
Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,905 (57.66%)
$15,000 - $25,000	568 (17.19%)
$25,000 - $50,000	605 (18.31%)
$50,000 - $75,000	163 (4.93%)
Greater than $75,000	63 (1.91%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	713 (13.06%)
9th through 12th Grade	526 (9.64%)
High School Diploma	1,948 (35.69%)
Some College/2-year	526 (9.64%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,284 (23.53%)

Detailed Facility Report

Facility Summary

WALGREENS 142

155 AVENIDA JOSE DE DIEGO, ARECIBO, PR 00612

FRS (Facility Registry Service) ID: 110004892386

EPA Region: 02

Latitude: 18.4722

Longitude: -66.71672

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active VSQG, (PRR000003111)

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		110004892386					N	18.4722	-66.71672
RCRAInfo	RCRA	PRR000003111	VSQG	Active (H)			N	18.472132	-66.71671

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004892386	WALGREENS 142	155 AVENIDA JOSE DE DIEGO, ARECIBO, PR 00612	Arecibo Municipio
RCRAInfo	RCRA	PRR000003111	WALGREENS 142	DE DIEGO 155, ARECIBO, PR 00612-4524	Arecibo Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000003111	No	08/09/2025	0	08/08/2025

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: PRR000003111)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	3,492
Population Density	2,105/sq.mi.
Housing Units in Area	2,340
Percent People of Color	100%
Households in Area	1,478
Households on Public Assistance	128
Persons With Low Income	2,981
Percent With Low Income	87%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.4722
Center Longitude	-66.71672
Total Area	3.121 sq.mi.
Land Area	53%
Water Area	47%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	744 (50.44%)
$15,000 - $25,000	306 (20.75%)
$25,000 - $50,000	288 (19.53%)
$50,000 - $75,000	94 (6.37%)
Greater than $75,000	43 (2.92%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	193 (6%)
Minors 17 years and younger	664 (19%)
Adults 18 years and older	2,827 (81%)
Seniors 65 years and older	872 (25%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	1,267 (36%)
African-American	120 (3%)
Hispanic-Origin	3,475 (100%)
Asian	65 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	2 (0%)
Other/Multiracial	776 (22%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	231 (9.19%)
9th through 12th Grade	255 (10.15%)
High School Diploma	764 (30.4%)
Some College/2-year	313 (12.46%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	758 (30.16%)

Detailed Facility Report

Facility Summary

WALGREENS #1463

446 AVE JUAN ROSADO, ARECIBO, PR 00612

FRS (Facility Registry Service) ID: 110063381200

EPA Region: 02

Latitude: 18.469774

Longitude: -66.715612

Locational Data Source: FRS

Industries: Health and Personal Care Retailers

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active VSQG, (PRR000024984)

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		110063381200					N	18.469774	-66.715612
RCRAInfo	RCRA	PRR000024984	VSQG	Active (H)			N	18.468794	-66.716786

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110063381200	WALGREENS #1463	446 AVE JUAN ROSADO, ARECIBO, PR 00612	Arecibo Municipio
RCRAInfo	RCRA	PRR000024984	WALGREENS #1463	446 AVE JUAN ROSADO, ARECIBO, PR 00612	Arecibo 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	PRR000024984	456110	Pharmacies and Drug Retailers

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000024984	No	08/09/2025	0	08/08/2025

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: PRR000024984)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

e-Manifest Hazardous Waste History (Public)

Hazardous Waste Shipped in Kilograms by Year (Through 5/10/2025)

Source ID	Waste Description	2022	2023	2024	2025
PRR000024984	Hazardous Waste	39 - 40	29	38 - 39	--
PRR000024984	Acute Hazardous Waste	0 - 1	0	0 - 1	--
PRR000024984	Pharmaceutical Hazardous Waste	0 - 1	0	0 - 1	--

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

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	3,756
Population Density	1,913/sq.mi.
Housing Units in Area	2,451
Percent People of Color	100%
Households in Area	1,573
Households on Public Assistance	139
Persons With Low Income	3,214
Percent With Low Income	87%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.469774
Center Longitude	-66.715612
Total Area	3.121 sq.mi.
Land Area	63%
Water Area	37%

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	220 (6%)
Minors 17 years and younger	747 (20%)
Adults 18 years and older	3,010 (80%)
Seniors 65 years and older	913 (24%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	1,347 (36%)
African-American	125 (3%)
Hispanic-Origin	3,736 (99%)
Asian	64 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	3 (0%)
Other/Multiracial	870 (23%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	238 (8.94%)
9th through 12th Grade	277 (10.41%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	795 (50.48%)
$15,000 - $25,000	327 (20.76%)
$25,000 - $50,000	305 (19.37%)
$50,000 - $75,000	101 (6.41%)
Greater than $75,000	47 (2.98%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	824 (30.95%)
Some College/2-year	343 (12.89%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	778 (29.23%)

Detailed Facility Report

Facility Summary

WESTERN AUTO

2 LLORENS TORRES AVE, ARECIBO, PR 00612

FRS (Facility Registry Service) ID: 110031297291

EPA Region: 02

Latitude: 18.47046

Longitude: -66.7223

Locational Data Source: FRS

Industries: Repair and Maintenance

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, (PRR000019513)

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		110031297291					N	18.47046	-66.7223
RCRAInfo	RCRA	PRR000019513	VSQG	Active (H)			N	18.469042	-66.720643

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110031297291	WESTERN AUTO	2 LLORENS TORRES AVE, ARECIBO, PR 00612	Arecibo Municipio
RCRAInfo	RCRA	PRR000019513	WESTERN AUTO	2 LLORENS TORRES AVE, ARECIBO, PR 00612	Arecibo 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	PRR000019513	811111	General Automotive Repair

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000019513	No	08/09/2025	0	08/08/2025

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: PRR000019513)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/30/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	No	--
Lead	Yes	Lead (2008)	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	7,475
Population Density	3,921/sq.mi.
Housing Units in Area	4,391
Percent People of Color	100%
Households in Area	3,124
Households on Public Assistance	250
Persons With Low Income	6,540
Percent With Low Income	89%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.47046
Center Longitude	-66.7223
Total Area	3.121 sq.mi.
Land Area	61%
Water Area	39%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,788 (57.22%)
$15,000 - $25,000	552 (17.66%)
$25,000 - $50,000	566 (18.11%)
$50,000 - $75,000	156 (4.99%)
Greater than $75,000	63 (2.02%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	462 (6%)
Minors 17 years and younger	1,721 (23%)
Adults 18 years and older	5,754 (77%)
Seniors 65 years and older	1,628 (22%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,616 (35%)
African-American	167 (2%)
Hispanic-Origin	7,405 (99%)
Asian	136 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	1 (0%)
Other/Multiracial	1,736 (23%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	657 (12.73%)
9th through 12th Grade	518 (10.03%)
High School Diploma	1,806 (34.99%)
Some College/2-year	525 (10.17%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,231 (23.85%)

RCRAInfo Facility

Facility Information

US POSTAL SERVICE USPS
ARECIBO PUEBLO STATION
Handler ID: PRP000975266
CARR 10 KM 8.7
ARECIBO, PR 00612
County Name: ARECIBO
Latitude: 18.469811
Longitude: -66.715565
Hazardous Waste Generator:
Owner Name:

BIENNIAL REPORT SUMMARY

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

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE
Not in a universe

LIST OF PROCESS UNIT INFORMATION FOR GROUP

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

No Process Information is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
491110	POSTAL SERVICE

LIST OF WASTE CODES AND DESCRIPTIONS

No Waste Codes are available for the facility listed above.

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

Last updated on August 11, 2025

Leaking UST List LUST:

The DNER maintains a list of Leaking Underground Storage Tanks (LUST) incident reports. According to the LUST list available from PREQB (2020), the following LUST sites are located within 0.5 miles (0.8 km) from the Site.

Active LUSTs (2):

1. **UST ID 86-1182 ESSO 08118**
   Distance to Site: 0.22 mi southwest
   Address: AVE LLORENS TORRES 205, Arecibo, Puerto Rico 00612
   FRS ID: 110007174477
   RCRA ID: PRR000003301
   Status: Active LUST according to PR DNER 2020 lists; the facility is owned by Esso Standard Oil Co., and the leak was discovered on August 3, 2001, during UST removal on March 8, 1995. ***The direction of the plume and the current status of the leak are unknown. Site topography suggests that releases at this site are not expected to have had the potential to migrate to affect the subject property, thus it does not appear to present an environmental concern.***

2. **UST ID 86-1181 ESSO S/S CO-117**
   Distance to Site: 0.23 mi southeast
   Address: #253 JUAN ROSADO AVE., Arecibo, Puerto Rico 00612
   FRS ID: 110004894393
   RCRA ID: PRR000009530
   Status: Active LUST according to PR DNER 2020 lists; the facility is owned by Esso Standard Oil Co, and the leak was discovered on June 29, 1994 because of odors complaints. ***The direction of the plume and the current status of the leak are unknown. Site topography suggests that releases at this site are not expected to have had the potential to migrate to affect the subject property, thus it does not appear to present an environmental concern.***

Inactive LUSTs (5):

1. **UST ID: 86-1617 HECTOR NOLLA S/S**
   Distance to Site: 0.2 mi southwest
   Address: AVE LLORENS TORRES 289, Ave. Arecibo, Puerto Rico 00612
   Status: Inactive LUST according to PR DNER 2020 lists; the facility is owned by the Texaco P.R. The leak was discovered on August 18, 1997. It was released from further investigation and remedial actions by the DNER. ***Since it was released from further investigation, past releases at this site are not expected to have had the potential to migrate to affect the subject property, thus it does not appear to present an environmental concern.***
2. **UST ID: 88-0110 HOSPITAL REGIONAL DE ARECIBO**
   Distance to Site: Adjacent

Address: CALLE PALMA # 55, Ave., Arecibo, Puerto Rico 00612
FRS ID: 110037441408
RCRA ID: PRR000021790
Status: Inactive LUST according to PR DNER 2020 lists; the facility is owned by the Dept. de Salud de PR. It is unknown how and when the leak was discovered. It was released from further investigation and remedial actions by the DNE on April 21, 2005. ***Since it was released from further investigation past releases at this site are not expected to have had the potential to migrate to affect the subject property, thus it does not appear to present an environmental concern.***

3. **UST ID: 86-0757 Taller de Mecánica AEE**
   Distance to Site: 0.12 mi southeast
   Address: #81 Ave San Rosado, Arecibo, Puerto Rico 00612
   Ave. Arecibo, Puerto Rico 00612
   Status: Inactive LUST according to PR DNER 2020 lists; the facility is owned by the Autoridad Energía Eléctrica. The leak was discovered on September 1, 1997. It was released from further investigation and remedial actions by the DNER on May 28, 1995. ***Since it was released from further investigation and because of site topography, past releases at this site are not expected to have had the potential to migrate to affect the subject property, thus it does not appear to present an environmental concern.***

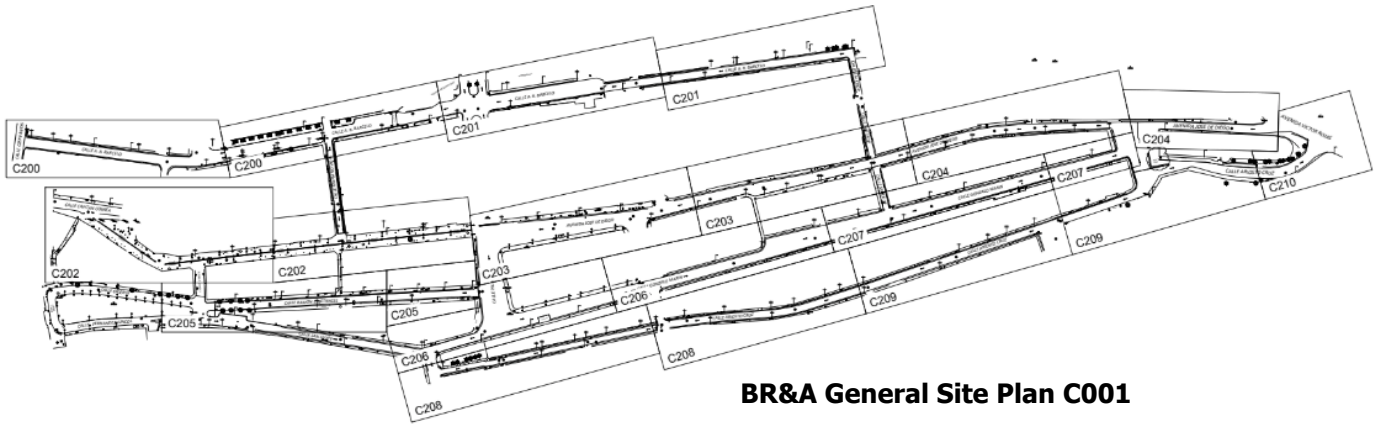
4. **UST ID: 86-0899 Shell 3778**
   Distance to Site: 0.3 mi south
   Address: Carr 2 Int. PR-10, Arecibo, Puerto Rico 00612
   Status: Inactive LUST according to PR DNER 2020 lists; the facility is owned by the Shell Company (P.R.) Limited. The leak was discovered on June 7, 1995, because of product in man well. It was released from further investigation and remedial actions by the DNER on March 15, 2001. ***Since it was released from further investigation and because of site topography, past releases at this site are not expected to have had the potential to migrate to affect the subject property, thus it does not appear to present an environmental concern.***

5. **UST ID: 86-0847 Shell S/S 002968**
   Distance to Site: 0.3 mi south
   Address: Rd. 2Km. 74.4, Arecibo, Puerto Rico 00612
   Status: Inactive LUST according to PR DNER 2020 lists; the facility is owned by the Shell Company (P.R.) Limited. The leak was discovered on December 17, 1999. It was released from further investigation and remedial actions by the DNER on December 23, 2003. ***Since it was released from further investigation and because of site topography, past releases at this site are not expected to have had the potential to migrate to affect the subject property, thus it does not appear to present an environmental concern.***

ASBESTOS-CONTAINING MATERIALS LIMITED SURVEY

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO

Ave. Jose de Diego, Arecibo, Puerto Rico 00613



BR&A General Site Plan C001

Inspection Date: February 15, 2024

Prepared for: BR&A, LLC

Prepared by: Nortol Environmental & Occupational Safety, Inc.

Inspector:

Emanuel Ortíz
Asbestos Inspector
ASB-0124-0003-SI

nortol.
Environmental & Occupational Safety, Inc. Est. 2002

***NORTOL** has performed this survey in a thorough and professional manner consistent with commonly accepted industry standards.*

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

Table of Contents

Acronyms 3

Introduction 4

Asbestos Survey Report 4

- Survey Protocol
- Sampling Procedures
- Regulatory Review
- Survey Areas – Extent of Survey Coverage
- Findings

Conclusion 7

Attachment 1 – Inspector's Credentials

Attachment 2 – Representative Pictures\Photograph Log

Attachment 3 – Certification for Non-Presence Asbestos (PGC-009)

Acronyms

A/C	=	Air Conditioning
ACM	=	Asbestos-containing Material
ACBM	=	Asbestos-containing Building Material
AHERA	=	Asbestos Hazard Emergency Response Act
ASHARA	=	Asbestos School Hazard Abatement and Reauthorization Act
CFR	=	Code of Federal Regulations
CPSC	=	Consumer Product Safety Commission
EPA	=	Environmental Protection Agency
Ft2	=	square feet
HA	=	Homogeneous Area
HUD	=	Department of Housing and Urban Development
LF	=	Linear Feet
mg/cm2	=	milligrams per square centimeter
NESHAP'S	=	National Emission Standards for Hazardous Air Pollutants
NIOSH	=	National Institute for Occupational Safety and Health
OSHA	=	Occupational Safety and Health Administration
PLM	=	Polarized Light Microscopy
PRDOH	=	Puerto Rico Department of Housing
PRDNER	=	Puerto Rico Department of Natural and Environmental Resources
SACM	=	Suspect ACM
SOW	=	Scope of Work
TSI	=	Thermal System Insulation
VFT	=	Vinyl floor tiles

I. INTRODUCTION

As part of the environmental due diligence, this limited survey is intended to assess the general presence, quantity, and location of suspected asbestos-containing materials (SACM) at the ***PR-CRP-000768*** *Urban Center Street and Sidewalk Restoration* project located at *Ave. Jose de Diego, Arecibo, P.R. 00613-108*.

The SACM limited survey was conducted on February 15, 2024, by Mr. Emanuel Ortíz (ACM inspector num. ASB-0124-0003-SI) from Nortol. Inspector's credential(s) is included in **Attachment 1.** Nortol's survey areas and report are limited to the details provided in Section II part D.

Nortol did not identify suspect materials at the reference structure, hence no bulk samples were collected nor sent to the laboratory for analysis. In addition, no suspect material was observed during the visual assessment that needed to be assumed as ACM.

There is concrete, metal, and wood structural components. The floors have terrazzo tiles, asphalt pavement, painted or bare concrete. The survey SOW was limited to C001 plan areas.

II. ASBESTOS SURVEY REPORT

A. Survey Protocol:

This activity was conducted following the latest protocol for assessing materials suspected of containing asbestos as defined by the U.S. Environmental Protection Agency (EPA). It involved a visual walk-through inspection of the accessible areas of the building to develop an inventory of suspect ACM homogeneous materials. During the sampling activities, suspected ACM was touched and observed by the inspector to determine its friability and physical condition. A friable material is defined as a material that when dry, can be crumbled, or reduced to powder by hand pressure. The friability of a material causally relates to the potential of the asbestos fibers to be released. The inspector assessed the suspect ACM according to their physical condition and potential damage.

B. Sampling Procedure:

The technique used for sampling the suspected accessible materials is designed to minimize possible fiber release and in turn possible contamination of surrounding areas. When apply, representative suspected material samples are collected in accordance with the EPA's AHERA/ASHARA guidelines and procedures presented in the *Guide for Controlling Asbestos Containing Materials in Building (EPA 560-6-85-024, June 1985)* and characterized following the

National Emission Standard for Hazardous Air Pollution (NESHAP), subpart M-Asbestos, 40 CFR Part 61-Standard for Demolition and Renovation. Samples of the homogeneous accessible materials are collected in quantities enough to determine asbestos content, and then placed in airtight bags. The bagged samples are properly collected, labeled, and identified. A Chain of Custody form is completed for collected bulk samples which are analyzed by an independent laboratory using the Polarized Light Microscopy (PLM) method. The laboratory utilizes dispersion staining techniques according to US EPA method 600/M4-82-020 incorporating visual estimates of identified material percentages.

C. Regulatory Review:

According to NESHAP's standards (40 CFR 61.141), Asbestos Containing Building Materials are classified into three categories: Category I - Nonfriable asbestos-containing material (ACM), Category II – other Nonfriable ACM, and Regulated asbestos-containing material (RACM). ACMs are classified into three categories according to EPA-AHERA/ASHARA's standards (40 CFR Part 763): Surfacing material, Thermal System Insulation (TSI) and Miscellaneous material.

Once the inspector has identified the ACM in a building, he or she must perform a physical assessment of TSI and friable material. Under § 763.88 of the AHERA Rule, the physical assessment of ACBM involve classifying the material into one of the following seven Categories: Damaged or significantly damaged TSI ACM; Damaged friable surfacing ACM; Significantly damaged friable surfacing ACM; Damaged or significantly damaged friable miscellaneous ACM; ACBM with potential for damage; ACBM with potential for significant damage; and Any remaining friable ACBM or friable suspected ACBM.

The PRDNER- former Environmental Quality Board (Regulation for the Control of Atmospheric Pollution-Rule 422) enacted in 1995, required all commercial and public building, including industries to identify asbestos containing building materials in their structures and take appropriate actions to control the release of asbestos fiber. Asbestos inspection is part of the permitting application process for any future project in the buildings which may include renovation or demolition activities regulated by the PR State/Municipal Offices. To obtain demolition permits in Puerto Rico is necessary to include a certification (OGP-PGC-009 or equivalent) stating that there is no asbestos containing material in the project.

D. Survey Areas – Extent of Survey Coverage:

The survey included a detailed structure inspection providing a general sense of the overall location, type, quantity, and condition of potential ACMs present. The survey was thorough in the interior or exterior accessible functional spaces, and bulk samples (if applied) are taken from the observed suspect materials. The presence of asbestos in suspect materials (if applied) is

assumed or presumed in some cases without bulk samples being collected or analyzed (when applicable). This is necessary for locations where materials are inaccessible or areas that are unsafe to access (e.g., elevated heights, energized equipment, confined spaces, etc.). For those areas that were not safely accessible, suspect materials observed or presumed to be present (if applied) were documented and assumed as ACMs. The survey did not include destructive, intrusive and/or exploratory testing.

Areas Not Included in Survey and Service Constraints: All professional opinions presented in this report are based on information made available either by review of data provided by others or data gathered by Nortol personnel. Nortol affirms that data gathered and presented by Nortol in this report was collected in an appropriate manner in accordance with accepted methods and practices. Any energized utilities/services, including electricity, water and heat were assumed to be active. Materials associated with these items were determined to not be safely accessible and were not sampled. Suspect ACMs associated with these items should be assumed ACM until the systems can be de-energized and safely sampled. The survey did not include access or inspection of confined spaces or subsurface/underground areas including piping, conduits, building footings and soils (surficial or otherwise).

E. Findings

Nortol did not identify SACM at the reference structure, therefore no bulk samples were collected and/or sent to the laboratory for analysis. In addition, no suspect material was observed during the visual assessment that needed to be assumed as ACM.

Representative Pictures\Photograph Log of the structure are provided in **Attachment 2**. Certification for non-presence of asbestos is provided in **Attachment 3**.

III. CONCLUSION

ACM limited survey was conducted for the project identified with the header ID. Nortol did not identify SACM at the referenced structure, hence no bulk samples were collected and/or sent to the laboratory for analysis. In addition, no suspect material was observed during the visual assessment that needed to be assumed as ACM.

Any conditions or materials that could not be visually identified or were out-of-the SOW, were not inspected and may differ from those conditions or materials noted. It was not within the scope of the activity to remove surface materials to investigate portions of the structure or materials that may lay beneath the surface. Nortol's selection of sample locations and frequency of sampling was based on Nortol's observations and the assumption that similar materials in the same area are homogeneous in content.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos or lead abatement contractors in locating ACM. Under no circumstances is the report to be utilized solely as a bidding document or as a project specification document.

Attachment 1

Inspector's Credential

EMANUEL ORTIZ
Puerto Rico
Asbestos Inspector

TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Emanuel Ortiz Vega

Inspector

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

ASB-0124-0003-SI

Número de Registro

18-dic-2024

Fecha de vencimiento

Firma Autorizada - Departamento Recursos Naturales y Ambientales

www.nortolpr.com | info@nortolpr.com | 787.420.0220
PO Box 366457, San Juan, PR 00936-6457

Attachment 2

Representative Pictures\Photograph Log

Emanuel Ortiz / Eduardo Colón
Nortol. Environmental & Occupational Safety, Inc.

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO - **ACM SURVEY PHOTO LOG**

Built circa: Year of construction not available at the moment of inspection.

Thursday, February 15, 2024

Prepared For BR&A, LLC

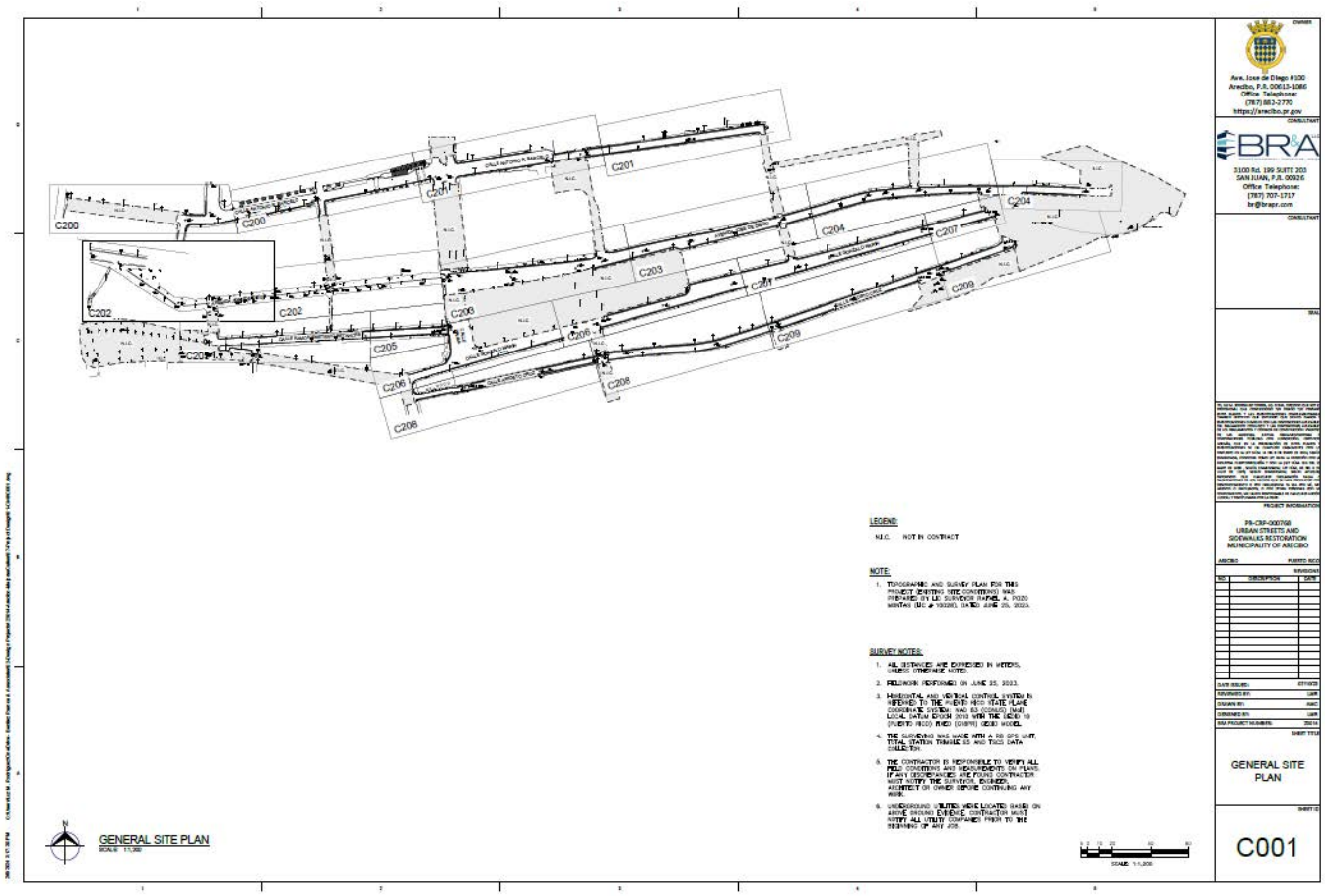
Ave. Jose de Diego #100 Arecibo, P.R. 00613-108

1

SCOPE OF WORK:

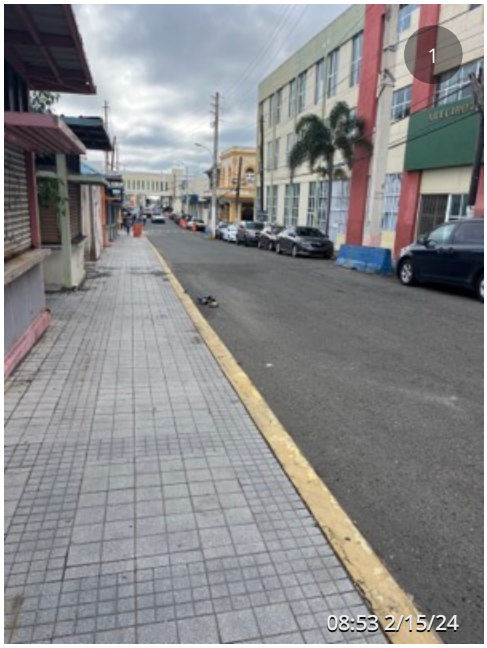
Inspección A/P en asfalto, aceras y postes de alumbrado que están en plano.

10:35 4/30/20

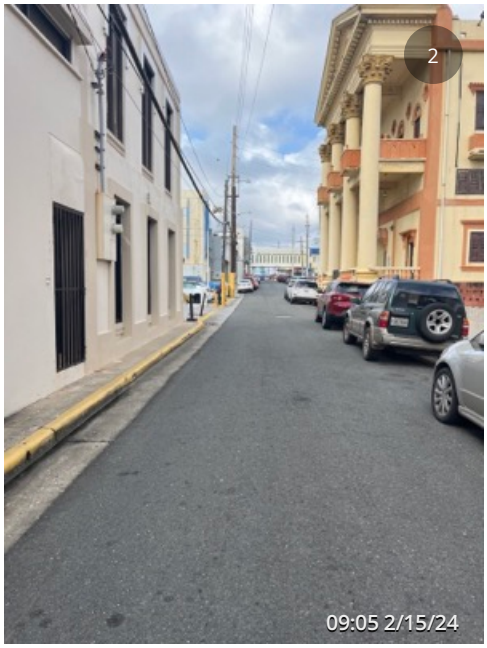


GENERAL VIEWS: ZONE C200

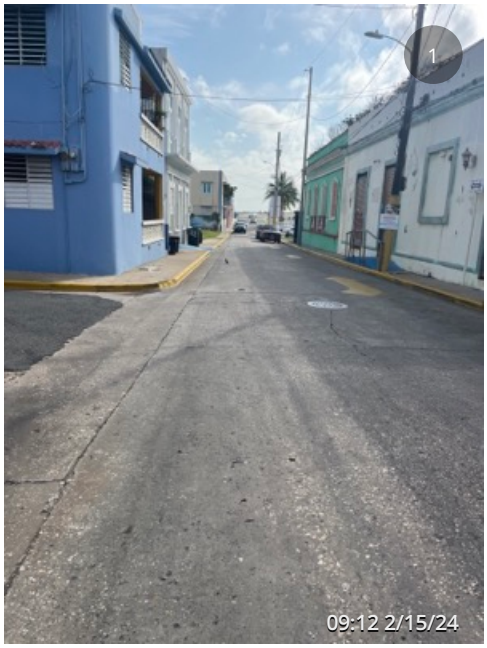
GENERAL VIEWS: ZONE C201

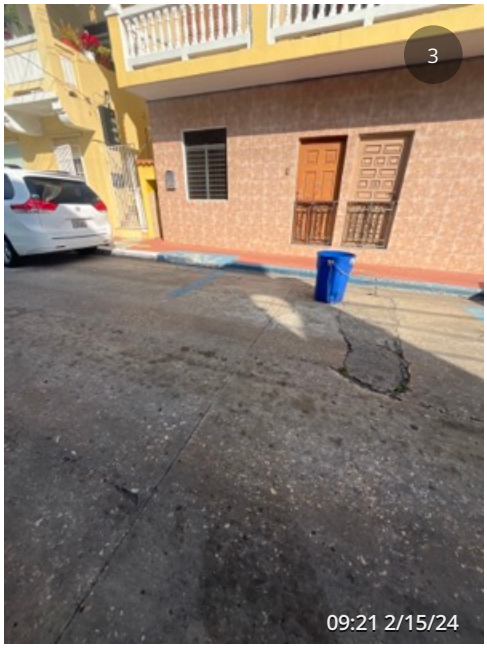


GENERAL VIEWS: ZONE C201

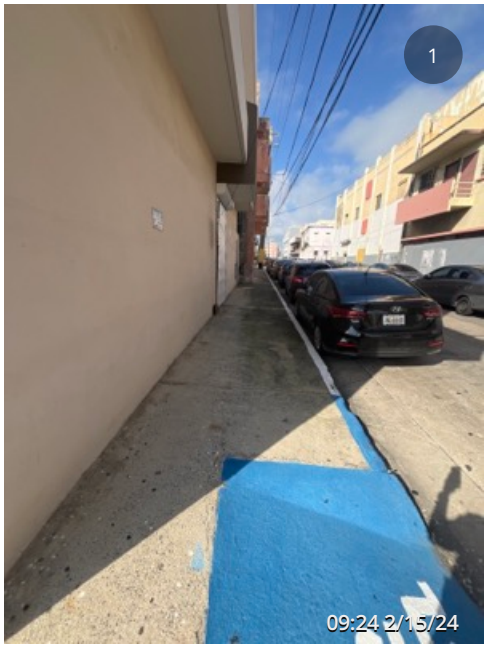


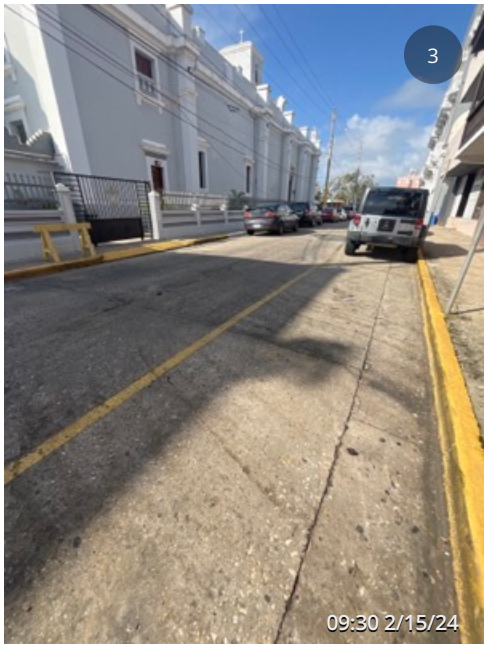
GENERAL VIEWS: ZONE C204

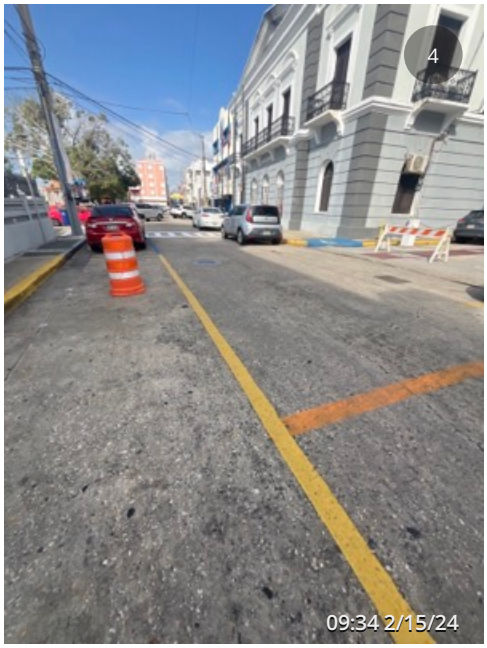




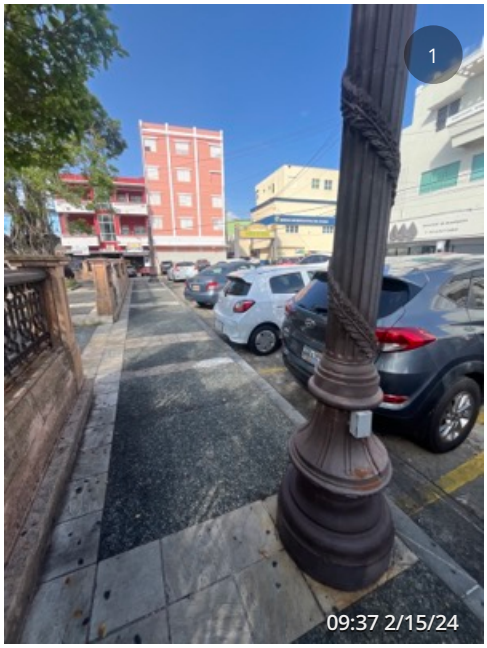
GENERAL VIEWS: ZONE C203

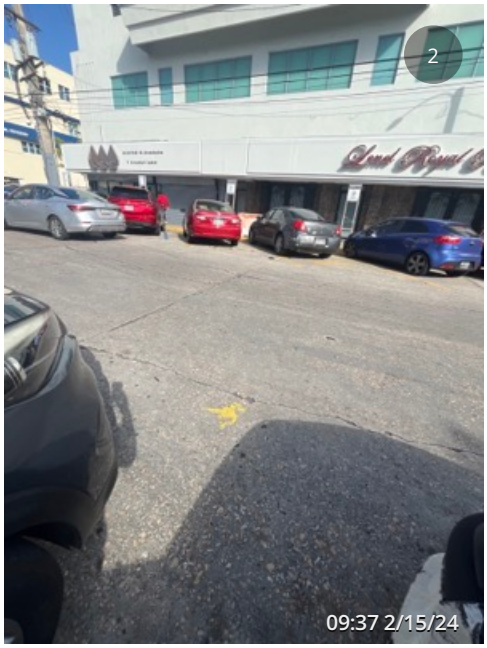


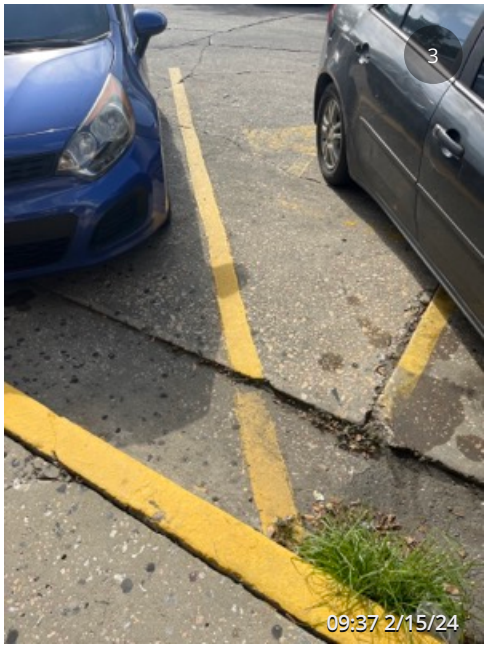


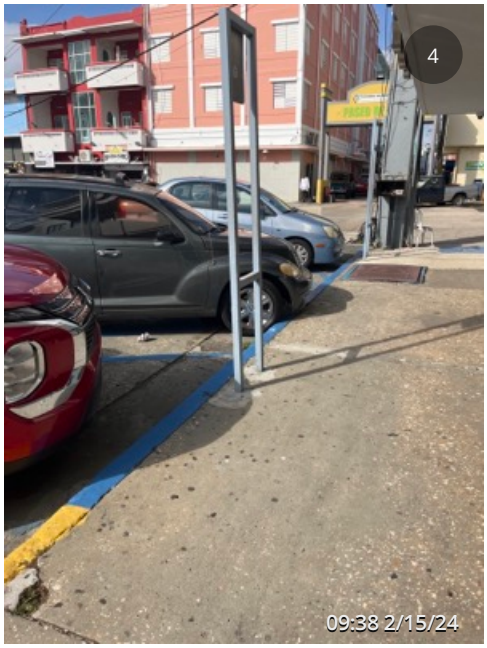


GENERAL VIEWS: ZONE C203

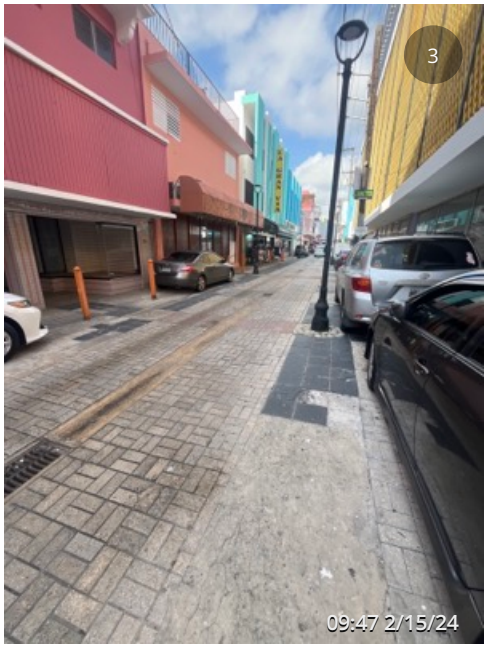


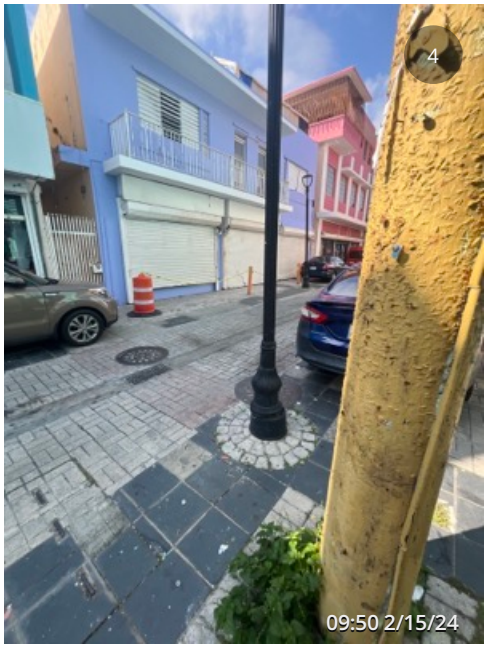




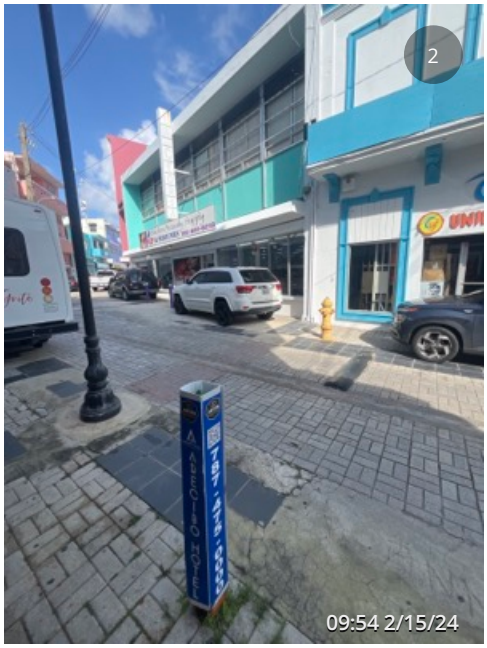


GENERAL VIEWS: ZONE C202

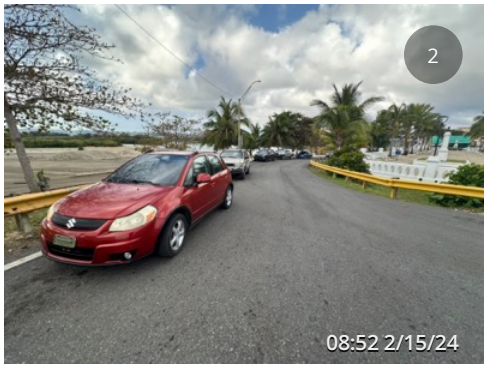




GENERAL VIEWS: ZONE C202

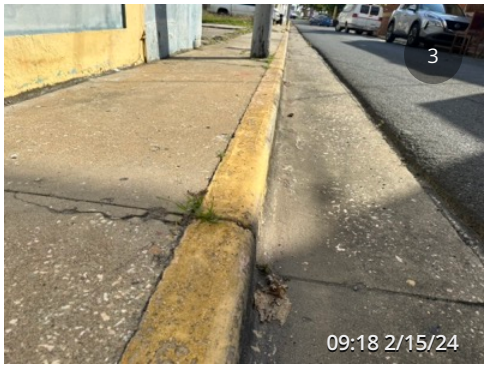


GENERAL VIEWS: ZONE C210

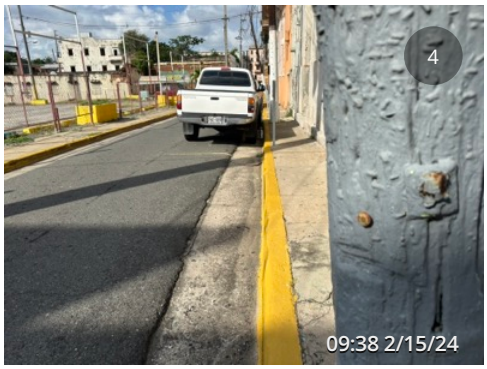


GENERAL VIEWS: ZONE C209

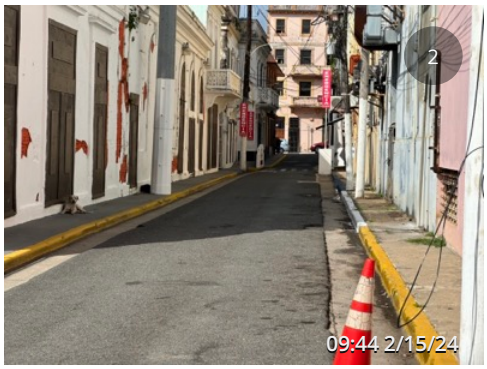
GENERAL VIEWS: ZONE C209

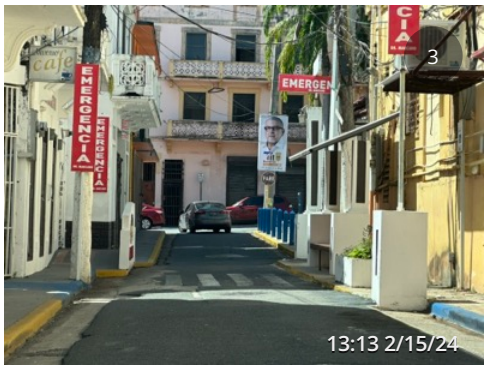


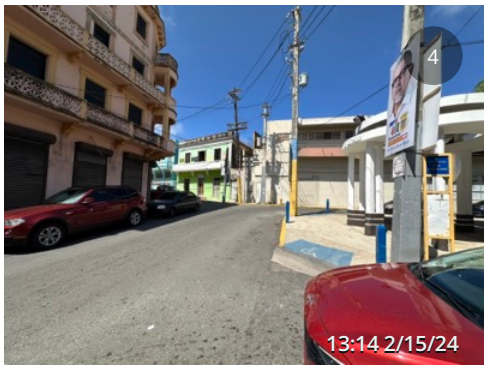
GENERAL VIEWS: ZONE C208



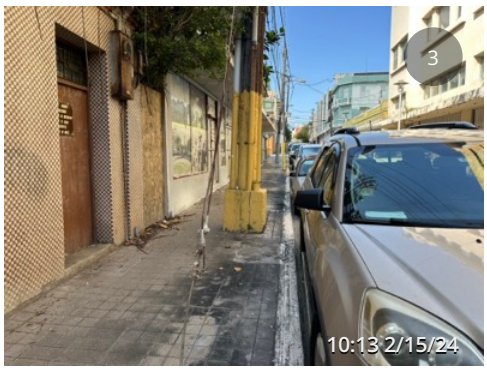
GENERAL VIEWS: ZONE C208

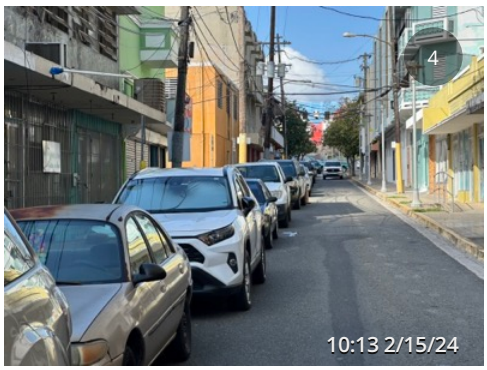






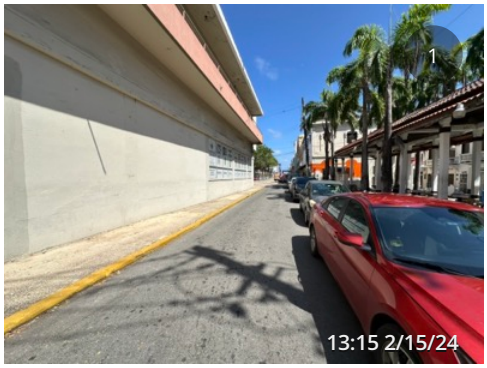
GENERAL VIEWS: ZONE C205

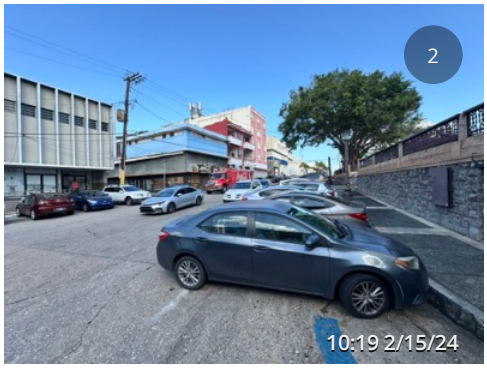


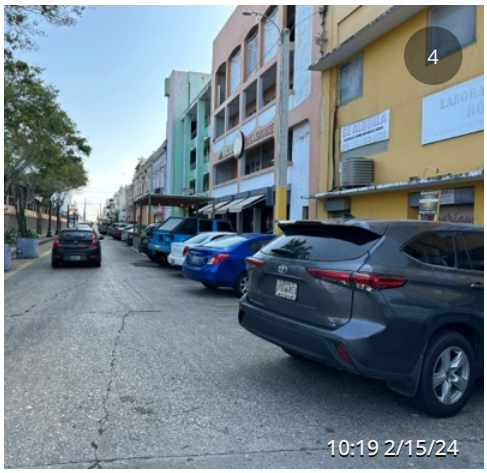


GENERAL VIEWS: ZONE C205

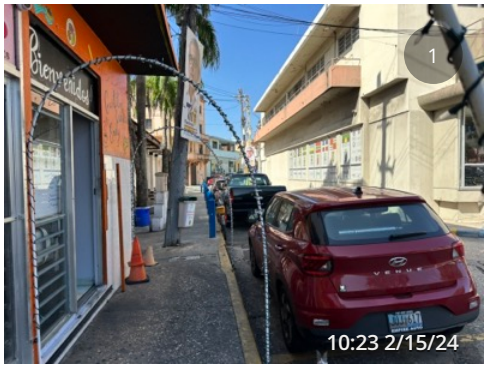
GENERAL VIEWS: ZONE C206

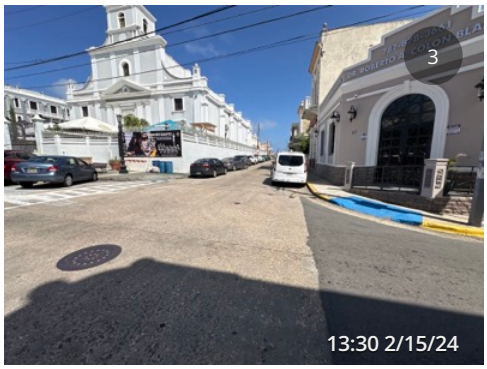


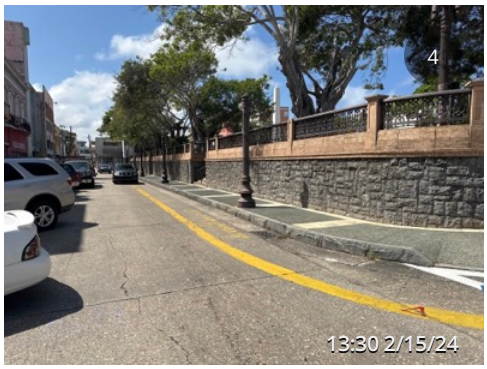




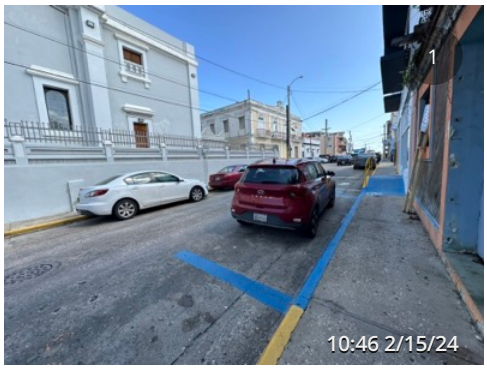
GENERAL VIEWS: ZONE C206

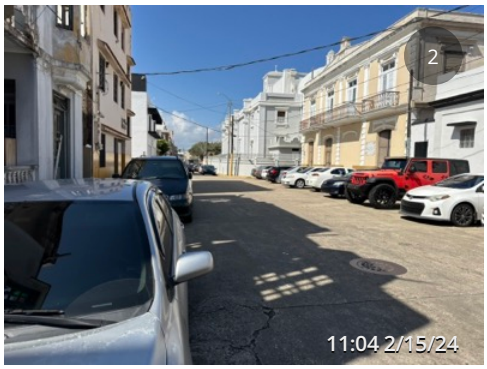


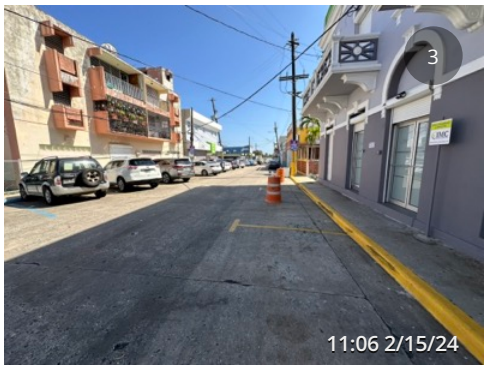




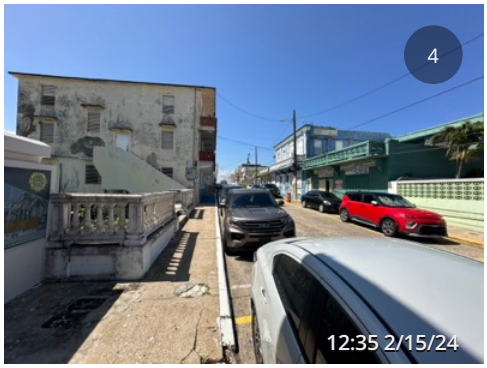
GENERAL VIEWS: ZONE C207







GENERAL VIEWS: ZONE C207



IS THERE ANY AREA WITHOUT ACCESS?

No, Everything was found in order at the moment of the inspection.

10:35 4/30/20

IS THERE ANY VISIBLE INDICATION OF MOLD?

No, mold was not found visible at the moment of the inspection.

10:35 4/30/20

ARE THERE SIGNS OF POOR HOUSEKEEPING ON SITE? (MOUNDS OF RUBBLE, GARBAGE, STORM DEBRIS, SOLID WASTE, PETROLEUM PRODUCTS, PAINT, PESTICIDES, CLEANING FLUIDS, VEHICLE BATTERIES, ABANDONED VEHICLES, PITS, POOLS, PONDS OF HAZARDOUS SUBSTANCES, ETC.)

No, Everything was found in order at the moment of the inspection.

10:35 4/30/20

ARE ANY ADDITIONAL SITE HAZARDS OBSERVED?

No, Everything was found in order at the moment of the inspection.

SACM VISIBLE?

No SACM visible at the moment of the inspection.

Attachment 3

Certification for Non-Presence Asbestos (PGC-009)

CERTIFICACION DE NO PRESENCIA DE ASBESTO EN ESTRUCTURAS A DEMOLERSE

(Deberá completarse en letra de molde o impresa)

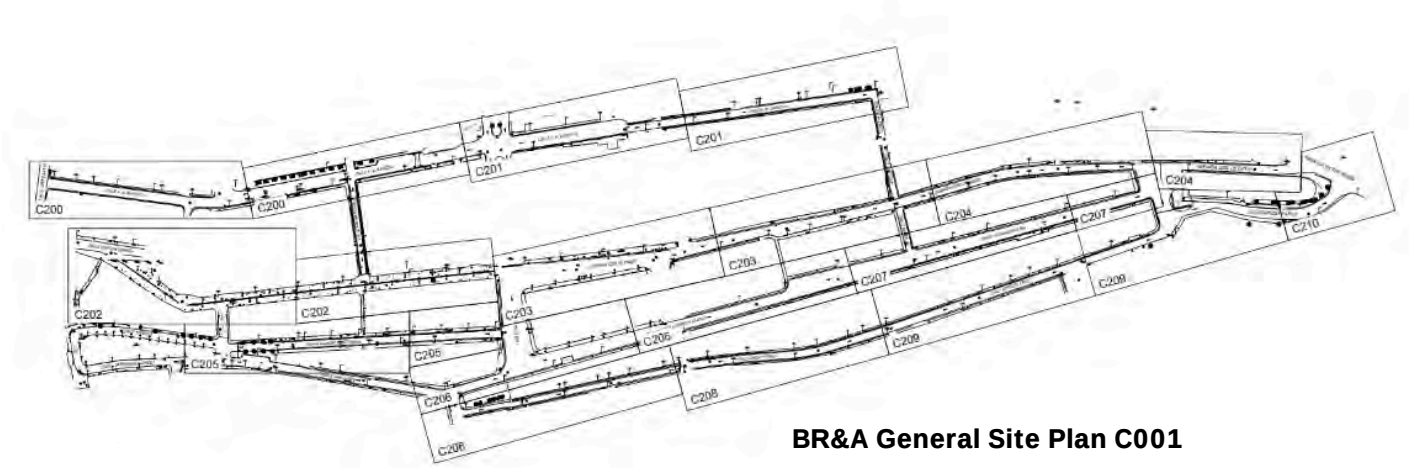
SUBMITTED AS SEPARATE DOCUMENT

www.nortolpr.com | info@nortolpr.com | 787.420.0220
PO Box 366457, San Juan, PR 00936-6457

LEAD-BASED PAINT LIMITED SURVEY

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO

Ave. Jose de Diego, Arecibo, Puerto Rico 00613



BR&A General Site Plan C001

Inspection Date: February 15, 2024

Prepared for: BR&A, LLC

Prepared by: Nortol Environmental & Occupational Safety, Inc.

Inspectors:

Emanuel Ortíz
Lead Inspector
LBP I.D. # LBPI-22923-291

Eduardo Colón
Lead Inspector
LBP I.D. # LBPI-22923-292

nortol.
Environmental & Occupational Safety, Inc. Est. 2002

***NORTOL** has performed this survey in a thorough and professional manner consistent with commonly accepted industry standards.*

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

Table of Contents

Acronyms 3

Introduction 4

Lead Based Paint Survey Report 4

- Lead Based Paint Findings
- Survey Protocol and Sampling Procedures
- LBP Background and Regulatory review

Conclusion 7

Attachment 1 – Company Credentials

Attachment 2 – Inspector's Credentials

Attachment 3 – Positive LBP XRF Tabulated Readings

Attachment 4 – LBP XRF Tabulated Readings

Attachment 5 – LBP Diagram

Attachment 6 – Representative Pictures\Photograph Log

Attachment 7 – XRF Performance Characteristic Sheet

Acronyms

A/C	=	Air Conditioning
CFR	=	Code of Federal Regulations
CPSC	=	Consumer Product Safety Commission
EPA	=	Environmental Protection Agency
Ft2	=	square feet
HA	=	Homogeneous Area
HUD	=	Department of Housing and Urban Development
LBP	=	Lead-based Paint
LF	=	Linear Feet
mg/cm2	=	milligrams per square centimeter
NESHAP'S	=	National Emission Standards for Hazardous Air Pollutants
NIOSH	=	National Institute for Occupational Safety and Health
OSHA	=	Occupational Safety and Health Administration
PRDOH	=	Puerto Rico Department of Housing
PRDNER	=	Puerto Rico Department of Natural and Environmental Resources
SOW	=	Scope of Work
XRF	=	X-Ray Fluorescent

I. INTRODUCTION

As part of the environmental due diligence, this limited survey is intended to assess the general presence, quantity, and location of LBP and lead-glazed ceramic components above allowable levels at the ***PR-CRP-000768*** *Urban Center Street and Sidewalk Restoration* project located at *Ave. Jose de Diego, Arecibo, P.R. 00613*.

The LBP limited survey, conforming to Housing Urban Development (HUD) Guidelines for the Evaluation and Control of Lead Based Paint in Housing, was conducted on February 15, 2024, by Mr. Emanuel Ortíz (Lead inspector number: LBPI-22923-291) and Mr. Eduardo Colón (Lead inspector number: LBPI-22923-292) from Nortol. Copy of Nortol's registration with the PRDNER as registered corporation is included in **Attachment 1**. Inspector's credentials are included in **Attachment 2.** Nortol's survey areas and report are limited to the details provided in Section II part D.

Based on the results of the survey, 540 XRF readings were performed using an XRF analyzer on the identified and accessible surfaces in the exterior of the subject structure. ***LBP were found on some sidewalk's curbs & ramps, pavement marking and fire hydrants.*** See table in Attachment 3, diagram in Attachment 5 and pictures in Attachment 6 (pages 23-36) for details.

There is concrete, metal, and wood structural components. The floors have terrazzo tiles, asphalt pavement, painted or bare concrete. The survey SOW was limited to C001 plan areas.

II. LEAD BASED PAINT SURVEY REPORT

A. Lead Based Paint Findings:

LBP was found in some of the project accessed components. Data from XRF analyzer testing is included in **Attachment 3 and 4** with positive readings marked in red or bold. **Attachment 5** includes the approximated location of identified LBP or lead-glazes at the subject structure. Representative Pictures\Photograph Log of identified LBP surfaces and/or lead-glazed ceramic components within the structure are provided in **Attachment 6.**

B. Survey Protocol and Sampling Procedure:

The survey was conducted following the *HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (1997 Revision, Chapter 7)*. The technique used for assessing the painted components was the XRF instrument. The following guidelines were used to perform LBP testing:

1. Achieve inventory of painted surfaces

2. Select areas to be assessed.
3. Perform XRF testing.
4. Review and evaluate the data.
5. Report findings

The XRF instrument was set at Standard Paint Mode showing reading "Positive" or "Negative" with a 95% confident reading. The result is reported in mg/cm^2. **Attachment 7** includes the XRF Performance Characteristic Sheet (PCS) of the analyzer.

The **letters A, B, C**, and **D** used in the survey refers to:

A ⇒ Main entrance side orientation (to street)
B ⇒ Left side orientation
C ⇒ Rear side orientation
D ⇒ Right side orientation

C. Lead Based Paint Background and Regulatory Review:

Overexposure to lead is one of the most common situations found in industry. It is also a major potential public health risk. Lead poisoning is the leading environmentally induced illness in children. At greatest risk are children under the age of six because they are undergoing rapid neurological and physical development. In general population, lead may be present at hazardous concentrations in food, water, and air. Sources include LBP, urban soil, dust, and drinking water.

Lead is commonly added to industrial paints because of its characteristic to resist corrosion. Industries with particularly high potential exposures include construction work involving welding, cutting, brazing, blasting, etc., on lead paint surfaces; most smelter operations either as a trace contaminant or as a major product; secondary lead smelters where lead is recovered from batteries; radiator repair shops; and firing ranges. Oral ingestion may represent a major route of exposure in contaminated workplaces. Once in the blood, lead is distributed primarily among three routes - blood, soft tissue (kidney, bone marrow, liver, and brain) and mineralizing tissue (bones and teeth).

Hazard of lead in paint has been defined by the Department of Housing and Urban Development as 1.0 mg/cm^2 as measured by an XRF instrument, or Atomic Absorption Spectroscopy (AAS); or 0.5% by weight (or 5,000 ppm) as measured by AAS, or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X.

Although OSHA regulations for occupational lead exposure have been in effect since 1971 for the construction and general industries, the agency recognized the need to provide better protection

and revised the regulations for general industry in 1978. The 1978 lead standard, however, excluded the construction industry from coverage because of insufficient information regarding lead use in construction.

In 1990, NIOSH set a national goal to eliminate worker exposures resulting in blood lead concentrations greater than 25 micrograms per deciliter (25 µg/dl) of whole blood. Consequently, OSHA began developing a proposal for a comprehensive standard regulating occupational exposure to lead in construction. In October 1992, the Congress passed Section 1031 of Title X of the Housing and Community Development Act of 1992 (P. L. 102-550) requiring OSHA to issue an interim final lead standard for the construction industry, effective until OSHA issues a final standard. The interim final rule, published on May 4, 1993, amends the OSHA standards for occupational health and environmental controls in Subpart D of Title 29 CFR 1926 by adding a new section 1926.62, containing employee protection requirements for construction workers exposed to lead.

On July 1998, the PRDNER - former PR Environmental Quality Board regulations regarding to LBP was created to issue activity permits, accredit institutions, and certificate persons involved in LBP activities in Puerto Rico. Local regulations require all lead to be managed as a special waste. On August 2019 this regulation was replaced by the new *Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo*. To obtain a demolition permit in Puerto Rico is necessary to include a certification (OGP-PGC-010 or equivalent) stating that there is no LBP in the project.

D. Survey Areas – Extent of Survey Coverage:

The survey included a detailed structure inspection providing a general sense of the overall location, type, quantity, and condition of LBP and lead-glazed ceramic components. The LBP survey was performed to ready accessible components and surfaces. If any suspect coated surface or ceramic components that could contain lead are encountered underneath current installed tiles or other construction material during demolition and/or renovation activities which differ from materials tested during the LBP survey, these should be assumed to be Lead containing until testing/analysis confirmed otherwise. The survey was unobtrusive as samples were not taken where doing so would have resulted in objectionable damage to surfaces. Therefore, the survey did not include destructive, intrusive and/or exploratory testing.

Areas Not Included in Survey and Service Constraints: All professional opinions presented in this report are based on information made available either by review of data provided by others or data gathered by Nortol's personnel. Nortol affirms that data gathered and presented by Nortol in this report was collected in an appropriate manner in accordance with accepted methods and

practices. Any energized utilities/services, including electricity, water and heat were assumed to be active. Materials associated with these items were determined to not be safely accessible and were not sampled. The survey did not include access or inspection of confined spaces or subsurface/underground areas including piping, conduits, building footings and soils (surficial or otherwise).

III. CONCLUSION

LBP limited survey was conducted for the project identified with the header ID. LBP or lead-glaze was identified above the regulatory level of 1.0 mg/cm^2 at selective areas of the subject structure.

Data from XRF analyzer testing is included in **Attachment 3 and 4** with positive readings marked in red or bold. **Attachment 5** includes the approximated location of identified LBP or lead-glazes at the subject structure. Representative Pictures\Photograph Log of identified LBP surfaces and/or lead-glazed ceramic components within the structure are provided in **Attachment 6.**

Any conditions or materials that could not be visually identified or were out-of-the SOW, were not inspected and may differ from those conditions or materials noted. It was not within the scope of the activity to remove surface materials to investigate portions of the structure or materials that may lay beneath the surface. Nortol's selection of sample locations and frequency of sampling was based on Nortol's observations and the assumption that similar materials in the same area are homogeneous in content.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos or lead abatement contractors in locating LBP or lead-glaze. Under no circumstances is the report to be utilized solely as a bidding document or as a project specification document.

Attachment 1

Company Credentials

nortol.
Environmental & Occupational Safety, Inc. Est. 2002

GOBIERNO DE PUERTO RICO

Departamento de Recursos Naturales y Ambientales

Este certificado es otorgado a:

Nortol Environmental & Occupational Safety, Inc.

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

Número de Certificado

LBPF-04023-008

Fecha de emisión: Marzo 5, 2023

Fecha de Expiración: Marzo 4, 2024

DRNA

José Roque Juliá
Jefe
División Desperdicios Tóxicos

LEAD-SAFE
EPA
CERTIFIED FIRM

NAT-F121771-2

www.nortolpr.com
info@nortolpr.com | 787.420.0220 | 787.640-8228
PO Box 366457, San Juan, PR 00936-6457

20 ANNIVERSARY
nortol.
Environmental & Occupational Safety Est. 2002

Attachment 2
Inspector's Credentials

EMANUEL ORTIZ
Puerto Rico
Lead-based Paint Inspector

EDUARDO COLON
Puerto Rico
Lead-based Paint Inspector

www.nortolpr.com | info@nortolpr.com | 787.420.0220
PO Box 366457, San Juan, PR 00936-6457

Attachment 3

Positive LBP XRF Tabulated Readings

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF POSITIVE SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	13	2.1	mg/cm2	Positive	1	2/15/2024	10:13:55	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	14	2.3	mg/cm2	Positive	1	2/15/2024	10:14:45	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	15	3.3	mg/cm3	Positive	1	2/15/2024	10:14:50	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	16	2.2	mg/cm2	Positive	1	2/15/2024	10:15:09	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	260 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	17	3.3	mg/cm2	Positive	1	2/15/2024	10:17:03	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	White	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	18	2.9	mg/cm2	Positive	1	2/15/2024	10:17:15	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	White	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	19	2.2	mg/cm2	Positive	1	2/15/2024	10:17:32	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	White	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	36	1.7	mg/cm2	Positive	1	2/15/2024	10:27:17	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	37	1.4	mg/cm2	Positive	1	2/15/2024	10:27:29	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	1,020 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	38	2.1	mg/cm2	Positive	1	2/15/2024	10:28:05	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	67	1.4	mg/cm2	Positive	1	2/15/2024	10:40:32	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	(Same Measure Above) 1,020 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	71	2.4	mg/cm2	Positive	1	2/15/2024	10:43:07	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	(Same Measure Above) 1,020 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	75	1.4	mg/cm2	Positive	1	2/15/2024	10:44:46	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	380 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	85	1	mg/cm2	Positive	1	2/15/2024	10:53:22	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	86	2.1	mg/cm2	Positive	1	2/15/2024	10:56:59	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	(Same Measure Above) 380 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	90	1.4	mg/cm2	Positive	1	2/15/2024	10:59:21	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	(Same Measure Above) 380 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	176	6.4	mg/cm2	Positive	1	2/15/2024	11:43:48	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Blue	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	177	2.5	mg/cm2	Positive	1	2/15/2024	11:44:49	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Yellow	Intact	40 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	190	1.1	mg/cm2	Positive	1	2/15/2024	11:50:15	E. Ortiz	100-116	Exterior	Zone C206	Ramp	Concrete	-	Blue	Intact	

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF POSITIVE SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	191	1.1	mg/cm2	Positive	1	2/15/2024	11:50:23	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Blue	Intact	980 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	192	3.8	mg/cm2	Positive	1	2/15/2024	11:51:11	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	213	2.5	mg/cm2	Positive	1	2/15/2024	12:06:05	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	214	2.3	mg/cm2	Positive	1	2/15/2024	12:06:27	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Blue	Intact	(Same Measure Above) 980 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	215	1.3	mg/cm2	Positive	1	2/15/2024	12:06:37	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Blue	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	248	5.9	mg/cm2	Positive	1	2/15/2024	12:29:47	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	(Same Measure Above) 980 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	249	1.7	mg/cm2	Positive	1	2/15/2024	12:30:19	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	254	10.3	mg/cm2	Positive	1	2/15/2024	12:33:42	E. Ortiz	100-116	Exterior	Zone C207	Hydrant	Metal	-	Yellow	Intact	1 Unit
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	255	3.2	mg/cm2	Positive	1	2/15/2024	12:33:49	E. Ortiz	100-116	Exterior	Zone C207	Hydrant	Metal	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	257	4.7	mg/cm2	Positive	1	2/15/2024	12:35:40	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	Multiple Units
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	258	4.8	mg/cm2	Positive	1	2/15/2024	12:35:53	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	259	5	mg/cm2	Positive	1	2/15/2024	12:35:58	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	260	5.3	mg/cm2	Positive	1	2/15/2024	12:36:04	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	265	2.4	mg/cm2	Positive	1	2/15/2024	12:40:44	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	25 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	266	1.9	mg/cm2	Positive	1	2/15/2024	12:40:50	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	267	3	mg/cm2	Positive	1	2/15/2024	12:41:28	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	60 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	268	3.1	mg/cm2	Positive	1	2/15/2024	12:46:06	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Blue	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	269	2.8	mg/cm2	Positive	1	2/15/2024	12:46:16	E. Ortiz	100-116	Exterior	Zone C207	Ramp	Concrete	-	Blue	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	270	2.2	mg/cm2	Positive	1	2/15/2024	12:47:49	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF POSITIVE SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	272	1.8	mg/cm2	Positive	1	2/15/2024	12:49:07	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	Multiple Units
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	273	1.6	mg/cm2	Positive	1	2/15/2024	12:49:20	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	274	3.5	mg/cm2	Positive	1	2/15/2024	12:51:34	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	275	7.5	mg/cm2	Positive	1	2/15/2024	12:53:15	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	288	1.7	mg/cm2	Positive	1	2/15/2024	13:00:38	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	180 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	289	1.3	mg/cm2	Positive	1	2/15/2024	13:02:44	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	307	1.7	mg/cm2	Positive	1	2/15/2024	13:15:18	E. Ortiz	100-116	Exterior	Zone C207	Ramp	Concrete	-	Blue	Intact	(Same Measure Above) 980 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	308	1.7	mg/cm2	Positive	1	2/15/2024	13:15:35	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	313	2.8	mg/cm2	Positive	1	2/15/2024	13:20:43	E. Ortiz	100-116	Exterior	Zone C207	Ramp	Concrete	-	Yellow	Intact	(Same Measure Above) 980 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	321	1.5	mg/cm2	Positive	1	2/15/2024	13:26:39	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	Multiple Units
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	322	1.1	mg/cm2	Positive	1	2/15/2024	13:26:53	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	323	1.1	mg/cm2	Positive	1	2/15/2024	13:38:29	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	White	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	324	1.1	mg/cm2	Positive	1	2/15/2024	13:39:03	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	White	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	325	1.3	mg/cm2	Positive	1	2/15/2024	13:39:31	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	326	1.5	mg/cm2	Positive	1	2/15/2024	13:40:41	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	332	1.3	mg/cm2	Positive	1	2/15/2024	13:46:07	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	1 Unit
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	333	1.4	mg/cm2	Positive	1	2/15/2024	13:46:24	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	334	1.2	mg/cm2	Positive	1	2/15/2024	13:46:41	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	130 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	335	1.2	mg/cm2	Positive	1	2/15/2024	13:46:53	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF POSITIVE SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	336	1.7	mg/cm2	Positive	1	2/15/2024	13:47:05	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	45 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	337	1.4	mg/cm2	Positive	1	2/15/2024	13:47:28	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO - XRF POSITIVE SHEET

Company	**Heuresis Corp.**
Model	PB00i
Type	XRF Lead Paint Analyzer
Serial Num.	1142
App Version	PB00i-4.1-11

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Zone C204	80	6.1	mg/cm2	Positive	-	2/15/2024	9:11:50	E.COLON	100-116	Exterior	Exterior	Hydrant	Metal	-	Yellow	Deteriorated	1 UNIT
Zone C203	98	4.2	mg/cm2	Positive	-	2/15/2024	9:22:18	E.COLON	100-116	Exterior	Exterior	Hydrant	Metal	-	Yellow	Deteriorated	1 UNIT

Attachment 4
LBP XRF Tabulated Readings

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	1	1.1	mg/cm2	Positive	-	2/15/2024	10:01:17	E. Ortiz	100-116	Exterior	Calibration	-	-	-	-	-	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	2	1.1	mg/cm2	Positive	-	2/15/2024	10:01:28	E. Ortiz	100-116	Exterior	Calibration	-	-	-	-	-	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	3	1.1	mg/cm2	Positive	-	2/15/2024	10:01:39	E. Ortiz	100-116	Exterior	Calibration	-	-	-	-	-	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	4	0.4	mg/cm2	Negative	1	2/15/2024	10:05:40	E. Ortiz	100-116	Exterior	Zone C210	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	5	0	mg/cm2	Negative	1	2/15/2024	10:06:02	E. Ortiz	100-116	Exterior	Zone C210	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	6	0.1	mg/cm2	Negative	1	2/15/2024	10:06:15	E. Ortiz	100-116	Exterior	Zone C210	Post	Metal	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	7	0	mg/cm2	Negative	1	2/15/2024	10:06:21	E. Ortiz	100-116	Exterior	Zone C210	Post	Metal	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	8	0.3	mg/cm2	Negative	1	2/15/2024	10:06:41	E. Ortiz	100-116	Exterior	Zone C210	Post	Metal	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	9	0.3	mg/cm2	Negative	1	2/15/2024	10:06:48	E. Ortiz	100-116	Exterior	Zone C210	Post	Metal	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	10	0.2	mg/cm2	Negative	1	2/15/2024	10:07:16	E. Ortiz	100-116	Exterior	Zone C210	Pavement Mark	Asphalt	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	11	0.3	mg/cm2	Negative	1	2/15/2024	10:07:24	E. Ortiz	100-116	Exterior	Zone C210	Pavement Mark	Asphalt	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	12	0.2	mg/cm2	Negative	1	2/15/2024	10:13:49	E. Ortiz	100-116	Exterior	Zone C209	Pavement Mark	Asphalt	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	13	2.1	mg/cm2	Positive	1	2/15/2024	10:13:55	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	260 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	14	2.3	mg/cm2	Positive	1	2/15/2024	10:14:45	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	15	3.3	mg/cm3	Positive	1	2/15/2024	10:14:50	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	16	2.2	mg/cm2	Positive	1	2/15/2024	10:15:09	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	17	3.3	mg/cm2	Positive	1	2/15/2024	10:17:03	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	White	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	18	2.9	mg/cm2	Positive	1	2/15/2024	10:17:15	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	White	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	19	2.2	mg/cm2	Positive	1	2/15/2024	10:17:32	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	White	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	20	0.1	mg/cm2	Negative	1	2/15/2024	10:18:25	E. Ortiz	100-116	Exterior	Zone C209	Pavement Mark	Asphalt	-	Yellow	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	21	0.3	mg/cm2	Negative	1	2/15/2024	10:18:49	E. Ortiz	100-116	Exterior	Zone C209	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	22	0.2	mg/cm2	Negative	1	2/15/2024	10:19:31	E. Ortiz	100-116	Exterior	Zone C209	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	23	0.1	mg/cm2	Negative	1	2/15/2024	10:19:38	E. Ortiz	100-116	Exterior	Zone C209	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	24	0.2	mg/cm2	Negative	1	2/15/2024	10:20:23	E. Ortiz	100-116	Exterior	Zone C209	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	25	0.3	mg/cm2	Negative	1	2/15/2024	10:23:41	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	26	0.2	mg/cm2	Negative	1	2/15/2024	10:23:47	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	27	0.2	mg/cm2	Negative	1	2/15/2024	10:24:14	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	28	0.2	mg/cm2	Negative	1	2/15/2024	10:24:32	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	29	0.3	mg/cm2	Negative	1	2/15/2024	10:24:57	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	30	0.5	mg/cm2	Negative	1	2/15/2024	10:25:03	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	31	0.4	mg/cm2	Negative	1	2/15/2024	10:25:27	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	32	0.2	mg/cm2	Negative	1	2/15/2024	10:25:38	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	33	0.2	mg/cm2	Negative	1	2/15/2024	10:25:44	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	34	0.3	mg/cm2	Negative	1	2/15/2024	10:26:16	E. Ortiz	100-116	Exterior	Zone C209	Post	Concrete	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	35	0.2	mg/cm2	Negative	1	2/15/2024	10:26:23	E. Ortiz	100-116	Exterior	Zone C209	Post	Concrete	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	36	1.7	mg/cm2	Positive	1	2/15/2024	10:27:17	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	1,020 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	37	1.4	mg/cm2	Positive	1	2/15/2024	10:27:29	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	38	2.1	mg/cm2	Positive	1	2/15/2024	10:28:05	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	39	0.1	mg/cm2	Negative	1	2/15/2024	10:28:27	E. Ortiz	100-116	Exterior	Zone C209	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	40	0.1	mg/cm2	Negative	1	2/15/2024	10:28:33	E. Ortiz	100-116	Exterior	Zone C209	Post	Wood	-	Yellow	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	41	0.1	mg/cm2	Negative	1	2/15/2024	10:28:40	E. Ortiz	100-116	Exterior	Zone C209	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	42	0.2	mg/cm2	Negative	1	2/15/2024	10:30:33	E. Ortiz	100-116	Exterior	Zone C209	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	43	0.2	mg/cm2	Negative	1	2/15/2024	10:30:39	E. Ortiz	100-116	Exterior	Zone C209	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	44	0.2	mg/cm2	Negative	1	2/15/2024	10:30:46	E. Ortiz	100-116	Exterior	Zone C209	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	45	0.3	mg/cm2	Negative	1	2/15/2024	10:31:14	E. Ortiz	100-116	Exterior	Zone C209	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	46	0.3	mg/cm2	Negative	1	2/15/2024	10:31:20	E. Ortiz	100-116	Exterior	Zone C209	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	47	0	mg/cm2	Negative	1	2/15/2024	10:31:28	E. Ortiz	100-116	Exterior	Zone C209	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	48	0.2	mg/cm2	Negative	1	2/15/2024	10:34:39	E. Ortiz	100-116	Exterior	Zone C209	Post	Wood	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	49	0.2	mg/cm2	Negative	1	2/15/2024	10:34:47	E. Ortiz	100-116	Exterior	Zone C209	Post	Wood	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	50	0.3	mg/cm2	Negative	1	2/15/2024	10:34:53	E. Ortiz	100-116	Exterior	Zone C209	Post	Wood	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	51	0.2	mg/cm2	Negative	1	2/15/2024	10:35:13	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	52	0.4	mg/cm2	Negative	1	2/15/2024	10:35:20	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	53	0.5	mg/cm2	Negative	1	2/15/2024	10:35:32	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	54	0.3	mg/cm2	Negative	1	2/15/2024	10:35:50	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	55	0.8	mg/cm2	Negative	1	2/15/2024	10:36:33	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	56	0.1	mg/cm2	Negative	1	2/15/2024	10:36:49	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	57	0.6	mg/cm2	Negative	1	2/15/2024	10:36:56	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	58	0	mg/cm2	Negative	1	2/15/2024	10:37:36	E. Ortiz	100-116	Exterior	Zone C209	Post	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	59	0.2	mg/cm2	Negative	1	2/15/2024	10:37:42	E. Ortiz	100-116	Exterior	Zone C209	Post	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	60	0.4	mg/cm2	Negative	1	2/15/2024	10:38:18	E. Ortiz	100-116	Exterior	Zone C209	Post	Wood	-	Gray	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	61	0.1	mg/cm2	Negative	1	2/15/2024	10:38:24	E. Ortiz	100-116	Exterior	Zone C209	Post	Wood	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	62	0.2	mg/cm2	Negative	1	2/15/2024	10:39:02	E. Ortiz	100-116	Exterior	Zone C209	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	63	0.1	mg/cm2	Negative	1	2/15/2024	10:39:07	E. Ortiz	100-116	Exterior	Zone C209	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	64	0.1	mg/cm2	Negative	1	2/15/2024	10:39:27	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	65	0.1	mg/cm2	Negative	1	2/15/2024	10:39:34	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	66	0.3	mg/cm2	Negative	1	2/15/2024	10:40:21	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	67	1.4	mg/cm2	Positive	1	2/15/2024	10:40:32	E. Ortiz	100-116	Exterior	Zone C209	Curb	Concrete	-	Yellow	Intact	(Same Measure Above) 1,020 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	68	0.2	mg/cm2	Negative	1	2/15/2024	10:41:57	E. Ortiz	100-116	Exterior	Zone C209	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	69	0	mg/cm2	Negative	1	2/15/2024	10:42:35	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	70	0.2	mg/cm2	Negative	1	2/15/2024	10:42:56	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	71	2.4	mg/cm2	Positive	1	2/15/2024	10:43:07	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	(Same Measure Above) 1,020 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	72	0.3	mg/cm2	Negative	1	2/15/2024	10:43:37	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	73	0.2	mg/cm2	Negative	1	2/15/2024	10:44:10	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	74	0.3	mg/cm2	Negative	1	2/15/2024	10:44:23	E. Ortiz	100-116	Exterior	Zone C208	Post	Metal	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	75	1.4	mg/cm2	Positive	1	2/15/2024	10:44:46	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	380 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	76	0.1	mg/cm2	Negative	1	2/15/2024	10:45:25	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	77	0.2	mg/cm2	Negative	1	2/15/2024	10:46:20	E. Ortiz	100-116	Exterior	Zone C208	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	78	0.2	mg/cm2	Negative	1	2/15/2024	10:46:26	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	79	0.2	mg/cm2	Negative	1	2/15/2024	10:51:22	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	80	0.4	mg/cm2	Negative	1	2/15/2024	10:51:50	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Gray	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	81	0.1	mg/cm2	Negative	1	2/15/2024	10:52:03	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	82	0.1	mg/cm2	Negative	1	2/15/2024	10:52:13	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	83	0.2	mg/cm2	Negative	1	2/15/2024	10:52:25	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	84	0.1	mg/cm2	Negative	1	2/15/2024	10:52:29	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	85	1	mg/cm2	Positive	1	2/15/2024	10:53:22	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	(Same Measure Above) 380 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	86	2.1	mg/cm2	Positive	1	2/15/2024	10:56:59	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	87	0.1	mg/cm2	Negative	1	2/15/2024	10:57:48	E. Ortiz	100-116	Exterior	Zone C208	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	88	0.2	mg/cm2	Negative	1	2/15/2024	10:57:56	E. Ortiz	100-116	Exterior	Zone C208	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	89	0.2	mg/cm2	Negative	1	2/15/2024	10:58:07	E. Ortiz	100-116	Exterior	Zone C208	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	90	1.4	mg/cm2	Positive	1	2/15/2024	10:59:21	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	(Same Measure Above) 380 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	91	0.6	mg/cm2	Negative	1	2/15/2024	10:59:47	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	92	0.5	mg/cm2	Negative	1	2/15/2024	11:00:13	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	93	0.3	mg/cm2	Negative	1	2/15/2024	11:01:41	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	94	0.1	mg/cm2	Negative	1	2/15/2024	11:01:47	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	95	0.1	mg/cm2	Negative	1	2/15/2024	11:01:56	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	96	0	mg/cm2	Negative	1	2/15/2024	11:02:04	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	97	0.2	mg/cm2	Negative	1	2/15/2024	11:02:40	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	98	0.1	mg/cm2	Negative	1	2/15/2024	11:02:46	E. Ortiz	100-116	Exterior	Zone C208	Post	Wood	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	99	0.4	mg/cm2	Negative	1	2/15/2024	11:03:15	E. Ortiz	100-116	Exterior	Zone C208	Post	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	100	0.2	mg/cm2	Negative	1	2/15/2024	11:03:23	E. Ortiz	100-116	Exterior	Zone C208	Post	Concrete	-	Yellow	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	101	0	mg/cm2	Negative	1	2/15/2024	11:03:36	E. Ortiz	100-116	Exterior	Zone C208	Post	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	102	0.1	mg/cm2	Negative	1	2/15/2024	11:04:33	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	103	0.1	mg/cm2	Negative	1	2/15/2024	11:04:50	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	104	0	mg/cm2	Negative	1	2/15/2024	11:04:57	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	105	0.4	mg/cm2	Negative	1	2/15/2024	11:07:40	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	106	0.3	mg/cm2	Negative	1	2/15/2024	11:08:13	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	107	0.2	mg/cm2	Negative	1	2/15/2024	11:08:20	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	108	0.1	mg/cm2	Negative	1	2/15/2024	11:08:27	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	109	0	mg/cm2	Negative	1	2/15/2024	11:10:22	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	110	0.2	mg/cm2	Negative	1	2/15/2024	11:10:28	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	111	0.8	mg/cm2	Negative	1	2/15/2024	11:10:42	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	112	0	mg/cm2	Negative	1	2/15/2024	11:11:03	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	113	0	mg/cm2	Negative	1	2/15/2024	11:11:24	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	114	0.3	mg/cm2	Negative	1	2/15/2024	11:11:52	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	115	0.2	mg/cm2	Negative	1	2/15/2024	11:12:20	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	116	0.3	mg/cm2	Negative	1	2/15/2024	11:12:36	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	117	0.1	mg/cm2	Negative	1	2/15/2024	11:12:51	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	118	0.1	mg/cm2	Negative	1	2/15/2024	11:13:08	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	119	0.1	mg/cm2	Negative	1	2/15/2024	11:13:26	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	120	0.3	mg/cm2	Negative	1	2/15/2024	11:13:33	E. Ortiz	100-116	Exterior	Zone C208	Curb	Concrete	-	Yellow	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	121	0	mg/cm2	Negative	1	2/15/2024	11:14:13	E. Ortiz	100-116	Exterior	Zone C206	Post	Concrete	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	122	0.3	mg/cm2	Negative	1	2/15/2024	11:14:33	E. Ortiz	100-116	Exterior	Zone C206	Post	Concrete	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	123	0.2	mg/cm2	Negative	1	2/15/2024	11:14:48	E. Ortiz	100-116	Exterior	Zone C206	Pole	Metal	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	124	0.3	mg/cm2	Negative	1	2/15/2024	11:14:59	E. Ortiz	100-116	Exterior	Zone C206	Pole	Metal	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	125	0.1	mg/cm2	Negative	1	2/15/2024	11:15:19	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	126	0.1	mg/cm3	Negative	1	2/15/2024	11:15:27	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	127	0.1	mg/cm2	Negative	1	2/15/2024	11:18:39	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	128	0	mg/cm2	Negative	1	2/15/2024	11:18:50	E. Ortiz	100-116	Exterior	Zone C205	Post	Metal	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	129	0.2	mg/cm2	Negative	1	2/15/2024	11:19:05	E. Ortiz	100-116	Exterior	Zone C205	Post	Metal	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	130	0.1	mg/cm2	Negative	1	2/15/2024	11:19:11	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	131	0.1	mg/cm2	Negative	1	2/15/2024	11:19:27	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	132	0.1	mg/cm2	Negative	1	2/15/2024	11:19:58	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	133	0	mg/cm2	Negative	1	2/15/2024	11:20:03	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	134	0.1	mg/cm2	Negative	1	2/15/2024	11:20:27	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	135	0.1	mg/cm2	Negative	1	2/15/2024	11:20:33	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	136	0	mg/cm2	Negative	1	2/15/2024	11:20:47	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	137	0.6	mg/cm2	Negative	1	2/15/2024	11:21:26	E. Ortiz	100-116	Exterior	Zone C205	Post	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	138	0.7	mg/cm2	Negative	1	2/15/2024	11:21:33	E. Ortiz	100-116	Exterior	Zone C205	Post	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	139	0.1	mg/cm2	Negative	1	2/15/2024	11:21:51	E. Ortiz	100-116	Exterior	Zone C205	Post	Concrete	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	140	0.1	mg/cm2	Negative	1	2/15/2024	11:21:58	E. Ortiz	100-116	Exterior	Zone C205	Post	Metal	-	Gray	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	141	0.3	mg/cm2	Negative	1	2/15/2024	11:22:06	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	142	0.2	mg/cm2	Negative	1	2/15/2024	11:27:34	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	143	0.4	mg/cm2	Negative	1	2/15/2024	11:28:10	E. Ortiz	100-116	Exterior	Zone C205	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	144	0.1	mg/cm2	Negative	1	2/15/2024	11:28:19	E. Ortiz	100-116	Exterior	Zone C205	Post	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	145	0.2	mg/cm2	Negative	1	2/15/2024	11:29:24	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	146	0.2	mg/cm2	Negative	1	2/15/2024	11:30:06	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	147	0	mg/cm2	Negative	1	2/15/2024	11:30:14	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	148	0.2	mg/cm2	Negative	1	2/15/2024	11:30:40	E. Ortiz	100-116	Exterior	Zone C205	Post	Concrete	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	149	0.4	mg/cm2	Negative	1	2/15/2024	11:31:09	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	150	0.2	mg/cm2	Negative	1	2/15/2024	11:31:32	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	151	0.2	mg/cm2	Negative	1	2/15/2024	11:32:02	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	152	0.2	mg/cm2	Negative	1	2/15/2024	11:32:19	E. Ortiz	100-116	Exterior	Zone C205	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	153	0.3	mg/cm2	Negative	1	2/15/2024	11:32:25	E. Ortiz	100-116	Exterior	Zone C205	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	154	0	mg/cm2	Negative	1	2/15/2024	11:32:48	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	155	0.1	mg/cm2	Negative	1	2/15/2024	11:33:39	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	156	0	mg/cm2	Negative	1	2/15/2024	11:33:46	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	157	0	mg/cm2	Negative	1	2/15/2024	11:34:06	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	158	0.3	mg/cm2	Negative	1	2/15/2024	11:34:18	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	159	0.2	mg/cm2	Negative	1	2/15/2024	11:34:52	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	160	0	mg/cm2	Negative	1	2/15/2024	11:35:07	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	161	0.1	mg/cm2	Negative	1	2/15/2024	11:35:15	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	162	0.1	mg/cm2	Negative	1	2/15/2024	11:36:04	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	163	0.3	mg/cm2	Negative	1	2/15/2024	11:36:43	E. Ortiz	100-116	Exterior	Zone C205	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	164	0.1	mg/cm2	Negative	1	2/15/2024	11:36:57	E. Ortiz	100-116	Exterior	Zone C205	Ramp	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	165	0.4	mg/cm2	Negative	1	2/15/2024	11:37:29	E. Ortiz	100-116	Exterior	Zone C206	Ramp	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	166	0.1	mg/cm2	Negative	1	2/15/2024	11:39:47	E. Ortiz	100-116	Exterior	Zone C206	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	167	0.4	mg/cm2	Negative	1	2/15/2024	11:39:52	E. Ortiz	100-116	Exterior	Zone C206	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	168	0.3	mg/cm2	Negative	1	2/15/2024	11:40:07	E. Ortiz	100-116	Exterior	Zone C206	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	169	0.1	mg/cm2	Negative	1	2/15/2024	11:40:23	E. Ortiz	100-116	Exterior	Zone C206	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	170	0.1	mg/cm2	Negative	1	2/15/2024	11:40:28	E. Ortiz	100-116	Exterior	Zone C206	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	171	0.1	mg/cm2	Negative	1	2/15/2024	11:41:20	E. Ortiz	100-116	Exterior	Zone C206	Post	Metal	-	Brown	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	172	0	mg/cm2	Negative	1	2/15/2024	11:41:27	E. Ortiz	100-116	Exterior	Zone C206	Post	Metal	-	Brown	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	173	0.2	mg/cm2	Negative	1	2/15/2024	11:42:06	E. Ortiz	100-116	Exterior	Zone C206	Pavement Mark	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	174	0.2	mg/cm2	Negative	1	2/15/2024	11:43:27	E. Ortiz	100-116	Exterior	Zone C206	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	175	0.1	mg/cm2	Negative	1	2/15/2024	11:43:32	E. Ortiz	100-116	Exterior	Zone C206	Post	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	176	6.4	mg/cm2	Positive	1	2/15/2024	11:43:48	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Blue	Intact	40 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	177	2.5	mg/cm2	Positive	1	2/15/2024	11:44:49	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	178	0.5	mg/cm2	Negative	1	2/15/2024	11:44:55	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	179	0.3	mg/cm2	Negative	1	2/15/2024	11:45:16	E. Ortiz	100-116	Exterior	Zone C206	Pavement Mark	Asphalt	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	180	0.4	mg/cm2	Negative	1	2/15/2024	11:45:22	E. Ortiz	100-116	Exterior	Zone C206	Pavement Mark	Asphalt	-	Yellow	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	181	0	mg/cm2	Negative	1	2/15/2024	11:45:42	E. Ortiz	100-116	Exterior	Zone C206	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	182	0.3	mg/cm2	Negative	1	2/15/2024	11:46:15	E. Ortiz	100-116	Exterior	Zone C206	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	183	0.5	mg/cm2	Negative	1	2/15/2024	11:46:26	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	184	0.3	mg/cm2	Negative	1	2/15/2024	11:48:19	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	185	0.1	mg/cm2	Negative	1	2/15/2024	11:48:26	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	186	0	mg/cm2	Negative	1	2/15/2024	11:49:37	E. Ortiz	100-116	Exterior	Zone C206	Post	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	187	0.1	mg/cm2	Negative	1	2/15/2024	11:49:42	E. Ortiz	100-116	Exterior	Zone C206	Post	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	188	0.1	mg/cm2	Negative	1	2/15/2024	11:49:47	E. Ortiz	100-116	Exterior	Zone C206	Post	Metal	-	Brown	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	189	0	mg/cm2	Negative	1	2/15/2024	11:49:52	E. Ortiz	100-116	Exterior	Zone C206	Post	Metal	-	Brown	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	190	1.1	mg/cm2	Positive	1	2/15/2024	11:50:15	E. Ortiz	100-116	Exterior	Zone C206	Ramp	Concrete	-	Blue	Intact	980 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	191	1.1	mg/cm2	Positive	1	2/15/2024	11:50:23	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Blue	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	192	3.8	mg/cm2	Positive	1	2/15/2024	11:51:11	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	193	0.4	mg/cm2	Negative	1	2/15/2024	11:51:33	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	194	0.3	mg/cm2	Negative	1	2/15/2024	11:51:39	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	195	0.5	mg/cm2	Negative	1	2/15/2024	11:52:07	E. Ortiz	100-116	Exterior	Zone C206	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	196	0.5	mg/cm2	Negative	1	2/15/2024	11:52:13	E. Ortiz	100-116	Exterior	Zone C206	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	197	0.2	mg/cm2	Negative	1	2/15/2024	11:53:23	E. Ortiz	100-116	Exterior	Zone C206	Post	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	198	0.1	mg/cm2	Negative	1	2/15/2024	11:53:46	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	199	0.7	mg/cm2	Negative	1	2/15/2024	11:54:46	E. Ortiz	100-116	Exterior	Zone C206	Ramp	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	200	0.2	mg/cm2	Negative	1	2/15/2024	11:55:20	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Yellow	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	201	0.2	mg/cm2	Negative	1	2/15/2024	11:55:27	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	202	0.2	mg/cm2	Negative	1	2/15/2024	11:56:52	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	203	0.1	mg/cm2	Negative	1	2/15/2024	11:57:10	E. Ortiz	100-116	Exterior	Zone C206	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	204	1.1	mg/cm2	Positive	-	2/15/2024	12:01:31	E. Ortiz	100-116	Exterior	Calibration	-	-	-	-	-	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	205	1	mg/cm2	Positive	-	2/15/2024	12:01:41	E. Ortiz	100-116	Exterior	Calibration	-	-	-	-	-	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	206	1	mg/cm2	Positive	-	2/15/2024	12:01:51	E. Ortiz	100-116	Exterior	Calibration	-	-	-	-	-	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	207	0.1	mg/cm2	Negative	1	2/15/2024	12:02:15	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	208	0.1	mg/cm2	Negative	1	2/15/2024	12:02:31	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	209	0.2	mg/cm2	Negative	1	2/15/2024	12:03:12	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	210	0.3	mg/cm2	Negative	1	2/15/2024	12:03:17	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	211	0.1	mg/cm2	Negative	1	2/15/2024	12:03:34	E. Ortiz	100-116	Exterior	Zone C207	Handrail	Metal	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	212	0.2	mg/cm2	Negative	1	2/15/2024	12:05:58	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	213	2.5	mg/cm2	Positive	1	2/15/2024	12:06:05	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	(Same Measure Above) 980 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	214	2.3	mg/cm2	Positive	1	2/15/2024	12:06:27	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Blue	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	215	1.3	mg/cm2	Positive	1	2/15/2024	12:06:37	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Blue	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	216	0	mg/cm2	Negative	1	2/15/2024	12:08:26	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	217	0.3	mg/cm2	Negative	1	2/15/2024	12:11:02	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	218	0.1	mg/cm2	Negative	1	2/15/2024	12:11:09	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	219	0.1	mg/cm2	Negative	1	2/15/2024	12:11:33	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	220	0.4	mg/cm2	Negative	1	2/15/2024	12:11:39	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	221	0.2	mg/cm2	Negative	1	2/15/2024	12:11:56	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	222	0.2	mg/cm2	Negative	1	2/15/2024	12:12:16	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	223	0.3	mg/cm2	Negative	1	2/15/2024	12:12:37	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	224	0.3	mg/cm2	Negative	1	2/15/2024	12:12:59	E. Ortiz	100-116	Exterior	Zone C207	Post	Metal	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	225	0.4	mg/cm2	Negative	1	2/15/2024	12:13:17	E. Ortiz	100-116	Exterior	Zone C207	Post	Metal	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	226	0.3	mg/cm2	Negative	1	2/15/2024	12:13:33	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	227	0.2	mg/cm2	Negative	1	2/15/2024	12:14:07	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	228	0.8	mg/cm2	Negative	1	2/15/2024	12:14:20	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	229	0.1	mg/cm2	Negative	1	2/15/2024	12:16:56	E. Ortiz	100-116	Exterior	Zone C207	Handrail	Metal	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	230	0.1	mg/cm2	Negative	1	2/15/2024	12:17:02	E. Ortiz	100-116	Exterior	Zone C207	Handrail	Metal	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	231	0.2	mg/cm2	Negative	1	2/15/2024	12:17:19	E. Ortiz	100-116	Exterior	Zone C207	Ramp	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	232	0.1	mg/cm2	Negative	1	2/15/2024	12:17:27	E. Ortiz	100-116	Exterior	Zone C207	Ramp	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	233	0.6	mg/cm2	Negative	1	2/15/2024	12:18:27	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	234	0.3	mg/cm2	Negative	1	2/15/2024	12:18:40	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	235	0.2	mg/cm2	Negative	1	2/15/2024	12:20:11	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	236	0.1	mg/cm2	Negative	1	2/15/2024	12:20:19	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	237	0.2	mg/cm2	Negative	1	2/15/2024	12:22:03	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	238	0	mg/cm2	Negative	1	2/15/2024	12:23:07	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	239	0.2	mg/cm2	Negative	1	2/15/2024	12:23:23	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	240	0.3	mg/cm2	Negative	1	2/15/2024	12:23:34	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	241	0.3	mg/cm2	Negative	1	2/15/2024	12:24:48	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	242	0.4	mg/cm2	Negative	1	2/15/2024	12:24:53	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	243	0.1	mg/cm2	Negative	1	2/15/2024	12:25:51	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	244	0.3	mg/cm2	Negative	1	2/15/2024	12:26:25	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	245	0.1	mg/cm2	Negative	1	2/15/2024	12:27:38	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	246	0.2	mg/cm2	Negative	1	2/15/2024	12:29:32	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	247	0.4	mg/cm2	Negative	1	2/15/2024	12:29:38	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	248	5.9	mg/cm2	Positive	1	2/15/2024	12:29:47	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	(Same Measure Above) 980 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	249	1.7	mg/cm2	Positive	1	2/15/2024	12:30:19	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	250	0.3	mg/cm2	Negative	1	2/15/2024	12:32:11	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	251	0.2	mg/cm2	Negative	1	2/15/2024	12:32:19	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	252	0.2	mg/cm2	Negative	1	2/15/2024	12:32:50	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	253	0.2	mg/cm2	Negative	1	2/15/2024	12:33:08	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	254	10.3	mg/cm2	Positive	1	2/15/2024	12:33:42	E. Ortiz	100-116	Exterior	Zone C207	Hydrant	Metal	-	Yellow	Intact	1 Unit
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	255	3.2	mg/cm2	Positive	1	2/15/2024	12:33:49	E. Ortiz	100-116	Exterior	Zone C207	Hydrant	Metal	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	256	0.5	mg/cm2	Negative	1	2/15/2024	12:35:20	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	257	4.7	mg/cm2	Positive	1	2/15/2024	12:35:40	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	Multiple Units
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	258	4.8	mg/cm2	Positive	1	2/15/2024	12:35:53	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	259	5	mg/cm2	Positive	1	2/15/2024	12:35:58	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	260	5.3	mg/cm2	Positive	1	2/15/2024	12:36:04	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	261	0.1	mg/cm2	Negative	1	2/15/2024	12:36:26	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	262	0.2	mg/cm2	Negative	1	2/15/2024	12:36:35	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	263	0.1	mg/cm2	Negative	1	2/15/2024	12:40:17	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	264	0.1	mg/cm2	Negative	1	2/15/2024	12:40:24	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	265	2.4	mg/cm2	Positive	1	2/15/2024	12:40:44	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	25 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	266	1.9	mg/cm2	Positive	1	2/15/2024	12:40:50	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	267	3	mg/cm2	Positive	1	2/15/2024	12:41:28	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	60 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	268	3.1	mg/cm2	Positive	1	2/15/2024	12:46:06	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Blue	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	269	2.8	mg/cm2	Positive	1	2/15/2024	12:46:16	E. Ortiz	100-116	Exterior	Zone C207	Ramp	Concrete	-	Blue	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	270	2.2	mg/cm2	Positive	1	2/15/2024	12:47:49	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	271	0.2	mg/cm2	Negative	1	2/15/2024	12:47:55	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	272	1.8	mg/cm2	Positive	1	2/15/2024	12:49:07	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	Multiple Units
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	273	1.6	mg/cm2	Positive	1	2/15/2024	12:49:20	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	274	3.5	mg/cm2	Positive	1	2/15/2024	12:51:34	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	275	7.5	mg/cm2	Positive	1	2/15/2024	12:53:15	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	276	0.1	mg/cm2	Negative	1	2/15/2024	12:56:11	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	277	0.1	mg/cm2	Negative	1	2/15/2024	12:56:28	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	278	0.2	mg/cm2	Negative	1	2/15/2024	12:56:47	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	279	0.2	mg/cm2	Negative	1	2/15/2024	12:57:10	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	280	0.1	mg/cm2	Negative	1	2/15/2024	12:57:31	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	281	0.9	mg/cm2	Negative	1	2/15/2024	12:57:40	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	282	0.2	mg/cm2	Negative	1	2/15/2024	12:58:10	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	283	0.2	mg/cm2	Negative	1	2/15/2024	12:58:35	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	284	0.1	mg/cm2	Negative	1	2/15/2024	12:58:40	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	285	0.1	mg/cm2	Negative	1	2/15/2024	12:59:12	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	286	0.4	mg/cm2	Negative	1	2/15/2024	12:59:18	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	287	0	mg/cm2	Negative	1	2/15/2024	13:00:04	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Gray	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	288	1.7	mg/cm2	Positive	1	2/15/2024	13:00:38	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	180 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	289	1.3	mg/cm2	Positive	1	2/15/2024	13:02:44	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	290	0.2	mg/cm2	Negative	1	2/15/2024	13:04:43	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	291	0.4	mg/cm2	Negative	1	2/15/2024	13:05:10	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	292	0.3	mg/cm2	Negative	1	2/15/2024	13:05:42	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	293	0.1	mg/cm2	Negative	1	2/15/2024	13:08:05	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	294	0.1	mg/cm2	Negative	1	2/15/2024	13:08:10	E. Ortiz	100-116	Exterior	Zone C207	Handrail	Metal	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	295	0.2	mg/cm2	Negative	1	2/15/2024	13:10:31	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	296	0.2	mg/cm2	Negative	1	2/15/2024	13:10:38	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	297	0.2	mg/cm2	Negative	1	2/15/2024	13:10:51	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	298	0.2	mg/cm2	Negative	1	2/15/2024	13:11:21	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	299	0.1	mg/cm2	Negative	1	2/15/2024	13:12:23	E. Ortiz	100-116	Exterior	Zone C207	Ramp	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	300	0.3	mg/cm2	Negative	1	2/15/2024	13:12:27	E. Ortiz	100-116	Exterior	Zone C207	Handrail	Metal	-	White	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	301	0.1	mg/cm2	Negative	1	2/15/2024	13:12:42	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	302	0	mg/cm2	Negative	1	2/15/2024	13:12:49	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	303	0.2	mg/cm2	Negative	1	2/15/2024	13:13:12	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	304	0	mg/cm2	Negative	1	2/15/2024	13:13:18	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	305	0.2	mg/cm2	Negative	1	2/15/2024	13:13:33	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	306	0.5	mg/cm2	Negative	1	2/15/2024	13:14:54	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	307	1.7	mg/cm2	Positive	1	2/15/2024	13:15:18	E. Ortiz	100-116	Exterior	Zone C207	Ramp	Concrete	-	Blue	Intact	(Same Measure Above) 980 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	308	1.7	mg/cm2	Positive	1	2/15/2024	13:15:35	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	309	0.5	mg/cm2	Negative	1	2/15/2024	13:18:49	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	310	0.3	mg/cm2	Negative	1	2/15/2024	13:19:22	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	311	0.1	mg/cm2	Negative	1	2/15/2024	13:20:04	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	312	0.1	mg/cm2	Negative	1	2/15/2024	13:20:11	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	313	2.8	mg/cm2	Positive	1	2/15/2024	13:20:43	E. Ortiz	100-116	Exterior	Zone C207	Ramp	Concrete	-	Yellow	Intact	(Same Measure Above) 980 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	314	0.2	mg/cm2	Negative	1	2/15/2024	13:23:20	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Blue	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	315	0.3	mg/cm2	Negative	1	2/15/2024	13:23:35	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	316	0.2	mg/cm2	Negative	1	2/15/2024	13:23:40	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	317	0.2	mg/cm2	Negative	1	2/15/2024	13:24:17	E. Ortiz	100-116	Exterior	Zone C207	Handrail	Metal	-	Red	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	318	0.3	mg/cm2	Negative	1	2/15/2024	13:24:23	E. Ortiz	100-116	Exterior	Zone C207	Handrail	Metal	-	White	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	319	0.1	mg/cm2	Negative	1	2/15/2024	13:25:41	E. Ortiz	100-116	Exterior	Zone C207	Hydrant	Metal	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	320	0.1	mg/cm2	Negative	1	2/15/2024	13:25:48	E. Ortiz	100-116	Exterior	Zone C207	Hydrant	Metal	-	Yellow	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	Heuresis Corp.
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	321	1.5	mg/cm2	Positive	1	2/15/2024	13:26:39	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	Multiple Units
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	322	1.1	mg/cm2	Positive	1	2/15/2024	13:26:53	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	323	1.1	mg/cm2	Positive	1	2/15/2024	13:38:29	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	White	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	324	1.1	mg/cm2	Positive	1	2/15/2024	13:39:03	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	White	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	325	1.3	mg/cm2	Positive	1	2/15/2024	13:39:31	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	326	1.5	mg/cm2	Positive	1	2/15/2024	13:40:41	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	327	0.4	mg/cm2	Negative	1	2/15/2024	13:41:36	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	328	0.6	mg/cm2	Negative	1	2/15/2024	13:41:42	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	329	0.7	mg/cm2	Negative	1	2/15/2024	13:45:32	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	330	0.1	mg/cm2	Negative	1	2/15/2024	13:45:44	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	331	0.2	mg/cm2	Negative	1	2/15/2024	13:46:01	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	332	1.3	mg/cm2	Positive	1	2/15/2024	13:46:07	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	1 Unit
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	333	1.4	mg/cm2	Positive	1	2/15/2024	13:46:24	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	334	1.2	mg/cm2	Positive	1	2/15/2024	13:46:41	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	130 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	335	1.2	mg/cm2	Positive	1	2/15/2024	13:46:53	E. Ortiz	100-116	Exterior	Zone C207	Pavement Mark	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	336	1.7	mg/cm2	Positive	1	2/15/2024	13:47:05	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	45 LF. Approx.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	337	1.4	mg/cm2	Positive	1	2/15/2024	13:47:28	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	338	0.2	mg/cm2	Negative	1	2/15/2024	13:47:47	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	339	0.3	mg/cm2	Negative	1	2/15/2024	13:48:12	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	340	0.2	mg/cm2	Negative	1	2/15/2024	13:48:22	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	341	0.5	mg/cm2	Negative	1	2/15/2024	13:49:59	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	342	0.3	mg/cm2	Negative	1	2/15/2024	13:50:04	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	343	0.3	mg/cm2	Negative	1	2/15/2024	13:52:31	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	344	0.5	mg/cm2	Negative	1	2/15/2024	13:53:57	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	345	0.1	mg/cm2	Negative	1	2/15/2024	13:54:41	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	346	0.1	mg/cm2	Negative	1	2/15/2024	13:54:48	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	347	0.2	mg/cm2	Negative	1	2/15/2024	13:55:26	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	348	0.1	mg/cm2	Negative	1	2/15/2024	13:56:00	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	349	0.1	mg/cm2	Negative	1	2/15/2024	14:00:37	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	Duplicated Reading
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	350	0	mg/cm2	Negative	1	2/15/2024	14:00:43	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	Duplicated Reading
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	351	0	mg/cm2	Negative	1	2/15/2024	14:00:48	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	Duplicated Reading
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	352	0	mg/cm2	Negative	1	2/15/2024	14:00:53	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	Duplicated Reading
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	353	0.1	mg/cm2	Negative	1	2/15/2024	14:00:58	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	Duplicated Reading
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	354	0.1	mg/cm2	Negative	1	2/15/2024	14:01:07	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	Duplicated Reading
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	355	0	mg/cm2	Negative	1	2/15/2024	14:01:12	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	Duplicated Reading
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	356	0	mg/cm2	Negative	1	2/15/2024	14:01:17	E. Ortiz	100-116	Exterior	Zone C207	Post	Wood	-	Yellow	Intact	Duplicated Reading
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	357	0	mg/cm2	Negative	1	2/15/2024	14:01:22	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	Duplicated Reading
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	358	0	mg/cm2	Negative	1	2/15/2024	14:01:27	E. Ortiz	100-116	Exterior	Zone C207	Curb	Concrete	-	Yellow	Intact	Duplicated Reading
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	359	1.1	mg/cm2	Positive	-	2/15/2024	14:02:33	E. Ortiz	100-116	Exterior	Calibration	-	-	-	-	-	-
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	360	1	mg/cm2	Positive	-	2/15/2024	14:02:51	E. Ortiz	100-116	Exterior	Calibration	-	-	-	-	-	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO PR. XRF SHEET

Company	**Heuresis Corp.**
Model	PB200i
Type	XRF Lead Paint Analyzer
Serial Num.	3007
App Version	PB200i-5.3.1

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO	361	1	mg/cm2	Positive	-	2/15/2024	14:03:06	E. Ortiz	100-116	Exterior	Calibration	-	-	-	-	-	-

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO - XRF SHEET

Company	**Heuresis Corp.**
Model	PB00i
Type	XRF Lead Paint Analyzer
Serial Num.	1142
App Version	PB00i-4.1-11

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
-	1	0.8	mg/cm2	Negative	-	2/15/2024	8:31:43	E.COLON	-	-	Calibration	-	-	-	-	-	-
-	2	1	mg/cm2	Positive	-	2/15/2024	8:32:57	E.COLON	-	-	Calibration	-	-	-	-	-	-
-	3	1	mg/cm2	Positive	-	2/15/2024	8:33:19	E.COLON	-	-	Calibration	-	-	-	-	-	-
Zone C200	4	0.2	mg/cm2	Negative	-	2/15/2024	8:38:27	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C200	5	0.2	mg/cm2	Negative	-	2/15/2024	8:38:50	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C200	6	0.1	mg/cm2	Negative	-	2/15/2024	8:39:16	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Yellow	Deteriorated	
Zone C200	7	0.1	mg/cm2	Negative	-	2/15/2024	8:39:27	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Yellow	Deteriorated	
Zone C200	8	0	mg/cm2	Negative	-	2/15/2024	8:39:38	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Yellow	Deteriorated	
Zone C200	9	0	mg/cm2	Negative	-	2/15/2024	8:40:03	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C200	10	0.2	mg/cm2	Negative	-	2/15/2024	8:40:19	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Blue	Deteriorated	
Zone C200	11	0	mg/cm2	Negative	-	2/15/2024	8:40:36	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C200	12	0	mg/cm2	Negative	-	2/15/2024	8:41:33	E.COLON	100-116	Exterior	Exterior	Handicap Ramp	Concrete	-	Blue	Deteriorated	
Zone C200	13	0	mg/cm2	Negative	-	2/15/2024	8:42:29	E.COLON	100-116	Exterior	Exterior	Sidewalk	Concrete	-	Unpainted	Deteriorated	
Zone C200	14	0.1	mg/cm2	Negative	-	2/15/2024	8:42:47	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C200	15	0.2	mg/cm2	Negative	-	2/15/2024	8:42:57	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C200	16	0.2	mg/cm2	Negative	-	2/15/2024	8:43:07	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C200	17	0.1	mg/cm2	Negative	-	2/15/2024	8:43:16	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C200	18	0	mg/cm2	Negative	-	2/15/2024	8:44:02	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C200	19	0	mg/cm2	Negative	-	2/15/2024	8:44:12	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C200	20	0	mg/cm2	Negative	-	2/15/2024	8:44:31	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Beige	Deteriorated	
Zone C200	21	0	mg/cm2	Negative	-	2/15/2024	8:45:04	E.COLON	100-116	Exterior	Exterior	Sidewalk	Concrete	-	Red	Deteriorated	
Zone C200	22	0	mg/cm2	Negative	-	2/15/2024	8:46:03	E.COLON	100-116	Exterior	Exterior	Sidewalk	Concrete	-	Blue	Deteriorated	
Zone C200	23	0	mg/cm2	Negative	-	2/15/2024	8:46:25	E.COLON	100-116	Exterior	Exterior	Sidewalk	Terrazzo	-	Gray	Deteriorated	
Zone C201	24	0	mg/cm2	Negative	-	2/15/2024	8:47:01	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Beige	Deteriorated	
Zone C201	25	0	mg/cm2	Negative	-	2/15/2024	8:47:19	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Blue	Deteriorated	
Zone C201	26	0	mg/cm2	Negative	-	2/15/2024	8:47:47	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Blue	Deteriorated	

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO - XRF SHEET

Company	**Heuresis Corp.**
Model	PB00i
Type	XRF Lead Paint Analyzer
Serial Num.	1142
App Version	PB00i-4.1-11

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Zone C201	27	0.2	mg/cm2	Negative	-	2/15/2024	8:48:04	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Beige	Deteriorated	
Zone C201	28	0.1	mg/cm2	Negative	-	2/15/2024	8:48:34	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Yellow	Deteriorated	
Zone C201	29	0.2	mg/cm2	Negative	-	2/15/2024	8:48:52	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C201	30	0.1	mg/cm2	Negative	-	2/15/2024	8:49:17	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Asphalt	-	Yellow	Deteriorated	
Zone C201	31	0.1	mg/cm2	Negative	-	2/15/2024	8:49:27	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Asphalt	-	Yellow	Deteriorated	
Zone C201	32	0.1	mg/cm2	Negative	-	2/15/2024	8:49:54	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Asphalt	-	White	Deteriorated	
Zone C201	33	0.1	mg/cm2	Negative	-	2/15/2024	8:51:13	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Green	Deteriorated	
Zone C201	34	0	mg/cm2	Negative	-	2/15/2024	8:51:34	E.COLON	100-116	Exterior	Exterior	Sidewalk	Concrete	-	Green	Deteriorated	
Zone C201	35	0.1	mg/cm2	Negative	-	2/15/2024	8:51:54	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Beige	Deteriorated	
Zone C201	36	0.2	mg/cm2	Negative	-	2/15/2024	8:52:30	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Red	Deteriorated	
Zone C201	37	0.2	mg/cm2	Negative	-	2/15/2024	8:52:51	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Asphalt	-	Red	Deteriorated	
Zone C201	38	0.1	mg/cm2	Negative	-	2/15/2024	8:53:12	E.COLON	100-116	Exterior	Exterior	Handicap Ramp	Concrete	-	Blue	Deteriorated	
Zone C201	39	0.1	mg/cm2	Negative	-	2/15/2024	8:53:33	E.COLON	100-116	Exterior	Exterior	Floor Mark	Concrete	-	Yellow	Deteriorated	
Zone C201	40	0	mg/cm2	Negative	-	2/15/2024	8:53:52	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Beige	Deteriorated	
Zone C201	41	0.1	mg/cm2	Negative	-	2/15/2024	8:54:17	E.COLON	100-116	Exterior	Exterior	Sidewalk	Terrazzo	-	Gray	Deteriorated	
Zone C201	42	0.1	mg/cm2	Negative	-	2/15/2024	8:55:11	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Asphalt	-	Yellow	Deteriorated	
Zone C201	43	0.1	mg/cm2	Negative	-	2/15/2024	8:55:22	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Asphalt	-	Yellow	Deteriorated	
Zone C204	44	0	mg/cm2	Negative	-	2/15/2024	8:55:34	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Asphalt	-	Yellow	Deteriorated	
Zone C204	45	0.7	mg/cm2	Negative	-	2/15/2024	8:56:01	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Yellow	Deteriorated	
Zone C204	46	0.7	mg/cm2	Negative	-	2/15/2024	8:56:22	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Yellow	Deteriorated	
Zone C204	47	0	mg/cm2	Negative	-	2/15/2024	8:56:47	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Yellow	Deteriorated	
Zone C204	48	0	mg/cm2	Negative	-	2/15/2024	8:57:22	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Yellow	Deteriorated	
Zone C204	49	0.1	mg/cm2	Negative	-	2/15/2024	8:57:59	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C204	50	0	mg/cm2	Negative	-	2/15/2024	8:58:10	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C204	51	0	mg/cm2	Negative	-	2/15/2024	8:58:30	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Gray	Deteriorated	
Zone C204	52	0	mg/cm2	Negative	-	2/15/2024	8:59:55	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Yellow	Deteriorated	

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO - XRF SHEET

Company	**Heuresis Corp.**
Model	PB00i
Type	XRF Lead Paint Analyzer
Serial Num.	1142
App Version	PB00i-4.1-11

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Zone C204	53	0	mg/cm2	Negative	-	2/15/2024	9:00:19	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C204	54	0	mg/cm2	Negative	-	2/15/2024	9:00:29	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C204	55	0	mg/cm2	Negative	-	2/15/2024	9:00:57	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Blue	Deteriorated	
Zone C204	56	0	mg/cm2	Negative	-	2/15/2024	9:01:14	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Blue	Deteriorated	
Zone C204	57	0	mg/cm2	Negative	-	2/15/2024	9:01:33	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C204	58	0	mg/cm2	Negative	-	2/15/2024	9:01:43	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C204	59	0	mg/cm2	Negative	-	2/15/2024	9:02:23	E.COLON	100-116	Exterior	Exterior	Fence	Metal	-	Green	Deteriorated	
Zone C204	60	0	mg/cm2	Negative	-	2/15/2024	9:02:33	E.COLON	100-116	Exterior	Exterior	Fence	Metal	-	Green	Deteriorated	
Zone C204	61	0	mg/cm2	Negative	-	2/15/2024	9:02:54	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Gray	Deteriorated	
Zone C204	62	0	mg/cm2	Negative	-	2/15/2024	9:03:11	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Gray	Deteriorated	
Zone C204	63	0.1	mg/cm2	Negative	-	2/15/2024	9:03:44	E.COLON	100-116	Exterior	Exterior	Hydrant	Metal	-	Yellow	Deteriorated	
Zone C204	64	0.2	mg/cm2	Negative	-	2/15/2024	9:04:07	E.COLON	100-116	Exterior	Exterior	Sidewalk	Concrete	-	Red	Deteriorated	
Zone C204	65	0	mg/cm2	Negative	-	2/15/2024	9:07:17	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C204	66	0.3	mg/cm2	Negative	-	2/15/2024	9:07:28	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C204	67	0.2	mg/cm2	Negative	-	2/15/2024	9:07:38	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C204	68	0	mg/cm2	Negative	-	2/15/2024	9:07:55	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	Yellow	Deteriorated	
Zone C204	69	0	mg/cm2	Negative	-	2/15/2024	9:08:05	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	Yellow	Deteriorated	
Zone C204	70	0	mg/cm2	Negative	-	2/15/2024	9:08:22	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	White	Deteriorated	
Zone C204	71	0.6	mg/cm2	Negative	-	2/15/2024	9:09:01	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	White	Deteriorated	
Zone C204	72	0.5	mg/cm2	Negative	-	2/15/2024	9:09:13	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	White	Deteriorated	
Zone C204	73	0.2	mg/cm2	Negative	-	2/15/2024	9:09:42	E.COLON	100-116	Exterior	Exterior	Handicap Ramp	Concrete	-	Blue	Deteriorated	
Zone C204	74	0.2	mg/cm2	Negative	-	2/15/2024	9:09:52	E.COLON	100-116	Exterior	Exterior	Handicap Ramp	Concrete	-	Blue	Deteriorated	
Zone C204	75	0.2	mg/cm2	Negative	-	2/15/2024	9:10:20	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C204	76	0.3	mg/cm2	Negative	-	2/15/2024	9:10:30	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C204	77	0.2	mg/cm2	Negative	-	2/15/2024	9:10:40	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C204	78	0	mg/cm2	Negative	-	2/15/2024	9:10:59	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Yellow	Deteriorated	

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO - XRF SHEET

Company	**Heuresis Corp.**
Model	PB00i
Type	XRF Lead Paint Analyzer
Serial Num.	1142
App Version	PB00i-4.1-11

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Zone C204	79	0	mg/cm2	Negative	-	2/15/2024	9:11:22	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Gray	Deteriorated	
Zone C204	80	6.1	mg/cm2	Positive	-	2/15/2024	9:11:50	E.COLON	100-116	Exterior	Exterior	Hydrant	Metal	-	Yellow	Deteriorated	1 UNIT
Zone C204	81	0	mg/cm2	Negative	-	2/15/2024	9:14:36	E.COLON	100-116	Exterior	Exterior	Sidewalk	Concrete	-	Red	Deteriorated	
Zone C204	82	0.1	mg/cm2	Negative	-	2/15/2024	9:14:57	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Blue	Deteriorated	
Zone C204	83	0	mg/cm2	Negative	-	2/15/2024	9:15:12	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	Blue	Deteriorated	
Zone C204	84	0.2	mg/cm2	Negative	-	2/15/2024	9:16:08	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	Yellow	Deteriorated	
Zone C204	85	0.1	mg/cm2	Negative	-	2/15/2024	9:16:29	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C204	86	0.1	mg/cm2	Negative	-	2/15/2024	9:16:45	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C204	87	0.2	mg/cm2	Negative	-	2/15/2024	9:17:09	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Yellow	Deteriorated	
Zone C203	88	0.1	mg/cm2	Negative	-	2/15/2024	9:18:55	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C203	89	0	mg/cm2	Negative	-	2/15/2024	9:19:05	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C203	90	0	mg/cm2	Negative	-	2/15/2024	9:19:19	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Blue	Deteriorated	
Zone C203	91	0	mg/cm2	Negative	-	2/15/2024	9:19:36	E.COLON	100-116	Exterior	Exterior	Handicap Ramp	Concrete	-	Blue	Deteriorated	
Zone C203	92	0.1	mg/cm2	Negative	-	2/15/2024	9:20:00	E.COLON	100-116	Exterior	Exterior	Railing	Metal	-	Yellow	Deteriorated	
Zone C203	93	0.2	mg/cm2	Negative	-	2/15/2024	9:20:19	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C203	94	0	mg/cm2	Negative	-	2/15/2024	9:20:35	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C203	95	0	mg/cm2	Negative	-	2/15/2024	9:20:53	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Yellow	Deteriorated	
Zone C203	96	0.2	mg/cm2	Negative	-	2/15/2024	9:21:09	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Yellow	Deteriorated	
Zone C203	97	0.1	mg/cm2	Negative	-	2/15/2024	9:21:25	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Gray	Deteriorated	
Zone C203	98	4.2	mg/cm2	Positive	-	2/15/2024	9:22:18	E.COLON	100-116	Exterior	Exterior	Hydrant	Metal	-	Yellow	Deteriorated	1 UNIT
Zone C203	99	0	mg/cm2	Negative	-	2/15/2024	9:24:53	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Gray	Deteriorated	
Zone C203	100	0	mg/cm2	Negative	-	2/15/2024	9:25:09	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Yellow	Deteriorated	
Zone C203	101	0	mg/cm2	Negative	-	2/15/2024	9:25:25	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Gray	Deteriorated	
Zone C203	102	0.1	mg/cm2	Negative	-	2/15/2024	9:25:43	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C203	103	0.1	mg/cm2	Negative	-	2/15/2024	9:25:53	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	White	Deteriorated	
Zone C203	104	0.1	mg/cm2	Negative	-	2/15/2024	9:26:10	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO - XRF SHEET

Company	**Heuresis Corp.**
Model	PB00i
Type	XRF Lead Paint Analyzer
Serial Num.	1142
App Version	PB00i-4.1-11

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Zone C203	105	0.1	mg/cm2	Negative	-	2/15/2024	9:26:20	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C203	106	0	mg/cm2	Negative	-	2/15/2024	9:26:36	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Blue	Deteriorated	
Zone C203	107	0	mg/cm2	Negative	-	2/15/2024	9:27:12	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	Yellow	Deteriorated	
Zone C203	108	0.2	mg/cm2	Negative	-	2/15/2024	9:27:23	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	Yellow	Deteriorated	
Zone C203	109	0.3	mg/cm2	Negative	-	2/15/2024	9:27:33	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	Yellow	Deteriorated	
Zone C203	110	0	mg/cm2	Negative	-	2/15/2024	9:28:09	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	Yellow	Deteriorated	
Zone C203	111	0.1	mg/cm2	Negative	-	2/15/2024	9:28:38	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	Orange	Deteriorated	
Zone C203	112	0	mg/cm2	Negative	-	2/15/2024	9:28:59	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	Blue	Deteriorated	
Zone C203	113	0.1	mg/cm2	Negative	-	2/15/2024	9:29:17	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	White	Deteriorated	
Zone C203	114	0.2	mg/cm2	Negative	-	2/15/2024	9:29:27	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	White	Deteriorated	
Zone C203	115	0	mg/cm2	Negative	-	2/15/2024	9:30:10	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Brown	Deteriorated	
Zone C203	116	0	mg/cm2	Negative	-	2/15/2024	9:30:36	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Brown	Deteriorated	
Zone C203	117	0	mg/cm2	Negative	-	2/15/2024	9:31:08	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Brown	Deteriorated	
Zone C203	118	0	mg/cm2	Negative	-	2/15/2024	9:31:31	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Brown	Deteriorated	
Zone C203	119	0	mg/cm2	Negative	-	2/15/2024	9:32:42	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Gray	Deteriorated	
Zone C203	120	0	mg/cm2	Negative	-	2/15/2024	9:33:04	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Blue	Deteriorated	
Zone C203	121	0.1	mg/cm2	Negative	-	2/15/2024	9:33:13	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Blue	Deteriorated	
Zone C203	122	0	mg/cm2	Negative	-	2/15/2024	9:33:32	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C203	123	0.1	mg/cm2	Negative	-	2/15/2024	9:33:42	E.COLON	100-116	Exterior	Exterior	Curb	Concrete	-	Yellow	Deteriorated	
Zone C203	124	0.1	mg/cm2	Negative	-	2/15/2024	9:34:01	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	Yellow	Deteriorated	
Zone C203	125	0	mg/cm2	Negative	-	2/15/2024	9:34:21	E.COLON	100-116	Exterior	Exterior	Pavement Mark	Concrete	-	Green	Deteriorated	
Zone C203	126	0	mg/cm2	Negative	-	2/15/2024	9:36:01	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Orange	Deteriorated	
Zone C203	127	0.1	mg/cm2	Negative	-	2/15/2024	9:36:14	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Orange	Deteriorated	
Zone C203	128	0.1	mg/cm2	Negative	-	2/15/2024	9:36:25	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Orange	Deteriorated	
Zone C203	129	0.2	mg/cm2	Negative	-	2/15/2024	9:36:43	E.COLON	100-116	Exterior	Exterior	Sidewalk	Concrete	-	Red	Deteriorated	
Zone C203	130	0.1	mg/cm2	Negative	-	2/15/2024	9:37:09	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Black	Deteriorated	

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO - XRF SHEET

Company	**Heuresis Corp.**
Model	PB00i
Type	XRF Lead Paint Analyzer
Serial Num.	1142
App Version	PB00i-4.1-11

Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Zone C203	131	0	mg/cm2	Negative	-	2/15/2024	9:37:37	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Black	Deteriorated	
Zone C203	132	0	mg/cm2	Negative	-	2/15/2024	9:38:03	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Black	Deteriorated	
Zone C202	133	0.6	mg/cm2	Negative	-	2/15/2024	9:39:00	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Yellow	Deteriorated	
Zone C202	134	0	mg/cm2	Negative	-	2/15/2024	9:39:14	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Yellow	Deteriorated	
Zone C202	135	0	mg/cm2	Negative	-	2/15/2024	9:39:42	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Black	Deteriorated	
Zone C202	136	0.5	mg/cm2	Negative	-	2/15/2024	9:40:09	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Gray	Deteriorated	
Zone C202	137	0	mg/cm2	Negative	-	2/15/2024	9:41:36	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Yellow	Deteriorated	
Zone C202	138	0	mg/cm2	Negative	-	2/15/2024	9:41:53	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Black	Deteriorated	
Zone C202	139	0	mg/cm2	Negative	-	2/15/2024	9:42:04	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Black	Deteriorated	
Zone C202	140	0.1	mg/cm2	Negative	-	2/15/2024	9:42:31	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Black	Deteriorated	
Zone C202	141	0.1	mg/cm2	Negative	-	2/15/2024	9:42:54	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Orange	Deteriorated	
Zone C202	142	0	mg/cm2	Negative	-	2/15/2024	9:43:13	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Orange	Deteriorated	
Zone C202	143	0	mg/cm2	Negative	-	2/15/2024	9:44:25	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Orange	Deteriorated	
Zone C202	144	0.7	mg/cm2	Negative	-	2/15/2024	9:44:42	E.COLON	100-116	Exterior	Exterior	Pole	Wood	-	Yellow	Deteriorated	
Zone C202	145	0	mg/cm2	Negative	-	2/15/2024	9:45:23	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Orange	Deteriorated	
Zone C202	146	0	mg/cm2	Negative	-	2/15/2024	9:45:38	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Orange	Deteriorated	
Zone C202	147	0	mg/cm2	Negative	-	2/15/2024	9:46:09	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Black	Deteriorated	
Zone C202	148	0.4	mg/cm2	Negative	-	2/15/2024	9:46:33	E.COLON	100-116	Exterior	Exterior	Floor	Terrazzo	-	Black	Deteriorated	
Zone C202	149	0.3	mg/cm2	Negative	-	2/15/2024	9:46:43	E.COLON	100-116	Exterior	Exterior	Floor	Terrazzo	-	Black	Deteriorated	
Zone C202	150	0.2	mg/cm2	Negative	-	2/15/2024	9:47:01	E.COLON	100-116	Exterior	Exterior	Floor	Terrazzo	-	Black	Deteriorated	
Zone C202	151	0	mg/cm2	Negative	-	2/15/2024	9:47:23	E.COLON	100-116	Exterior	Exterior	Floor	Brick	-	Unpainted	Deteriorated	
Zone C202	152	0	mg/cm2	Negative	-	2/15/2024	9:47:33	E.COLON	100-116	Exterior	Exterior	Floor	Concrete	-	Unpainted	Deteriorated	
Zone C202	153	0	mg/cm2	Negative	-	2/15/2024	9:47:56	E.COLON	100-116	Exterior	Exterior	Sidewalk	Concrete	-	Black	Deteriorated	
Zone C202	154	0	mg/cm2	Negative	-	2/15/2024	9:48:18	E.COLON	100-116	Exterior	Exterior	Sidewalk	Brick	-	Unpainted	Deteriorated	
Zone C202	155	0	mg/cm2	Negative	-	2/15/2024	9:48:50	E.COLON	100-116	Exterior	Exterior	Hydrant	Metal	-	Yellow	Deteriorated	
Zone C202	156	0	mg/cm2	Negative	-	2/15/2024	9:49:14	E.COLON	100-116	Exterior	Exterior	Pavement	Brick	-	Red	Deteriorated	

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO - XRF SHEET

Company	**Heuresis Corp.**
Model	PB00i
Type	XRF Lead Paint Analyzer
Serial Num.	1142
App Version	PB00i-4.1-11

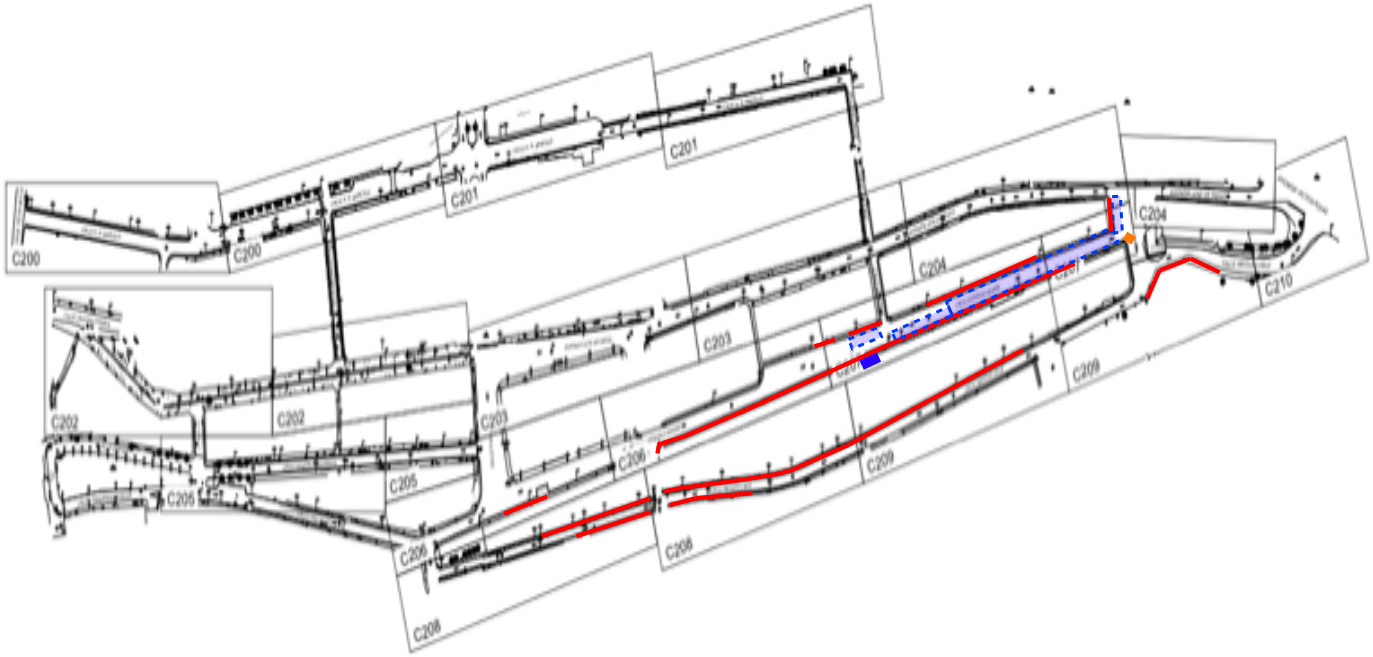
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Zone C202	157	0	mg/cm2	Negative	-	2/15/2024	9:49:24	E.COLON	100-116	Exterior	Exterior	Pavement	Brick	-	Red	Deteriorated	
Zone C202	158	0.4	mg/cm2	Negative	-	2/15/2024	9:49:45	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Gray	Deteriorated	
Zone C202	159	0	mg/cm2	Negative	-	2/15/2024	9:50:12	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Purple	Deteriorated	
Zone C202	160	0	mg/cm2	Negative	-	2/15/2024	9:50:30	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Red	Deteriorated	
Zone C202	161	0.3	mg/cm2	Negative	-	2/15/2024	9:50:59	E.COLON	100-116	Exterior	Exterior	Floor	Terrazzo	-	Gray	Deteriorated	
Zone C202	162	0.1	mg/cm2	Negative	-	2/15/2024	9:51:36	E.COLON	100-116	Exterior	Exterior	Decorative Object	Concrete	-	Red	Deteriorated	
Zone C202	163	0	mg/cm2	Negative	-	2/15/2024	9:51:53	E.COLON	100-116	Exterior	Exterior	Decorative Object	Concrete	-	Red	Deteriorated	
Zone C202	164	0.1	mg/cm2	Negative	-	2/15/2024	9:52:08	E.COLON	100-116	Exterior	Exterior	Decorative Object	Concrete	-	Green	Deteriorated	
Zone C202	165	0	mg/cm2	Negative	-	2/15/2024	9:53:01	E.COLON	100-116	Exterior	Exterior	Floor	Brick	-	Red	Deteriorated	
Zone C203	166	0	mg/cm2	Negative	-	2/15/2024	9:53:43	E.COLON	100-116	Exterior	Exterior	Hydrant	Metal	-	Yellow	Deteriorated	Duplicate Reading
Zone C204	167	0	mg/cm2	Negative	-	2/15/2024	9:53:54	E.COLON	100-116	Exterior	Exterior	Pavement	Brick	-	Red	Deteriorated	Duplicate Reading
Zone C205	168	0	mg/cm2	Negative	-	2/15/2024	9:54:04	E.COLON	100-116	Exterior	Exterior	Pavement	Brick	-	Red	Deteriorated	Duplicate Reading
Zone C206	169	0	mg/cm2	Negative	-	2/15/2024	9:54:14	E.COLON	100-116	Exterior	Exterior	Pole	Concrete	-	Gray	Deteriorated	Duplicate Reading
Zone C207	170	0	mg/cm2	Negative	-	2/15/2024	9:57:15	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Purple	Deteriorated	Duplicate Reading
Zone C208	171	0	mg/cm2	Negative	-	2/15/2024	9:57:26	E.COLON	100-116	Exterior	Exterior	Pole	Metal	-	Red	Deteriorated	Duplicate Reading
Zone C209	172	0	mg/cm2	Negative	-	2/15/2024	9:57:36	E.COLON	100-116	Exterior	Exterior	Floor	Terrazzo	-	Gray	Deteriorated	Duplicate Reading
Zone C210	173	0	mg/cm2	Negative	-	2/15/2024	9:58:51	E.COLON	100-116	Exterior	Exterior	Decorative Object	Concrete	-	Red	Deteriorated	Duplicate Reading
Zone C211	174	0	mg/cm2	Negative	-	2/15/2024	9:59:02	E.COLON	100-116	Exterior	Exterior	Decorative Object	Concrete	-	Red	Deteriorated	Duplicate Reading
Zone C212	175	0	mg/cm2	Negative	-	2/15/2024	9:59:11	E.COLON	100-116	Exterior	Exterior	Decorative Object	Concrete	-	Green	Deteriorated	Duplicate Reading
Zone C213	176	0	mg/cm2	Negative	-	2/15/2024	9:59:25	E.COLON	100-116	Exterior	Exterior	Floor	Brick	-	Red	Deteriorated	Duplicate Reading
-	177	0	mg/cm2	Negative	-	2/15/2024	9:59:58	E.COLON	-	-	Calibration	-	-	-	-	-	-
-	178	1	mg/cm2	Positive	-	2/15/2024	10:01:05	E.COLON	-	-	Calibration	-	-	-	-	-	-
-	179	1	mg/cm2	Positive	-	2/15/2024	10:01:26	E.COLON	-	-	Calibration	-	-	-	-	-	-

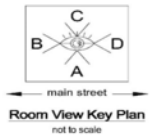
Attachment 5
LBP Diagram

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO

LEAD-BASED PAINT DIAGRAM

- ***POSITIVE LEAD-BASED PAINT CONCRETE CURBS & RAMPS***
- ***POSITIVE LEAD-BASED PAINT METAL HYDRANT***
- ***POSITIVE LEAD-BASED PAINT CONCRETE PAVEMENT MARK***
- ***POSITIVE LEAD-BASED PAINT WOOD POST***



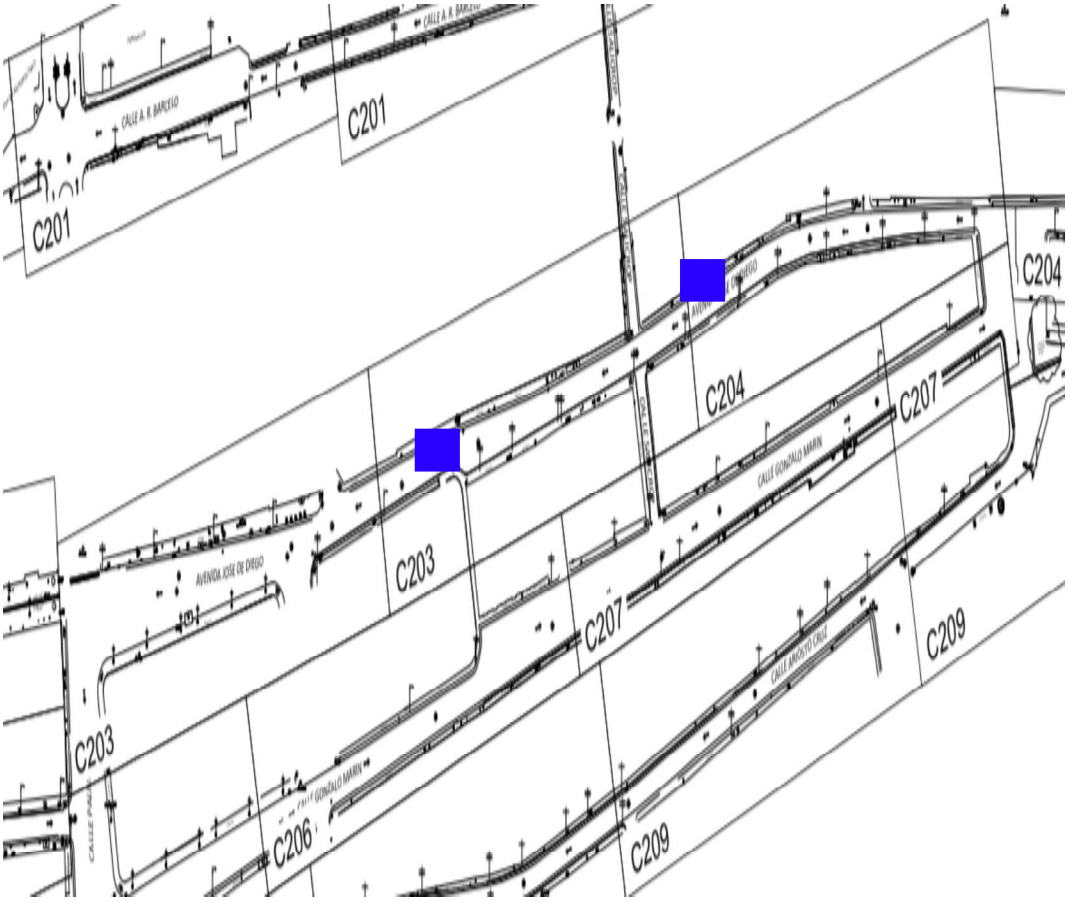


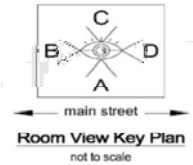
Room View Key Plan
not to scale

Ave. Jose de Diego #100 Arecibo, P.R. 00613-108

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO

➡ ***POSITIVE LEAD-BASED PAINT METAL HYDRANT***





Room View Key Plan
not to scale

Ave. Jose de Diego #100 Arecibo, P.R. 00613-108

Attachment 6

Representative Pictures\Photograph Log

Emanuel Ortiz / Eduardo Colón
Nortol. Environmental & Occupational Safety, Inc.

PR-CRP-000768 URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO - **LBP SURVEY PHOTO LOG**

Built circa: Year of construction not available at the moment of inspection.

Thursday, February 15, 2024

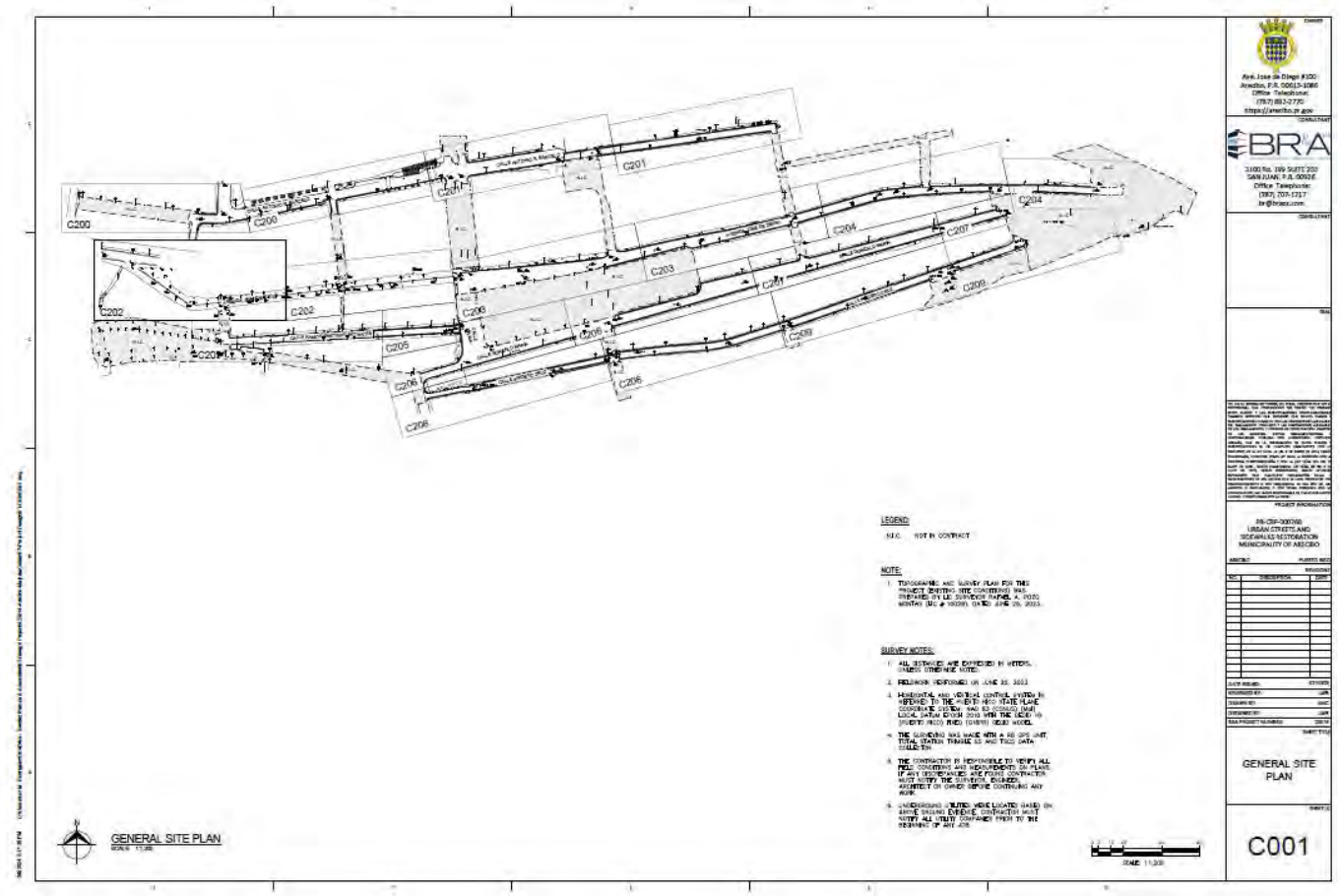
Prepared For BR&A, LLC

Ave. Jose de Diego #100 Arecibo, P.R. 00613-108

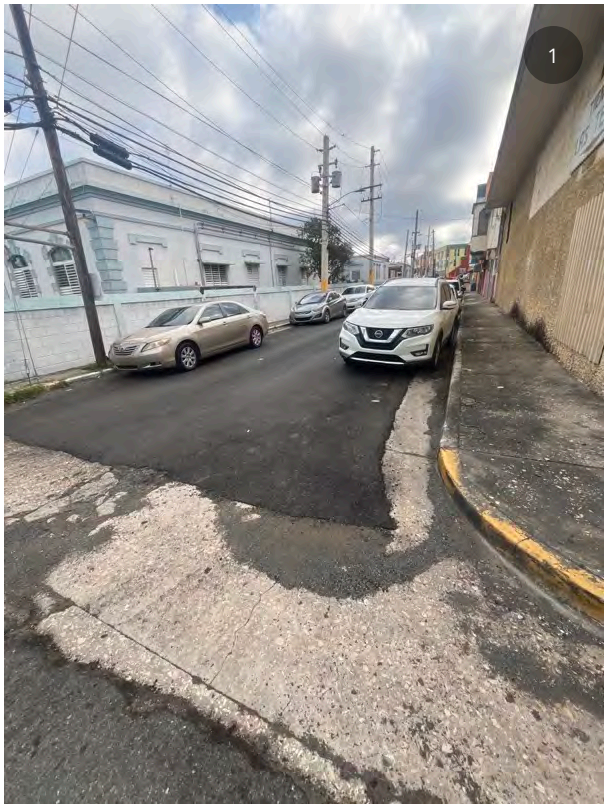
1

SCOPE OF WORK:

Inspección A/P en asfalto, aceras y postes de alumbrado que están en plano.



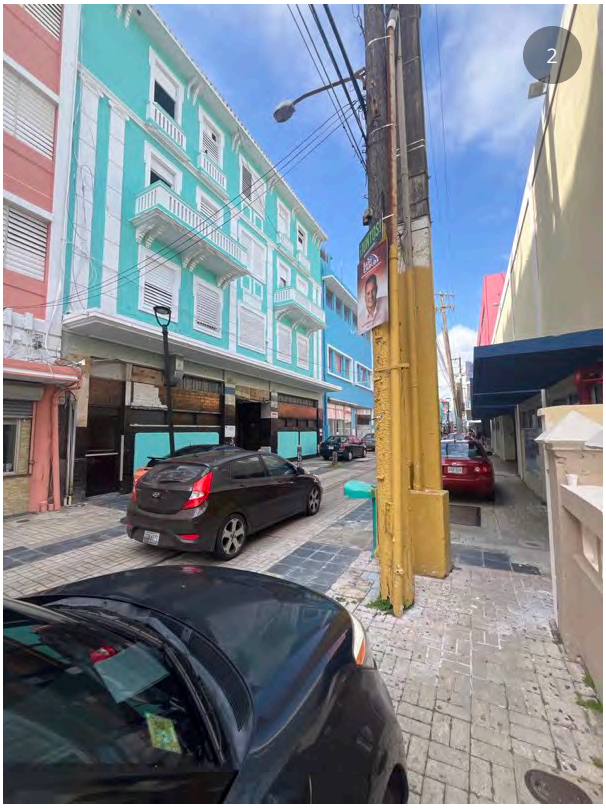
GENERAL VIEWS: ZONE C200

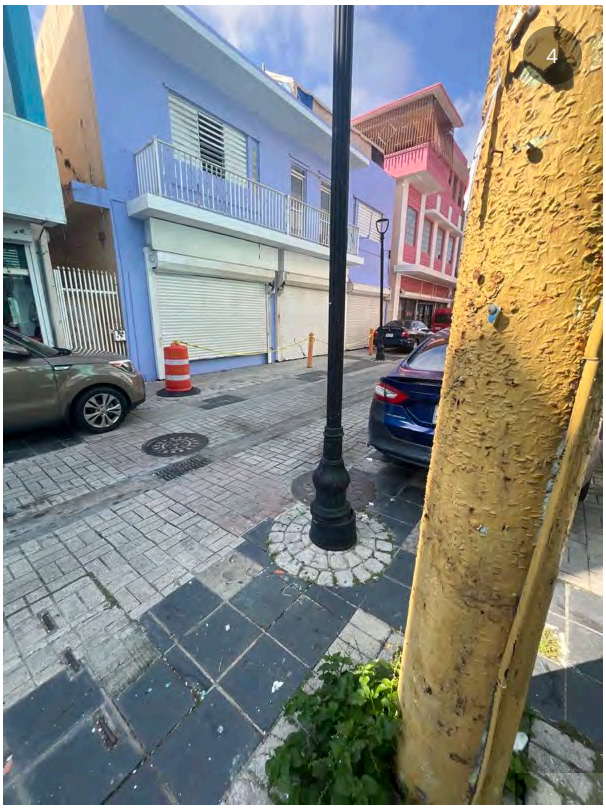


GENERAL VIEWS: ZONE C201

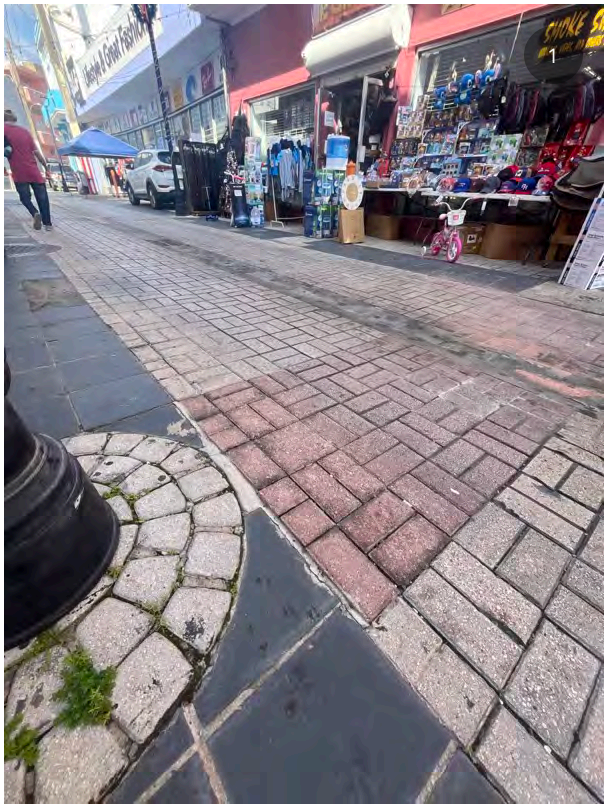
GENERAL VIEWS: ZONE C201

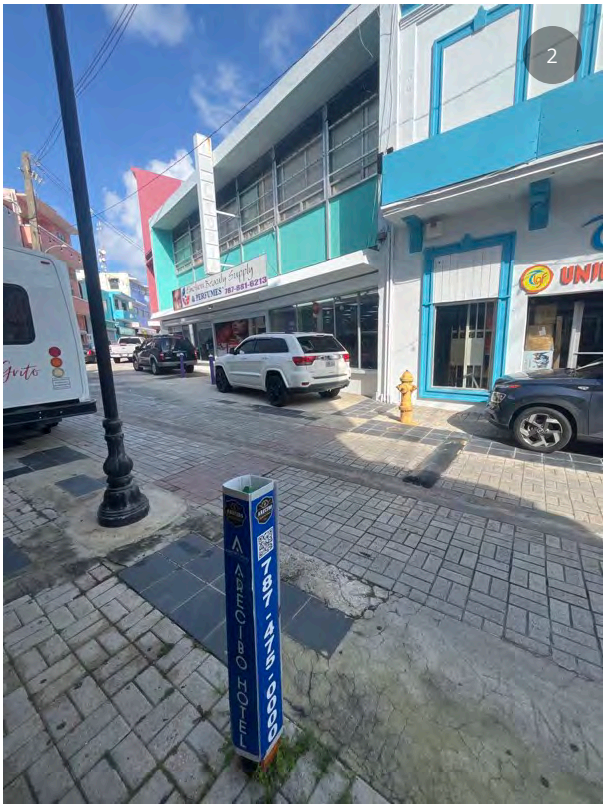
GENERAL VIEWS: ZONE C202



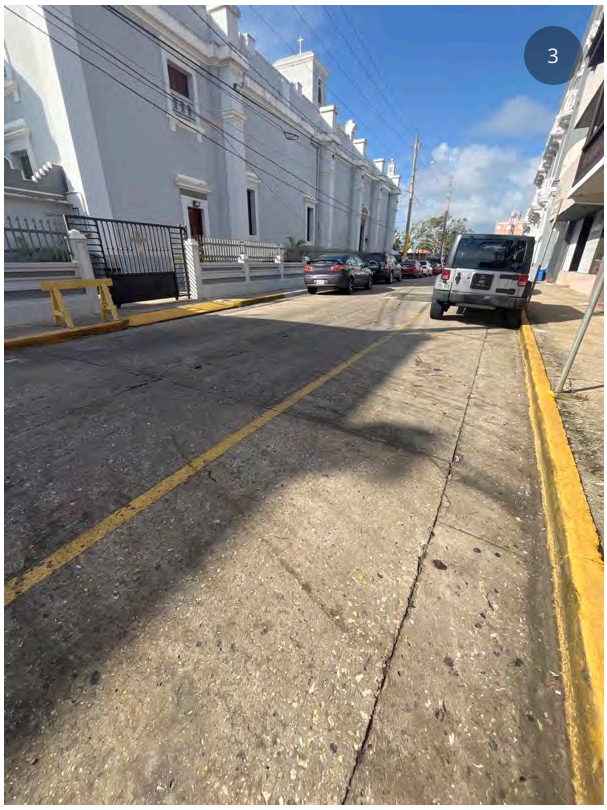


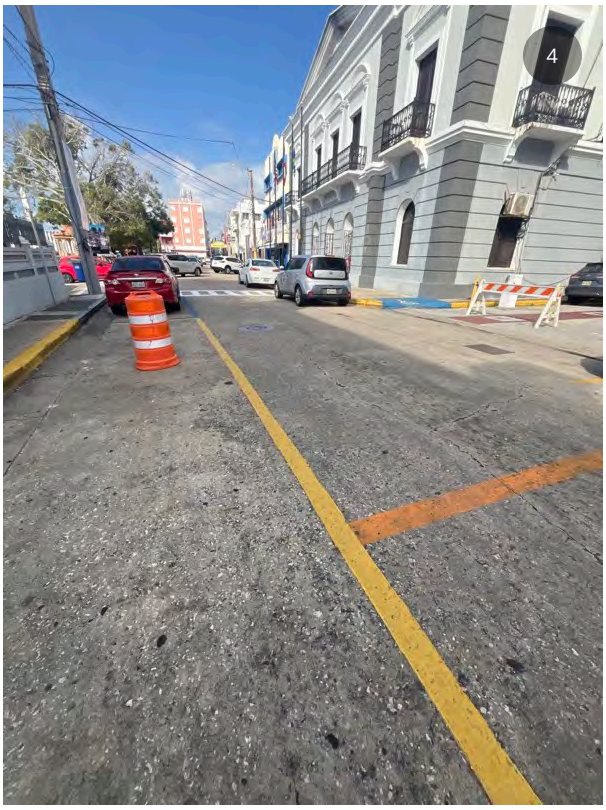
GENERAL VIEWS: ZONE C202



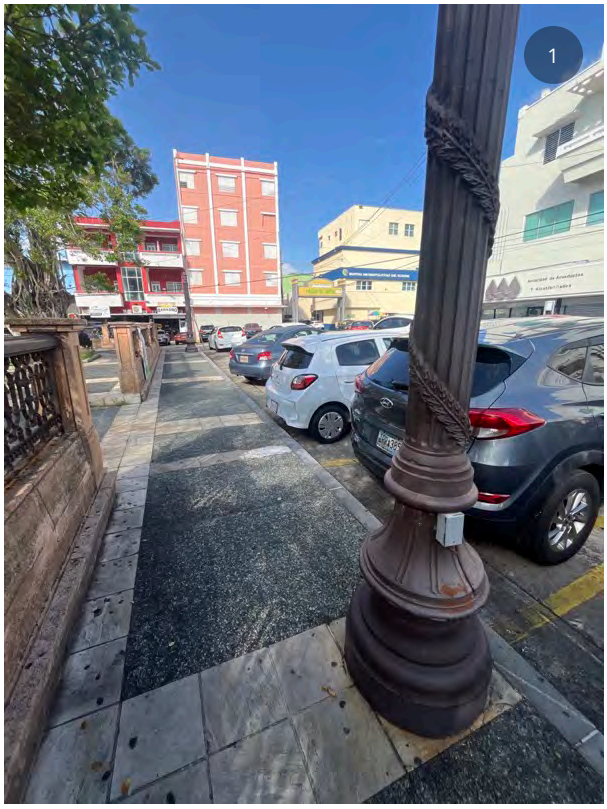


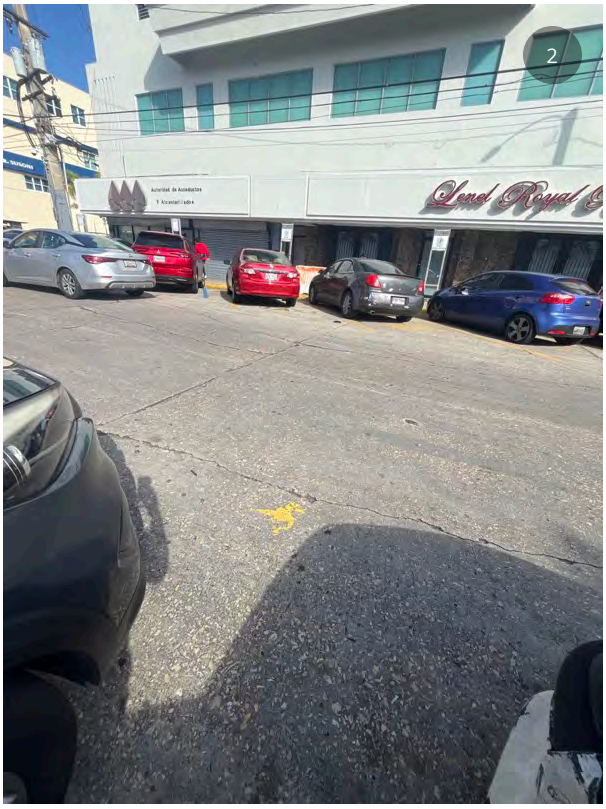
GENERAL VIEWS: ZONE C203

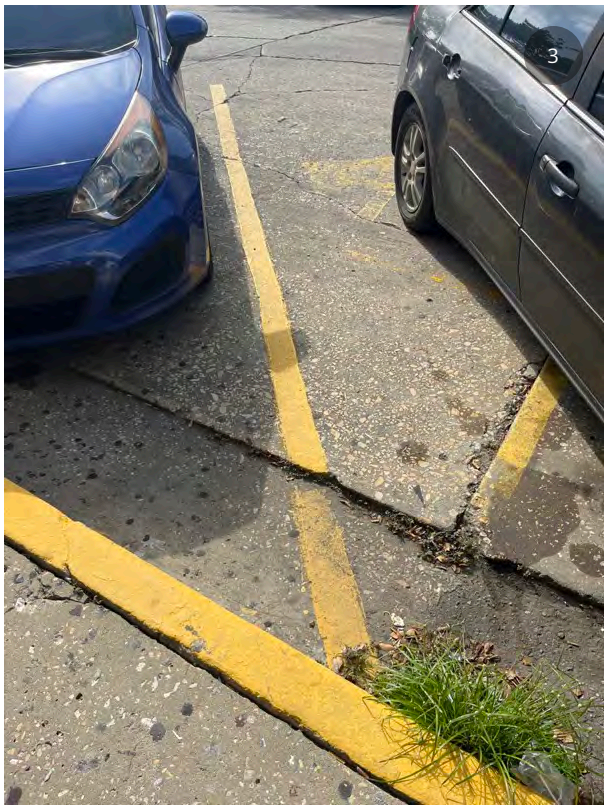


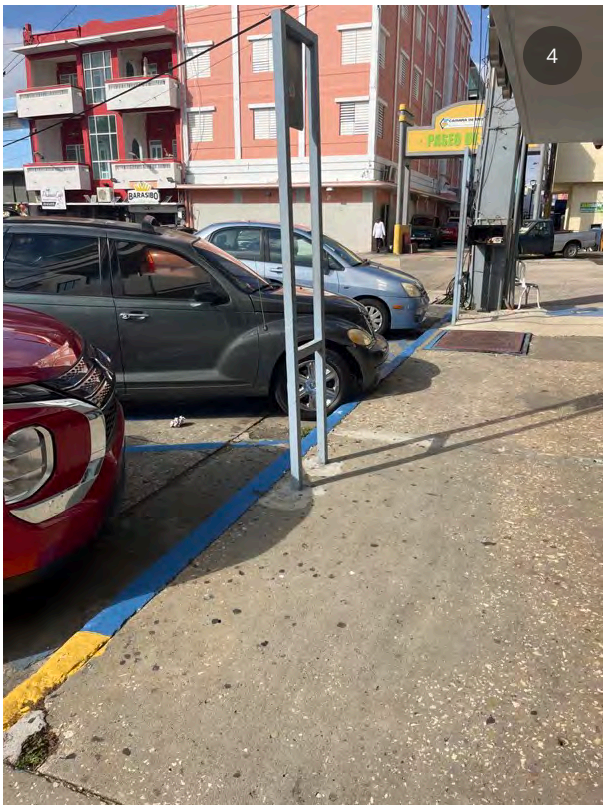


GENERAL VIEWS: ZONE C203









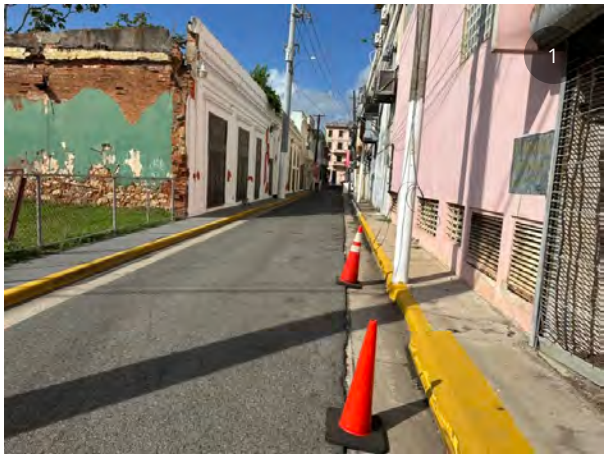
GENERAL VIEWS: ZONE C204

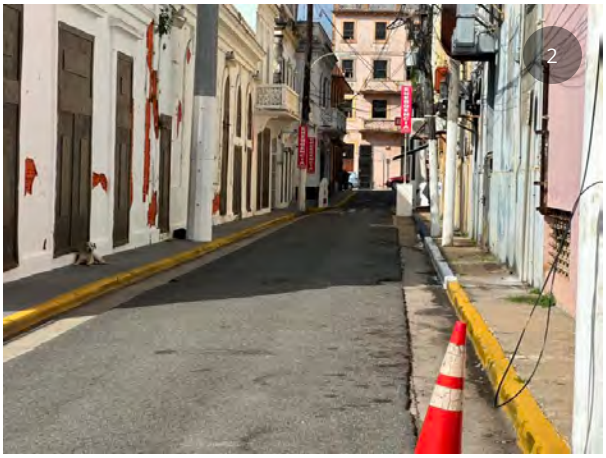
GENERAL VIEWS: ZONE C209

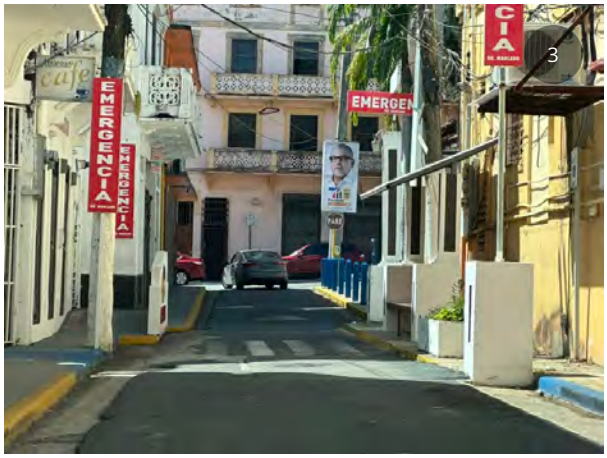
GENERAL VIEWS: ZONE C209

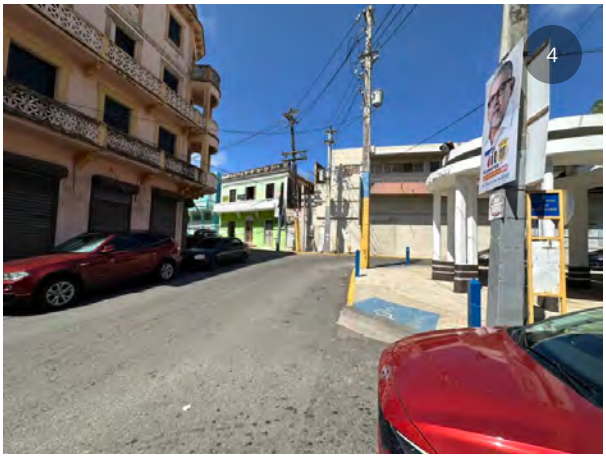
GENERAL VIEWS: ZONE C208

GENERAL VIEWS: ZONE C208









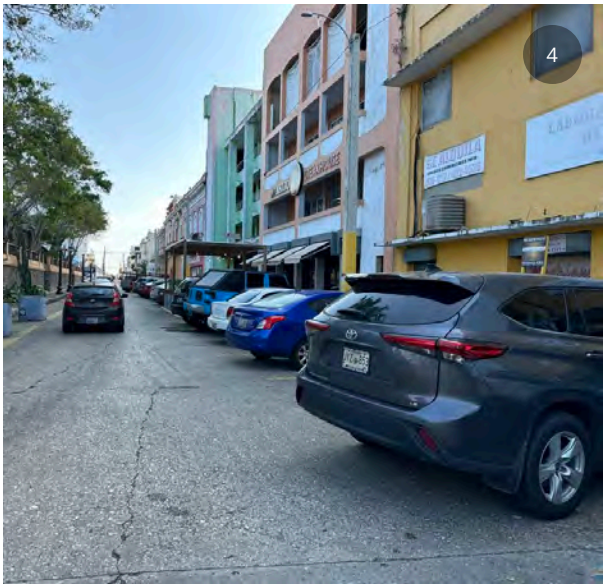
GENERAL VIEWS: ZONE C205

GENERAL VIEWS: ZONE C205

GENERAL VIEWS: ZONE C207

GENERAL VIEWS: ZONE C207

GENERAL VIEWS: ZONE C206



GENERAL VIEWS: ZONE C206

1

2

3

4

GENERAL VIEWS: ZONE C210

IS THERE ANY AREA WITHOUT ACCESS?

No, Everything was found in order at the moment of the inspection.

1

ARE ANY ADDITIONAL SITE HAZARDS OBSERVED?

No, Everything was found in order at the moment of the inspection.

1

IS THERE ANY VISIBLE INDICATION OF MOLD?

No, mold was not found visible at the moment of the.

1

ARE THERE SIGNS OF POOR HOUSEKEEPING ON SITE? (MOUNDS OF RUBBLE, GARBAGE, STORM DEBRIS, SOLID WASTE, PETROLEUM PRODUCTS, PAINT, PESTICIDES, CLEANING FLUIDS, VEHICLE BATTERIES, ABANDONED VEHICLES, PITS, POOLS, PONDS OF HAZARDOUS SUBSTANCES, ETC.)

No, Everything was found in order at the moment of the inspection.

LBP DETECTED? ZONE C204

Exterior, Reading #80, yellow metal hydrant, 6.1 mg/cm2. (Qty 1 unit)

Coordinates: (18.4728485, -66.7132474)

XRF: E. Colón

LBP DETECTED? ZONE C203

Exterior, Reading #98, yellow metal hydrant, 4.2 mg/cm2. (Qty 1 unit)

Coordinates: (18.4724659, -66.7147826)

XRF: E. Colón

LBP DETECTED? ZONE C209

Exterior, Readings from #13 to #19, yellow & white concrete curb, between 2.1 to 3.3 mg/cm2. (Qty 260 LF. Approx.)

From coordinates: (18.4725882, -66.7117927)

To coordinates: (18.4724519, -66.7122124)

XRF: E. Ortiz

LBP DETECTED? ZONE C209 & C208

Exterior, Readings from #36 to #38, #67 & #71, yellow concrete curb, between 1.4 to 2.4 mg/cm2. (Qty. 1,020 LF. Approx.)

From coordinates: (18.4722128, -66.7131063)

To coordinates: (18.4714830, -66.7159980)

XRF: E. Ortiz

LBP DETECTED? ZONE C208

Exterior, Readings #75, #85-#86 & #90, yellow concrete curb, between 1.0 to 2.1 mg/cm2. (Qty. 1,020 LF. Approx.)

From coordinates: (18.4716980, -66.7146039)

To coordinates: (18.4715078, -66.7157456)

XRF: E. Ortiz

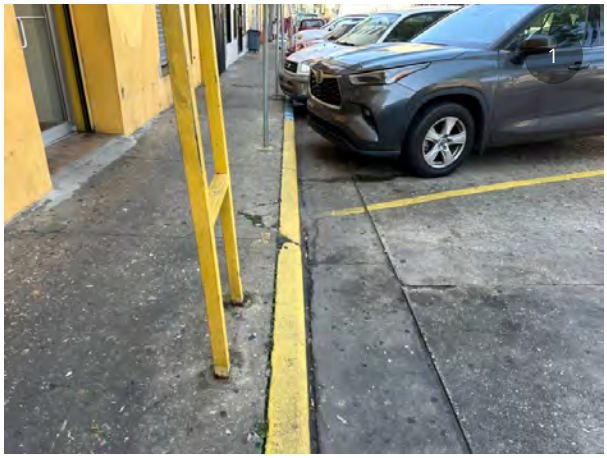
LBP DETECTED? ZONE C206

Exterior, Readings #176 & #177, blue & yellow concrete curb, 6.4 & 2.5 mg/cm2. (Qty. 40 LF. Approx.)

From coordinates: (18.4716226, -66.7162639)

To coordinates: (18.4716480, -66.7161650)

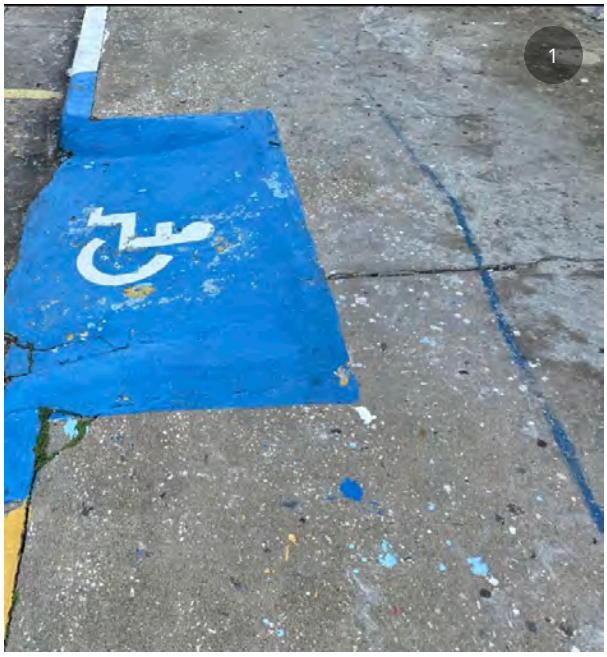
XRF: E. Ortiz



LBP DETECTED? ZONE C206 & C207

Exterior, Readings from #190 to #192, #213 to #215, #248 & #249, #307 & #308, #313, yellow & blue concrete curbs & ramps, between 1.1 to 5.9 (Qty. 980 LF. Approx.)

XRF: E. Ortiz



LBP DETECTED? ZONE C207

Exterior, Readings #254 & #255, yellow metal hydrant, 10.3 & 3.2 mg/cm2. (Qty 1 unit)

Coordinates: (18.4721909, -66.7140574)

XRF: E. Ortiz

LBP DETECTED? ZONE C207

Exterior, Readings from #257 to #260, #272 to #275, #321 to #326, yellow & white concrete pavement marks, between 1.1 to 7.5 mg/cm2. (Qty. multiple units)

XRF: E. Ortiz

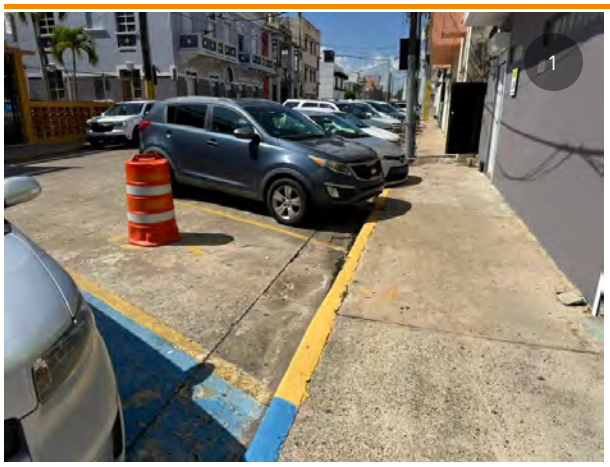
LBP DETECTED? ZONE C207

Exterior, Readings #265 & #266, yellow concrete curb, 2.4 & 1.9 mg/cm2. (Qty. 25 LF. Approx.)

From coordinates: (18.4722274, -66.7143149)

To coordinates: (18.4722532, -66.7142469)

XRF: E. Ortiz



LBP DETECTED? ZONE C207

Exterior, Readings from #267 & #270, blue & yellow concrete curb & ramp, between 2.2 & 3.1 mg/cm2. (Qty. 60 LF. Approx.)

From coordinates: (18.4723060, -66.7139103)

XRF: E. Ortiz

LBP DETECTED? ZONE C207

Exterior, Readings #288 & #289, white & yellow concrete curb, 1.7 & 1.3 mg/cm2. (Qty. 180 LF. Approx.)

From coordinates: (18.4724109, -66.7135924)

To coordinates: (18.4725276, -66.7130845)

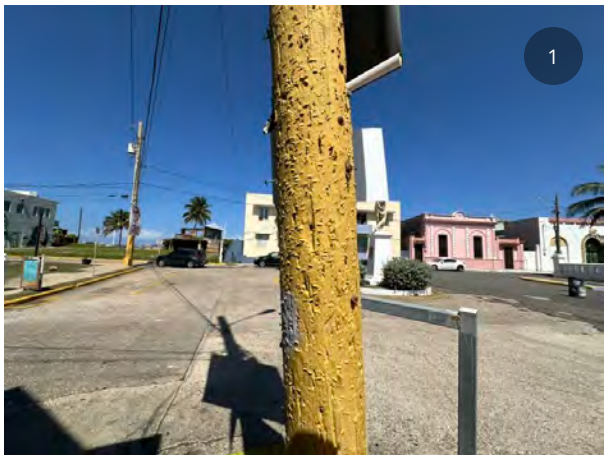
XRF: E. Ortiz

LBP DETECTED? ZONE C207

Exterior, Readings #332 & #333, yellow wood post, 1.3 & 1.4 mg/cm2. (Qty. 1 unit)

From coordinates: (18.4726621, -66.7123576)

XRF: E. Ortiz

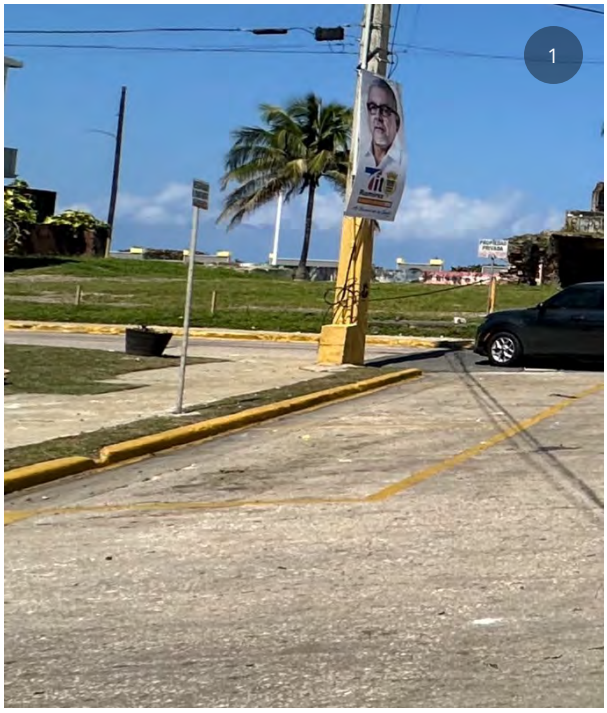


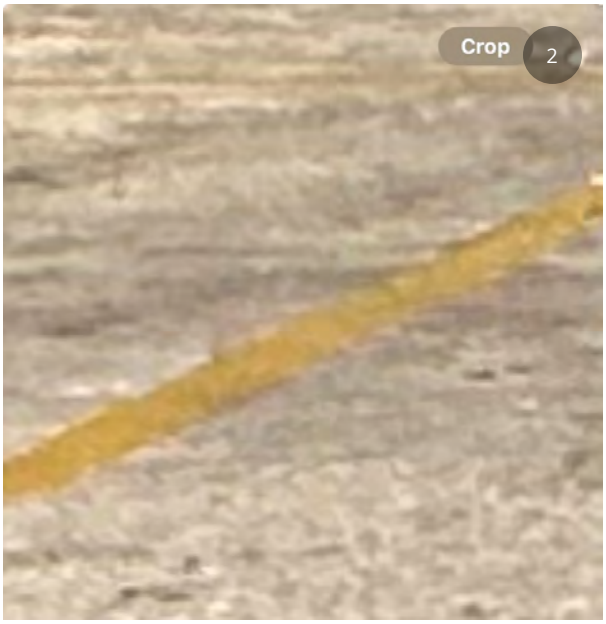
LBP DETECTED? ZONE C207

Exterior, Readings #334 & #335, yellow concrete pavement marks, 1.2 & 1.2 mg/cm2. (Qty. 130 LF. Approx.)

From coordinates: (18.4727824, -66.7124270)

XRF: E. Ortiz



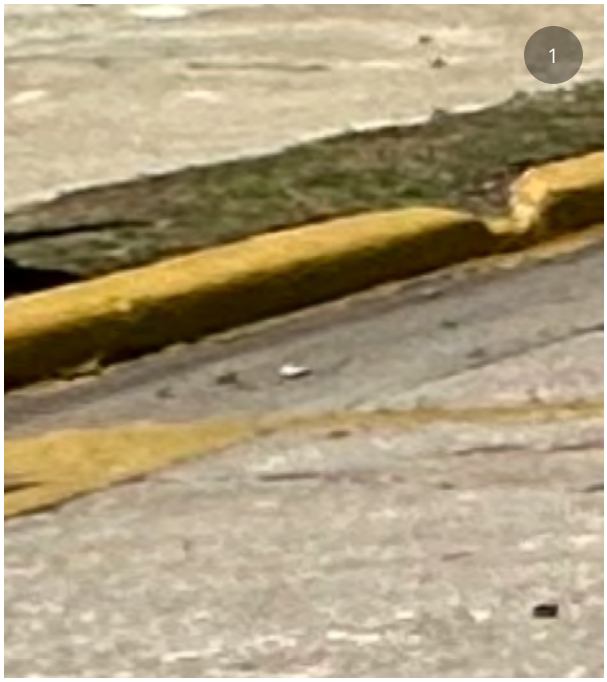


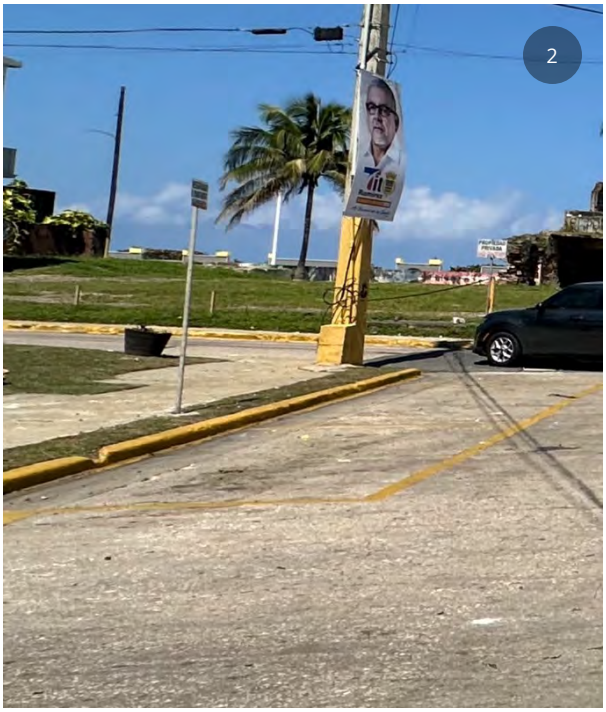
LBP DETECTED? ZONE C207

Exterior, Readings #336 & #337, yellow concrete curb, 1.7 & 1.4 mg/cm2. (Qty. 45 LF. Approx.)

From coordinates: (18.4727824, -66.7124270)

XRF: E. Ortiz





Attachment 7

XRF Performance Characteristic Sheet

Performance Characteristic Sheet

EFFECTIVE DATE: **September 1, 2022**

MANUFACTURER AND MODEL:

Make: ***Heuresis***
Models: ***Model Pb200i, Pb200e***
Source: ***^{57}Co, 5 mCi (nominal – new source)***

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level 1.0 mg/cm^2

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

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

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 using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

OPERATING PARAMETERS

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

XRF CALIBRATION CHECK:

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

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

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm^2 for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm^2 at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

> Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm^2. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.
>
> Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.
>
> <u>For each substrate type</u> (the 1.02 mg/cm^2 NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):
>
> Correction value = (1st + 2nd + 3rd + 4th + 5th + 6th *Reading*)/6 - 1.02 mg/cm^2
>
> Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

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

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

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

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

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

Square the average for each testing combination.

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

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

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

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

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

Compute the average of all ten original XRF readings.

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

Find the absolute difference of the two averages.

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

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

TESTING TIMES:

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm^2. The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level		
Reading (mg/cm^2)	**Mean Reading Time (seconds)**	**Standard Deviation (seconds)**
< 0.7	3.48	0.47
0.7	7.29	1.92
0.8	13.95	1.78
0.9 – 1.2	15.25	0.66
1.3 – 1.4	6.08	2.50
≥ 1.5	3.32	0.05

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm^2), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) 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. The report may be downloaded at http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.

www.nortolpr.com | info@nortolpr.com | 787.420.0220
PO Box 366457, San Juan, PR 00936-6457

Appendix I:
Field Inspection Report

Field Visit Checklist and Site Evaluation			
Project Name	PR-CRP-000768	Latitude	See coordinates below
Inspector Name	Mildred Guzman	Longitude	See coordinates below
Site Address	Antonio R. Barceló Street, José De Diego Ave., Gonzalo Marín Street, Betances Street and Ariosto Cruz Street, Arecibo	City	Arecibo
State	Puerto Rico	ZIP	00612
Date of Visit	9/29/2025		
Existing Environmental Conditions on and Around Site			
	Site Specific	**Surrounding Area**	
General observations:	Urban area developed with impervious surfaces. Normal urban streetscape, some non-hazardous domestic/commercial garbage on the curb, asphalt stains and stormwater basins.	Urban area developed with impervious surfaces. Normal urban streetscape, some non-hazardous domestic/commercial garbage on the curb, asphalt stains and stormwater basins.	
Evidence of wetlands?	No	No	
Evidence of Threatened or Endangered species?	No	No	
Toxic Chemicals and Radioactive Materials			
	Site Specific	**Surrounding Area**	
Evidence of USTs?	No	No	
If yes, are they in use?	N/A	N/A	
Any out of service underground fuel tanks?	No	No	
Evidence of above ground storage tanks (including 55-gallon drums)?	Yes, standard 55-gallon drums used for trash observed along streets.	Yes, standard 55-gallon drums used for trash observed along streets.	
Evidence of leaking ASTs?	No	No	
Evidence of leaking electrical equipment?	No	No	
Hazardous Operations			
	Site Specific	**Surrounding Area**	
Evidence of manufacturing operations utilizing or producing hazardous substances?	No	No	

Evidence of past operations that may have used hazardous substances or radiological materials that may have been released?	No	No
General Notes/Observations		
Project area is a typical urban streetscape developed with impervious surfaces. Typical non-hazardous garbage and asphalt stains observed.		

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254

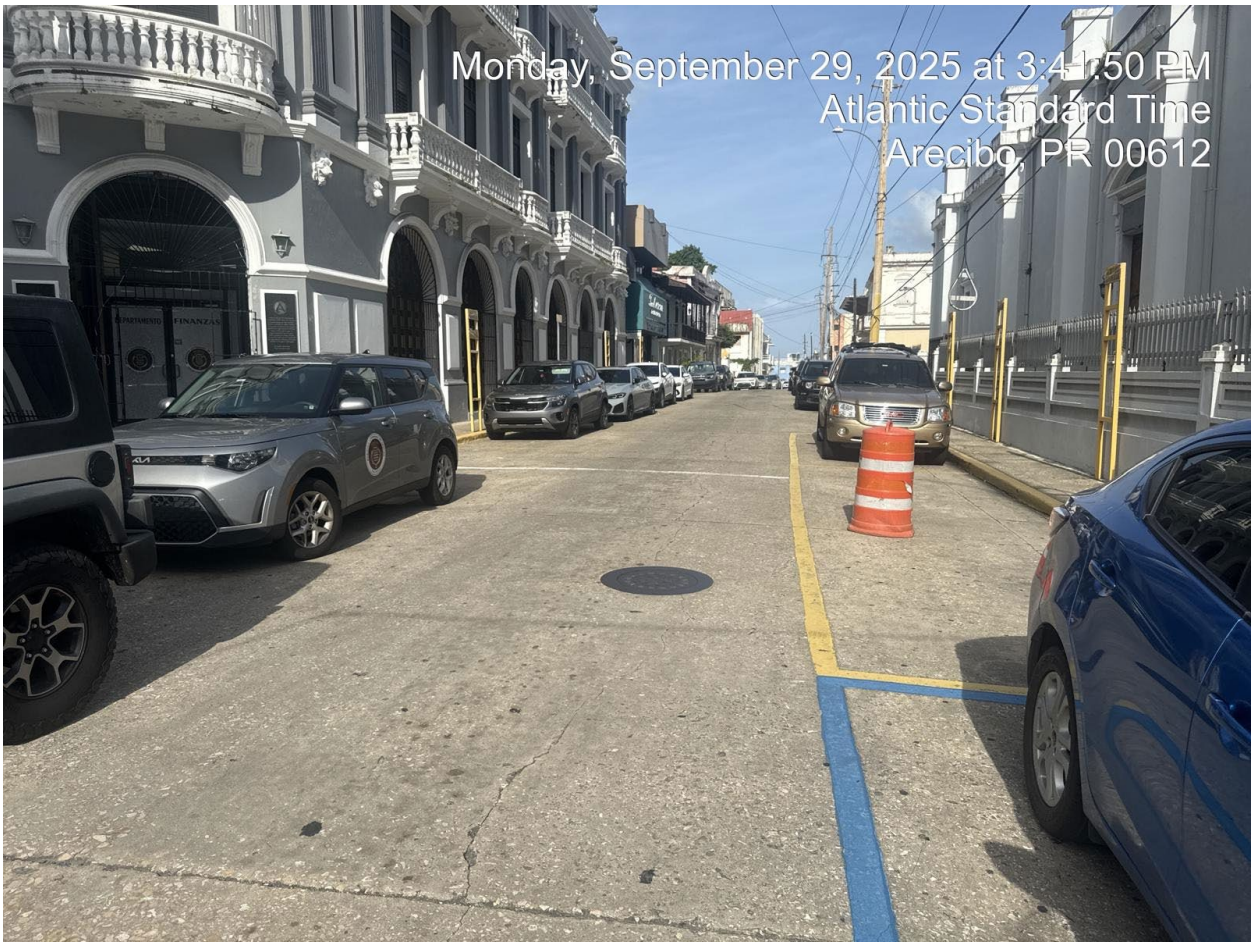
Site Photo 1:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612

Description:	Ave Jose de Diego

Site Photo 2:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612



Description:	Ave Jose de Diego

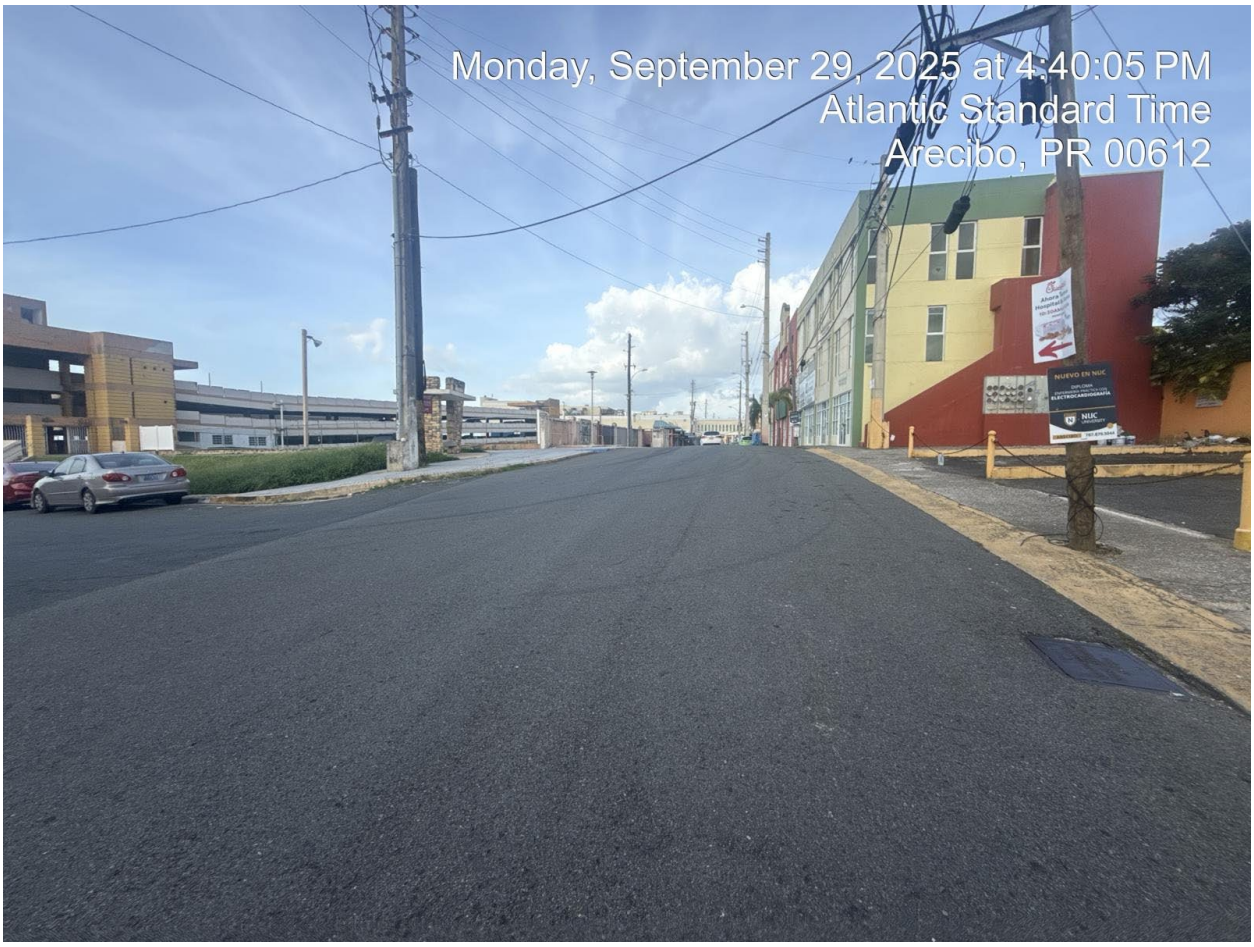
Site Photo 3:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612

Description:	Ave Jose de Diego

Site Photo 4:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612



Description:	Calle Antonio Barcelo

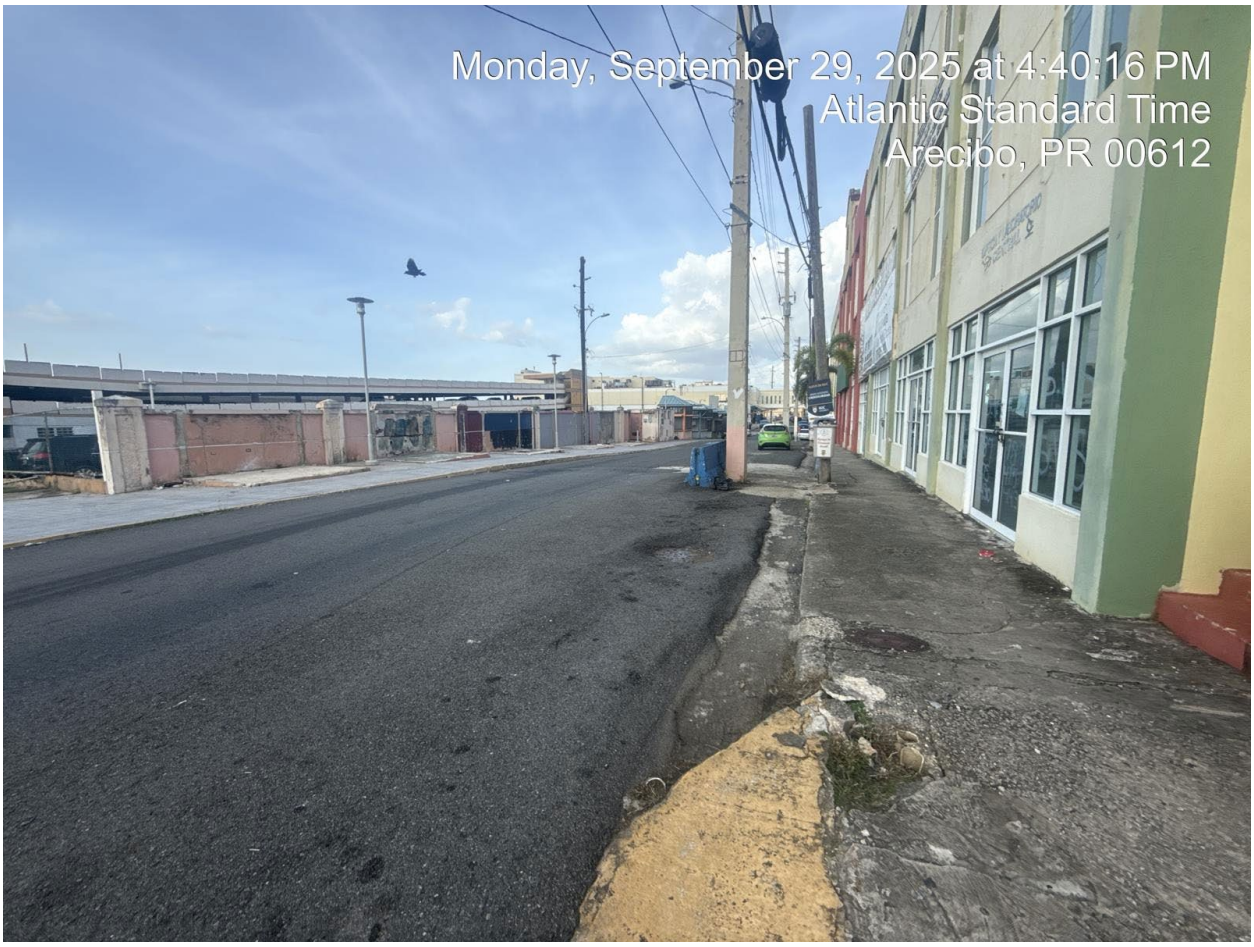
Site Photo 5:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612

Description:	Calle Antonio Barcelo

Site Photo 6:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612



Description:	Calle Antonio Barcelo

Site Photo 7:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612

Description:	Calle Ariosto Cruz

Site Photo 8:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612

Description:	Calle Ariosto Cruz

Site Photo 9:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612

Description:	Calle Ariosto Cruz

Site Photo 10:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612

Description:	Calle Betances

Site Photo 11:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612

Description:	Calle Betances

Site Photo 12:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612

Description:	Calle Betances

Site Photo 13:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612

Description:	Calle Gonzalo Marin

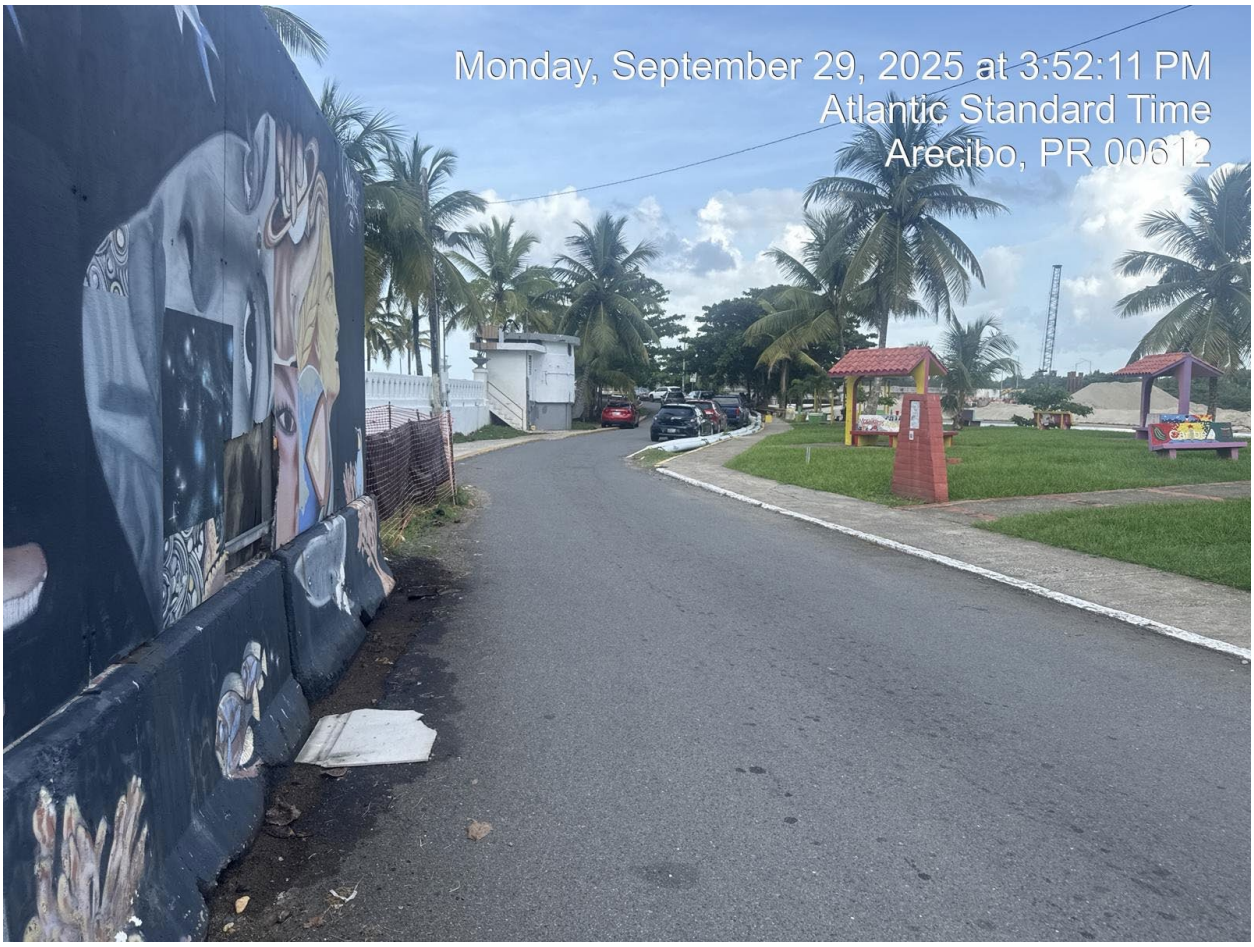
Site Photo 14:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612

Description:	Calle Gonzalo Marin

Site Photo 15:

Applicant ID #	PR-CRP-000768
Property Address:	Urban Center, Arecibo, PR 00612



Description:	Calle Gonzalo Marin

Appendix J:
Endangered Species

Transmittal Letter

June 7, 2024

Based on the information provided, we determined the project proposed qualifies for the blanket clearance letter. Nevertheless, if the project is modified this office should be contacted concerning the need for the initiation of consultation under section 7 of Endangered Species Act of 1973.

Reviewer DAMARIS ROMAN RUIZ Digitally signed by DAMARIS ROMAN RUIZ Date: 2024.06.10 13:32:49 -04'00'

SILMARIE PADRON Digitally signed by SILMARIE PADRON Date: 2024.06.10 19:49:13 -04'00'

Acting Caribbean ES Field Supervisor

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

RE: USFWS Endangered Species Act Certifications
CRP Program – May 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-000369	Plaza de Armas, Old San Juan
PR-CRP-000388	Centro Urbano Tradicional
PR-CRP-000443	Rehabilitación Plaza de Hostos
PR-CRP-000497	Rotonda Miguel Meléndez Muñoz / CDT – Mejoras al Acceso Vial
PR-CRP-000506	Ramón E. Betances Main Square
PR-CRP-000700	Parque Urbano "Canobanax"
PR-CRP-000768	Urban Center Street and Sidewalk Restoration
PR-CRP-000803	Nuevo Teatro Comunitario
PR-CRP-000855	Mejoras a la infraestructura de la Urbanización Mayagüez Terrace
PR-CRP-000924	Improvements to Plaza Convalecencia & Plaza del Pilar
PR-CRP-000943	Renovation of Public Plaza at Florida Urban Center
PR-CRP-000957	Gándara Avenue Rehabilitation

For more information, please contact the Permits and Environmental Compliance Division at environmentcdbg@vivienda.pr.gov or at (787)274.2527 ext. 4320.

Sincerely,

Permits and Environmental Compliance Division
Disaster Recovery Office

Self-Certification

http://www.fws.gov/caribbean/ES/Index.html

Endangered Species Act Certification

The U.S. Fish and Wildlife Service, Caribbean Ecological Services Field Office developed a Blanket Clearance Letter in compliance with Endangered Species Act of 1973, as amended, and the Fish and Wildlife Coordination Act for federally funded projects.

The Service determined that projects in compliance with the following criteria are not likely to adversely affect federally-listed species.

The Puerto Rico Department of Housing (PRDOH) certifies that the following project **Urban Center Street and Sidewalk Restoration (PR-CRP-000768)** consisting of restoration of streets, sidewalks and curbs within the Historic Center of Arecibo (refer to attached scope), located at R. Barceló Street, José de Diego Avenue, Gonzalo Marín Street, Betances Street and Ariosto Cruz Street, Arecibo, PR 00612, 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.

June 6, 2024

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

Project Description

Subrecipient Name:	Municipality of Arecibo
Project Name:	Urban Center Street and Sidewalk Restoration
Project ID Number:	PR-CRP-000768
Location Lat/Long:	Multiple Streets (*See Table below)*
Estimated Funding Amount:	$6,500,000.00

The Municipality of Arecibo proposes the restoration of streets, sidewalks, and curbs within the Historic Center of Arecibo. The following streets will be impacted as part of the project:

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254

The scope of work includes:

- Demolition of existing sidewalks, curbs and gutters, and handicap ramps
- Cold milling of bituminous asphalt pavement and pavement demolition
- Demolition of one (1) Gazebo in the Romero Barcelo St.
- Removal of concrete barriers in the Romero Barcelo St.
- Reconstruction of sidewalks, curbs and gutters
- Reconstruction of entrances

- Construction of new handicapped ramps to comply with ADA and PRHTA standards.
- Construction of a new sidewalk extension in a segment of the Romero Barcelo St. Addition of parallel parking (5 total) between those extensions.
- Installation of solar powered lighting poles, trash bins, benches, bicycle racks, bicycle repair stations, QR Code Poles with historical and educational information, a security camera system, and signage and pavement markings for pedestrian crossings.
- Construction of pergolas for shading in designated locations.
- The project will also make improvements to the existing storm water sewer system (adjustment of inlet location to conform to the new sidewalk and street geometry and cleaning) and landscape on Site.

The maximum depth for the excavations for the sidewalks and streets works will be 18"; for the storm water management system improvements, 5 ft; and for the new pole bases installation, 6 ft. The project area will be approximately 24,300 square meters (6 acres) and the staging area has an area of approximately 462.75 (0.1 acre). The project area will be limited to the existing right of way for the streets but will extend the sidewalk approximately 16.9% into the street's right of way.

A Maintenance of Traffic Plan (MOT) will be implemented, and temporary control devices will be used to control vehicular traffic and provide a safe route to pedestrians during the construction phase of the project. The MOT will be prepared in compliance with the PRHTA and FHWA standards and regulations.

During the demolition and construction process, erosion and sedimentation control measures will be implemented to avoid sediment discharges into the storm sewer system. Controls to be installed include hay bales (or silt socks) on drainage structures, silt fence around the project limit, and implementation of a stabilized entrance, with truck washout station to avoid sediments track out into the streets. Staging and storage areas for construction materials will be protected with silt fence, or any other measure as needed. Staging area for the project will be located in an empty lot on the corner of Santiago Iglesias Pantin Ave. and Julian Sanchez St.. (cadaster number 012-096-185-01)

Part of the Site is located in a 100-year floodplain in the ABFEs maps. According to FEMA FIRMette Panel ID 72000C0230J, effective date November 18, 2009, the parcel where the project will be located stands within two zones, namely, Zone X (areas determined to be outside the 500-year flood by FEMA) and Zone X (shaded) (areas of 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mil, usually depicted on FIRMs as above the 500-year flood level). According to the Puerto Rico Advisory Board Flood Elevations effective date April 18, 2018, the parcel stands within two zones, namely, Zone X (areas determined to be outside the 500-year flood by FEMA), and Zone A (area of with a 1% annual chance of flooding, no depths or base flood elevations are shown. The staging area stands in Zone AE in the FIRMette and Zone A in the ABFE. An 8-Step Analysis will be needed to comply with the Regulation. The eastern limit of the project site is located within 100 feet of an estuarine and marine deepwater wetland (E1UBL). No work will be performed in the wetland, and the project will not have direct impacts on the wetland.

The Level of Environmental Review for this project has been identified as a Conditionally Exempt Subject to Part 58, as it complies with section *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), and 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 (This conclusion assumes that the sidewalks are part of the streets right of way).

Urban Center Street and Sidewalk Restoration
PR-CRP-000768
Municipality of Arecibo
Antonio R. Barceló Street, José De Diego Ave., Gonzalo Marín Street, Betances Street and Ariosto Cruz Street
18.471847, -66.716342

AEREAL PHOTOGRAPH

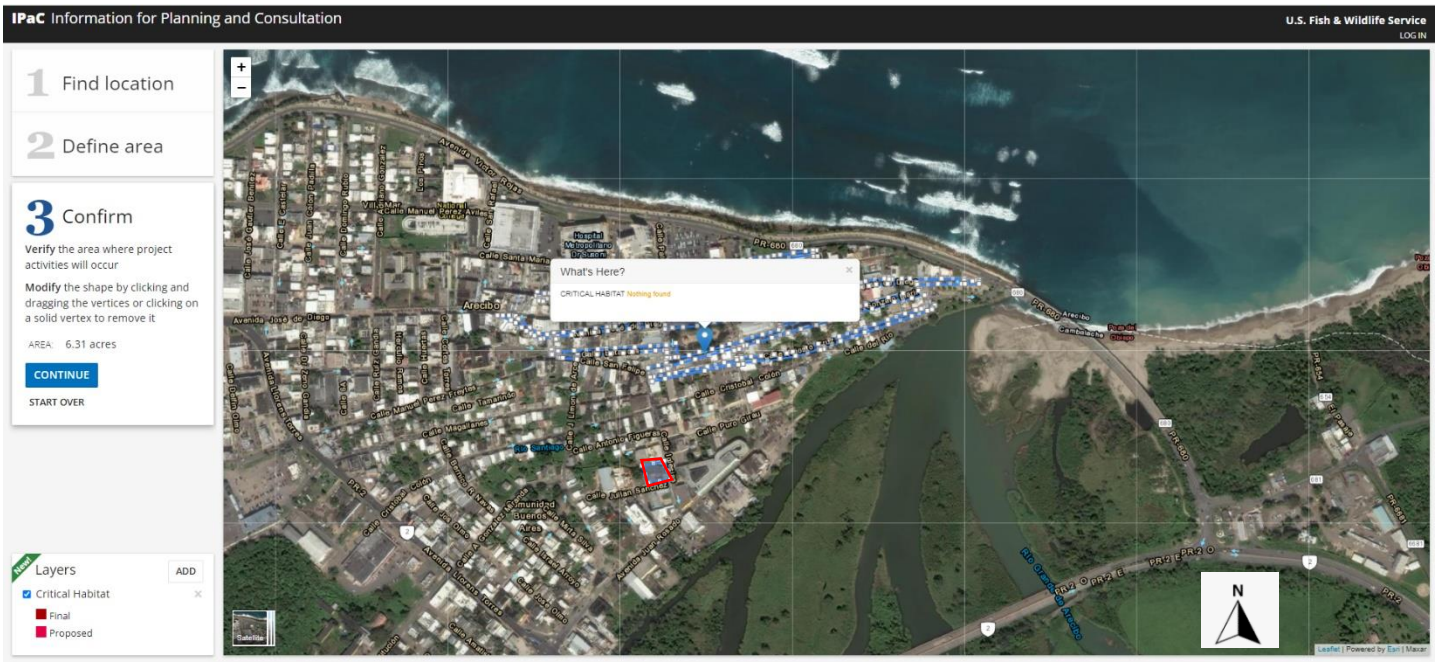
Legend:

- Calle Ariosto Cruz
- Calle Betances
- Calle Gonzalo Marin
- Ave. Jose de Diego
- Calle Antonio R. Barcelo

Staging area

Source: Google Earth
Company - AVA Environmental Consultants, Inc.

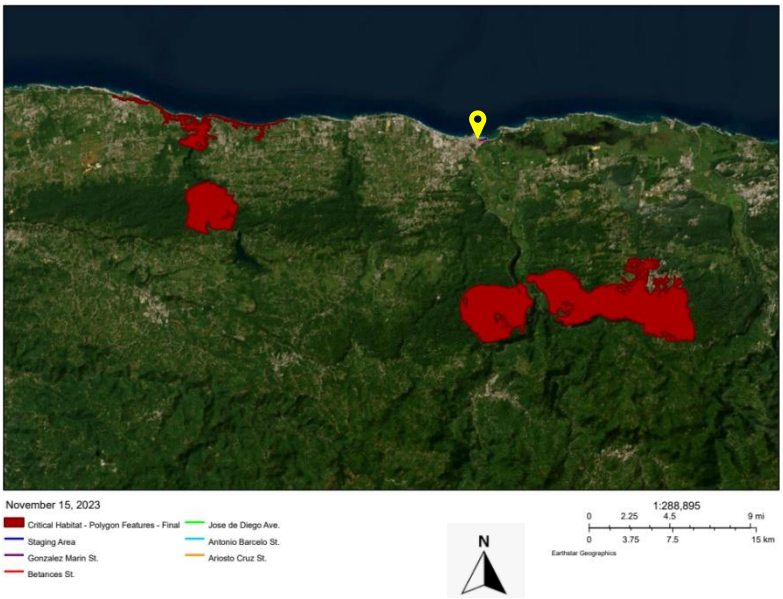
Exhibit 7: Endangered Species



Staging Area

Site

Critical Habitat Mapper



SITE

Source: https://ipac.ecosphere.fws.gov/location/index and https://nepassisttool.epa.gov/nepassist/nepamap.aspx
Company: Benítez Ramos & Associates, PSC
Date: 11/15/2023

Urban Center Street and Sidewalk Restoration
PR-CRP-000768
Municipality of Arecibo
Antonio R. Barceló Street, José De Diego Ave., Gonzalo Marín Street, Betances Street and Ariosto Cruz Street
18.471847, -66.716342

Site Pictures

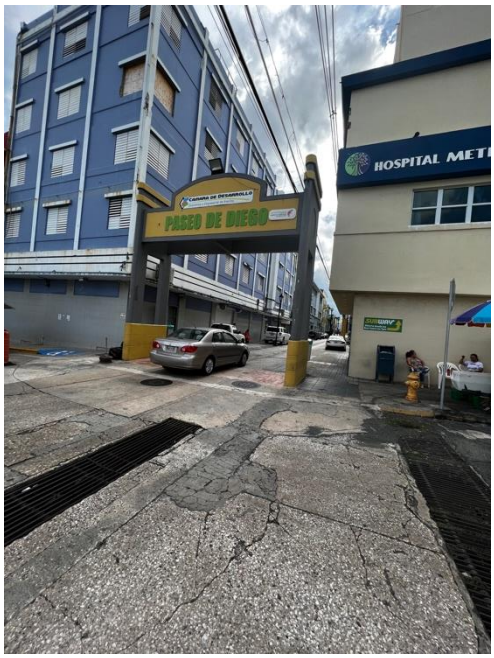
Ariosto Cruz Street

Urban Center Street and Sidewalk Restoration
PR-CRP-000768
Municipality of Arecibo
Antonio R. Barceló Street, José De Diego Ave., Gonzalo Marín Street, Betances Street and Ariosto Cruz Street
18.471847, -66.716342

Gonzalo Marin Street

Urban Center Street and Sidewalk Restoration
PR-CRP-000768
Municipality of Arecibo
Antonio R. Barceló Street, José De Diego Ave., Gonzalo Marín Street, Betances Street and Ariosto Cruz Street
18.471847, -66.716342

Jose de Diego Avenue

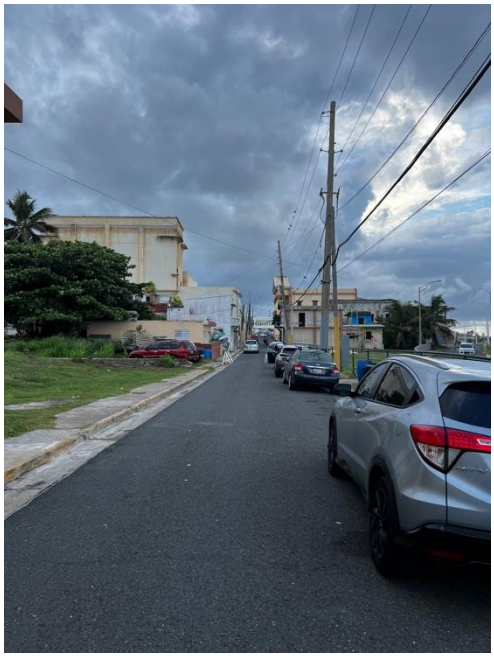


Urban Center Street and Sidewalk Restoration
PR-CRP-000768
Municipality of Arecibo
Antonio R. Barceló Street, José De Diego Ave., Gonzalo Marín Street, Betances Street and Ariosto Cruz Street
18.471847, -66.716342

Betances Street

Urban Center Street and Sidewalk Restoration
PR-CRP-000768
Municipality of Arecibo
Antonio R. Barceló Street, José De Diego Ave., Gonzalo Marín Street, Betances Street and Ariosto Cruz Street
18.471847, -66.716342

Antonio R. Barcelo Street



IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

NOT FOR CONSULTATION

Location

Arecibo County, Puerto Rico

Local office

Caribbean Ecological Services Field Office

(787) 834-1600
(787) 851-7440
CARIBBEAN_ES@FWS.GOV

MAILING ADDRESS

Post Office Box 491
Boqueron, PR 00622-0491

PHYSICAL ADDRESS

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

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

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

---

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

NOT FOR CONSULTATION

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

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

Mammals

NAME	STATUS
West Indian Manatee Trichechus manatus Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/4469	Threatened Marine mammal

Reptiles

NAME	STATUS
Puerto Rican Boa Chilabothrus inornatus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6628	Endangered

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

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

Additional information can be found using the following links:

NOT FOR CONSULTATION

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

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

The potential for eagle presence is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply). To see a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

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

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

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What if I have eagles on my list?

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

Migratory birds

NOT FOR CONSULTATION

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

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

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

NOT FOR CONSULTATION

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

There may be migratory birds in your project area, but we don���t have any survey data available to provide further direction. For additional information, please refer to the links above for recommendations to minimize impacts to migratory birds or contact your local FWS office.

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

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

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

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

NOT FOR CONSULTATION

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

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

What if I have eagles on my list?

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

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

NOT FOR CONSULTATION

Marine mammals

Marine mammals are protected under the Marine Mammal Protection Act. Some are also protected under the Endangered Species Act[1] and the Convention on International Trade in Endangered Species of Wild Fauna and Flora[2].

The responsibilities for the protection, conservation, and management of marine mammals are shared by the U.S. Fish and Wildlife Service [responsible for otters, walruses, polar bears, manatees, and dugongs] and NOAA Fisheries[3] [responsible for seals, sea lions, whales, dolphins, and porpoises]. Marine mammals under the responsibility of NOAA Fisheries are **not** shown on this list; for additional information on those species please visit the Marine Mammals page of the NOAA Fisheries website.

The Marine Mammal Protection Act prohibits the take (to harass, hunt, capture, kill, or attempt to harass, hunt, capture or kill) of marine mammals and further coordination may be necessary for project evaluation. Please contact the U.S. Fish and Wildlife Service Field Office shown.

1. The Endangered Species Act (ESA) of 1973.
2. The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is a treaty to ensure that international trade in plants and animals does not threaten their survival in the wild.
3. 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.

The following marine mammals under the responsibility of the U.S. Fish and Wildlife Service are potentially affected by activities in this location:

NAME

West Indian Manatee *Trichechus manatus*
https://ecos.fws.gov/ecp/species/4469

NOT FOR CONSULTATION

Facilities

National Wildlife Refuge lands

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 at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

NOT FOR CONSULTATION

This location did not intersect any wetlands mapped by NWI.

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

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

Wetlands Map - PR-CRP-000768

Address: Calle Arioso Cruz, Arecibo PR
Coordinates: 18.471728, -66.717921

U.S. Fish and Wildlife Service
National Wetlands Inventory

May 14, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

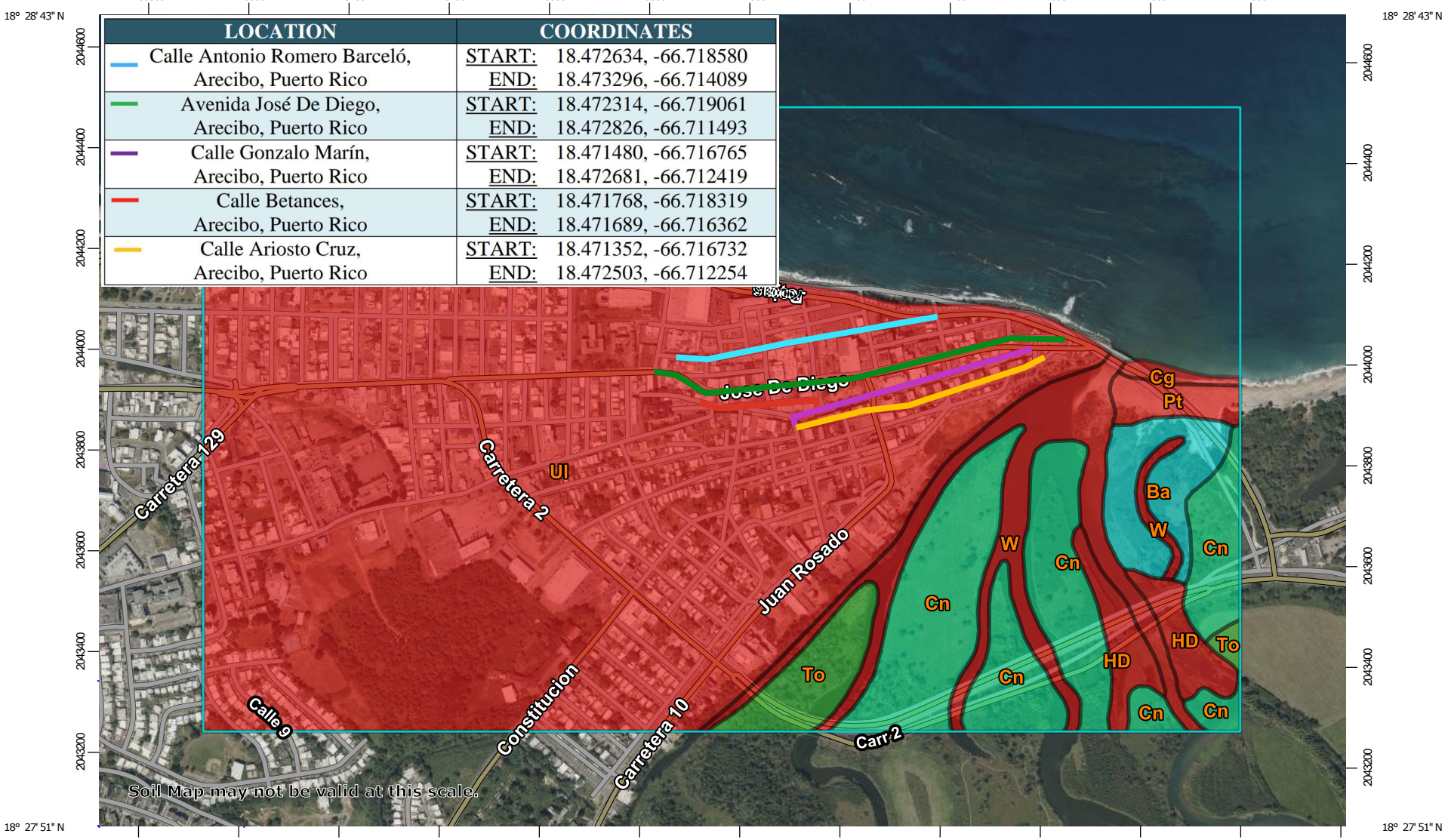
N

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Appendix K:
Farmland Protection

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254



Map Scale: 1:11,400 if printed on A landscape (11" x 8.5") sheet.

N

0 150 300 600 900 Meters

0 500 1000 2000 3000 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil 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

- 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 Points

- 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

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Arecibo Area, Puerto Rico Northern Part
Survey Area Data: Version 20, Sep 10, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 23, 2022—Mar 1, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ba	Bajura clay, 0 to 2 percent slopes, frequently flooded	Farmland of statewide importance	12.9	2.0%
Cg	Coastal beaches	Not prime farmland	1.6	0.2%
Cn	Coloso silty clay, 0 to 2 percent slopes, occasionally flooded	Prime farmland if drained	58.6	9.2%
HD	Hydraquents, frequently flooded	Not prime farmland	11.1	1.7%
Pt	Pits, sand	Not prime farmland	4.8	0.8%
To	Toa silty clay loam, 0 to 2 percent slopes, occasionally flooded	All areas are prime farmland	10.7	1.7%
Ul	Urban land	Not prime farmland	334.4	52.6%
W	Water	Not prime farmland	29.2	4.6%
Totals for Area of Interest			**635.6**	**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

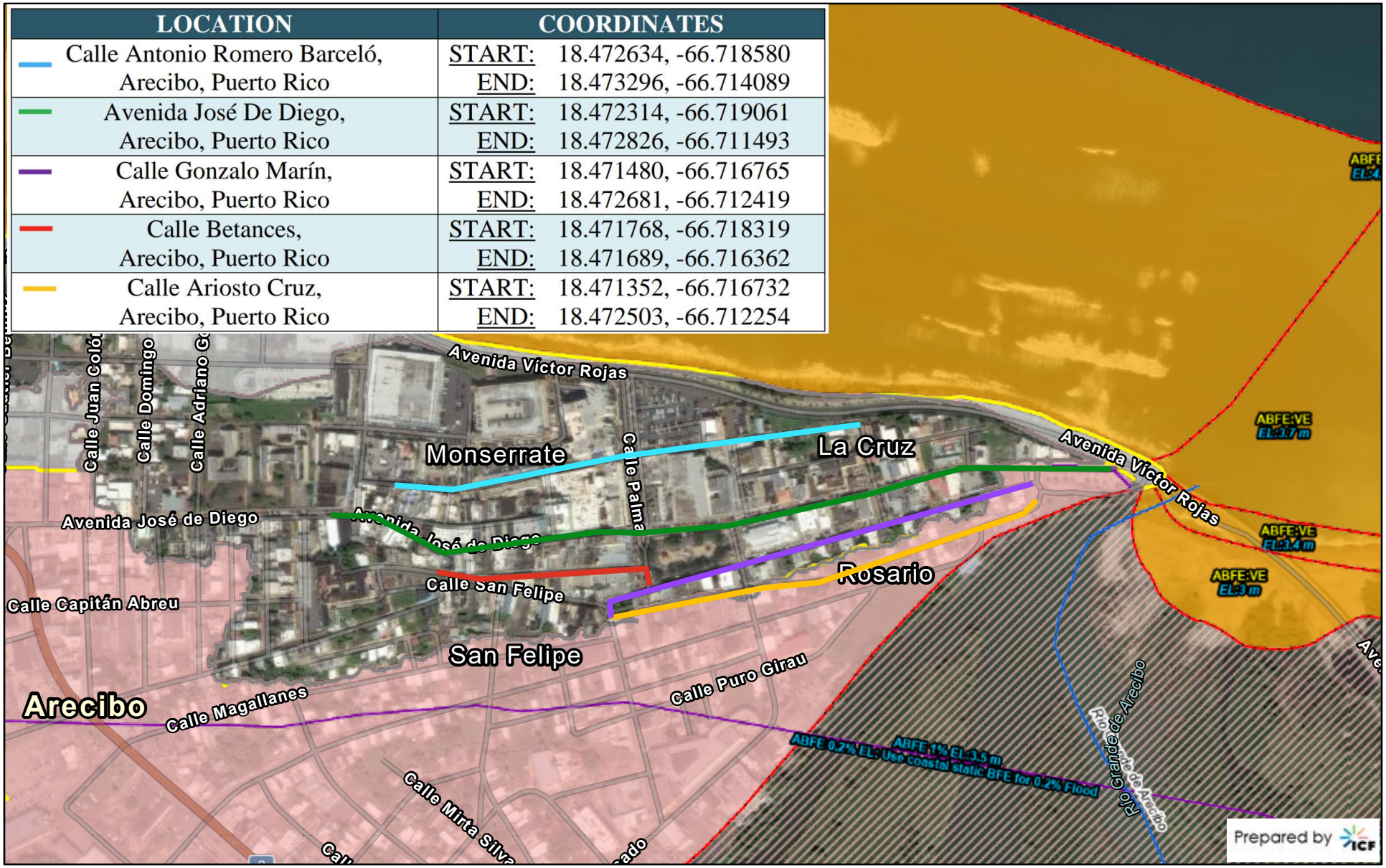
Tie-break Rule: Lower

Appendix L:
Floodplain Management

PR-CRP-000768 Advisory Base Flood Elevation (ABFE) Map

Address: Arecibo, PR 00612

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254



8/26/2025, 9:18:42 AM

- Streamline (zoom in to make visible)
- Advisory Base Flood Elevation (zoom in to make visible)
- Limit of Moderate Wave Action (LiMWA)

Flood Hazard Extent

- 1% Annual Chance Flood
- 0.2% Annual Chance Flood
- Zone/BFE Boundary

Flood Hazard Area (zoom in to make visible)

- A
- AO
- AE
- Coastal A Zone
- VE
- 0.2% Annual Chance Flood Zone
- A-Floodway
- AE-Floodway
- Coastal A Zone and Floodway

World Imagery

- Low Resolution 15m Imagery
- High Resolution 60cm Imagery
- High Resolution 30cm Imagery
- Citations
- 1.2m Resolution Metadata

1:6,347

0 0.05 0.1 0.2 mi

0 0.07 0.15 0.3 km

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

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

5-STEP DECISION-MAKING PROCESS

Project number:	PR-CRP-000768
Project name:	Improvements and Revitalization of Betances and Gonzalo Marin Streets, Jose De Diego, Antonio R. Barcelo and Ariosto Streets in the Urban Center
Subrecipient:	Municipality of Arecibo
Date:	May 16, 2025
Decision-Making Process for E.O. 11988 as Provided by 24 CFR §55.20	

Project Description:

The project aims to improve and revitalize the streets on the east side of the Arecibo Traditional Urban Center (TUC). From north to south, the streets to be restored are Antonio R. Barceló Street, José de Diego Avenue, Betances Street, Gonzalo Marín Street, and Ariosto Cruz Street (**Table 1**). The proposed rehabilitation project has three principal goals: strategic geometry changes of the streets and sidewalks that will result in wider sidewalks, additional parallel roadside parking, and ramps compliant with the American with Disabilities Act (ADA), repaving of the urban streets and sidewalks, improved lighting of the sidewalks, and replacement and cleaning of the underlying storm sewer system to facilitate improved water drainage of the Arecibo TUC. The location of the proposed project is included in the map found in **Attachment 1** and site photos can be found in **Attachment 2**.

As a result of Hurricanes Irma and María, the Arecibo TUC streets and sidewalks were flooded with water and debris and remained flooded for multiple consecutive days resulting in serious infrastructure damage to nearby stores, offices, and restaurants. The storm sewer system was overloaded and subsequently clogged with debris due to the immense movement of sediment related to this flood event. The proposed project intends to repair and improve the Arecibo TUC streets, sidewalks and drainage to conform to modern access standards, and to clear and clean the existing storm sewer inlets to avoid future flooding events. Additionally, the rehabilitation of Arecibo TUC streets and sidewalks will create a more aesthetically pleasing and accessible downtown environment that will enhance the quality of life of the Arecibo Municipality residents and visitors. By incorporating recreational, cultural, and social areas, the site will serve as a multifunctional urban hub, fostering community engagement and well-being.

Table 1. Proposed Street and Sidewalk Rehabilitation Materials and Lengths

Street	Material	Approximate Street Length	Approximate Sidewalk Length
Antonio R. Barceló Street	Asphalt	465m	-
	Concrete Slab	-	465 m
José de Diego Avenue	Asphalt	93 m	-
	Concrete Slab	726 m	819 m
Betances Street	Asphalt	185 m	-
	Concrete Slab	-	185 m
Gonzalo Marín Street	Concrete Slab	455 m	495 m
	Asphalt	40	-
Ariosto Cruz Street	Asphalt	500 m	-
	Concrete Slab	-	500 m

Given that Arecibo urban center is in a flood-prone area next to the Arecibo River system that exists to the east, the storm sewer inlets have several proposed improvements made to alleviate future flood risks. There are seven (7) different improvement activities across a total of fifty-one (51) storm sewer inlets that are outlined below by street (**Table 2**). Details for the inlets can be found on Drawing C700 of the design plans (**Attachment 3)**.

Table 2. Proposed Storm Sewer Inlet Rehabilitation Activities by Street

Street	Plan Number	Inlet Frame and Grate to be Replaced	Inlet to be Cleaned and Repaired	Inlet to be Removed and Replaced	Inlet to be Removed	Inlet Frame and Grate to be Replaced[2]	Cross Grate Frame and Grate to be Replaced	CB Clogged with Dirt
Antonio R. Barceló Street	C200 – C201	3	-	-	-	1	-	-
José de Diego Avenue	C202 – C204	1	4	19	3	-	3	-
Betances Street	C205	2	-	-	-	-	-	-
Gonzalo Marín Street	C206 – C207	2	-	-	-	-	-	1
Ariosto Cruz Street	C208 – C209	10	-	-	-	-	-	2
Total		18	4	19	3	1	3	3

The project proposes the replacement of numerous light poles along Ave. José De Diego (**Table 3**). The existing light poles are to be replaced in the same location with new solar light poles with the concrete base being reused. Since the new lights are solar powered, the existing electrical conduits powering the current light poles will be abandoned. Details for the new light poles can be found on Drawing C703 of the design plans (**Attachment 3**).

Table 3. Existing and Proposed Light Poles on José De Diego Avenue

Quantity to be Replaced	Pole Type	Pole Height	Concrete Base Depth	Concrete Base Dimensions	Conduit Trench Depth
23	Pole Cantilever Mounted LED	12 ft 4-5/8 in (3.8 m)	2 ft (0.61 m)	2 ft 6 in (0.76 m)	3 ft (0.91 m)

The proposed project consists of demolition activities, repair/rehabilitation activities, and new construction activities. The only activities that will have ground-disturbance are demolition and new construction activities. The extent of ground-disturbance for all activities are outlined below (**Table 4**). The extent of ground disturbance is outlined in both feet (ft) and inches (in) and in meters (m). The largest volume of demolition for this project is approximately 267,894 ft^3 (7,586 m^3) of asphalt and concrete from existing roads, sidewalks, curbs, and gutters.

Table 4. Proposed Project Activities and Estimated Ground Disturbance

Activity	Description	Estimated Depth of Ground Disturbance
Demolition[3]	Demolition of existing sidewalks and handicap ramps	4 to 6 in (0.10 to 0.15 m)
	Demolition of existing curbs	1 ft 2 in (0.35 m)
	Demolition of existing gutters	1 ft 8 in (0.50 m)
	Demolition of concrete pavement: Case 1 Detail	1 ft to1 ft 4 in (0.30 to 0.40 m)
	Demolition of concrete pavement: Case 2 Detail	1 ft 2 in to1 ft 4 in (0.35 to 0.40 m)
	Demolition of concrete pavement: Case 3 Detail	1 ft 4 in to 1 ft 6 in (0.40 to 0.45 m)
	Cold milling of bituminous asphalt pavement	2 in (0.05 m)
	Demolition of two gazebos on José de Diego Avenue	12 in (0.30 meters)
	Demolition and decommission of existing steel pipe	2 to 4 in (0.05 to 0.1 m)
	Demolition and decommission of existing street signs	3 ft (0.92 m)
	Demolition of existing planters	No ground disturbance
Repair/ Rehabilitation	Rehabilitation of existing inlets (1.a.i)	No ground disturbance
	Cleaning of existing inlet structures	No ground disturbance
	Existing manholes to be adjusted to final grade	No ground disturbance
	Existing and new storm sewer inlets to be adjusted to final grade	No ground disturbance
New Construction	New asphalt pavement including underlying asphalt and aggregate base courses	1 ft (0.30 m)
	New concrete pavement including underlying aggregate base	1 ft to 1 ft 6 in (0.30 to 0.45 m)
	New concrete curbs	1 ft 2 in (0.35 m)
	New concrete gutters	1 ft 8 in (0.50 m)
	Installation of silt fencing for erosion control (temporary)	4 in (0.10 m)
	Replacement of existing inlets (1.b.i)	9 ft 2 in (2.80 m)
	Installation of new street signs	3 ft (0.92 m)
	Installation of new bollards	8 in (0.20 meters)

Categories of proposed actions for which the modified 5-step decision making process applies are described in 24 CFR 55.14. Based on the scope of work described above, this project meets the requirements under 24 CFR 55.14(e):

HUD's or the recipient's actions under any HUD program involving the repair, rehabilitation, or replacement of existing nonstructural improvements including streets, curbs, and gutters, where any increase of the total impervious surface area of the facility is de minimis. This provision does not include critical actions, levee systems, chemical storage facilities (including any tanks), wastewater facilities, or sewer lagoons.

The proposed improvements to the roadways will maintain the present alignment of the paved surface. The activities in the floodplain will not increase the existing impervious surface areas, these will remain unchanged. According to the updated 24 CFR Part 55 and based on the proposed project scope of work, the responsible entity has determined that a 5-step decision making process is the appropriate approach for evaluation under 24 CFR Part 55.

List of Attachments:

Attachment 1 - Map with project location

Attachment 2 - Photos of project areas

Attachment 3 - Selected site plans

Attachment 4 - FEMA’s Flood Insurance Rate Map (FIRM)

Attachment 5 - Advisory Base Flood Elevation (ABFE) map

Attachment 6 - National Wetlands Inventory (NWI) map

Step 1: Determine whether the action is located in the floodplain or wetland

The project involves streets and sidewalks in the urban center of the municipality of Arecibo. The extent of the floodplain was evaluated using the available Federal Emergency Management Agency's (FEMA) flood maps to determine the most conservative. The evaluation of FEMA's Flood Insurance Rate Map (FIRM) included in **Attachment 4** (FIRM Panel 72000C0230J, effective 11/18/2009) show that the proposed project is located entirely within outside of the floodplain or in Zone X. FEMA defines Zone X as "Area of minimal flood hazard, usually depicted on FIRMs as above the 500-year flood level."

However, according to the Advisory Base Flood Elevation (ABFE) map (data as of October 18, 2024) some portions of the project are located within the 100-year floodplain, or Zone A (see **Attachment 5**). This zone corresponds to the 1% Annual Chance Flood area. The project areas that are located within the Zona A of the ABFE map are:

- Portions of Ariosto Cruz Street: 2,960 square meters (0.7 acres)
- Portions of José de Diego Ave and Gonzalo Marin Street: 981.3 square meters (0.2 acres)

Based on the National Wetlands Inventory (NWI) map, some project areas are within 100 feet of an Estuarine and Marine Deepwater wetland (E1UBL), but it will not be impacted by the proposed action (see **Attachment 6**). All proposed actions will occur on existing streets and sidewalks, and there will be no direct actions within the wetland. The project will not involve new construction[1].

According to the ABFE, the proposed project is located partially within the floodplain. The total area within the floodplain is approximately 3,941.3 square meters (0.9 acres). Additionally, the project is located adjacent to a wetland, as identified by the National Wetland Inventory mapper. Therefore, the floodplain decision-making process must be completed for these portions of the project.

[1] New construction" includes grading, clearing, draining, dredging, channelizing, filling, diking, impounding, and related activities for any structure or facilities including the siting of new manufactured housing units per Executive Order 11990.

Step 2: Notify the public for early review of the proposal and involve the affected and interested public in the decision-making process.

According to 24 CFR Part 55.14, Steps 2, 3, and 7 do not apply to the modified 5-step decision making process.

Step 3: Identify and evaluate practicable alternatives to locating the proposed action in the floodplain or wetland.

According to 24 CFR Part 55.14, Steps 2, 3, and 7 do not apply to the modified 5-step decision making process.

Step 4: Identify and evaluate the potential direct and indirect impacts associated with the occupancy or modification of the floodplain or the wetland.

The potential adverse and beneficial impacts of the proposed project to the floodplain and wetland were thoroughly evaluated. The analysis of beneficial impacts will center on revitalization of the urban center, rehabilitation of the community's infrastructure, and improved accessibility for locals and visitors. The HUD-funded CRP program is for projects that contribute to economic revitalization throughout Puerto Rico. HUD rules limit what actions can be considered under the CRP program, including limitations on proposed actions in the floodplain and wetland. Descriptions of the potential impacts of the proposed project are below.

Floodplain and wetland characteristics:

A portion of the project area, measuring approximately 3,941.3 square meters (0.9 acres) in total, is located within the ABFE floodplain. The project scope activities in related to the floodplain areas include new pedestrian crossings, new handicap ramps on the sidewalks, sidewalks reconstruction, removal and installation of new traffic signs, new pavement markings and new, energy-efficient, light poles. However, proposed improvements to the streets, sidewalks and pedestrian areas will maintain the existing alignment and footprint of developed areas. The project will not affect existing natural and beneficial functions or values, because it will occur in areas that are currently developed. There will be no increase in the impervious surfaces.

The proposed project will be developed within the confinement of existing streets, sidewalks and pedestrian areas of the municipality of Arecibo. There are no wetlands within the project areas based on aerial photos, existing site drawings developed for the project, and the USFWS National Wetlands Inventory mapper. As such, the project will not have a direct impact on wetlands. Indirect impacts to the wetlands will be minimized by using best management practices (BMPs) to limit erosion and sedimentation.

Impacts to lives and property:

The proposed project will not create any additional risk for potential loss of life, injury, or hardship to residents during a flood event because there will not be any increase in impervious areas. Also, the proposed project will not increase the population within the floodplain. There will be no additional hazard to surrounding properties due to increased storm runoff since the project will not create new impervious areas and therefore will not create additional runoff.

Impacts to natural and beneficial values:

The proposed project will maintain the natural and beneficial values of the floodplain and wetland such as natural moderation of floods, water quality maintenance, and groundwater recharge. The project will not alter the existing topography of the site. Flora

and fauna will not be negatively affected by the project since the proposed actions will be limited to the footprint of existing developed land.

The project will be closely monitored to ensure it does not negatively impact archaeological or historic features of the urban center. The consultation with SHPO is in progress and it is likely that there will be a need to conduct archeological monitory during construction to avoid impact to archeological resources that may be in the area. Any SHPO conditions will be adhered to. Recreational values will be improved by rehabilitating and improving streets and walkways for locals and visitors to enjoy.

Economic and legal considerations:

The project areas are public and managed by the municipality. The proposed improvements are limited to the footprint of existing sidewalks and streets, there will be no costs related to the acquisition of additional land or relocation of residences or businesses.

Since the proposed project will occur entirely within the footprint of existing public areas and does not encroach upon any private land, the are no legal considerations related to deeds or leases. The municipality will coordinate the construction activities with the owners of residences and commercial properties. The RE and subrecipient will seek to compensate the residential and commercial properties that may be affected by the construction, as mandated by local or federal regulations.

Other legal considerations include compliance with government regulations and permits, which will be obtained prior to construction. The project will follow any requirements for obtaining permits or approvals from local authorities. Compliance with zoning laws, transportation regulations, and any other relevant regulations shall be confirmed.

Step 5: Where practicable, design or modify the proposed action to minimize the potential adverse impacts to and from the floodplain or wetland and to restore and preserve their natural and beneficial functions and values.

Elevation:

The proposed project does not include new construction or substantial improvement of any residential structure or other insurable structure. Therefore, compliance with elevation requirements to avoid flooding is not required. In effect, the project will maintain the elevations to avoid stagnant water and encourage stormwater flow into the storm sewer system.

Minimization:

Potential harm to and within the floodplain and wetland will be minimized to the greatest extent possible by limiting the project to the existing developed footprint. Indirect impacts to the wetland will be minimized by using BMPs to limit erosion and sedimentation.

Restoration and preservation:

The project will not restore any natural or beneficial values of the floodplain, but will maintain the current floodplain state. The functions or beneficial values to the floodplain that the activity may consider is that of floodwater conduit and water quality maintenance. The activity will not result in adverse impacts to existing wetlands or natural areas.

Planning for residents' and occupants' safety:

The proposed project will not include any residential properties or healthcare facilities. No critical actions are proposed in the floodplain, and the project will not increase population density in the floodplain. The proposed project will not create any additional risk for potential loss of life, injury, or hardship to residents during a flood event and will not exacerbate flood hazards in any way.

Step 6: Reevaluate the alternatives.

There are no practicable alternatives to developing the proposed project within the floodplain. The proposed project consists of improvements to existing streets and sidewalks that are located partially within the ABFE floodplain. The existing streets and sidewalks are in need of rehabilitation and safety improvements. Selecting an alternate project location or choosing a no-action alternative would fail to meet the goals of the project and the City Revitalization Program as a whole.

Although the project will be located partially within the floodplain, direct floodplain and wetland impacts will be avoided by limiting construction to the existing developed footprint within the urban area. Indirect impacts to the wetland will be minimized by using BMPs to limit erosion and sedimentation. Therefore, the proposed project remains the most practicable alternative.

Step 7: Determination of no practicable alternative and publication of final notice

According to 24 CFR Part 55.14, Steps 2, 3, and 7 do not apply to the modified 5-step decision making process.

Step 8: Implement the proposed action

The Responsible Entity will oversee the implementation of the plan as described above to ensure that impacts to the floodplain are managed and mitigated to the extent possible. The activities will be executed, and necessary language will be included in all agreements with participating parties. Active monitoring of the construction process will take place to ensure no unnecessary impacts occur nor unnecessary risks are taken. Finally, the municipality will provide maintenance to the project elements to ensure it operates as intended.

Attachment 1:
Location Map

PR-CRP-000768 Project Location Map

Address: Improvements and Revitalization of Betances and Gonzalo Marin Streets, Jose De Diego, Antonio R. Barcelo and Ariosto Streets in the Urban Center

LOCATION	COORDINATES	
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START:	18.472634, -66.718580
	END:	18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START:	18.472314, -66.719061
	END:	18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START:	18.471480, -66.716765
	END:	18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START:	18.471768, -66.718319
	END:	18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START:	18.471352, -66.716732
	END:	18.472503, -66.712254

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

Prepared by ICF

Attachment 2:
Site Photos

1 E301 PHOTO #1
GONZALO MARIN ST.

2 E301 PHOTO #2
ARIOSTO CRUZ ST.

3 E301 PHOTO #3
ARIOSTO CRUZ ST.

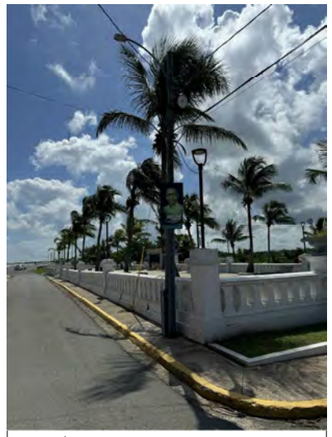
4 E301 PHOTO #4
ARIOSTO CRUZ ST.

5 E301 PHOTO #5
ARIOSTO CRUZ ST.

6 E301 PHOTO #6
ARIOSTO CRUZ ST.

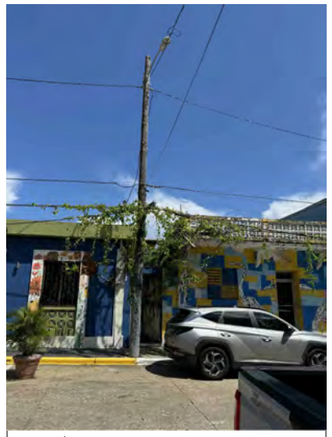
7 E301 PHOTO #7
ARIOSTO CRUZ ST.

8 E301 PHOTO #8
JOSE DE DIEGO AVE.

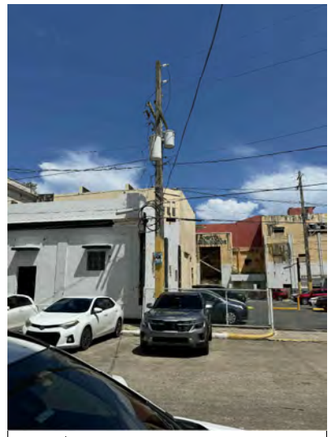


9 E301 PHOTO #9
JOSE DE DIEGO AVE.

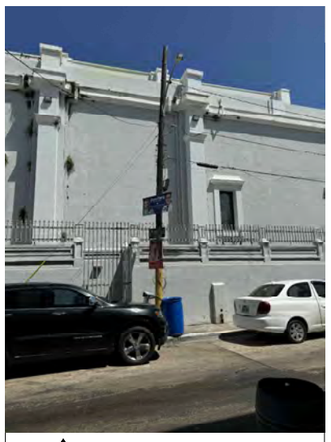
10 E301 PHOTO #10
GONZALO MARIN ST.



11 E301 PHOTO #11
GONZALO MARIN ST.



12 E301 PHOTO #12
GONZALO MARIN ST.

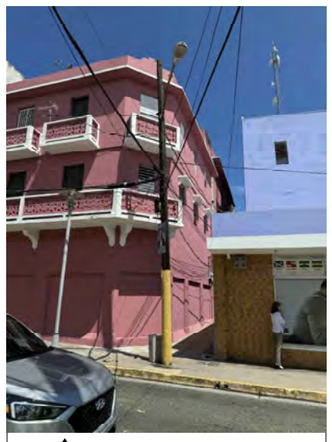


13 E301 PHOTO #13
GONZALO MARIN ST.

14 E301 PHOTO #14
GONZALO MARIN ST.

15 E301 PHOTO #15
GONZALO MARIN ST.

16 E301 PHOTO #16
PALMA ST.



17 E301 PHOTO #17
RAMÓN E. BETANCES ST.

18 E301 PHOTO #18
RAMÓN E. BETANCES ST.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.

Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONO Y/O DISEÑO Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

SHEET TITLE

PHOTOS - EXISTING CONDITIONS SHEET #1

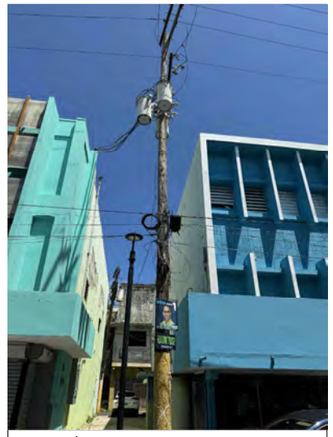
SHEET ID

E301

9/12/2024 10:40:53 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR\24-09 CALLES\DWGS\ 09.12.2024\E301.dwg

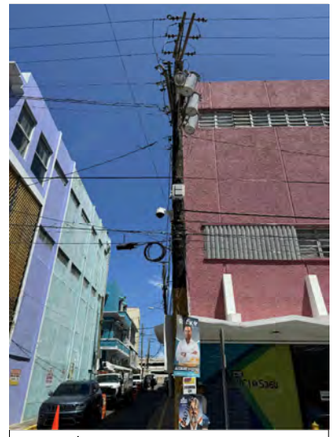
19 E302 PHOTO # 19
RAMÓN E. BETANCES ST.

19 E302 PHOTO # 20
JOSÉ DE DIEGO AVE.



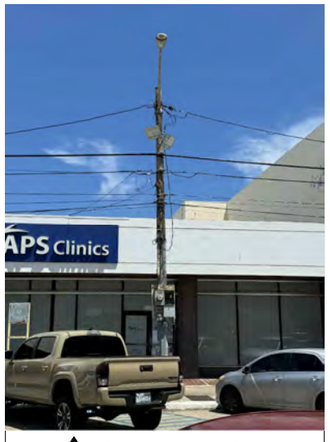
21 E302 PHOTO # 21
JOSÉ DE DIEGO AVE.

22 E302 PHOTO # 22
JOSÉ DE DIEGO AVE.

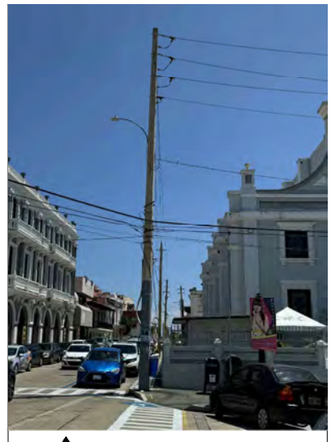


23 E302 PHOTO # 23
JOSÉ DE DIEGO AVE.

24 E302 PHOTO # 24
JOSÉ DE DIEGO AVE.

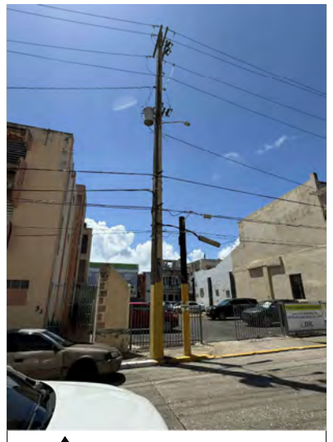


25 E302 PHOTO # 25
JOSÉ DE DIEGO AVE.



26 E302 PHOTO # 26
JOSÉ DE DIEGO AVE.

27 E302 PHOTO # 27
JOSÉ DE DIEGO AVE.



28 E302 PHOTO # 28
JOSÉ DE DIEGO AVE.

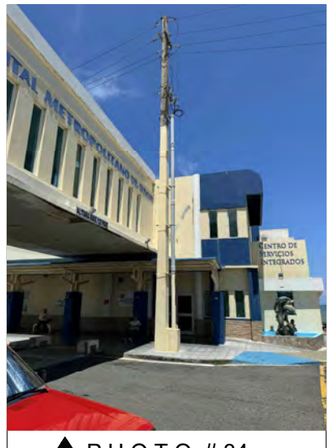
29 E302 PHOTO # 29
JOSÉ DE DIEGO AVE.

30 E302 PHOTO # 30
JOSÉ DE DIEGO AVE.

31 E302 PHOTO # 31
ANTONIO ROMERO ST.

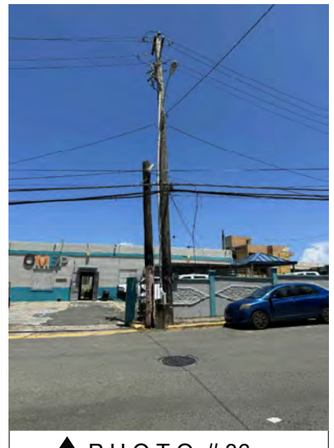
32 E302 PHOTO # 32
ANTONIO R. BARCELO ST.

33 E302 PHOTO # 33
ANTONIO ROMERO ST.



34 E302 PHOTO # 34
ANTONIO ROMERO ST.

35 E302 PHOTO # 35
ANTONIO ROMERO ST.



36 E302 PHOTO # 36
ANTONIO ROMERO ST.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527QG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

SHEET TITLE

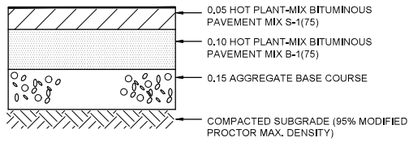
PHOTOS - EXISTING CONDITIONS SHEET #2

SHEET ID

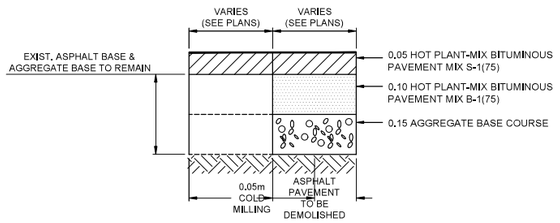
E302

9/12/2024 10:40:27 PM C:\Users\Luis Perez\Documents(3) JOBS\RJR-24-09 CALLES\DWGS (09.12.2024)E302.dwg

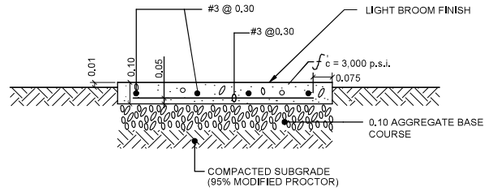
Attachment 3: Select Site Plans



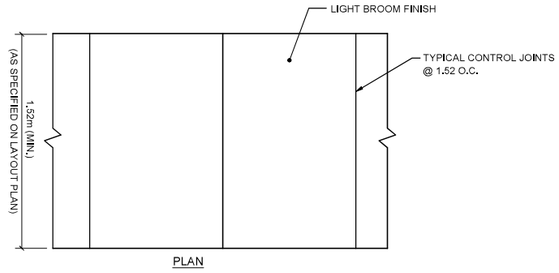
NEW ASPHALT PAVEMENT FOR ROADWAY DETAIL
SCALE: NTS



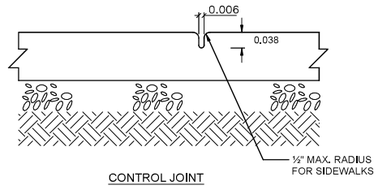
ASPHALT PAVEMENT RECONSTRUCTION DETAIL
SCALE: NTS



SECTION



PLAN

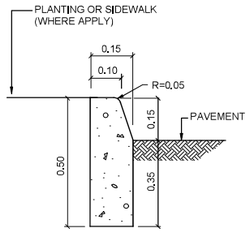


CONTROL JOINT

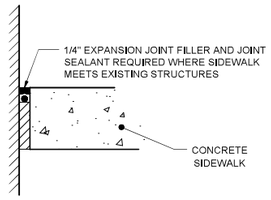
NOTE:

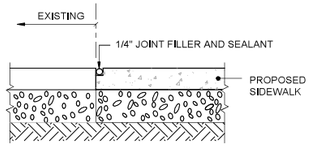
1. WHERE SIDEWALK ABUTS EXISTING OR PROPOSED FIXED OBJECTS (CURBS, CURB AND GUTTERS, CONCRETE PAVING, MANHOLES, OR BUILDINGS), INSTALL 12,7MM EXPANSION JOINT FILLER AND JOINT SEALANT.

CONCRETE SIDEWALK DETAIL
SCALE: NTS



CONCRETE CURB DETAIL
SCALE: NTS

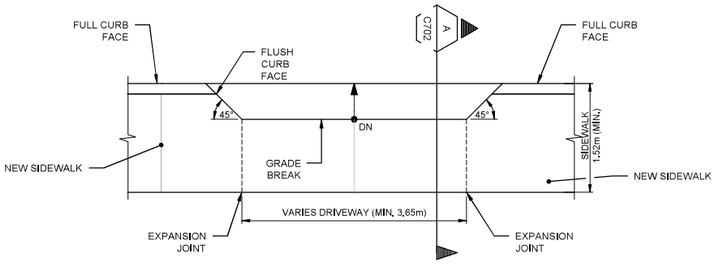




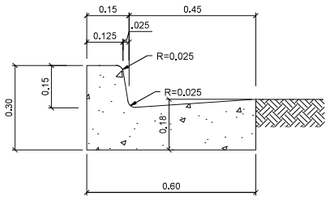
NOTE:

1. WHERE PROPOSED SIDEWALK ABUTS EXISTING SIDEWALKS INSTALL A 1/4" CONSTRUCTION JOINT WITH FILLER AND JOINT SEALANT.

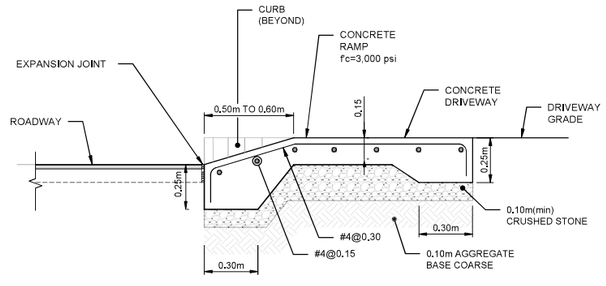
CONSTRUCTION JOINT TYPICAL DETAILS
SCALE: NTS



TYPICAL CURB CUT DRIVEWAY DETAIL 1
SCALE: N.T.S.

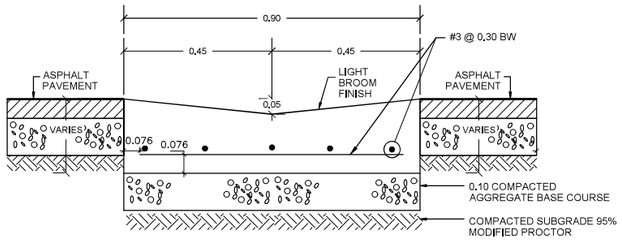


TYPICAL CURB AND GUTTER DETAIL
SCALE: NTS



* NOTE:
1. TYPICAL DETAIL FOR ALL DRIVEWAYS AND VEHICULAR ENTRANCES WITHIN THE PROJECT LIMIT, UNLESS OTHERWISE NOTED.

SECTION A
SCALE: NTS C702



CONCRETE GUTTER DETAILS
SCALE: NTS

OWNER
Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT
BR&A LLC
PROJECT MANAGEMENT · ENGINEERING · DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONO Y/O DISEÑO Y/O PREPARO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

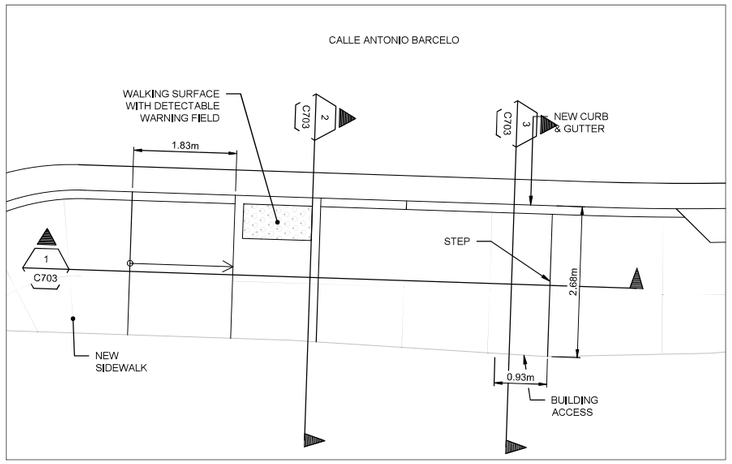
SHEET TITLE

TYPICAL SECTIONS AND DETAILS

SHEET ID

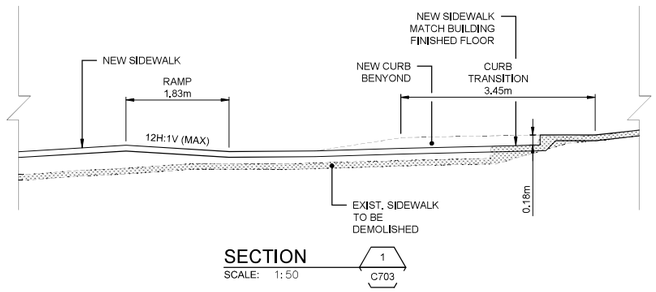
C700

9/13/2024 12:45:24 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C700-01-02-03-04.dwg



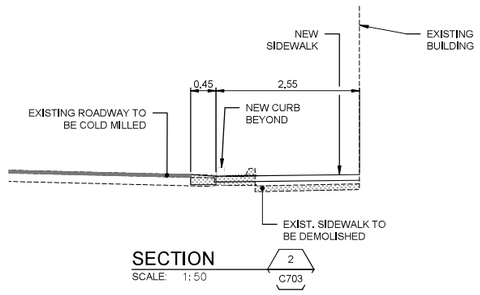
DETAIL No. 1

SCALE: 1:50



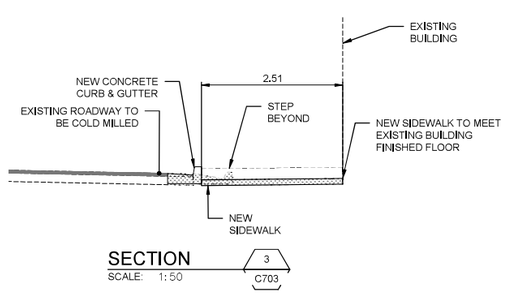
SECTION

SCALE: 1:50 — 1 / C703



SECTION

SCALE: 1:50 — 2 / C703



SECTION

SCALE: 1:50 — 3 / C703

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO — PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

SHEET TITLE

TYPICAL SECTIONS AND DETAILS

SHEET ID

C703

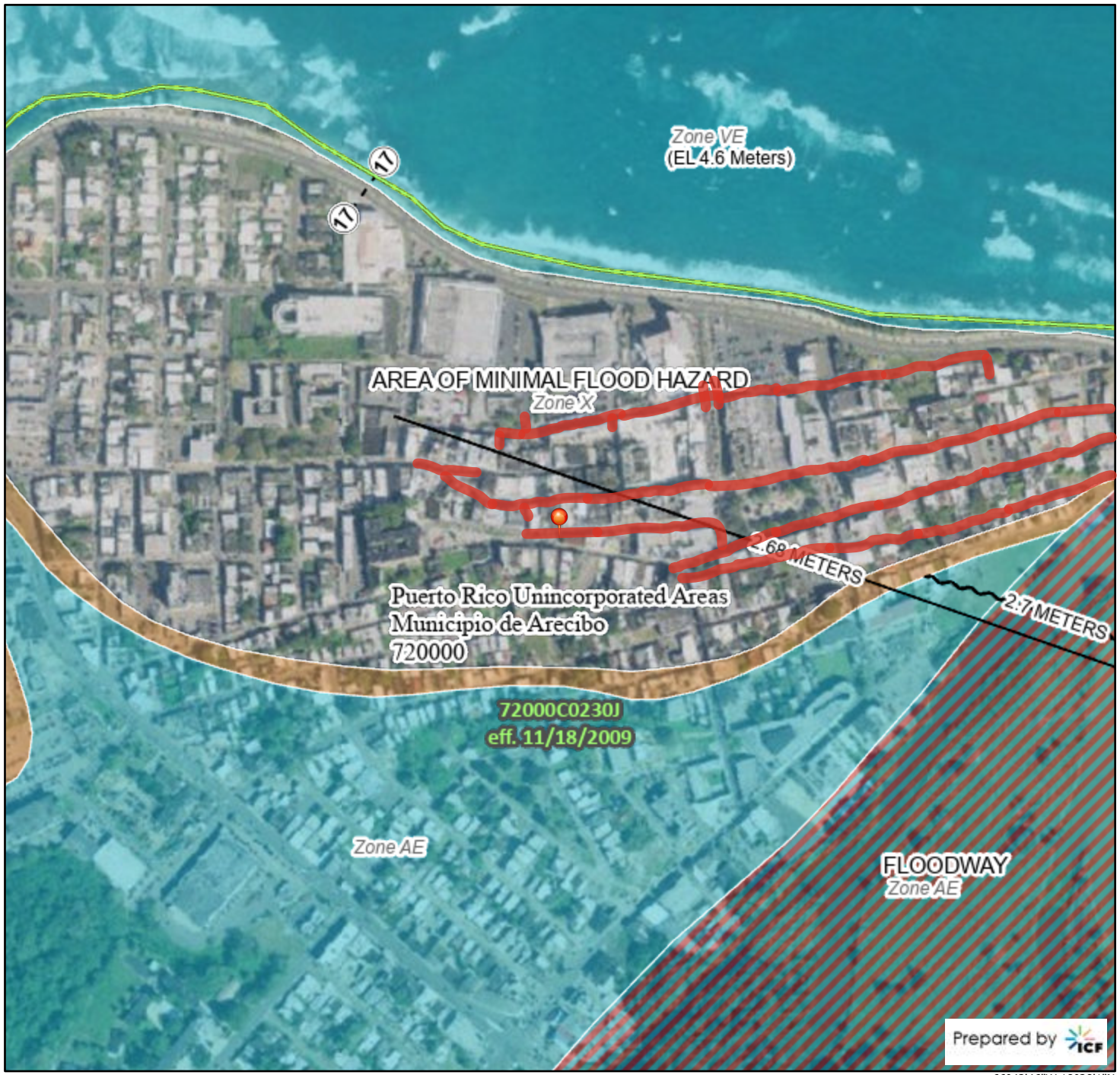
9/13/2024 12:45:27 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejirasCalles\07-Project Design\01-CivilC700-01-02-03-04.dwg

Attachment 4:
FEMA FIRMette

PR-CRP-000768 FEMA National Flood Hazard Layer FIRMette

Address: Calle Antonio Romero Barceló, Avenida Jose De Diego, Calle Gonzalo Marin, Calle Betances, and Calle Ariosto Cruz, Arecibo, PR
Coordinates: 18.471728, -66.717921

FEMA



0 250 500 1,000 1,500 2,000 Feet

1:6,000

66°42'46"W 18°28'1"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

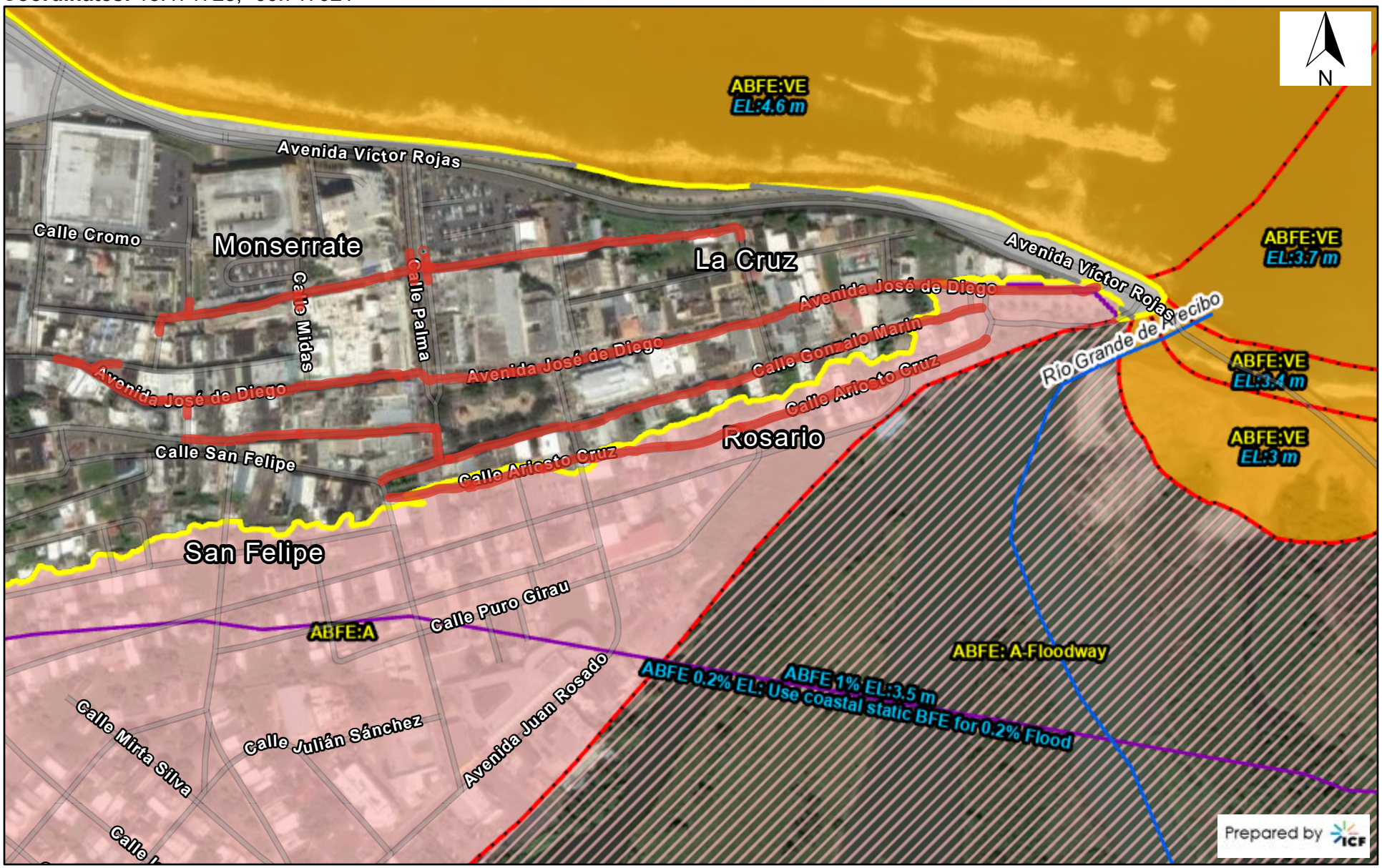
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/30/2024 at 12:38 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Attachment 5: Advisory Base Flood Elevation (ABFE) Map

PR-CRP-000768 Advisory Base Flood Elevation (ABFE) Map

Address: Calle Antonio Romero Barceló, Avenida Jose De Diego, Calle Gonzalo Marin, Calle Betances, and Calle Ariosto Cruz, Arecibo, PR
Coordinates: 18.471728, -66.717921



10/29/2024, 3:53:42 PM

Flood Hazard Area (zoom in to make visible)
- A
- VE
- 0.2% Annual Chance Flood Zone
- A-Floodway
- Zone/BFE Boundary

Flood Hazard Extent
- 1% Annual Chance Flood
- 0.2% Annual Chance Flood
- Advisory Base Flood Elevation (zoom in to make visible)
- Streamline (zoom in to make visible)

1:4,514

0 0.04 0.07 0.14 mi

0 0.05 0.1 0.2 km

FEMA, Maxar, Esri Community Maps Contributors, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS,

ArcGIS Web AppBuilder

FEMA | Maxar | Esri Community Maps Contributors, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS, US Census Bureau, USFWS |

Attachment 6:
National Wetlands Inventory Map

PR-CRP-000768 Wetlands Map

Address: Calle Antonio Romero Barceló, Avenida Jose De Diego, Calle Gonzalo Marin, Calle Betances, and Calle Ariosto Cruz, Arecibo, PR

Coordinates: 18.471728, -66.717921

U.S. Fish and Wildlife Service

National Wetlands Inventory

May 14, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Prepared by ICF

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Appendix M:
Historic Preservation

STATE HISTORIC
PRESERVATION
OFFICE

GOVERMENT OF PUERTO RICO

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

September 19, 2025

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

Referencia: SHPO-CF-05-27-25-02 - PR-CRP-000768 (Arecibo), Improvements of Streets in the Urban Center

Dear Ms. Sanders,

We have reviewed the archaeological monitoring plan, dated August 8, 2025, prepared for the above referenced project. The plan is deemed acceptable.

If you have any questions regarding our comments, please do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela
State Historic Preservation Officer
CARC/GMO/MB

DEPARTMENT OF
HOUSING
GOVERNMENT OF PUERTO RICO

March 24, 2025

Samir El Hage Arocho
General Partner, HORNE LLP
269 Juan Ponce de León Ave.
Hato Rey, Puerto Rico 00917-00918

Via email: samir.elhage@horne.com

RE: Authorization for Grant Management (GM) to Conduct the Required Environmental Consultations with Federal and Local Agencies on PRDOH's Behalf

Dear Mr. El Hage,

Provisions at 24 C.F.R. Part 58 establish the environmental review procedures for entities assuming the U.S. Department of Housing and Urban Development (**HUD**) environmental responsibilities under the National Environmental Policy Act (**NEPA**) and other applicable laws. The Puerto Rico Department of Housing (**PRDOH**), as the designated CDBG-DR/MIT grantee, has assumed HUD's environmental responsibilities under NEPA and related laws (**Responsible Entity**) by directly implementing multiple CDBG-DR/MIT projects.

One of the Responsible Entity's many responsibilities under 24 C.F.R. Part 58 is consulting with State, Federal, and non-federal entities in preparing an Environmental Review Record (**ERR**). Regarding a Responsible Entity's interactions with State, Federal, and non-Federal entities, 24 C.F.R. § 58.14 states that:

> *A responsible entity shall consult with appropriate environmental agencies, State, Federal and non-Federal entities and the public in the preparation of an EIS, EA or other environmental reviews undertaken under the related laws and authorities cited in § 58.5 and § 58.6. […].*

In conducting its role as a Responsible Entity that directly undertakes a project, as per 24 C.F.R. § 58.4(b)(1), PRDOH *"must assume the environmental review responsibilities for the State's activities* ***and those of any non-governmental entity that may participate in the project****."* Accordingly, a Responsible Entity may delegate certain tasks in the preparation of ERRs but retains full legal responsibility for compliance with environmental requirements.

To effectively manage available environmental resources and expedite the preparation of ERRs, PRDOH—as Responsible Entity—wishes to delegate the task of consulting with State, Federal, and non-Federal entities contained in 24 C.F.R. § 58.14. Therefore, PRDOH hereby authorizes Alberto Mercado Vargas, GM Environmental SME, or his authorized representative) to conduct on its behalf the environmental consultations with Federal and local agencies required to prepare ERRs for the implementation of CDBG-DR and CDBG-MIT projects, while still maintaining the ultimate and full legal responsibility for compliance with environmental requirements. This authorization extends to both early and formal consultations before Federal agencies such as the U.S. Fish and Wildlife Service (**USFWS**) and the State Historic Preservation Office (**SHPO**), among others required for compliance with applicable laws and regulations as established in 24 C.F.R. § 58.14 and § 58.5. GM should include and copy the PRDOH Environmental Division in all communications with Federal and local agencies for these purposes.

PRDOH appreciates GM's commitment to Puerto Rico's recovery and is confident in its ability to execute this task effectively. Please feel free to contact me with any questions.

Sincerely,

Ciary Pérez Peña
Secretary
Puerto Rico Department of Housing

Cc. Alberto Mercado Vargas
GM Environmental SME
alberto.mercadovargas@horne.com

August 25, 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-05-27-25-02 – PR-CRP-000768 - Improvements and Revitalization of Betances and Gonzalo Marin Streets, Jose De Diego, Antonio R. Barcelo and Ariosto Streets in the Urban Center, Arecibo, Puerto Rico – Archaeology Monitoring Work Plan Submission

Dear Architect Rubio Cancela,

On behalf of the Puerto Rico Department of Housing (PRDOH), we thank you for your letter dated June 26, 2025, in response to the submission of documentation for PR-CRP-000768, Improvements and Revitalization of Betances and Gonzalo Marin Streets, Jose De Diego, Antonio R. Barcelo and Ariosto Streets in the Urban Center project. The letter stated your office agreed with the finding of no adverse effect for the proposed undertaking conditioned to archaeological monitoring during all ground disturbing activities for the project, and the preparation and submission of an archaeological monitoring work plan for review and concurrence.

As such, we are submitting the requested Archaeological Monitoring Plan prepared by Archaeologist Dylan Zedaker and reviewed by Archaeologist Karen Anderson-Córdova. We

are requesting your review of the prepared plan and concurrence that the implementation of the plan is appropriate for the undertaking.

Please contact me with any questions or concerns by email at kristin.sanders@horne.com or phone at 225-276-2109.

Kindest regards,

Kristin P. Sanders
Historic Preservation Manager

Attachments

PR-CRP-000768

Archaeological Monitoring Plan

Improvements and Revitalization of Betances, Gonzalo Marín, José de Diego, Antonio R. Barceló, and Ariosto Cruz Streets in the Urban Center Arecibo, PR

SHPO-CF-05-27-25-02

Submitted to:

PR State Historic Preservation Office

Prepared By:

Dylan Zedaker, MA

Archaeologist – ICF

Reviewed By:

Karen Anderson-Córdova, PhD

Archaeologist – HCC for ICF

Date:

August 8, 2025

Table of Contents

Preamble **3**

Description and Development of Arecibo TUC **5**

Description of Proposed Project **7**

Ground Disturbing Activities 7

Archaeological Evaluation and Monitoring Procedure **12**

Before Construction Begins 166

During Demolition and Construction 177

After Construction Ends 19

Human Remains 20

Summary of Anticipated Products **21**

Professional Qualifications **21**

References **22**

Appendices **24**

Appendix A: SHPO Concurrence Letter 24

Appendix B: Monitoring Daily Activity Sheet 25

Appendix C: 90 Percent Design Plans 247

Table of Figures

Figure 1. APE Overview 4

Figure 2. Proposed Site Plan 8

Figure 3. Demolition Plan 9

Figure 4. Known Archaeological Sites within the Direct APE 13

Preamble

The Municipality of Arecibo is seeking Community Development Block Grant Disaster Recovery (CDBG-DR) funds financed by the federal Department of Housing and Urban Development due to damage received by the 2017 Hurricanes Irma and María. The Puerto Rico Department of Housing (PRDOH) has established an Agreement between PRDOH and the Municipality of Arecibo for the City Revitalization Program (CRP) as part of the CDBG-DR.

As a result of Hurricanes Irma and María, the Arecibo TUC streets and sidewalks were flooded with water and debris and remained flooded for multiple consecutive days resulting in serious infrastructure damage to nearby stores, offices, and restaurants. The storm sewer system was overloaded and subsequently clogged with debris due to the immense movement of sediment related to this flood event. The Arecibo Municipality proposes to repair and improve the Arecibo TUC streets, sidewalks, lighting and drainage to conform to modern access standards, and to clear and clean the existing storm sewer inlets to avoid future flooding events.

A formal consultation with the Puerto Rico State Historic Preservation Office (PRSHPO) was prepared for the project in compliance with Stipulation II.A.4 of the Section 106 Programmatic Agreement[1] (PA) as amended in the form of an Effect Determination Form (EDF). PRSHPO, in a letter dated June 26, 2025, concurred with a finding of No Adverse Effect for this undertaking provided the condition to implement an archaeological monitoring plan during ground-disturbing activities including demolition and construction (see Appendix A).

This monitoring plan is based on the Archaeological Monitoring Work Plan Template developed by Archaeologist Sharon Meléndez Ortiz, Horne PR, 2023. The information in this document contains a summary of the information presented in the NHPA Section 106 EDF entitled Improvements and Revitalization of Betances, Gonzalo Marín, José de Diego, Antonio R. Barceló, and Ariosto Cruz Streets in the Urban Center by Berenice Sueiro-Vázquez, Arleen Pabón-Charneco Ph.D., and Dylan Zedaker, M.A. (2025).

The Program has determined that the direct APE for this improvement project consists of the streets and sidewalks that are being rehabilitated, which contains portions of Antonio R. Barceló Street, José de Diego Avenue, Betances Street, Gonzalo Marín Street, and Ariosto Cruz Street (Figure 1). The staging area is part of the Direct APE, and it is located at the corner lot of Manuel Pérez Avilés Street to the north and Adriano González Street to the west (18.473699°, -66.720855°), approximately 0.14 miles northwest of the project area (see Figure 1).

[1] An addendum to the FEMA prototype PA was completed to include the PRDOH and CDBG-DR program (FEMA 2019).

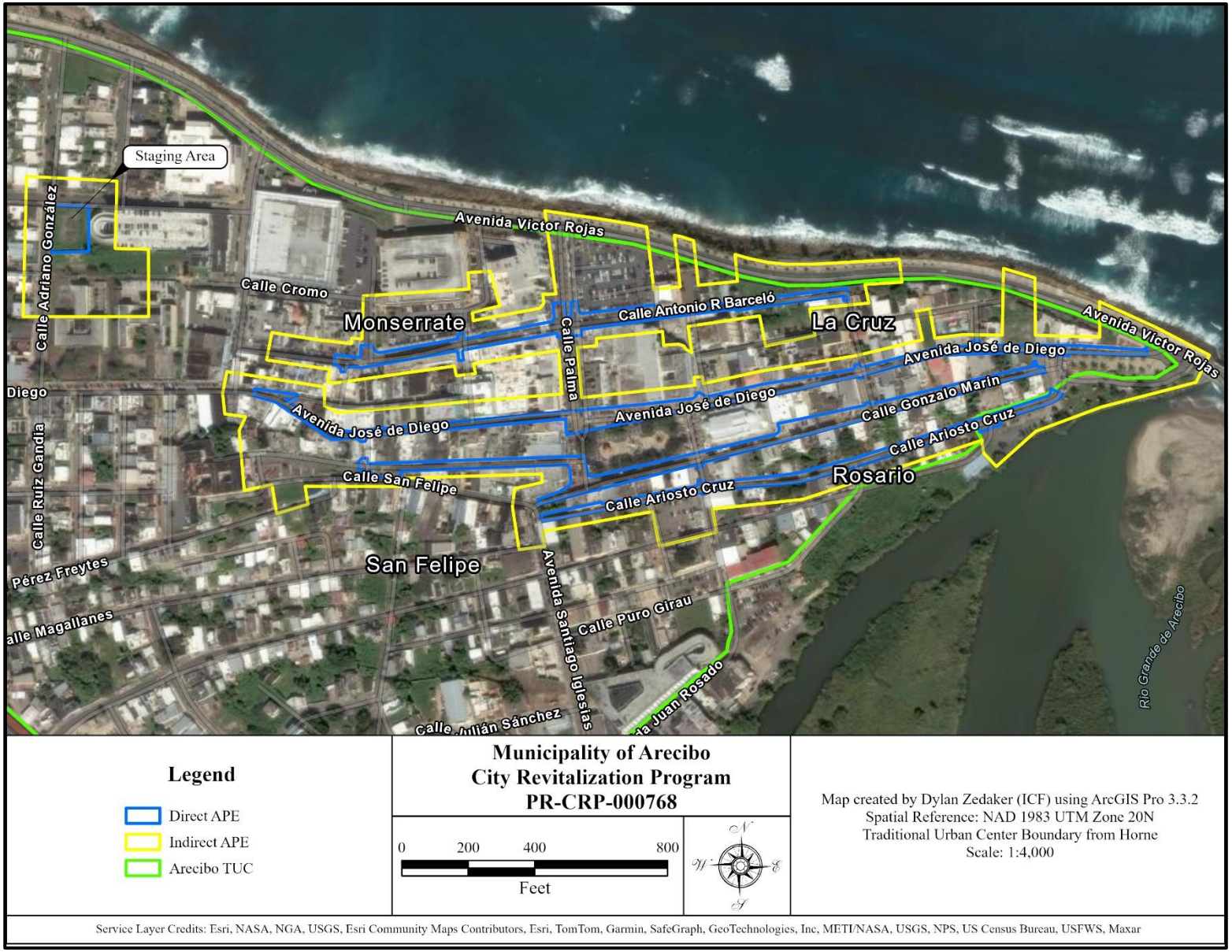


Figure 1. APE Overview

The total area for the Direct APE measures approximately 6.15 acres. The Indirect APE (view-shed) of the project extends along the lots on each side of Antonio R. Barceló Street, José de Diego Avenue, Betances Street, Gonzalo Marín Street, and Ariosto Cruz Street and measures approximately 2953 ft (900 m) east to west by 984 ft (300 m) north to south (See Figure 1). The APE lies within the NRHP-eligible Arecibo Traditional Urban Center (TUC).

The plan is consistent with the Secretary of the Interior's (SOI) Guidelines for Archeological Documentation, the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites, PR Regulation #8932 of the Council for Protection of the Puerto Rico Terrestrial Patrimony and PR Regulation #9233 of the OGPe (Puerto Rico Permits Management Office). The monitoring plan was prepared by archaeologist Dylan Zedaker, MA with ICF. A technical review of the monitoring plan was performed by archaeologist Karen Anderson-Córdova, PhD with Historical Compliance Consulting. Both archaeologists exceed the requirements set forth in 36 CFR Part 61.

Description and Development of Arecibo TUC

The APE is located within the Arecibo TUC, and to better understand the historic development of the TUC, historic map research was performed for the Section 106 Effects Determination Form (EDF). The historic aerials used in this analysis are from 1931, 1950, and 1972 and were obtained from The Puerto Rico Department of Transportation and Public Works (DTOP 2025) and the United States Geological Service (USGS) Earth Explorer (USGS 2025) historic aerial image databases.

The earliest available historic aerial image of the Direct APE is from 1931 and shows most of the Direct APE the same as it is presently. The major differences are the intersection of Palma Street and Antonio R. Barceló Street, where it was previously a narrow undivided two-lane street. These structures are Plaza del Mercado and the butcher shop (*carnicería*), along the northwest side of Antonio R. Barceló Street; La Puntilla Residencial on the southeast side of Ariosto Cruz Street and along the Arecibo River; and Barriada Santo Domingo to the north of Antonio R. Barceló Street along the oceanfront. Lastly, the location of the staging area was previously undeveloped except for a few neighboring structures. The lot itself and the modern streets had not been developed or constructed by 1931. However, it is clear from the 1931 aerial image that most of the soil disturbance and development of the Direct APE had already occurred. The next available historic aerial image of the Direct APE is from 1950. In this image Barriada Santo Domingo has expanded to the west filling in all available empty space, and it has expanded far north towards the ocean resulting in several additional rows of houses. Additionally, the staging area has been developed with multiple structures present on the parcel and the adjacent modern streets have been constructed. There are no other significant developments within the Direct APE from 1932 to 1950.

The last available historic aerial image of the Direct APE is from 1972. This image illustrates the most significant changes to the Direct APE. The entirety of Barriada Santo Domingo was demolished between 1951 and 1971 and in its place the ocean front has been defined with the construction of Víctor Rojas Avenue, the eastern portion of which is still under construction. The structures Plaza del Mercado and the butcher shop (*carnicería)* have been demolished and in their place, and much of northern Arecibo in 1972, has been replaced with municipal parking lots. A large municipal parking complex is now present to the northeast of the Direct APE, in between the project location and the staging area, in place of the Barriada Santo Domingo. The staging area structures, and adjacent structures, have all been demolished, and the present concrete lot appears in 1972. Remnants of the previous structures may be present in the subsurface soil underneath this concrete pad. Lastly, the intersection of Palma Street and Antonio R. Barceló Street, a portion of the Direct APE to the north, has been expanded from a narrow street to a larger divided four lane street.

In summary, there has been significant development in the Arecibo TUC surrounding the direct APE from 1931 to 1972. The major development during this period is the increase of urban housing related to the expansion of Barriada Santo Domingo, and the demolition of the vast number of homes that were replaced with downtown parking and a major thoroughfare in the form of Víctor Rojas Avenue. The Direct APE was largely developed before 1931 and has only seen minor geometry changes of roads, intersections and structures.

The topography, hydrography, and soils within the APE indicate a high probability for potential prehistoric cultural materials. The soil composition of the direct APE, which is located in a floodplain, is classified as urban soil (Ul-Urban land); however, nearby non-urban alluvial soils include Toa silty clay loam (To), Coloso silty clay (Co) and Bajura clay (Ba). All three of these soils have increasing clay content with depth, experience frequent flooding, and feature a typical profile that shows the A-horizon from 0-15 inches below surface, the B-Horizon from 15-40 inches below surface and the C-Horizon from 40 to 80 inches below surface. Depending on the degree to which the urban land soils within Arecibo have been disturbed from urban development, the soils within the APE are most likely modified versions of the native silty clay soils to the east of the Arecibo River.

Due to regular flooding of the Arecibo River floodplain and its tributaries, the natural movement of the river channel through time and lateral accretion of sediments, there is the potential for deeply buried and intact archaeological deposits within the APE. The previous surficial disturbance associated with the construction of the current street and sidewalk geometry were likely not deep enough to completely disturb the underlying soils. Therefore, there is the potential for deeply buried and stratified archaeological deposits, which could be affected by ground disturbance related to the proposed project.

Description of Proposed Project

This project is located within the Arecibo TUC– as established by the Puerto Rico State Historic Preservation Office (PRSHPO) – bounded by Antonio González Street on the north, José "Cheo" González and Juan R Figueroa Streets, on the east, José A Monrozeau Street on the southeast, and Mirta Silva Street on the southwest. The project encompasses primarily Antonio R. Barceló Street, José de Diego Avenue, Betances Street, Gonzalo Marín Street, and Ariosto Cruz Street and includes the roadway, curbs, sidewalks, light poles and storm sewer inlets on these streets (See Figure 1). The proposed rehabilitation project has three principal goals: strategic geometry changes of the streets and sidewalks that will result in wider sidewalks, additional parallel roadside parking, and ramps compliant with the American with Disabilities Act (ADA), repaving of the urban streets and sidewalks, improved lighting of the sidewalks, and replacement and cleaning of the underlying storm sewer system to facilitate improved water drainage of the Arecibo TUC.

There are several different construction activities as part of this project that will require varying amounts of ground disturbance outlined in the Proposed Site Plan (Figure 2). The maximum depth of the ground disturbance for this project is the replacement of existing inlets (1.b.i) located on José de Diego Avenue and measure approximately 2.8 meters in depth. All ground-disturbing activities and their extent are clearly described below based on the Architectural Plans, PR-CRP-000768 Urban Center Street and Sidewalk Restoration, Arecibo, Puerto Rico – 90% Design Drawings-Revised dated 2/28/2025").

Ground Disturbing Activities

Three types of ground disturbing activities are outlined in the design plan with construction activities classified as either a demolition activity, repair/rehabilitation activity or a construction activity. The demolition plan is outlined on page 2 of the design plans (Figure 2), and the general site plan is outlined on page 13 of the design plans (Figure 3). The only activities that require ground disturbance are demolition and new construction activities. The extent of ground disturbance for all specific activities is outlined below (Table 1). The extent of ground disturbance is outlined in both feet (ft) and inches (in) and in meters (m). The largest volume of demolition for this project is approximately 267,894 ft^3 (7,586 m^3) of asphalt and concrete from existing roads, sidewalks, curbs, and gutters.

Additional ground-disturbing activities include the general movement of heavy machinery within the APE during construction, movement and storage of construction materials at the staging area, and any other activity that has the potential to displace soil or cause an adverse effect to historic properties or potential NRHP-eligible properties.

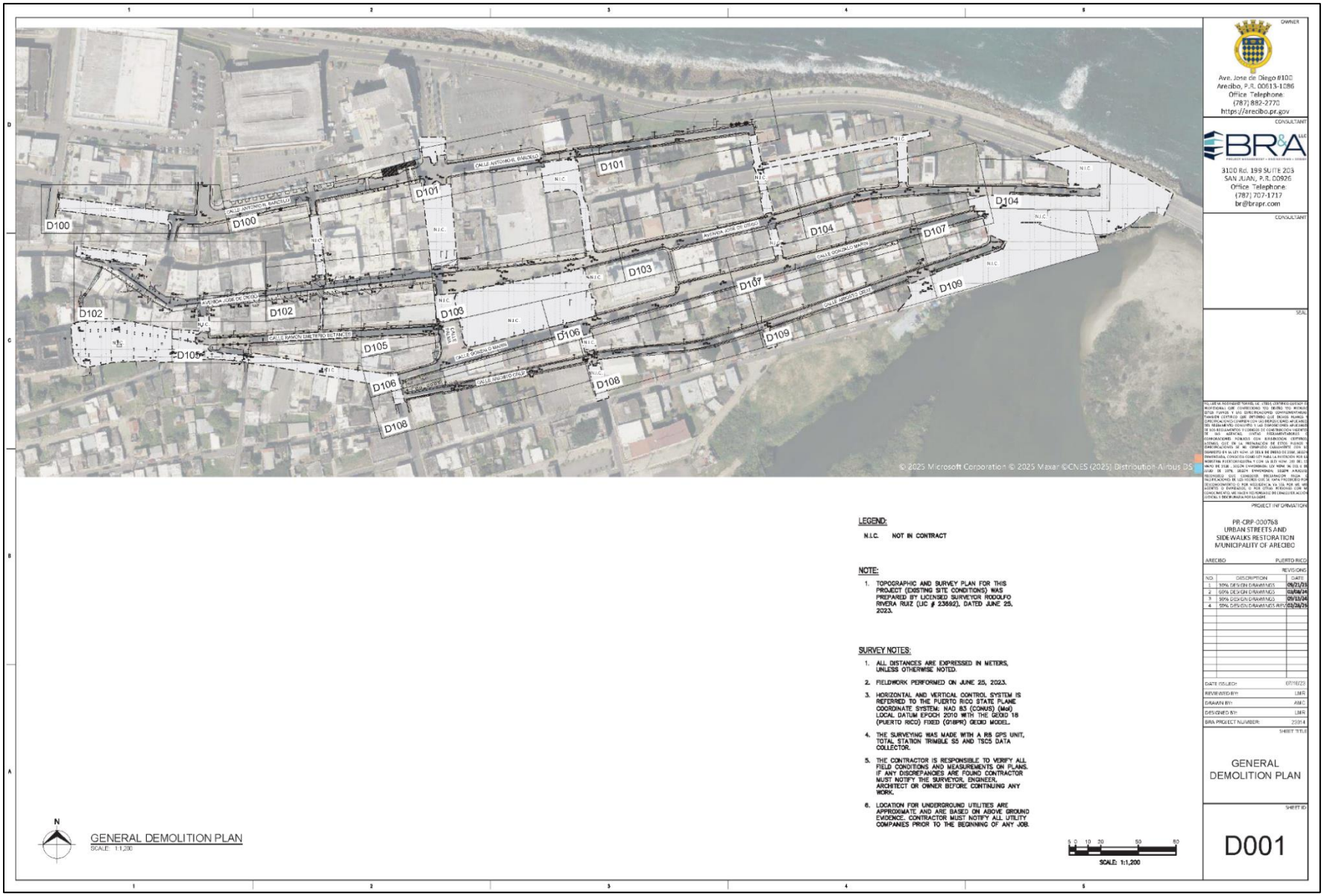


Figure 2. Demolition Plan

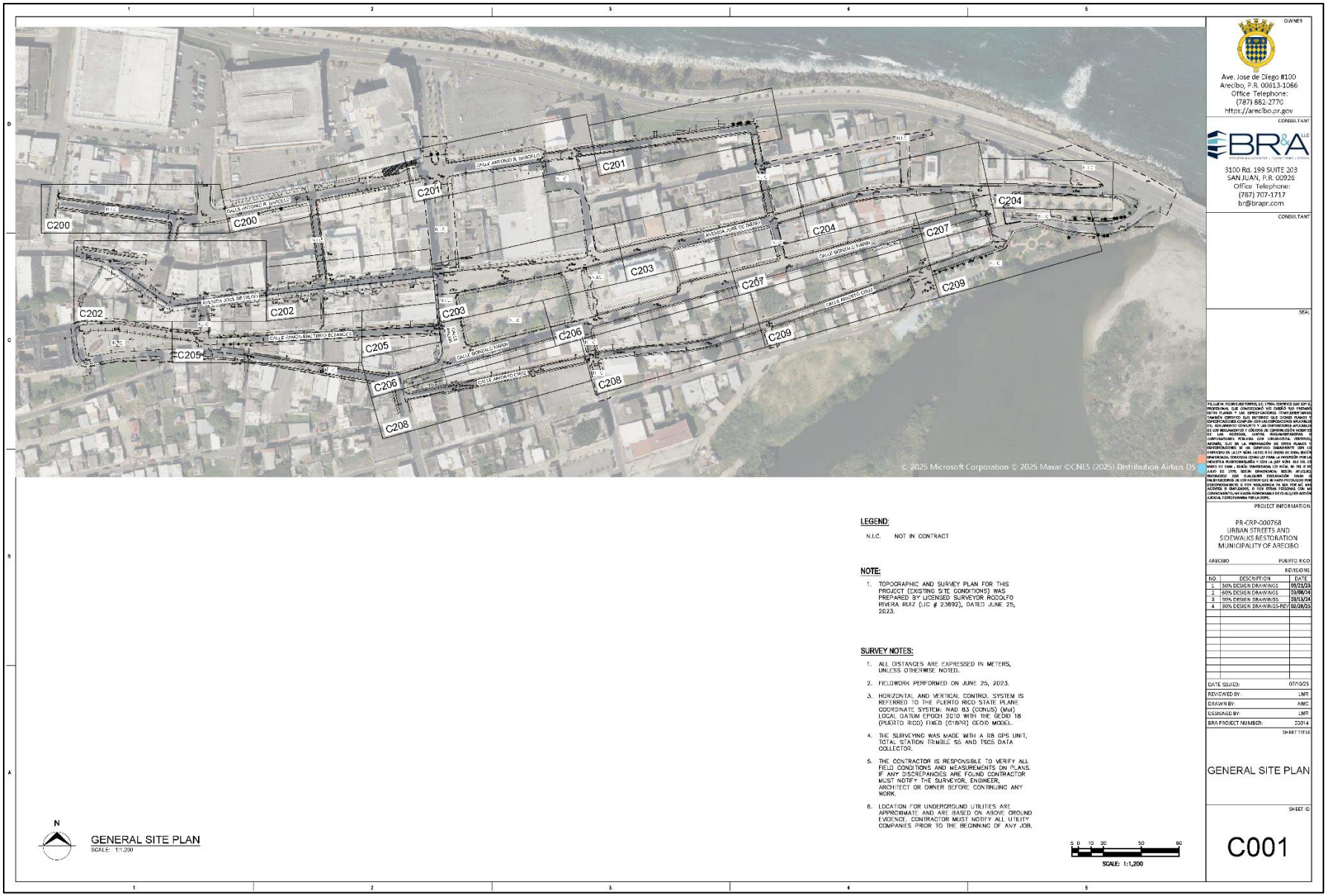


Figure 3. General Site Plan

Table 1. Proposed Project Activities and Estimated Ground Disturbance

Activity	Description	Estimated Depth of Ground Disturbance
Demolition[2]	Demolition of existing sidewalks and handicap ramps	4 to 6 in (0.10 to 0.15 m)
	Demolition of existing curbs	1 ft 2 in (0.35 m)
	Demolition of existing gutters	1 ft 8 in (0.50 m)
	Demolition of concrete pavement: Case 1 Detail	1 ft to 1 ft 4 in (0.30 to 0.40 m)
	Demolition of concrete pavement: Case 2 Detail	1 ft 2 in to1 ft 4 in (0.35 to 0.40 m)
	Demolition of concrete pavement: Case 3 Detail	1 ft 4 in to 1 ft 6 in (0.40 to 0.45 m)
	Cold milling of bituminous asphalt pavement	2 in (0.05 m)
	Demolition of two gazebos on José de Diego Avenue	12 in (0.30 m)
	Demolition and decommission of existing steel pipe	2 to 4 in (0.05 to 0.1 m)
	Demolition and decommission of existing street signs	3 ft (0.92 m)
	Demolition of existing planters	No ground disturbance
Repair/ Rehabilitation	Rehabilitation of existing inlets (1.a.i)	No ground disturbance
	Cleaning of existing inlet structures	No ground disturbance
	Existing manholes to be adjusted to final grade	No ground disturbance
	Existing and new storm sewer inlets to be adjusted to final grade	No ground disturbance
New Construction	Excavation for new asphalt pavement including underlying asphalt and aggregate base courses	1 ft (0.30 m)
	Excavation for new concrete pavement including underlying aggregate base	1 ft to 1 ft 6 in (0.30 to 0.45 m)
	Excavation for new concrete curbs	1 ft 2 in (0.35 m)
	Excavation for new concrete gutters	1 ft 8 in (0.50 m)
	Excavation for new silt fencing for erosion control (temporary)	4 in (0.10 m)
	Excavation for the replacement of existing inlets (1.b.i)	9 ft 2 in (2.80 m)
	Excavation for new street signs	3 ft (0.92 m)
	Excavation for new bollards	8 in (0.20 m)
	Excavation for new Pole Cantilever Mounted LED Light Poles	3 ft (0.91 m)

The activity with the deepest amount of ground disturbance is the replacement of existing inlets, which will require an excavation of 9ft 2in below grade. Through the Section 106 compliance process, only those inlets located on José de Diego Avenue are proposed to be replaced entirely requiring the stated ground disturbance. The remainder will be rehabilitated in ways that do not require new ground disturbance. There are seven (7) different improvement activities across a total of fifty-one (51) storm sewer inlets that are outlined below by street (Table 2). Details for the inlets can be found on Drawing C700 of the design plans.

Proposed storm sewer inlet rehabilitation activities are as follows:

1) Rehabilitation of twenty-nine (29) existing storm sewer inlets:
   a) Antonio R Barceló, Ramón E. Betances, Gonzalo Marín, Ariosto Cruz Streets

[2] All demolition activities are limited to the extent of previous ground disturbance and will not result in any new ground disturbance.

i) Rehabilitation of existing inlets. Removal of grate and frame to replace with a new grate and frame.
ii) Top of inlet to be adjusted to final grade. Existing inlet structure and pipes will remain.
iii) Reconstruction of curb and gutter as shown in design plan details.
iv) Cleaning of existing structures – cleaning of inlets and pipes (removal of sediments and debris)

2) Removal of twenty-two (22) and replacement of nineteen (19) existing storm sewer inlets:
   a) José de Diego Avenue
      i) Removal and replacement of existing inlet. Top to be adjusted to final grade.
      ii) Invert elevations and existing pipes will remain.
      iii) Cleaning of existing structures – cleaning of inlets and pipes (removal of sediments and debris)

Table 2. Proposed Storm Sewer Inlet Rehabilitation Activities by Street

Street	Plan Number	Inlet Frame and Grate to be Replaced[3]	Inlet to be Cleaned and Repaired	Inlet to be Removed and Replaced[3]	Inlet to be Removed	Inlet Frame and Grate to be Replaced[3]	Cross Grate Frame and Grate to be Replaced[3]	CB Clogged with Dirt
Antonio R. Barceló Street	C200 – C201	3	-	-	-	1	-	-
José de Diego Avenue	C202 – C204	1	4	19	3	-	3	-
Betances Street	C205	2	-	-	-	-	-	-
Gonzalo Marín Street	C206 – C207	2	-	-	-	-	-	1
Ariosto Cruz Street	C208 – C209	10	-	-	-	-	-	2
Total		18	4	19	3	1	3	3

In general, proposed construction activities have less than two feet of ground disturbance and are within the previous extent of ground disturbance. The exception to this are the proposed inlet and light pole replacements on José de Diego Avenue, which will require 2.8 m and 0.91 m respectively.

[3] Top to be adjusted to final grade of street.

Archaeological Evaluation and Monitoring Procedure

The objectives of this archaeological monitoring plan are: (1) to establish measures to prevent direct adverse effects on historic properties; (2) to establish the protocol to be followed by the monitor and construction crew before, during, and after construction; (3) to establish the protocol to be followed in the event of an inadvertent discovery of archaeological resources; (4) to establish the protocol to be followed in the event of an inadvertent discovery of human remains; (5) to outline the documentation required and relevant timelines for deliverables; and lastly (6) to ensure the protection of cultural resources throughout the proposed scope of work. The monitoring activities are divided into three groups: activities before the project begins, activities during construction, and post-construction activities. Monitoring is limited to ground-disturbing activities such as the demolition and new construction activities defined in the previous section and the design plans. Those activities that do not require ground disturbance do not require an archaeological monitor. The monitor shall not defer their monitoring responsibilities to any other person who does not meet the minimum professional qualifications outlined in the Professional Qualifications section.

Sites

The background research on historic properties performed as part of the Section 106 EDF identified that there are both prehistoric and historic archaeological resources within the APE (Figure 3). The resources identified in Arecibo TUC are El Caney (IPRC AR-5, PRSHPO# AR100005), the Arecibo Historic Streets or *Calles Históricas* (IPRC# AR-48-D), and the Arecibo Storm Sewer System or *Sistema Pluvial* (IPRC AR-48-H). Each site will be discussed below in terms of the spatial location in relation to the APE and the types of expected resources.

<u>El Caney</u>

El Caney is a large NRHP-eligible habitation site that is located approximately within the eastern portion of the APE. Potential prehistoric artifacts include but are not limited to the three documented stages of occupation of agricultural peoples, including ceramics of the Cuevas style of the Saladoid series, the Modified Ostiones or Santa Elena styles of the Ostionoid series, and the Capá style of the Chicoid series (Rouse 1992), shells, groundstone tools such as polishing stones, manos and metates, bifacially flaked-stone tools such as scrapers, and debitage related to the lithic reduction process such as flakes and shatter. Potential prehistoric features include but are not limited to charcoal or ash-stained soils, middens, and post-holes

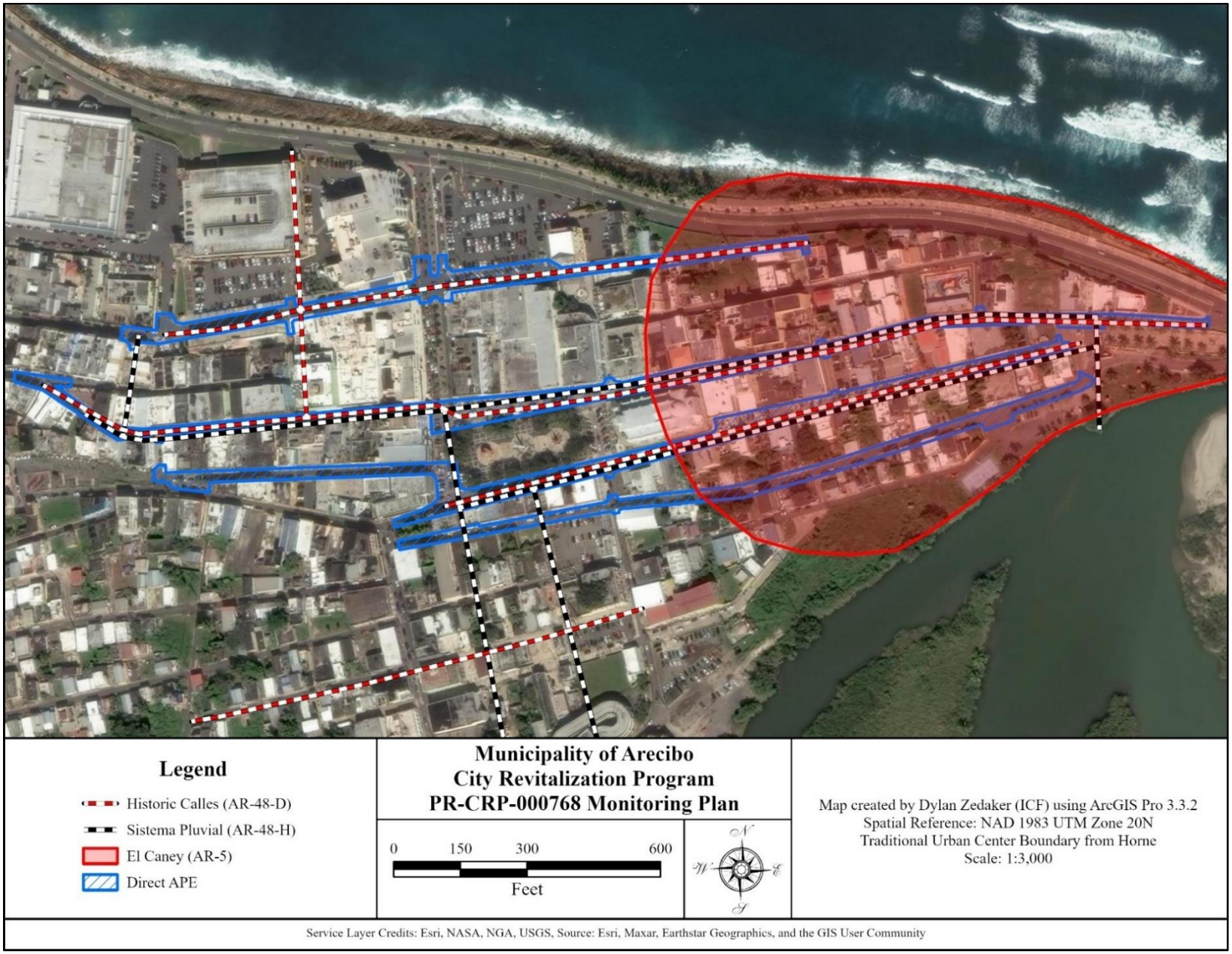


Figure 4. Known Archaeological Sites within the Direct APE

There are additional considerations for the presence of human remains (historic and prehistoric) throughout the entirety of the Arecibo TUC, but especially within the site boundary of El Caney. Numerous archaeological studies have encountered and documented human remains during subsurface testing of the site. An early excavation of El Caney was performed by José R. Oliver Aresti in his unpublished manuscript "*Contributions to the history of Arecibo: the "foundation" or "non-foundation" of Arecibo"* from December 1951. The study aimed to determine the geospatial location and temporal/ cultural affiliations of El Caney's inhabitants. To answer these research questions, excavations were performed around the eastern portion of the Arecibo TUC and due to the large volume of urban pavements that blocked excavation, access to recently emptied lots were leveraged to test subsurface soils. AR-I located at #23 José de Diego Avenue, AR-III located at #57 José de Diego Avenue and #58 José de Diego Avenue, and AR-IV located at today's Plaza del Fuerte encountered human remains during excavation. According to Aresti, AR-I identified Taino burials that represented a Taino Necropolis; AR-III identified both historic and prehistoric burials and confirmed the location of the Cemetery of the Hermitage of San Felipe; and AR-IV identified prehistoric Taino burials.

Additional studies relevant to the discussion of potential for human remains within the APE were excavations performed at the Cancha Lincoln Basketball Court in 1991, 1992, and 1993 by Harry E. Alemán Crespo, Jaime G. Vélez, and María A. Cashion Lugo, and Juan Gonzalez Colon (SHPO #04-22-91-01). During the Phase II archaeological survey, human burials were encountered in units 5 and 6 resulting in the end of construction of the new basketball court. These burials were found ranging in depths from 0.60 m below surface to 2.10 m below surface. Of note is that the burials were recovered in-situ and fully articulated. The underlying soil taphonomy is well-suited for the preservation of bone resulting in the increased possibility of encountering human remains throughout El Caney and the Direct APE.

Historic Streets (*Calles Históricas*)

The Arecibo *Calles Históricas* are an NRHP-Eligible site containing intact portions of 19th Spanish Colonial pavements and is intermixed with displaced prehistoric materials. Potential historic artifacts include but are not limited to construction materials related to the historic roads and prehistoric artifacts may include all of the same artifact types/classes from El Caney except that they have been displaced from their original context for use as fill.

Storm Sewer System (*Sistema Pluvial*)

The Arecibo *Sistema Pluvial* is an NRHP-Eligible tunnel system that underlies much of the Arecibo TUC. Potential historic artifacts include but are not limited to brick and debris from previous urban development. Portions of the tunnel system were documented during the 1990s from Phase I, II, and III archaeological excavations (SHPO# 06-04-90-08) of the western portion of José de Diego Avenue. Additionally, during the Cancha Lincoln Basketball Court excavations (SHPO #04-22-91-01), the roof of a section of the underground vaulted-brick tunnel system was encountered in Unit 3. These findings demonstrate the potential to encounter the tunnel system throughout the Arecibo TUC and the direct APE.

Archaeological Evaluation

It is important to distinguish between the treatment of expected finds (for which the plan is being implemented) and historically significant archaeological resources. Expected finds for this project include displaced prehistoric artifacts located in highly disturbed contexts. However, it is important that the Archaeological Monitor make the determination between displaced artifact-containing soils and intact prehistoric deposits related to El Caney. Displaced and out of context artifact-containing fill soils will be treated as expected finds, whereas stratified artifact-containing deposits will be treated as historically significant archaeological resources. Additionally, previous iterations of the modern streets and sidewalks will be treated as expected finds. Lastly, the 19th century Spanish Colonial pavements associated with *Calles Históricas* are to be treated as expected finds. If encountered, expected finds will be documented immediately and then follow the course of the project without triggering consultation with the PRSHPO. The documentation of expected finds shall include a description of the discovery, location, horizontal and vertical extent (if known), context, photographs, and drawings including a site plan.

Known historically significant archaeological resources for this project include but are not limited to intact prehistoric deposits related to El Caney and the *Sistema Pluvial* vaulted brick tunnel system. Additionally, the discovery of an unknown prehistoric site, complex structures, remains of unknown household structures and their associated middens or stratified deposits underlying the existing pavements will be treated as historically significant resources. If encountered, historically significant finds shall follow the inadvertent discovery plan process outlined in bullet B.6 of the following Monitoring Procedure section. Lastly, there is the potential for human remains in the form of historic and prehistoric burials within the direct APE. If encountered, human remains will trigger the inadvertent discovery plan process outlined in bullet D of the following Monitoring Procedure section.

Monitoring Procedure

The construction crew must coordinate with the archaeological monitor and ensure access during these excavations. Depending on all applicable construction safety regulations, the archaeological monitor will require either direct access to the excavation or direct access to the excavated soil to ensure archaeological resources are not being impacted. The soil will need to be removed in increments that are manageable for evaluation and testing by the archaeological monitor. This is to ensure that a large volume of soil is not excavated all at once, which would not allow for a thorough analysis by the archaeological monitor. The construction crew is to follow the directions of the archaeological monitor in terms of the pace of the excavation and volume of soil removed. If any member of the construction crew sees potential archaeological resources during any phase of construction, they shall call a stop work until the monitor has been able to assess the validity and eligibility of the potential archaeological resources.

A) <u>Before Construction Begins</u>

1. The Municipality and Construction Manager (CM) will notify the Project Manager (PM), Grant Manager (GM), and SOI-qualified archaeological monitor (monitor) of the proposed activities' start date. The PM is responsible for coordination between the CM and monitor. The GM shall notify the PRSHPO of the start date of the project and of the archaeologist who will be conducting the monitoring.
2. Before any demolition or construction begins, the Municipality, PM, CM, GM, and monitor will have a kickoff meeting to discuss the procedure for archaeological monitoring, including the coordination protocol between the monitor and the CM. The monitor will provide an orientation on the area's cultural resources and their proper treatment. The monitor will also explain to construction staff which project activities require archaeological monitoring.
3. The Municipality, CM, PM, and construction crew will complete and sign a statement outlining the activities that may not be performed without the monitor's presence, demonstrating their understanding and commitment to following the archaeological monitoring procedures.
4. The CM will ensure that all personnel in the field are aware that the monitor can provide instructions directly to the construction field crew personnel concerning how to proceed when there is the potential to impact an archaeological resource. The construction field personnel will abide by these requests' examples of which include excavating slowly, stopping the excavation to evaluate a finding, etc.

B) During Demolition and Construction

1. The monitor shall be in the field during all ground-disturbing activities (See Table 1) with full access and clear sightlines. If ground-disturbing work is conducted in multiple locations simultaneously, then a monitor shall be present at each site. Therefore, the number of monitors required in the field will vary based on the number of locations where ground-disturbing work is occurring.
2. The monitor shall provide instructions directly to the construction field personnel concerning how to proceed when there is the potential to impact an archaeological resource. The construction field personnel shall abide by these requests and exercise caution when excavating in areas that may contain buried archaeological resources.
3. The Monitor shall keep a record of monitored activities. The monitor shall fill out the Daily Record of Activities Form (see Appendix B). These forms shall be sent weekly to the GM for review and will be included in the final report.
4. After the demolition and removal of surfaces, the monitor shall document any exposed subsurface feature and shall complete a scale plan drawing. The amount, size, and placement of excavation units needed to document the features, if any, shall depend on the size and complexity of the feature being documented. If necessary to understand the context of the identified resource, the monitor should conduct archival research of primary sources (like previous project files, newspapers, journals), cartographic sources, and historical images.
5. The monitor shall document all other archaeological remains identified during construction activities, except for previously unidentified historically significant findings. The documentation shall include a detailed description of the discovery, context, horizontal and vertical provenience, photos, and a plan drawing. This documentation shall be done within a reasonable amount of time, trying not to impact on the project schedule as much as possible.
6. If historically significant archaeological materials are encountered, per stipulations III.B.1.a. and III.B.1.b of the PA, an inadvertent discovery plan shall be implemented and the monitor shall instruct the construction crew to immediately cease work within the vicinity of the inadvertent discovery; take all reasonable measures to avoid or minimize harm to the property; notify the Municipality, PM, CM, and GM of which the GM shall immediately notify the PRSHPO; and adhere to the following protocol:
    i. The monitor shall make a preliminary assessment in an

Inadvertent Discovery Report. The assessment shall include a description of the discovery, location, horizontal and vertical extent (if known), context, photographs, and drawings including a site plan. Additionally, the assessment shall include an NRHP-eligibility determination. Lastly, the assessment shall also implement a work plan for continuing construction in recognition of the inadvertent discovery.

ii. The Inadvertent Discovery Report shall be submitted via email to the PM and GM within 24 hours of the discovery. Construction shall not continue in the vicinity of the inadvertent discovery until the following steps have been completed and the PRSHPO has concurred with the NRHP-eligibility determination.

1. The GM shall notify the PRSHPO of the NRHP-eligibility determination. If the finding is **not eligible** to the NRHP, the GM shall notify the PRSHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the PRSHPO disagrees with the NRHP determination and makes a timely objection within 48 hours of notification.
2. If the finding is **eligible** to the NRHP, the criteria of adverse effect shall be applied. If the project activities do not adversely affect the finding, the GM shall notify the PRSHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the PRSHPO makes a timely objection within 48 hours of the notification.
3. If the project activities have an **adverse effect** on the NRHP-eligible finding, a data recovery plan will be implemented as a treatment measure per Appendix F.H of the PA. The monitor shall develop a data recovery plan with a research design consistent with the Secretary of the Interior's Guidelines for Archeological Documentation (NPS 1983) and the Advisory Council on Historic Preservation's (ACHP 2009) recommendations on the recovery of significant information from archaeological sites. The data recovery plan and research design shall be submitted to the GM for comments, who after review shall submit the plan to the PRSHPO for comments and approval. The PRSHPO shall have two

weeks to comment on the data recovery plan. This treatment measure does not apply to burials or human remains.

4. PRDOH in consultation with the PM, GM and Municipality shall determine a specific plan for the curation of artifacts, field and lab records in accordance with the provisions of 36 CFR Part 79, per stipulation III.C.2.a. of the PA.

7. 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 monitor will provide recommendations on how to avoid, minimize, or mitigate the adverse effect. These recommendations will be consulted with the PRSHPO prior to implementation. The PRSHPO will have fifteen days to comment on the recommendations. If no communication is received within that time frame it will be assumed that the PRSHPO has no objection and concurs with the recommendations outlined.
8. If during construction activities a known historic property is affected in an unanticipated manner, the CM shall stop work immediately, and inform the Municipality, PM, GM. The monitor, in conjunction with GM, shall evaluate the unanticipated effects and apply the adverse effect criteria within no more than 24 hours. If the effect is determined to be adverse, the monitor and GM will provide recommendations on how to avoid, minimize, or mitigate such adverse effects. The GM shall consult with the PRSHPO prior to implementation. The PRSHPO will have 48 hours to comment on the recommendations. If no communication is received within that timeframe, it will be understood that the PRSHPO has no objection and concurs with the recommendations outlined.

C) <u>After Construction Ends</u>

1. Upon the completion of archaeological monitoring, the Municipality, PM and GM shall be notified. The PM shall be responsible for submitting the last weekly report to the GM, who after review will forward it to the PRSHPO.
2. A technical report shall be prepared detailing monitored construction activities, documentation for archaeological features or other findings, location of temporary curatorial repository for any artifacts, and analysis and interpretation of the results. The report must include visual

information, such as drawings, photographs, an overview map of the APE with all archaeological resources encountered plotted on the map to scale, and sketch maps of any archaeological features. The report shall be submitted to the GM no later than four to eight weeks after completing the archaeological monitoring work. The GM shall submit the report to the PRSHPO no later than one (1) week after receiving it.

D) Human Remains

If any member of the construction team believes an inadvertent discovery involving possible human remains has occurred, they shall call a stop work in the immediate vicinity and notify the monitor. The archaeological monitor must adhere to the following protocol:

1. Stop working immediately.
2. Project personnel should not take photographs of potential remains and the remains should be treated with dignity and respect, left in situ and protected from further disturbance or harm.
3. Per stipulation III.B.1.a. and III.B.1.b of the PA, the monitor shall immediately notify the local law enforcement office and the coroner/ medical examiner, following applicable Commonwealth statute(s).
4. The monitor shall notify the GM who in turn shall notify the PRSHPO within 24 hours of identifying human remains.
5. The coroner or law enforcement office will make the official ruling on the nature of whether the remains are forensic or archaeological.
6. If the remains are determined to be archaeological in nature, then per stipulation III.B.1.d.iii. of the PA, subsequent actions concerning the remains shall follow the guidelines outlined in the ACHP's *Policy Statement Regarding the Treatment of Burial Sites, Human Remains, and Funerary Objects* (ACHP 2023).
7. The decision concerning whether to mitigate potential impacts to the remains by avoidance, or whether to disinter the remains for reinterment in a new location shall be made by the GM in consultation with the PRSHPO and shall be consistent with all applicable state statutes and regulations.
8. Construction shall not continue in the area around the human remains as determined by the archaeological monitor until a determination from the GM and PRSHPO has been made, and the plan has been executed on-site by the archaeological monitor.

Summary of Anticipated Products

Daily Monitoring Record of Activities Form – This form should include a description of daily tasks completed including but not limited to demolition activities, construction activities, and their results. It should be completed daily and compiled weekly for submission to the PM and GM for review.

Inadvertent Discovery Report – This report should include identification of any historically significant findings, their location, a detailed description, context, provenience, photos, to-scale plan drawing, the integrity and importance of the findings, and clear recommendations for eligibility status. This shall be submitted to the PM and GM within 48 hours of the inadvertent discovery.

Archaeological Monitoring Plan Final Report – The final report will include the following sections at a minimum: Introduction, Methods, Results, Discussion, and Conclusion. Additionally, the report shall include any relevant photographs of artifacts, features, fieldwork and any relevant maps that show the location of any archaeological resources encountered. Lastly, all fieldwork paperwork such as the Daily Record of Activities Forms, Weekly Reports, and Inadvertent Discovery Reports shall be included and the results summarized in the report. The final report shall be submitted to the PM and GM no later than four to eight weeks after completion of the archaeological monitoring work. The GM shall review the report and submit it to the PRSHPO no later than one week after receiving it.

Professional Qualifications

The monitor(s) must meet the minimum Secretary of the Interior Professional Qualifications Standards for Archaeology established in 36 CFR Part 61 (NPS 1983). These are: a graduate degree in archaeology, anthropology, or closely related field; at least one (1) year of full-time professional experience or equivalent specialized training in archaeological research, administration, or management; at least four (4) months of supervised field and analytic experience in general Puerto Rican archaeology; the demonstrated ability to carry research to completion; and at least one (1) year of full-time professional experience at a supervisory level in the study of archaeological resources of the historic period.

References

Advisory Council on Historic Preservation (ACHP)

2023 Policy Statement Regarding the Treatment of Burial Sites, Human Remains, and Funerary Objects. ACHP, Washington, DC. https://www.achp.gov/digital-library-section-106-landing/achp-policy-statement-burial-sites-human-remains-and-funerary

2009 Section 106 Archaeology Guidance. ACHP, Washington, DC https://www.achp.gov/protecting-historic-properties/Section_106_Archaeology_Guidance

BR&A LLC

2025 PR-CRP-000768 90% Design Plans for Urban Center Street and Sidewalk Restoration – Municipality of Arecibo

Federal Emergency Management Agency

2019 Second Amendment to Programmatic Agreement among the Federal Emergency Management Agency, the Puerto Rico State Historic Preservation Officer, and the Puerto Rico Central Office for Recovery, Reconstruction and Resiliency.

National Park Service

1983 Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines for Archaeological Documentation. https://www.nps.gov/subjects/historicpreservation/upload/standards-guidelines-archeology-historic-preservation.pdf

Puerto Rico Department of Transportation and Public Works.

2025, Geographic Information Systems Office, Puerto Rico Highway and Transportation Authority. Electronic Document. https://fotosaereas.dtop.pr.gov/apps/Shop_ACTGIS/ accessed February 9, 2025.

Rouse, Irving

1992, The Tainos: The Rise and Decline of the People who Greeted Columbus. New Haven (CT) Yale University Press, Figure 14

Sueiro-Vázquez, Berenice, Arleen Pabón-Charneco, Dylan Zedaker and Karen Anderson-Córdova

2025 Puerto Rico 2017 Disaster Recovery, CDBG-DR Program. City Revitalization Program (City-Rev) Section 106 NHPA Effect Determination Form entitled Improvements and Revitalization of Betances, Gonzalo Marín, José de Diego, Antonio R. Barceló, and Ariosto Cruz Streets in the Urban Center (PR-CRP-000768).

United States Geological Service.
2025, USGS Earth Explorer Historic Aerial Image Database. Electronic document. https://earthexplorer.usgs.gov/ accessed March 3, 2025.

Appendices

Appendix A: SHPO Concurrence Letter

OFICINA ESTATAL DE
CONSERVACIÓN HISTÓRICA
GOBIERNO DE PUERTO RICO
Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Thursday, June 26, 2025

Lauren B Poche

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

SHPO-CF-05-27-25-02 PR-CRP-000768 (Arecibo), Improvements of Streets in the Urban Center

Dear Ms. Poche,

Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation.

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

1. Archaeological monitoring during all ground-disturbing activities. Please provide us with an archaeological monitoring plan, for our review and concurrence, prior to implementation.

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/ MB

SHPO OFICINA ESTATAL DE CONSERVACIÓN HISTÓRICA OFICINA DEL GOBERNADOR
STATE HISTORIC PRESERVATION OFFICE OFFICE OF THE GOVERNOR
OECH
Cuartel de Ballajá (Tercer Piso), Calle Norzagaray, Esq. Beneficencia, Viejo San Juan, PR 00901 | PO Box 9023935, San Juan, PR 00902-3935
787.721.3737 oech.pr.gov

Appendix B: Monitoring Daily Activity Sheet

	PUERTO RICO 2017 DISASTER RECOVERY **City Revitalization Program** **ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES**
Case ID:	**Project Location:**
Municipality:	**Project Coordinates** (lat/long)**:**

SOI Qualified-Archaeologist:
Date of Monitoring: Click or tap to enter a date.
Work Hours:

Description of work performed by contractor and supervised by the Monitor:

	YES	NO
Was an archaeological remain documented during the day. If yes, include required information below.	☐	☐
Was an exceptional archaeological remain identified during the day? If yes, explain below.	☐	☐
Have the construction activities affected a previously unidentified property or a known historic property in an unanticipated manner? If yes, explain below.	☐	☐
Has there been a change in the scope of work of the project? If yes, explain below.	☐	☐

	PUERTO RICO 2017 DISASTER RECOVERY **City Revitalization Program** ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES
Case ID:	**Project Location:**
Municipality:	**Project Coordinates** (lat/long):

Site Photos	
Direction of Photo: **Description:**	
Direction of Photo: **Description:**	

Appendix C: 90 Percent Design Plans

OFICINA ESTATAL DE
CONSERVACIÓN
HISTÓRICA
GOBIERNO DE PUERTO RICO
Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Thursday, June 26, 2025

Lauren B Poche

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

SHPO-CF-05-27-25-02 PR-CRP-000768 (Arecibo), Improvements of Streets in the Urban Center

Dear Ms. Poche,

Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation.

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

1. Archaeological monitoring during all ground-disturbing activities. Please provide us with an archaeological monitoring plan, for our review and concurrence, prior to implementation.

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/ MB

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

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

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

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

Cordially,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery

5/27/2025

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

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program

Section 106 NHPA Effect Determination Submittal for PR-CRP-000768, Improvements and Revitalization of Betances and Gonzalo Marin Streets, Jose De Diego, Antonio R. Barcelo and Ariosto Streets in the Urban Center, Arecibo, Puerto Rico – *No Adverse Effect, Conditioned*

Dear Architect Rubio Cancela,

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

On behalf of PRDOH, HORNE is submitting documentation for the proposed Improvements and Revitalization of Betances and Gonzalo Marin Streets, Jose De Diego, Antonio R. Barcelo and

Ariosto Streets in the Urban Center. The Municipality of Arecibo proposes to rehabilitate the Arecibo Traditional Urban Center (TUC) streets, sidewalks, lighting and drainage system to conform to modern access standards, and to clear and clean the existing storm sewer inlets to avoid future flooding events. The full scope of the project is described in the submitted documentation, which includes mapping, photographs, and 90% design plans.

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

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

Kindest regards,

Lauren Bair Poche. M.A.
Architectural Historian, EHP Senior Manager
LPB/KPS

Attachments

PR-CRP-000768

Improvements and Revitalization of Betances and Gonzalo Marin Streets, Jose De Diego, Antonio R. Barcelo and Ariosto Streets in the Urban Center

Arecibo, 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**	DEPARTMENT OF HOUSING GOVERNMENT OF PUERTO RICO
Subrecipient: Municipality of Arecibo	
Case ID: PR-CRP-000768	
Project Name: Improvements and Revitalization of Betances, Gonzalo Marín, José de Diego, Antonio R. Barceló, and Ariosto Cruz Streets in the Urban Center	**City**: Arecibo, Puerto Rico

Project Location: Antonio R. Barceló Street, José de Diego Avenue, Betances Street, Gonzalo Marín Street, and Ariosto Cruz Street on Pueblo Ward, Arecibo PR 00612	
Project Coordinates: Antonio R. Barceló Street (from 18.472655, -66.71855 to 18.473302, -66.714119); José de Diego Avenue (from 18.472366, -66.719238 to 18.47286, -66.711509); Betances Street (from 18.471791, -66.718323 to 18.471844, -66.716357); Gonzalo Marín Street (from 18.471507, -66.716758 to 18.472709, -66.7123403); Ariosto Cruz Street (from 18.471376, -66716727. to 18.472505, -66.712272); and Staging Area (18.473685, -66.72087)	
TPID (Número de Catastro): N/A	
Project Type:	**Type of Undertaking:**
☐ Building ☐ Plaza ☒ Streets and/or pedestrian facilities ☒ Utilities ☐ Park	☒ Rehabilitation/Repair ☐ Urban Renewal ☒ Demolition ☒ New Construction
Construction Date: 2nd half of the 18th century	**Property Size** (acres): 6.15

SOI-Qualified Architect/Architectural Historian: Berenice Sueiro-Vázquez B Arch and Arleen Pabón-Charneco PhD JD
Date Reviewed: 5/12/2025
SOI-Qualified Archaeologist: Dylan Zedaker, M.A.
Date Reviewed: 5/12/2025
SOI-Qualified Reviewers: Karen Anderson-Córdova, PhD and Carmen-Marla López, Historic Architect
Date Reviewed: 5/15/2025

In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the National Register of Historic Places (NRHP) and any properties not listed that would be considered eligible for listing that are located within the geographic area of potential effects (APE) of the proposed project and assessing the potential effects of its undertakings on these historic properties. It has been determined by the SOI-qualified professionals that the project undertaking does not conform to Stipulation II.A (Project Review – Programmatic Allowances) of the Section 106 Programmatic Agreement (PA) among FEMA, SHPO, and COR3, as amended (May 3, 2023).[1]

Project Description (Undertaking)

The Municipality of Arecibo, assisted by the Puerto Rico Department of Housing (Departamento de la Vivienda de Puerto Rico) (PRDOH) and the Puerto Rico 2017 Disaster

[1] Previous Section 106 NHPA Effect Determination Forms (EDFs), prepared by Dr Jorge Lizardi Pollock and Dr Jesus E. Vega, were reviewed by the Program on 24 November 2023, 8 February 2024, 26 June 2024, and 8 August 2024. The present EDF, prepared by ICF and Historic Compliance Consulting (HCC), is a new document based on updated project scope, new background research, and new interpretative activities. This EDF includes field photos taken during a field visit (11/4/23) carried out by Dr Lizardi and Dr Vega. HCC prepared the Historic Context and the Architecture sections (Identification and Determination). ICF prepared the Project Description, APE, Environmental Context, Historic Context and Archaeological (Identification and Determination) sections.

Recovery, CDBG-DR Program - City Revitalization Program (Programa de Revitalización de la Ciudad del Gobierno Federal) (CITY-REV), proposes to rehabilitate the Arecibo Traditional Urban Center (TUC) streets, sidewalks, lighting and drainage system. The project description and details in this section were provided by the designer, BR&A LLC, who produced the design plans (See "Project Architectural Plans, PR-CRP-000768 Urban Center Street and Sidewalk Restoration, Arecibo, Puerto Rico – 90% Design Drawings-Revised dated 2/28/2025").

As a result of Hurricanes Irma and María, the Arecibo TUC streets and sidewalks were flooded with water and debris and remained flooded for multiple consecutive days resulting in serious infrastructure damage to nearby stores, offices, and restaurants. The storm sewer system was overloaded and subsequently clogged with debris due to the immense movement of sediment related to this flood event. The Arecibo Municipality proposes to repair and improve the Arecibo TUC streets, sidewalks, lighting and drainage to conform to modern access standards, and to clear and clean the existing storm sewer inlets to avoid future flooding events.

Additionally, the rehabilitation of Arecibo TUC streets and sidewalks will create a more aesthetically pleasing and accessible downtown environment that will enhance the quality of life of the Arecibo Municipality residents and visitors. By incorporating recreational, cultural, and social areas, the site will serve as a multifunctional urban hub, fostering community engagement and well-being.

This project is located within the Arecibo TUC– as established by the Puerto Rico State Historic Preservation Office (PRSHPO) – bounded by Antonio González Street on the north, José "Cheo" González and Juan R Figueroa Streets, on the east, José A Monrozeau Street on the southeast, and Mirta Silva Street on the southwest. The project encompasses primarily Antonio R. Barceló Street, José de Diego Avenue, Betances Street, Gonzalo Marín Street, and Ariosto Cruz Street and includes the roadway, curbs, sidewalks, light poles and storm sewer inlets on these streets (Figure 1; Table 1). The proposed rehabilitation project has three principal goals: strategic geometry changes of the streets and sidewalks that will result in wider sidewalks, additional parallel roadside parking, and ramps compliant with the American with Disabilities Act (ADA), repaving of the urban streets and sidewalks, improved lighting of the sidewalks, and replacement and cleaning of the underlying storm sewer system to facilitate improved water drainage of the Arecibo TUC.

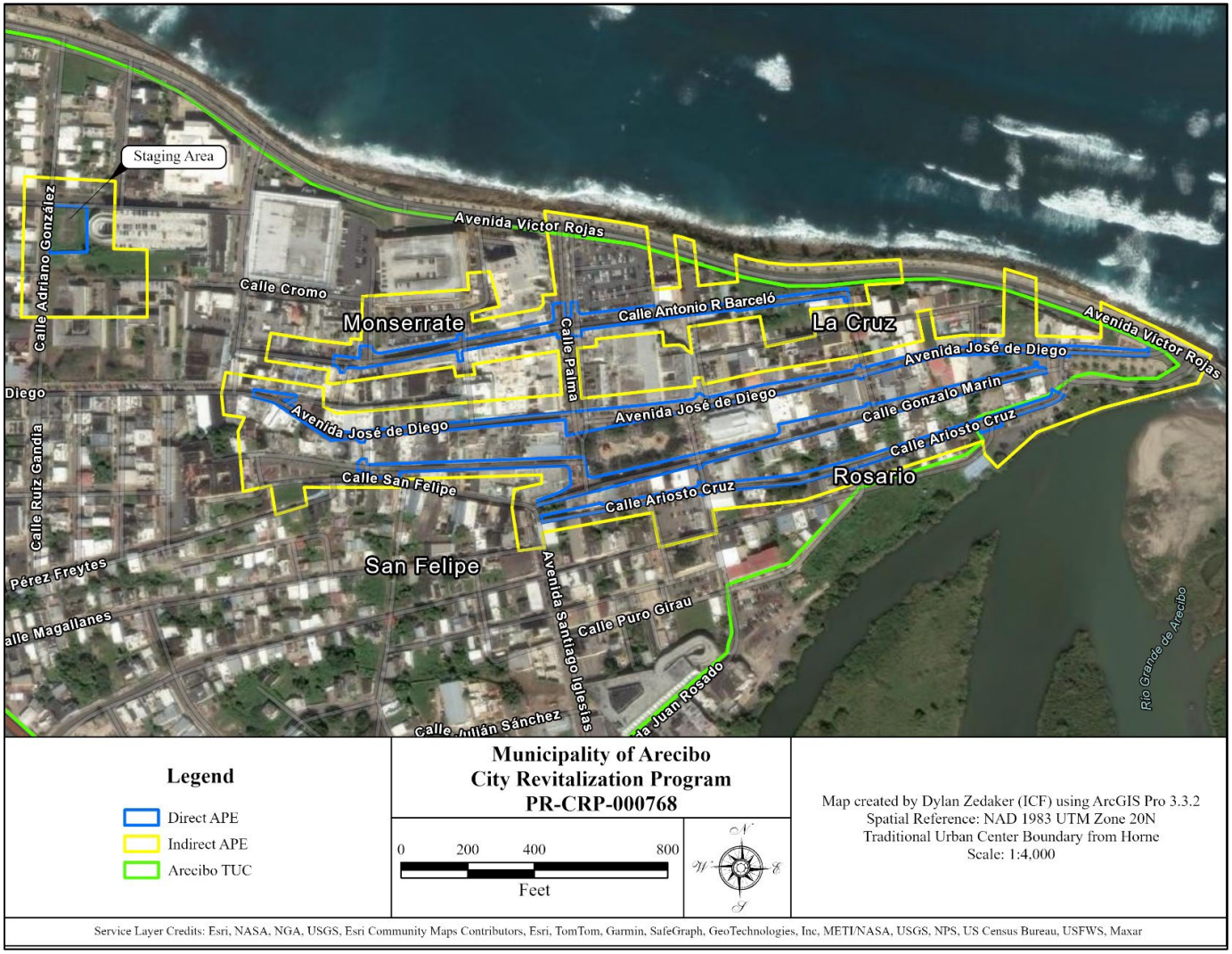


Figure 1. Project (Parcel) Location – Area of Potential Effect Map (Aerial)

Table 1. Proposed Street and Sidewalk Rehabilitation Materials and Lengths

Street	Material	Approximate Street Length	Approximate Sidewalk Length
Antonio R. Barceló Street	Asphalt	1526 ft (465m)	-
	Concrete Slab	-	1526 ft (465 m)
José de Diego Avenue	Asphalt	305 ft (93 m)	-
	Concrete Slab	2382 ft (726 m)	2687 ft (819 m)
Betances Street	Asphalt	607 ft (185 m)	-
	Concrete Slab	-	607 ft (185 m)
Gonzalo Marín Street	Concrete Slab	1493 ft (455 m)	1624 ft (495 m)
	Asphalt	131 ft (40 m)	-
Ariosto Cruz Street	Asphalt	1640 ft (500 m)	-
	Concrete Slab	-	1640 ft (500 m)

Given that Arecibo TUC is in a flood-prone area next to the Arecibo River system that exists to the east, the storm sewer inlets have several proposed improvements made to alleviate future flood risks. There are seven (7) different improvement activities across a total of fifty-one (51) storm sewer inlets that are outlined below by street (Table 2). Details for the inlets can be found on Drawing C700 of the design plans.

Proposed storm sewer inlet rehabilitation activities are as follows:

1) Modification of twenty-nine (29) existing storm sewer inlets:
   a) Antonio R Barceló, Ramón E. Betances, Gonzalo Marín, Ariosto Cruz Streets
      i) Rehabilitation of existing inlets. Removal of grate and frame to replace with a new grate and frame.
      ii) Top of inlet to be adjusted to final grade. Existing inlet structure and pipes will remain.
      iii) Reconstruction of curb and gutter as shown in design plan details.
      iv) Cleaning of existing structures – cleaning of inlets and pipes (removal of sediments and debris)
2) Removal of twenty-two (22) and replacement of nineteen (19) existing storm sewer inlets:
   a) José de Diego Avenue
      i) Removal and replacement of existing inlet. Top to be adjusted to final grade.
      ii) Invert elevations and existing pipes will remain.
      iii) Cleaning of existing structures – cleaning of inlets and pipes (removal of sediments and debris)

Table 2. Proposed Storm Sewer Inlet Rehabilitation Activities by Street

Street	Plan Number	Inlet Frame and Grate to be Replaced[2]	Inlet to be Cleaned and Repaired	Inlet to be Removed and Replaced[2]	Inlet to be Removed	Inlet Frame and Grate to be Replaced[2]	Cross Grate Frame and Grate to be Replaced[2]	CB Clogged with Dirt
Antonio R. Barceló Street	C200 – C201	3	-	-	-	1	-	-
José de Diego Avenue	C202 – C204	1	4	19	3	-	3	-
Betances Street	C205	2	-	-	-	-	-	-
Gonzalo Marín Street	C206 – C207	2	-	-	-	-	-	1
Ariosto Cruz Street	C208 – C209	10	-	-	-	-	-	2
Total		18	4	19	3	1	3	3

The project proposes the replacement of numerous light poles along José de Diego Avenue (Table 3). The existing light poles are to be replaced in the same location with new solar light poles with the concrete base being reused. Since the new lights are solar powered, the existing electrical conduits powering the current light poles will be abandoned. Details for the new light poles can be found on Drawing C703 of the design plans.

The proposed project consists of demolition activities, repair/rehabilitation activities, and new construction activities. The only activities that will have ground disturbance are demolition and new construction activities. The extent of ground disturbance for all activities are outlined below (Table 4). The extent of ground disturbance is outlined in both feet (ft) and inches (in) and in meters (m). The largest volume of demolition for this project is approximately 267,894 ft^3 (7,586 m^3) of asphalt and concrete from existing roads, sidewalks, curbs, and gutters.

[2] Top to be adjusted to final grade of street.

Table 3. Existing and Proposed Light Poles on José de Diego Avenue

Quantity to be Replaced	Pole Type	Pole Height	Concrete Base Depth	Concrete Base Dimensions	Conduit Trench Depth
23	Pole Cantilever Mounted LED	12 ft 4-5/8 in (3.8 m)	2 ft (0.61 m)	2 ft 6 in (0.76 m)	3 ft (0.91 m)

Table 4. Proposed Project Activities and Estimated Ground Disturbance

Activity	Description	Estimated Depth of Ground Disturbance
Demolition[3]	Demolition of existing sidewalks and handicap ramps	4 to 6 in (0.10 to 0.15 m)
	Demolition of existing curbs	1 ft 2 in (0.35 m)
	Demolition of existing gutters	1 ft 8 in (0.50 m)
	Demolition of concrete pavement: Case 1 Detail	1 ft to 1 ft 4 in (0.30 to 0.40 m)
	Demolition of concrete pavement: Case 2 Detail	1 ft 2 in to1 ft 4 in (0.35 to 0.40 m)
	Demolition of concrete pavement: Case 3 Detail	1 ft 4 in to 1 ft 6 in (0.40 to 0.45 m)
	Cold milling of bituminous asphalt pavement	2 in (0.05 m)
	Demolition of two gazebos on José de Diego Avenue	12 in (0.30 m)
	Demolition and decommission of existing steel pipe	2 to 4 in (0.05 to 0.1 m)
	Demolition and decommission of existing street signs	3 ft (0.92 m)
	Demolition of existing planters	No ground disturbance
Repair/ Rehabilitation	Rehabilitation of existing inlets (1.a.i)	No ground disturbance
	Cleaning of existing inlet structures	No ground disturbance
	Existing manholes to be adjusted to final grade	No ground disturbance
	Existing and new storm sewer inlets to be adjusted to final grade	No ground disturbance
New Construction	New asphalt pavement including underlying asphalt and aggregate base courses	1 ft (0.30 m)
	New concrete pavement including underlying aggregate base	1 ft to 1 ft 6 in (0.30 to 0.45 m)
	New concrete curbs	1 ft 2 in (0.35 m)
	New concrete gutters	1 ft 8 in (0.50 m)
	Installation of silt fencing for erosion control (temporary)	4 in (0.10 m)
	Replacement of existing inlets (1.b.i)	9 ft 2 in (2.80 m)
	Installation of new street signs	3 ft (0.92 m)
	Installation of new bollards	8 in (0.20 m)

The project area is composed of individually NRHP-listed and NRHP-eligible properties within the Arecibo TUC, which is a NRHP-eligible district. A more detailed breakdown of the Direct APE, Indirect APE, and the properties will be provided in subsequent sections of the Section 106 NHPA EDF.

[3] All demolition activities are limited to the extent of previous ground disturbance and will not result in any new ground disturbance.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the APE is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the Direct APE for this project consists of the streets and sidewalks that are being rehabilitated, which contains portions of Antonio R. Barceló Street, José de Diego Avenue, Betances Street, Gonzalo Marín Street, and Ariosto Cruz Street (see Figure 1). The Direct APE measures approximately 656 ft(200 m) east to west by 33 ft (10 m) north to south for Antonio R. Barceló Street, 2690 ft (820 m) east to west by 33 ft (10 m) north to south for José de Diego Avenue, 689 ft (210 m) east to west by 26 ft (8 m) north to south for Betances Street, 1575 (480 m) east to west by 39 ft (12 m) north to south for Gonzalo Marín Street, and 1608 ft (490 m) east to west by 26 ft (8 m) north to south for Ariosto Cruz Street. The total area for the Direct APE measures approximately 6.15 acres.

The staging area is considered part of the Direct APE, and it is located at the corner lot of Manuel Pérez Avilés Street to the north and Adriano González Street to the west (18.473699°, -66.720855°), approximately 0.14 miles northwest of the project area (see Figure 1). It is located on the western portion of parcel #012-075-118-14, a 1-acre (4,045.13 m²) lot. The western portion of this parcel consists of paved lot with a one-story concrete structure and bleachers that measures approximately 108 ft by 144 ft (33 m by 44 m) for a total of area of 0.35 acres (1,431 m²). Due to the distance from the staging area to the project area, the streets that make up the APE may be used as staging areas for work materials provided that the streets are properly cordoned off and separated from traffic areas.

The Indirect APE (view-shed) of the project extends along the lots on each side of Antonio R. Barceló Street, José de Diego Avenue, Betances Street, Gonzalo Marín Street, and Ariosto Cruz Street and measures approximately 2953 ft (900 m) east to west by 984 ft (300 m) north to south (See Figure 1). The built environment of the Indirect APE is a mix of residential, government, recreational, religious, and commercial properties. Due to the large footprint of this streets project, a substantial number of NRHP-listed and NRHP-eligible properties are within the Indirect APE. Additionally, the APE is contained within the Arecibo TUC, an eligible district for inclusion in the NRHP (Figures 2 and 3). An assessment of effects on both the individual properties and the Arecibo TUC will be thoroughly discussed in later sections of the EDF.

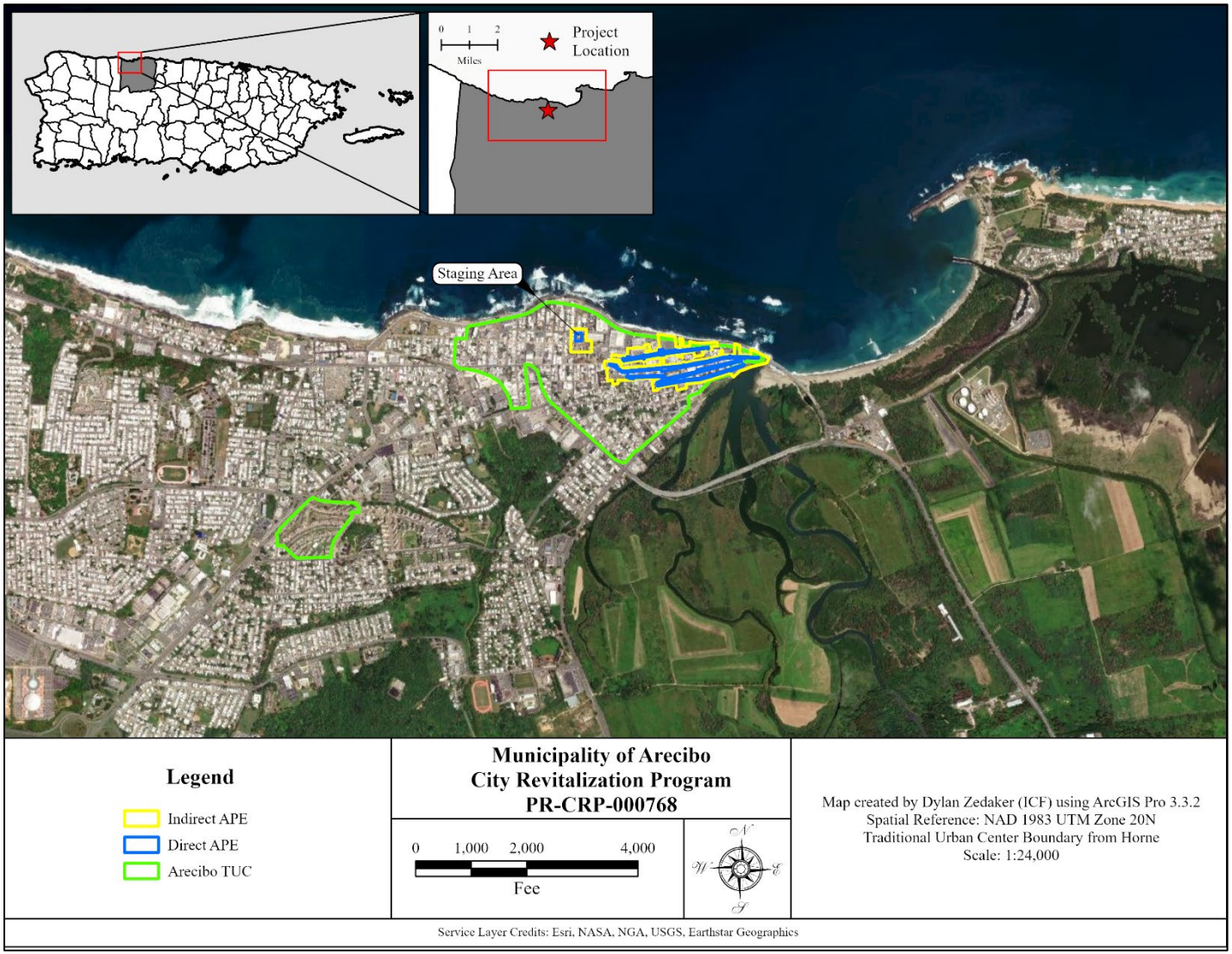


Figure 2. Project (Parcel) Location – Aerial Map

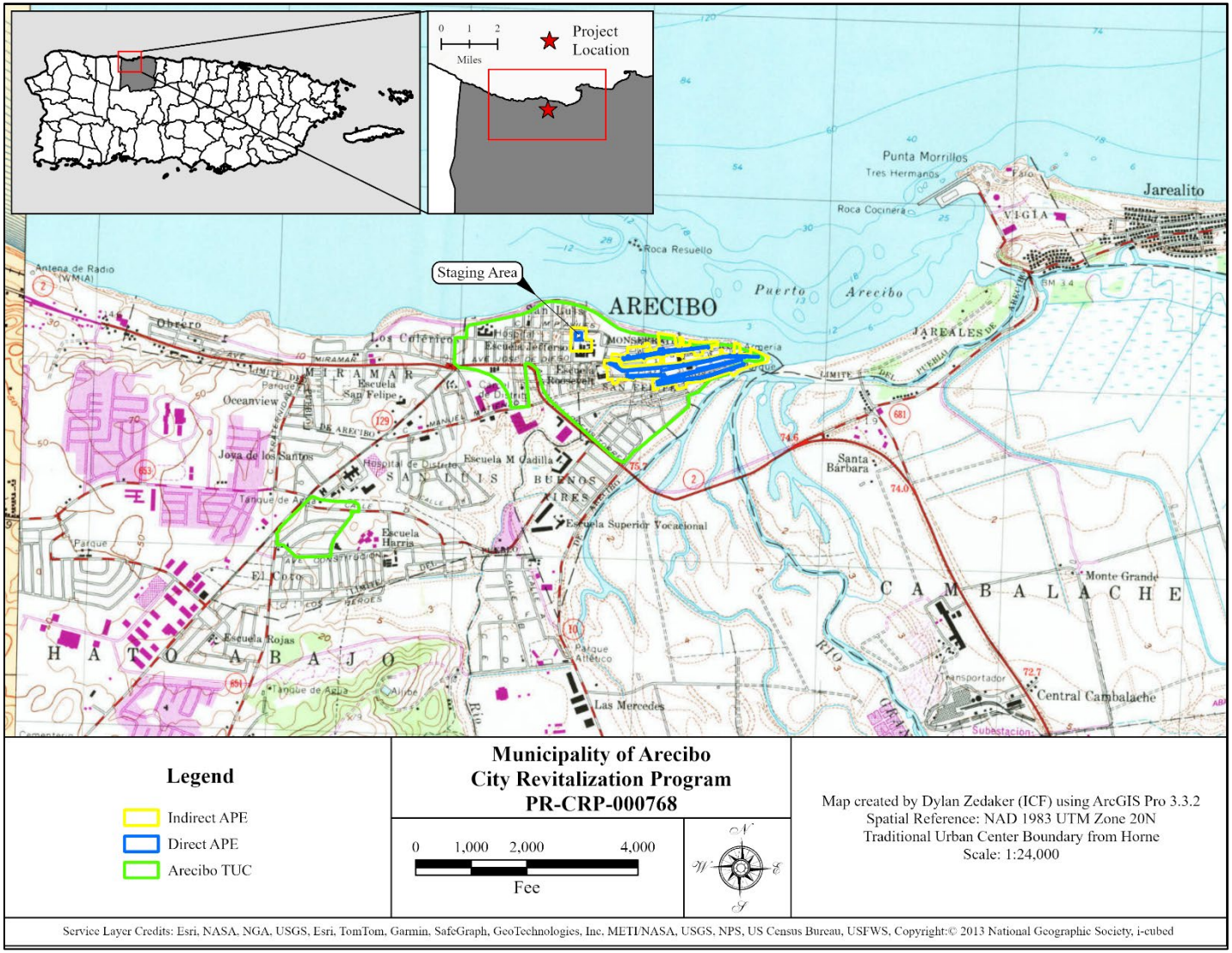


Figure 3. Project (Parcel) Location – USGS Topographic Map

Environmental Setting

The Arecibo Municipality is in the geomorphological region of Puerto Rico's northern coastal plain, an area that includes a variety of environments, such as: coastal fringe, alluvial valley, karst hills (mogotes), and small valleys located among karst hills. The coastal plain is limited to the south by high cemented dunes, followed by valley lowlands and interior alluvial valleys of the northern karst and limited to the North by the Atlantic Ocean. Arecibo sits at the mouth of the Arecibo River and is characterized by frequent flooding and significant deposition of sediment. This riverine environment provided ample resources for human settlement since early Prehistoric to Colonial times and indicates the potential for deeply buried archaeological resources.

Soil data in the APE was assessed and mapped based on the Web Soil Survey online database from the United States Department of Agriculture as shown in Figure 4 (USDA 2025). The soil within the APE is currently classified as urban soil (Ul-Urban land). This soil classification is true for the entirety of the developed portion of Arecibo. However, the development terminates at the Arecibo River, and soils to the east of the river are representative of the native soils that would have underlain Arecibo before urban development. These soils include Toa silty clay loam (To) a well-drained soil that is formed from stratified alluvium derived from igneous, metamorphic and sedimentary rock with 0 to 2 percent slopes; Coloso silty clay (Co) a somewhat poorly drained soil that is formed from stratified silty and clayey alluvium derived from volcanic and sedimentary rocks with 0 to 2 percent slopes; and Bajura clay (Ba) a poorly drained soil that is formed from clayey alluvium derived from igneous, metamorphic, and sedimentary rock with 0 to 2 percent slopes. All three of these soils have increasing clay content with depth, experience frequent flooding, and feature a typical profile that shows the A-horizon from 0-15 inches below surface, the B-Horizon from 15-40 inches below surface and the C-Horizon from 40 to 80 inches below surface. Depending on the degree to which the urban land soils within Arecibo have been disturbed from urban development, the soils within the APE are most likely modified versions of the native silty clay soils to the east of the Arecibo River.

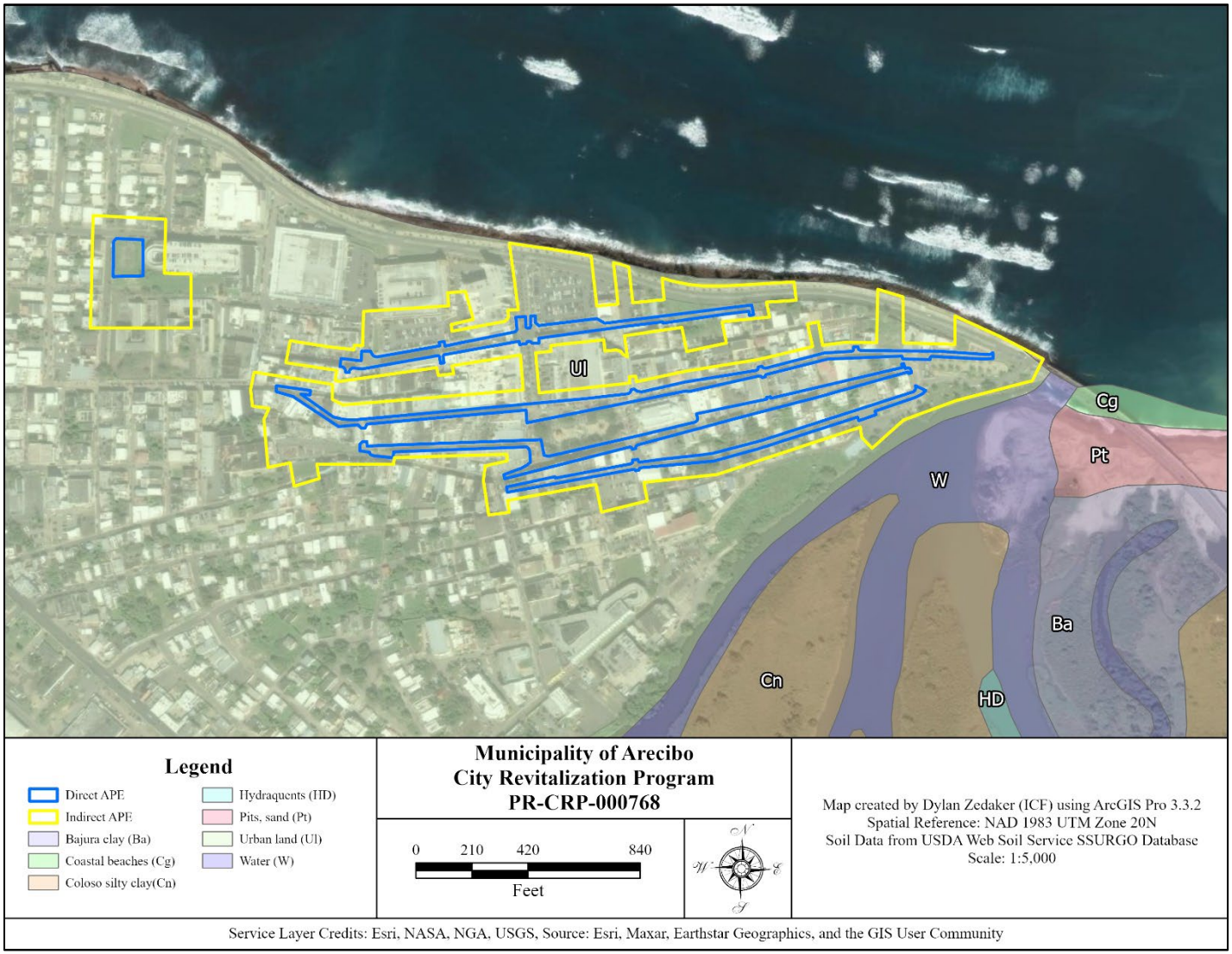


Figure 4. Project (Parcel) Location – Soils Map

Historic Context/Cultural Setting

Prehistoric Period

The variety of environments in Arecibo allowed for the exploitation of ample resources for the early inhabitants of the island. Archaeological investigations in the area have documented a total of 122 sites, spanning from the Archaic period to the 19th century. These include fifty (50) Pre-Columbian sites, sixty-three (63) historic sites, and nine (9) multi-component sites. These sites demonstrate the occupation of Arecibo during all known chronological periods in Puerto Rico. In Puerto Rico, the Pre-Columbian chronological periods consist of the Archaic, Ceramic, and Historic periods (Rouse 1952). The earliest sites documented for Arecibo are Cueva del Abra (AR0100002) and Cueva Ventana (AR0100014) from the Pre-Arawak culture dated to the Archaic period (PRSHPO 2016). Cueva Ventana consists of five rock art panels that contain twenty-four (24) petroglyph elements and six (6) pictograph elements. Additionally, there is an archaeological deposit consisting of stone, coral files, shell, Pre-Arawak ceramics and carbonized food remains, which have provided relative dates of 2040 to 950 BC.

The Ceramic period for this area is represented by Agro-Pottery I, II, and III habitation sites such as El Caney (AR100005), Río Tanamá Site 1 (AR0100038), Río Tanamá Site 2 (AR0100039), and rock art sites containing petroglyphs and pictographs such as Miraflores Cave (AR0100001), Cueva del Indio (AR0100003), Cueva Ventana (AR0100014), and Cueva Los Nepos (1 AR0100022). El Caney (AR100005), which has been the subject of numerous archaeological studies, represents a Ceramic period site. Most notably, diagnostic materials recovered indicate three stages of Pre-Columbian habitation through the identification of the Saladoid series, the Ostionoid series, and the Chicoid series (Aresti 1951). Río Tanamá Site 2 represents an Agro-Pottery I and II habitation site (Late Saladoid/Early Ostionoid, ca 400-800 AD). The archaeological deposit contains Cuevas and Ostiones ceramics, faunal remains, human remains, and a variety of lithic tools and debitage. The habitation sites are largely located in proximity to the waterways with El Caney located near the mouth of the Arecibo River and the Río Tanamá Sites 1 and 2 located further upstream in the interior alluvial valley along the Tanamá River, which is a tributary of the Arecibo River. The rock art sites are situated across various environments including the coastal plain (AR010003), the interior alluvial valleys of the northern Karst (AR0100001 and AR01000014) and within the Karst hills (AR0100022).

The Historic period is represented by a variety of cultural resources associated with the events from contact between Europeans and native cultures during the 16th century, the construction of local industry and the built environment of the modern Arecibo urban core. An example of a multicomponent site dating from the Ceramic period into the Historic period is El Caney (AR100005), which persisted until development of the modern city of Arecibo. A variety of other multicomponent sites exist including Finca Valencia (AR0100045), Paseo Víctor Rojas (AR0200009), the Palace of the Marquis of las Claras (AR0200008), the Old Hydroelectric Plant of Arecibo (AR0100021), and a variety of sugar mills and estates some of which still exist. The majority of these multi-component sites are situated along the margins of the Arecibo River and secondary rivers. Due to the consistent habitation of Arecibo from the Ceramic period to the Historic period and into the modern day, many of the current structures within Arecibo are immediately overlying prehistoric components of archaeological sites. Additionally, the successive layers have often been disturbed from modern construction resulting in palimpsest archaeological stratums where it is difficult to distinguish original Pre-Columbian components of the site from later Historic components.

In summary, there is archaeological evidence for human occupation of the Arecibo region from the Archaic period, through the Ceramic Agro-Pottery periods I, II, and III into the Historic-Colonial period up to the 19th century.

Historic Period[4]

There is archaeological evidence that a prehistoric settlement presently known as El Caney existed close to Arecibo's present day town plaza, extending towards the area presently known as La Puntilla (the eastern sector of the urban core on the west shore of the river). This information is significant for it evidences early European settlements (Arecibo is the fourth[5] oldest settlement of the Puerto Rican Archipelago) may have been established in areas previously occupied by the Natives. If this is the case, this relevant cultural superimposition goes against the traditional interpretation that there existed urban segregation between colonizers and colonized. The eastern sector of El Caney was close to the old river mouth (Boca Vieja in historic maps). Native population in the

[4] This historic context was adapted from the one created for Plaza Buenos Aires. Karen Anderson-Córdova, Arleen Pabón-Charneco, Berenice Sueiro-Vázquez, "Section 106 NHPA Effect Determination Form, PR-CPR-000772" (MS: Miami, Florida, 2025).

[5] There are some claims that Arecibo was the third town in the Puerto Rican Archipelago to be formally founded.

Archipelago characteristically settled close to rivers, sources of food, water, and transportation, among others. The Arecibo El Caney information is crucial since it evidences the Spanish used Native settlements to guide the location of their own, a momentous interpretation at variance with more traditional ones.

Although it is known a Spanish settlement existed as early as the first decades of the 16th century at the Native village known as Aracibo and Abacoa,[6] next to the present-day Río Grande de Arecibo sector, the town of Arecibo was formally founded on 1 May 1616 under the governorship of Felipe de Beaumont y Navarra (1574-1626). At that time, the name given to the embryonic town was Aldea de la Ribera del Arecibo, a descriptive designation establishing it was a very small settlement (hence the use of the word *aldea* or village and not *pueblo* or town) located on the shores (*ribera*) of the Arecibo River. By 1647, it was called San Felipe del Arecibo by Diego Torres Vargas (1590-1670) in his first comprehensive history of Puerto Rico. (To this day San Felipe [St Philip] is the patron saint of the Arecibo Municipality.) Regardless of dates and names, Arecibo did not formally become a town until the 18th century.

Throughout the centuries, most have found the place extremely beautiful, particularly due to the panoramic views of the Atlantic it enjoys. The town is located on a knoll-like area facing the immense ocean, the wide bay to the north, and the mighty river and secondary rivers, as well as their tributaries, to the east. To this day the seascape can only be described as magical.[7] During the 16th century, Torres Vargas chronicled the sector mentioning many called it the Golden Garden (*Jardín Dorado*). Friar Iñigo Abbad y Lasierra (1745-1813), in turn, described it as: *una región que admira y embelesa la vista, más bella que las imaginadas de Circe y de Calipso*.[8]

At present, the name of the Arecibo Municipality includes the *Muy Leal* (Very Loyal) honorary designation, granted by the Spanish Queen Isabel II in March 1850. The appellation honors the bravery of the townsfolk in defending Arecibo against Spain's many enemies. One of these individuals, Captain Antonio de los Reyes Correa (1665-1758),

[6] The name of Arecibo may derive from Aracibo, the *cacique* who once ruled the area.

[7] The Milwaukee Deep, the deepest part of the Puerto Rico Trench which, in turn, is the deepest part of the Atlantic Ocean, is found approximately 76 miles north of Arecibo.

[8] Translation into English: "[A] sector that seduces for its beauty, far more exquisite than the imagined regions inhabited by Circe and Calypso." Torres Vargas and Abbad y Lasierra are quoted in Francisco M Cadilla, *Los ochocentistas* (Barcelona: Ediciones Rumbos, 1961), p 11. Circe and Calypso are references to Homer's *The Odyssey*.

fought the 1702 British attack with such bravery that to this day the town is nicknamed the town of Captain Correa (Villa del Capitán Correa).

A rare and unique 18th century plan of the town that has been preserved helps its study and understanding, as well as the interpretation of its uniqueness (Figure 5). Guarded by two small forts, the urban area was organized on top of the knoll which allowed for refreshing breezes to be felt, as well as the enjoyment of the magnificent views. The high placement also protected (albeit not completely) from the perennial floods caused by the rivers system. The town perches next to the Boca Vieja, substituted by a new one at some point in time, and it suffered seasonal floodings of the rivers and their tributaries that meander between both mouths. One of the earliest plans that has been preserved of a Puerto Rican town, the map's legend mentions the settlement's relevance as midpoint between the capital (San Juan) and the place where water was obtained before the Atlantic crossing (Aguada de San Francisco).[9]

The wide bay (Ensenada de Arecibo) that made Arecibo a target for foreign countries' attacks was always considered too shallow and unprotected by the Spanish authorities. Hence, the presence of two forts to defend the settlement. Despite the bay's limitations, as early as the 18th century, the town was surrounded by agricultural fields, making possible the development of numerous haciendas, many dedicated to the cultivation of sugar cane. Some of these are: Hacienda Cambalache (originally established in 1841), Hacienda Santa Barbara (established in 1841), Hacienda Islote, and Hacienda Puente Bagazo (established in 1812), among others. Commercial ventures that made use of the rivers system were quite common making Arecibo a buzzing maritime port. Descriptions mention the rivers sector was full of life as late as the second half of the 19th century. *Surcaban la vía fluvial yolas, lanchas, botes de vela y motor, que le impartían animación y colorido. A la altura del pequeño poblado del Pasaje, peatones, ganado y vehículos cruzaban de una a otra orilla, utilizado el pintoresco ancón de los Marín.*[10]

[9] The map still uses "San Juan de Puerto Rico," the original name of the island.

[10] Francisco M Cadilla, *Los ochocentistas*, 31. Translation: "The river was packed with all sorts of vessels which provided movement and activity. Close to the small settlement of Pasaje, people, cattle and vehicles crossed from one side to the other using the picturesque Martí ferry."

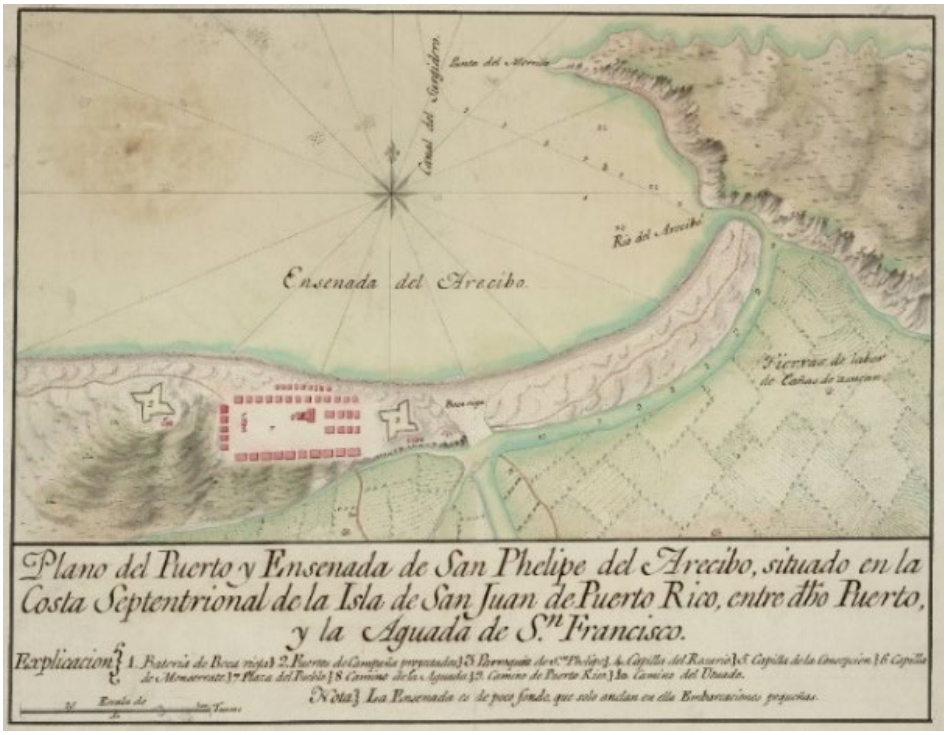


Figure 5. Plano del Puerto y Ensenada de San Phelipe [*sic*] del Arecibo," Puerto Rico, 18th century (AR_J_T_4_C_2_74).

Arecibo's urban and architectural uniqueness was underscored by the fact that, as early as the 18th century, it had two forts to defend the settlement. The British attack of 1702 is but one of several that constantly threatened the town. Even Sir Francis Drake represented a menace to the safety of the residents at some point in time. The space for the urban area was roughly rectangular with the longer axis running from east to west and was anchored by a large lot where the public plaza and the church (on the eastern side) were located. (Figure 6.) At the time of the founding there was at least one chapel within the plaza near the church (See Notation Number 5 included in the legend depicted in Figure 5). It is possible this religious spot existed since the early days of the settlement when the town had still to be formally plated. The east-west orientation exhibited by both plaza and church responds to the fact that the altar area (apse) of the temple had to face east and the rising sun. This millennia-old imperative established not only the direction of the church but the orientation of the plaza since it was aesthetically and functionally convenient for the westwork (common name for the west façade of Christian temples)

Figure 6. Arecibo Town Plaza, 2nd half of the 20th century (Google.com)

to face the public square that also served as atrium. The placement reflects the preeminence of the church regarding the urban organization. (See Figure 6.)

The Arecibo temple was influenced by Sebastiano Serlio's interpretation of what a 16th century church façade ought to be. As is known, Serlio's The *Five Books of Architecture* (1535-1575) inspired ecclesiastical design throughout Europe, particularly Spain where it was one of the principal academic sources used by the Real Academia de Bellas Artes de San Fernando in the teaching of architecture. It was also considered an essential educational tool when the first royal engineering centers were created. Arecibo's principal church, therefore, is influenced by Cinquecento (16th century) Italian semantics. Aesthetic perceptions related to architectural styles vary with time. One early 20th century description of the building reads as follows: *La rotonda del ábside y galerías laterales, podrían clasificarse como de estilo romano; la fachada (frontispicio), no obstante reducido capitel dórico que la exorna [sic], parece responder al estilo Misión (derivación*

del colonial español), usado en California.[11] While there is no such thing as an 18th century "Roman style," the Californian Mission semantics dates much later than the time when the Arecibo church was erected. (See Figure 6.) The same applies to the "Neoclassical" appellation, incorrectly applied at times. If a name is needed, Neo-Cinquecento is the appropriate one.

It is interesting to note that, as was the case during the early days of foundation in most Puerto Rican towns, there were no streets framing the plaza or separating the plaza from the church. The site (the plaza) and the surrounding buildings were treated as one urban organism. By 1887, however, the plaza and the church seem to be somewhat separate (See Figure 5) (Figure 7). However, as late as 1887 the streets surrounding the plaza principal were not yet formally plated. Nevertheless, both the church and the square were surrounded by some sort of fence delineating their respective areas and separating them from the thoroughfare area surrounding them. Around this time, the entrance to the urban core from both the east and south (present day Rosado Avenue, aka PR-10) was somewhat formalized and the visitor would arrive at the area between the church and the plaza. This physical and visual connection between the axial entryway path and the town plaza is a very interesting arrangement that is absent in many other towns.

Town plazas in the Archipelago were part of the architectural triad representing the status quo powers. The temple symbolized the Catholic faith, the official religion of the Spanish Crown while the town hall (known as *casa del rey* or *casa alcaldía*) was the three-dimensional symbol of the Crown. The plaza represented the people (hence its traditional name of *plaza pública* or public plaza). It was here important activities took place: from entering and exiting the temple on feast days, to the marketplace all visited; to the place where recreational activities could take place (In Old San Juan, even public dances took place in some plazas).

[11] Francisco M Cadilla, *Los ochocentistas*, 143. Translation into English: "The dome of the apse and lateral galleries can be classified as an example of the Roman style, the façade even with its reduced Doric capital seems to belong to the Mission style, a derivation of the Spanish Colonial used in California."

Figure 7. Arecibo, Puerto Rico, 1887 (AR_J_T_4_C10).

While in the 18th century map only one street was depicted parallel to the plaza along the south border (Gonzalo Marín Street), two streets running from east to west are represented along the northern side of the plaza (See Figure 5). Of these last pair, the one closest to the plaza is presently known as José de Diego Avenue. It is possible the second one, either present-day Antonio R Barceló Street or José González Ginorio Street, was already in existence by the 18th century. The trio mentioned in this paragraph are part of the proposed project. As can be seen they have played a relevant role since the town's foundation. As a result of their age and the important role they have played in the development of the town, they are all eligible for inclusion in the NRHP as structures under Criteria A (event) and C (urban planning) (See Figure 7).

While José de Diego Avenue and Gonzalo Marín Street continued in a relatively straight alignment towards the La Puntilla area on the east of the town, their western configuration was far more complex since there was a hill on this side (Figure 8). By 1887, the two streets bordering the plaza are approximately the same length until they reached the

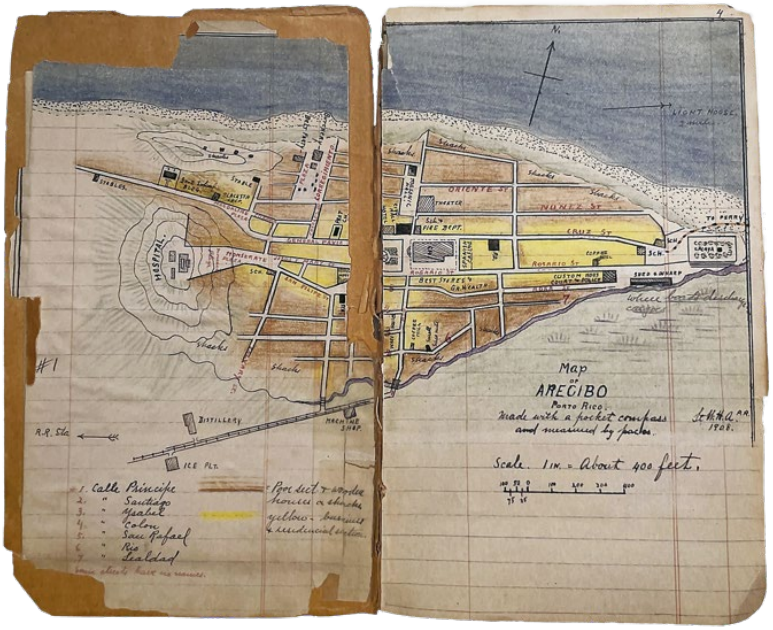


Figure 8. William H Armstrong, *Progressive Military Map of Puerto* Rico, 1908-1912, p 102

eastern end, a situation that is not duplicated along the western side. After running in parallel fashion, the first one angles towards the north passing in front of the Spanish

Aduana building. Exiting the settlement, de Diego Avenue became one with the island road connecting Arecibo and Aguadilla (See Figures 7 and 8). One of the previous names of the José de Diego Avenue was Calle Mayor, a traditional name in Spain for the principal street of a town. In the 1887 map, it is labeled as de la Cruz Street. The location of the customs building is quite perplexing since in modern times this service is always closer to the port venue facilitating the newcomers' arrival. This was not the case in Spanish times when protocol demanded passengers and crew wait several days in the vessel until disembarkation formalities were finalized. In Lieutenant Armstrong's map, a hospital crowns the western hill. One of the two forts that defended the town during its early days was previously found here.

A unique Arecibo urban characteristic which existed since its foundation until the middle of the 20th century appears in the 18th century plan: the use of the northern side of town, the one facing the ocean, as a slum area (See Figure 5). Known by several names, Barriada del Mar-La Playa developed after 1838 sandwiched between the sea and the town's core. Its closeness to the Atlantic caused continuous destruction by sea waves, one of the

reasons the sector was not used by the more dominant classes. By the early years of the 20th century the slum was divided into sectors: Jareales, Palmarito, Punta Borinquen, Santo Domingo, Arizona, Los Coléricos, and La Trocha. (Barriada del Mar-La Playa no longer exists since it was purposely deconstructed by the government during the 1950s.) The Barriada del Mar-La Playa is considered the second largest slum in the history of the Archipelago. The sector was described in the following fashion:

> *… a todo lo largo del litoral marítimo terrestre, un mar repleto de viviendas paupérrimas construidas de deshechos de: madera, cartón, latas de galletas, y planchas viejas y mohosas de zinc corrugado. Este collar de casuchas comenzaba en el Fuerte [en la desembocadura del Río Grande de Arecibo, al este del casco urbano] y se extendía hasta la Puerto Rico Distilling [al oeste del casco urbano]. Todas ellas enclavadas en los Barrios de: Jareales, Palmarito, La Trocha, Punta Borinquen, Santo Domingo, Arizona y los Coléricos. Las casitas estaban ubicadas muy próximas unas a las otras, había un alto grado de hacinamiento, en espacios habitables muy pequeños. La mayoría del vecindario carecía de los servicios esenciales de: agua, luz y baños sanitarios, etc. También existía ausencia de los servicios básicos del recogido de desperdicios sólidos, por tal razón era uso y costumbre lanzar la basura al mar, la que con su fuerte oleaje devolvía la misma a la orilla, exponiendo a sus residentes, especialmente a los niños a las enfermedades contagiosas de la época.*[12]

The map evidences that, as early as the 18th century, the TUC's northern side was packed with smaller houses than the rest of the town (Figure 9). This difference is also seen in the 1887 plan (See Figure 8). In contrasting manner, the sector south of the TUC, where the Buenos Aires barrio developed during the second half of the 19th century, was almost empty during the 18th century, although a meandering trail (described in historic map as

[12] Soto de Arce, W, *Al rescate del olvido. Vivencias de un arecibeño* Volume 5 Number 1 (San Juan, Puerto Rico: Hato Rey Printers, 2005), pp 23-24, quoted in Karen Noemí Herrera Valencia, "Recuperando la historia eliminada del Arrabal La Playa de Arecibo," *Ingenios revista de investigación y labor creativa* (San Juan, Puerto Rico, 2018), Access: https://www.ingeniosupr.com/vol-5-1/2018/10/13/recuperando-la-historia-eliminada-del-arrabal-la-playa-de-arecibo. Quoted in Karen Anderson-Córdova, Arleen Pabón-Charneco, Berenice Sueiro-Vázquez, "Section 106 NHPA Effect Determination Form, PR-CPR-000772." Translation into English: "Along the shore there was a sea of houses constructed with wood, cardboard, cracker tins, and remnants, as well as old and rusted zinc corrugated plates. This necklace of derelict houses started on the eastern side of town close to the Fort and ended close to the Puerto Rico Distilling (to the west of the urban core). Together all these houses formed the Jareales, Palmarito, La Trocha, Punta Borinquen, Santo Domingo, Arizona, and Los Coléricos. The diminutive houses were sited next to each other; there was a high level of overcrowding [people living] in very small spaces. Most residents lacked essential services such as water, electricity, toilets, etc. There was no service to collect garbage and because of that, residents threw garbage into the sea although the strong surf returned it making it possible for children to be exposed to all sorts of sicknesses."

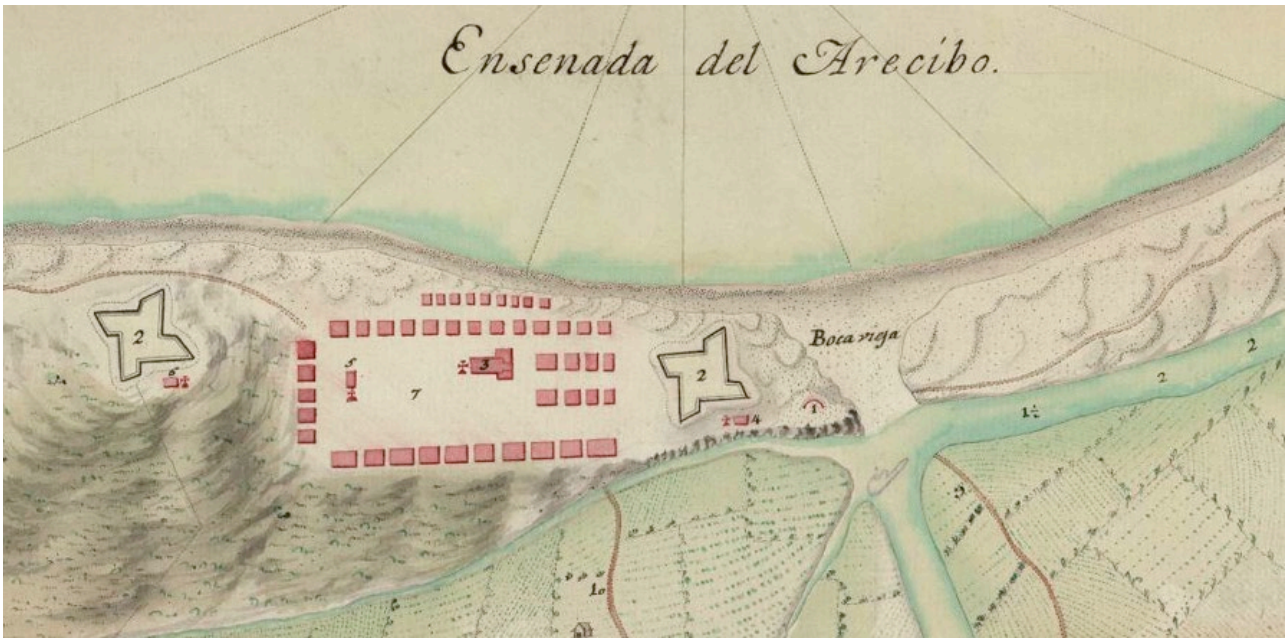


Figure 9. "Plano del Puerto y Ensenada de San Phelipe [*sic*] del Arecibo," Puerto Rico, 18th century (AR_J_T_4_C_2_74)

a *camino*) existed by the 18th century. This road crosses one of the rivers and/or tributaries before arriving at the town plaza and was the principal town entrance/exit from the east and south. At present, the historic trail is aligned along Juan Rosado Avenue (also known as PR-10), a structure eligible for inclusion in the NRHP under Criteria A (event) and C (urban planning). The ocean and the rivers and their tributaries directly impacted the urban morphology. The long, rectangular blocks fitted within the almost strangulated area available for construction.

As mentioned, by 1867, there was an empty space between the plaza and the church and there were streets surrounding the square, something also depicted by the 18th century map (See Figures 5, 7, and 9). It is probable that the empty space, physically closer to the church building, served as its atrium. By 1900, however, the transitional area between plaza and church was transformed into a street, known as Calle del Principal (present day María

de Hostos Street[13]), connecting the present-day Gonzalo Marín Street (on the south side) with the José de Diego Avenue (on the north side). This organization is interesting and evidences the transformations the urban core underwent throughout the centuries. At some point during the 19th century, after the PR-2 was partly organized, the area between plaza and church became a formal street connected to the trail which provided entrance to the city (from the south and east) once the rivers and the tributaries had been crossed (present day Juan Rosado Avenue or PR-10). It also was connected to the street that provided the principal exit (or entrance from the north and west) to the town core, José de Diego Avenue. During the 20th century, at the place where PR-2 intersected de Diego Avenue, there was a small monument that formally welcomed visitors.

Another street part of the project is Ramón Emeterio Betances Street running from east to west between José de Diego Avenue on the north and San Felipe Street on the south. starting at the west end of the plaza it runs for two long blocks before making a loop and becoming San Felipe Street. While it does not appear in the 18th century map, by 1887 it was well established, connecting the plaza to the western knoll where one of the forts had been located. By the 19th century, a hospital was sited at this place.

Antonio R Barceló Street running from Cervantes Street on the west to A Salicrup Street on the east runs somewhat parallel to de Diego Avenue. This is the third street to be affected by the proposed project. While the throughfare appears in the 18th century plan, its presence by 1887 is still imprecise since there appeared to be areas that were still not formally plated and settled. Since the slum areas were in this sector, this is understandable.

The last thoroughfare included in the project, Ariosto Cruz Street, runs from Santiago Iglesias Avenue on the west to the PR-2 extension on the east. This sector is also known as the Arecibo Promenade. This thoroughfare is one of the longest, running parallel to the Gonzalo Marín Street. While it does not appear in the 18th century map it is clearly depicted in the 1887 one.

[13] Some sources establish the real name of this street is Eugenio María de Hostos. If this is correct, it would have the same name as the street bordering the north side of the plaza. Therefore, the street dividing the church and plaza was considered part of the Calle Mayor, in other words, the principal street of the town.

Even after train service from San Juan to Arecibo started in 1888, the route to enter town from the east and south was the same since the last station was Cambalache, on the east side of the rivers system. Travelers alighted here and crossed a wood bridge or took a ferry to reach the rivers' west shore where the urban core was located. They could then take some sort of transportation to the urban core. Most took the trail that later became present day Juan Rosado Avenue or PR-10. For centuries, it was easier to travel to Arecibo by boat than by land.

The first formal system devised to cross the rivers and tributaries from the east was constructed during the period from 1923 to 1927 and was connected to the 1923 PR-2 extension that bypassed the urban core. This crossing was organized by means of a series of causeways and bridges. To anyone traversing the bridges it seemed they floated above the water since they were only two meters over the surface, still low enough to give the impression that they were perilously floating above the liquid surface. Some of the bridges had a metal tarmac resulting in a very noisy crossing. It was not easy to construct the 1920's causeways and bridges system (See Figure 10). In fact, mention is made that the first reinforced concrete iteration constructed to cross the rivers system, built in 1916, collapsed on 14 July of the same year, the day before its inauguration. It is important to underscore that while the PR-2 appears in the "Plan Carretero de la Isla de Puerto Rico" dated 8 December 1860, in 1898 it was still unfinished and formal ways to cross the rivers and tributaries varied with time. It is also relevant to mention the Spanish plan included the towns cores as part of the travelling route, something that was abandoned in Arecibo during the 1920s. At that time, a different route skirting the urban core was preferred. To resolve the growing vehicle issues this growth brought an extension to PR-2, dated 1923, that made it possible to reach the new sectors without having to traverse the historic core.

It is interesting to note that the entrance/exit from the west was preferred in terms of urban development. Not only was the 19th century cemetery (Antiguo Cementerio Municipal) constructed along the PR-2 section that connected to Aguadilla and the west, but suburban development followed suit. During the early decades of the 20th century, Arecibo expanded in dramatic fashion. In the San Luis sector on the northwest side, subdivisions were constructed during the first three decades of the 20th century. At the Barrio San Luis, the contrast between the northern and southern sides of PR-2 was quite interesting. Streets running from north to south transformed their character once they crossed PR-2. Ana Lens de Susoni Street, for example, was lined with reinforced concrete houses with

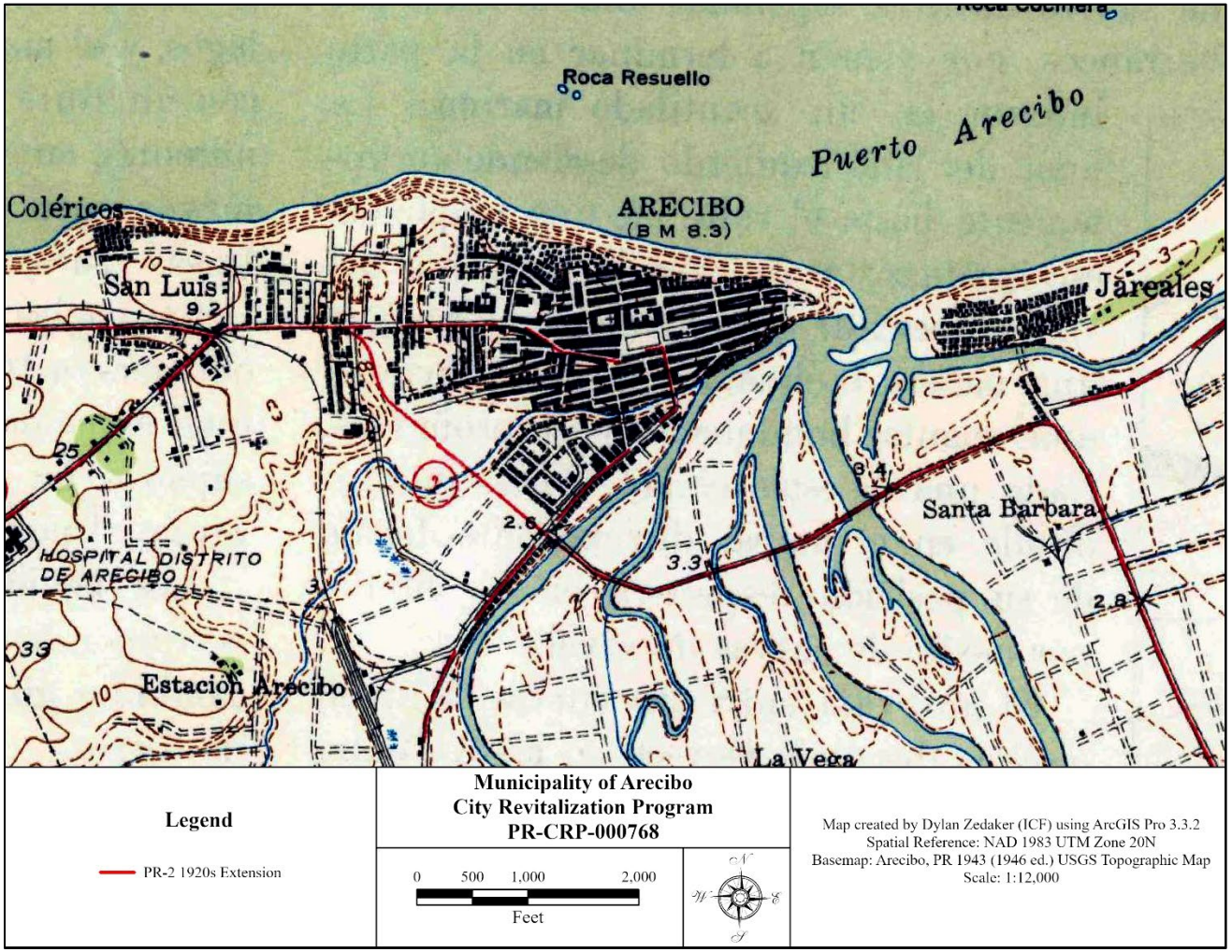


Figure 10. USGS 7.5' Quadrangle 1943 (1946 ed.) Arecibo, PR

arched balconies and terracotta tiles along its northern section. Designers used modern semantics inspired in the Mediterranean Revival. The same street had a different name, José Rodríguez Irizarry Street, south of PR-2. This last section was lined with traditional wood houses constructed by individual families. No fancy Mediterranean influences were seen here but the architecturally stoic characteristics of vernacular modes. The two contrasting sectors, however, iconically represented the first half of the 20th century novel needs of Arecibo residents.

It is interesting to note a characteristic of the grid used in Arecibo: the freedom with which it was planned and the existence or numerous irregular blocks and sites (considering rectangular or square ones "regular"). In the 1908-1912 map drawn by Lieutenant William H Armstrong for his *Progressive Military Map of Puerto Rico*,[14] Arecibo is depicted as a relatively large town still hugging the original sector bordered by the knoll on the west, the sea on the north, and the river on the east.

Arecibo's impressive architectural inventory includes varied non-traditional Puerto Rican typologies, such as tenement houses, bridges, and promenades lined along the streets where the project will take place and the rest of its unique urban grid.

Historical Background of the APE

Efforts were made to compile historic aerial images of the APE to determine approximate date ranges for the various developments that occurred within and in proximity to the Direct APE. The historic aerials used in this analysis are from 1931, 1950, and 1972 and were obtained from both the Puerto Rico Department of Transportation and Public Works (DTOP 2025) and the United States Geological Service (USGS) Earth Explorer (USGS 2025) historic aerial image databases.

The earliest available historic aerial image of the Direct APE is from 1931 and shows most of the Direct APE the same as it is presently (Figure 11). The major differences are the intersection of Palma Street and Antonio R. Barceló Street, where it was previously a narrow undivided two-lane street. Additionally, there are several structures present that are no longer extant and that are represented as archaeological sites in the next section due to intact subsurface archaeological components. These structures are Plaza del Mercado

[14] Lanny Thompson and María Dolores Luque (editors), *The Cartographic Journey of Lieutenant William H Armstrong* (Colombia, Editorial Nomos S A, 2020), 103.

and the butcher shop (*carnicería*), along the northwest side of Antonio R. Barceló Street; La Puntilla Residencial on the southeast side of Ariosto Cruz Street and along the Arecibo River; and Barriada Santo Domingo to the north of Antonio R. Barceló Street along the oceanfront. Lastly, the location of the staging area was previously undeveloped except for a few neighboring structures. The lot itself and the modern streets have not been developed or constructed by 1931. In summary, most of the soil disturbance and modern development of the Direct APE has already occurred by 1931.

The next available historic aerial image of the Direct APE is from 1950 (Figure 12). In this image Barriada Santo Domingo has expanded to the west filling in all available empty space, and it has expanded far north towards the ocean resulting in several additional rows of houses. Additionally, the staging area has been developed with multiple structures present on the parcel and the adjacent modern streets have been constructed. There are no other significant developments within the Direct APE from 1932 to 1950.

The next available historic aerial image of the Direct APE is from 1972 (Figure 13). This image illustrates the most significant changes to the Direct APE. The entirety of Barriada Santo Domingo was demolished between 1951 and 1971 and in its place the ocean front has been defined with the construction of Víctor Rojas Avenue, the eastern portion of which is still under construction. The structures Plaza del Mercado and the butcher shop (*carnicería)* have been demolished and in their place, and much of northern Arecibo in 1972, has been replaced with large municipal parking lots. A large municipal parking complex is now present to the northeast of the Direct APE, in between the project location and the staging area, in place of the Barriada Santo Domingo. The staging area structures, and adjacent structures, have all been demolished, and the present concrete lot appears in 1972. Remnants of the previous structures may be present in the subsurface soil underneath this concrete pad. Lastly, the intersection of Palma Street and Antonio R. Barceló Street, a portion of the Direct APE to the north, has been expanded from a narrow street to a larger divided four lane street.

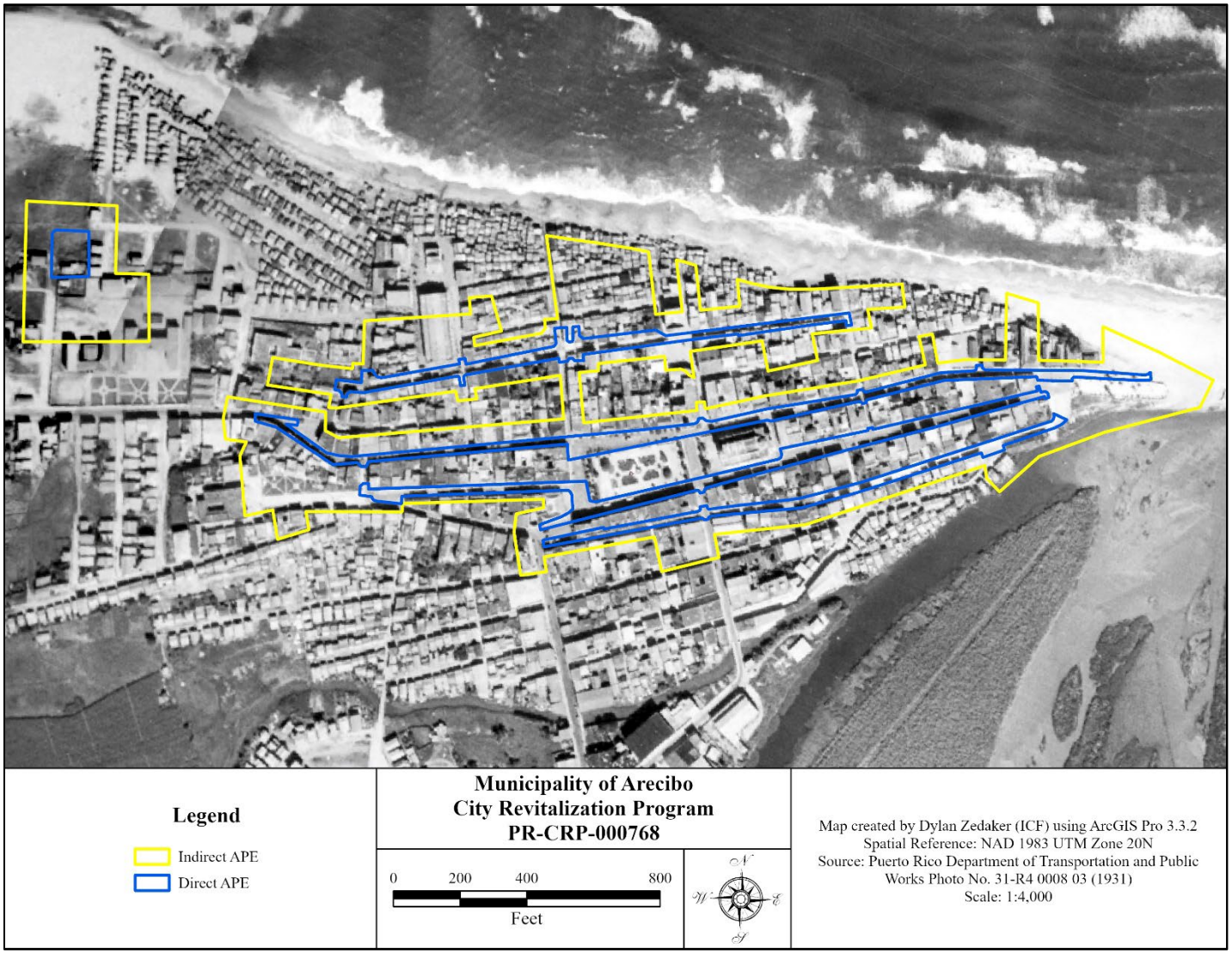


Figure 11. Project (Parcel) Location – Puerto Rico Department of Transportation and Public Works Historic Aerial Image (1931)

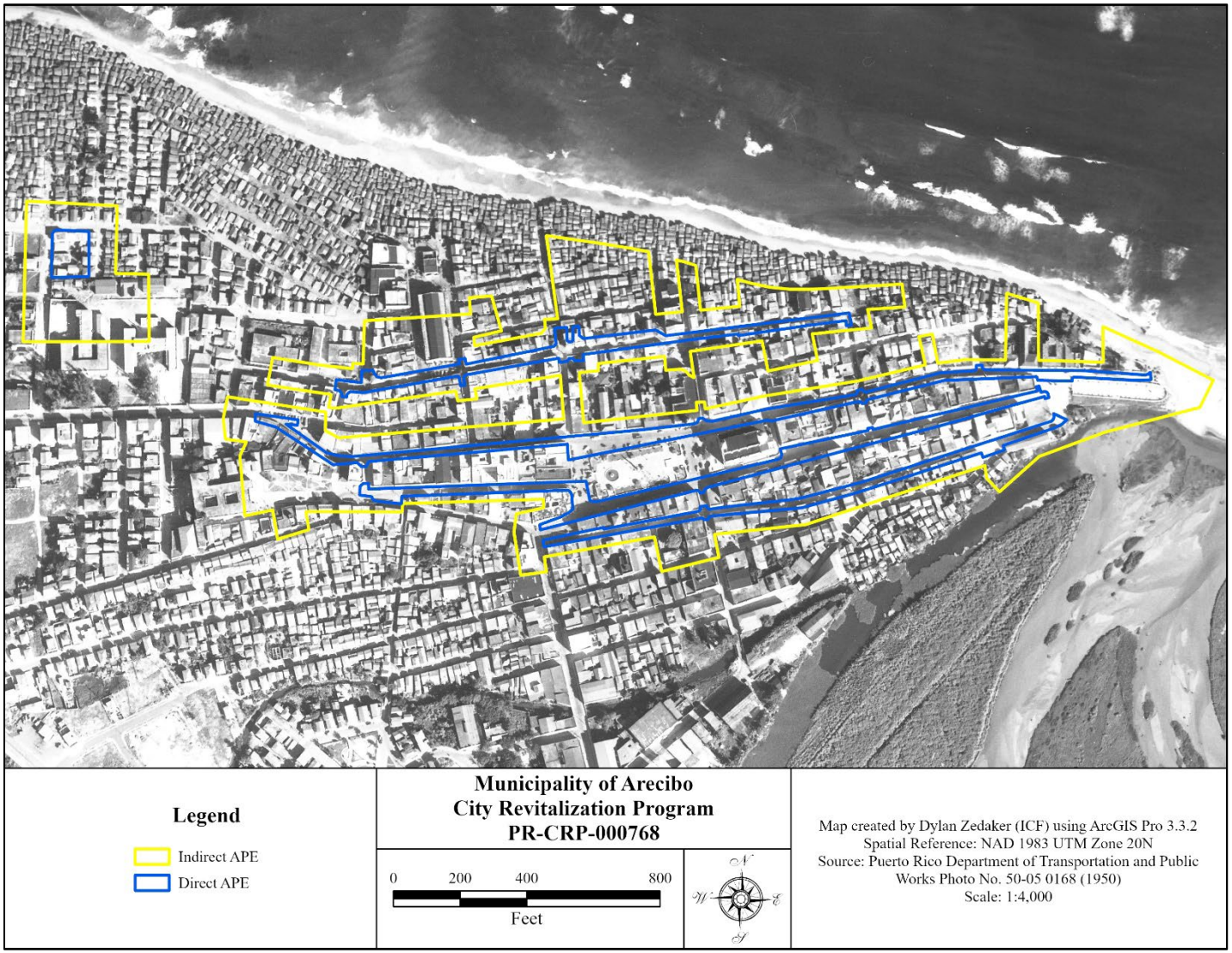


Figure 12. Project (Parcel) Location – Puerto Rico Department of Transportation and Public Works Historic Aerial Image (1950)

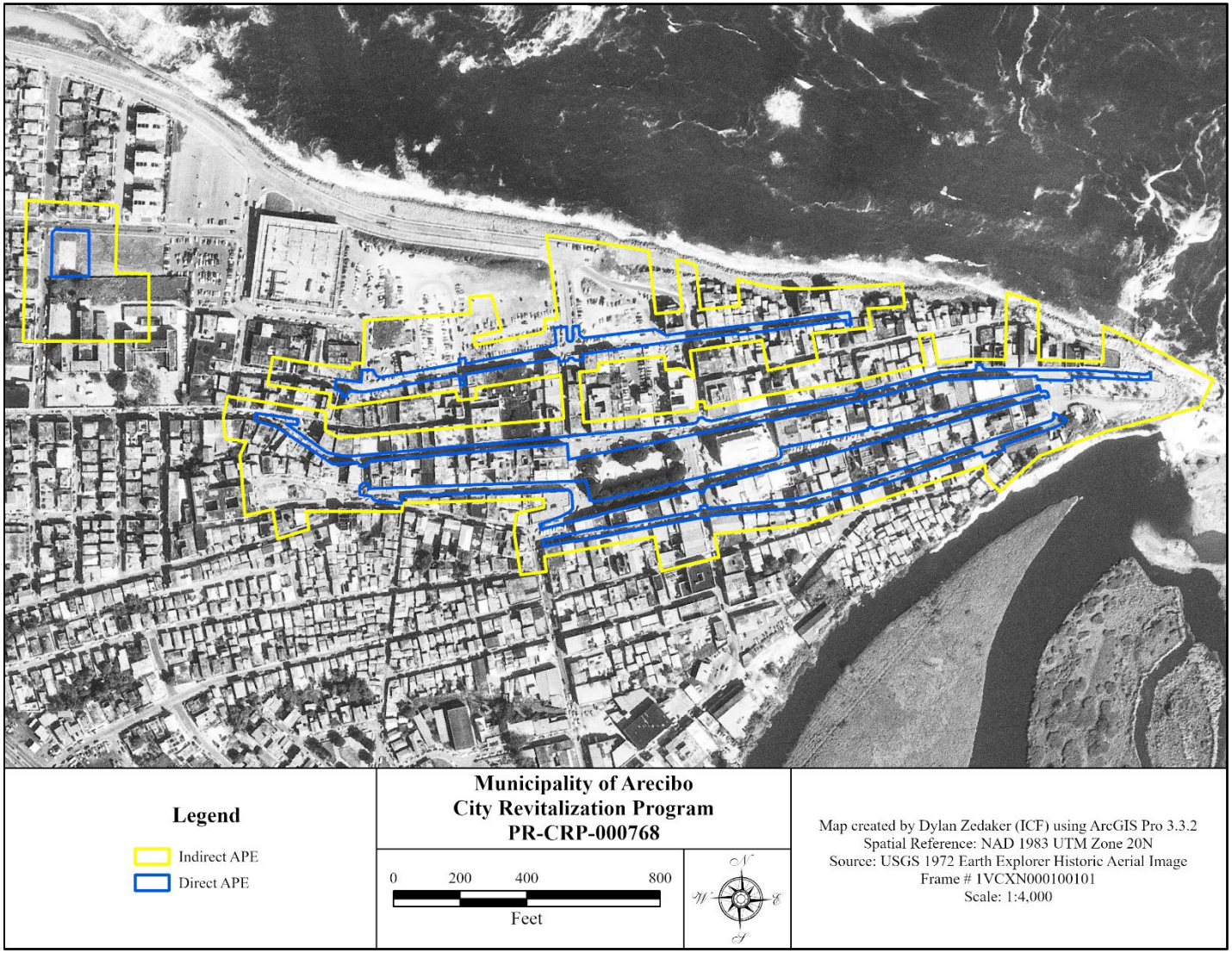


Figure 13. Project (Parcel) Location – USGS Earth Explorer Historic Aerial Image (1972)

In addition to the historic aerial images, United States Geological Service (USGS) historic topographic maps were consulted. Similarly to the historic aerial images of Arecibo, the USGS historic topographic maps show many of the same developments, but due to being in different years, they allow for a more precise date range for specific construction and development activities. The earliest available USGS historic topographic map of the Direct APE is from 1942, and it shows that the majority of the Direct APE is the same as it is presently (Figure 14). The 1942 USGS historic aerial image shows Barriada Santo Domingo to the north of the APE, La Puntilla Residential to the southeast of the APE, and the structures of Plaza del Mercado and the butcher shop (*carnicería*) to the north of the APE. Lastly, the staging area is still undeveloped in this image, which narrows the date of construction for the structures within it and surrounding streets from 1942 to 1950.

The next available USGS historic topographic map of the Direct APE is from 1954 (Figure 15). This map shows the extension of Barriada Santo Domingo to the west and north towards the oceanfront. The northern expansion is best demonstrated by the elevations where the northernmost structure is located between the 5- and 4-foot contours lines on the 1942 topographic map compared to the northernmost structure being located between the 1- and 2-foot contour lines on the 1954 topographic map. Based on these topo maps, Barriada Santo Domingo expanded approximately 3 feet down in elevation. Lastly, the staging area has the development of adjacent structures and streets on this map.

The next available USGS historic topographic map of the Direct APE is from 1968 (Figure 16). Unlike the 1942 and 1954 USGS historic topographic maps, the 1968 illustration foregoes detailing all individual buildings in favor of a diffuse red color backdrop for the urban area. The only individual buildings outlined are churches, schools, the town hall, and the plazas. Due to this, this topographic map does not specifically show the absence of structures representing Barriada Santo Domingo; however, it does show Plaza del Mercado as extant, which refines the date of its demolition, and likely the butcher shop (*carnicería*) and Barriada Santo Domingo by extension, from 1968 to 1972.

In summary, there has been significant development surrounding the Direct APE from 1931 to 1972. The major development during this period is the increase of urban housing related to the expansion of Barriada Santo Domingo, and the demolition of the vast number of homes that were replaced with downtown parking and a major thoroughfare in the form of Víctor Rojas Avenue. The Direct APE was largely developed before 1931 and has only seen minor geometry changes of roads, intersections and structures.

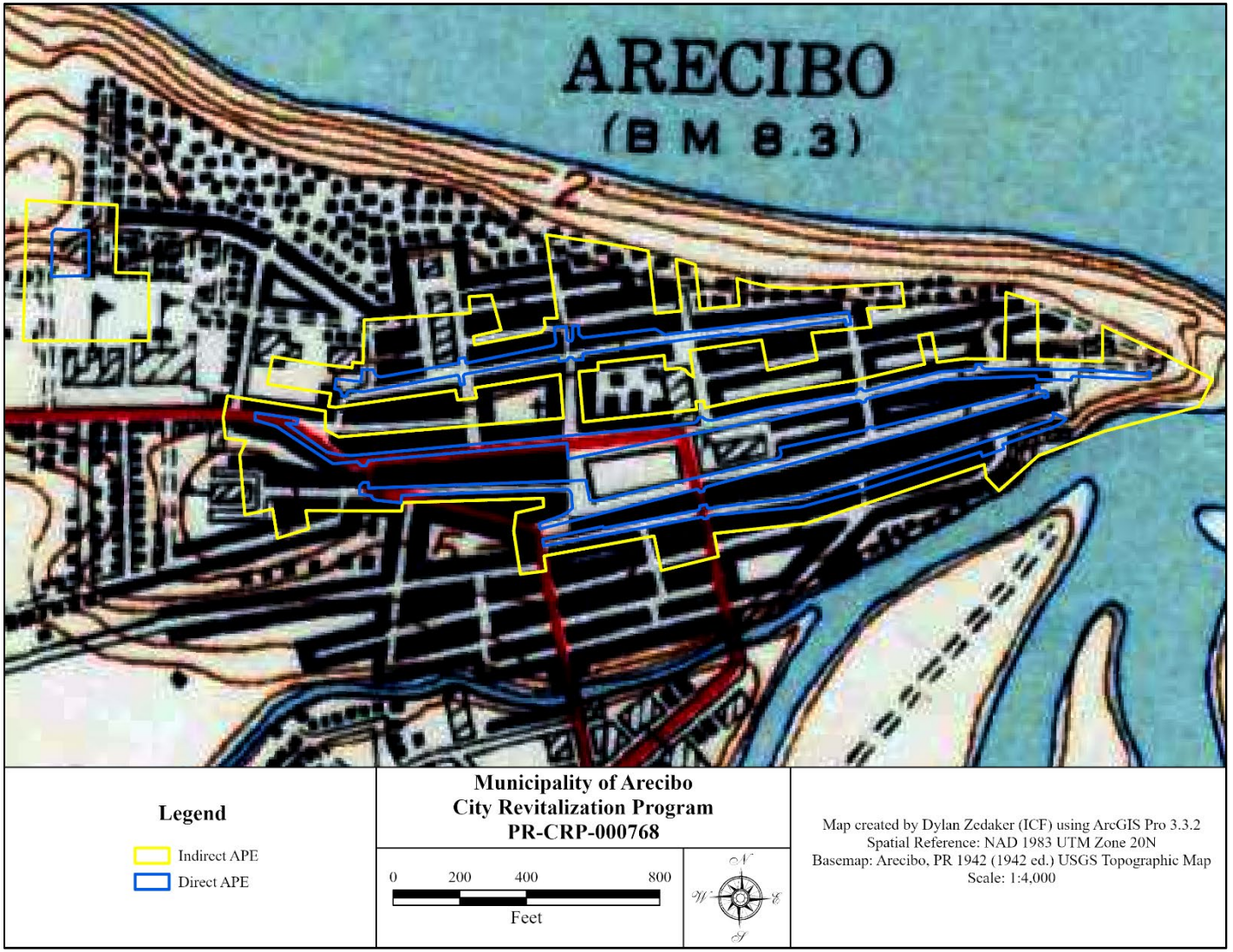


Figure 14. Project (Parcel) Location – USGS Historic Topographic Map: Arecibo, PR 1942 (1942 ed.)

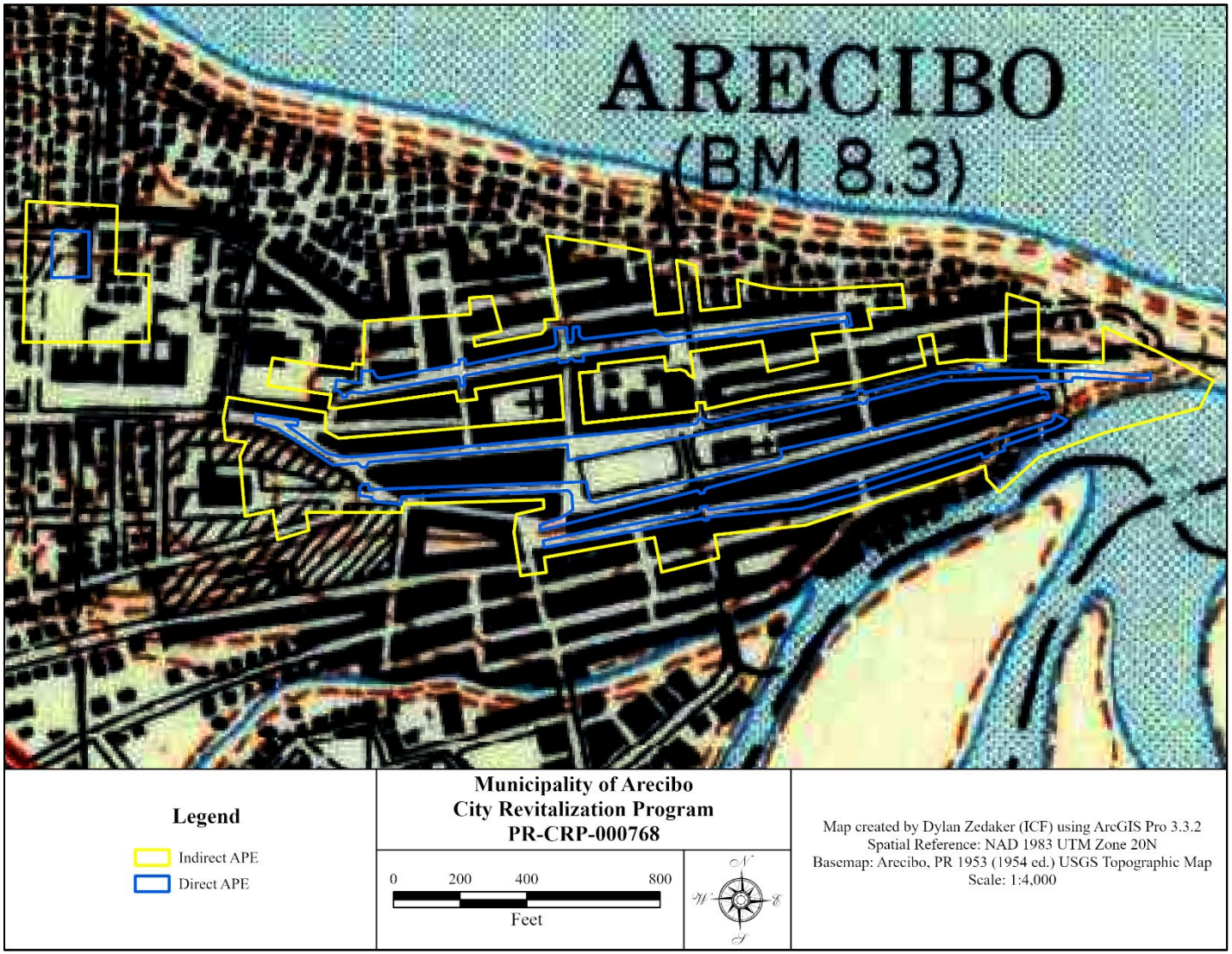


Figure 15. Project (Parcel) Location – USGS Historic Topographic Map: Arecibo, PR 1953 (1954 ed.)

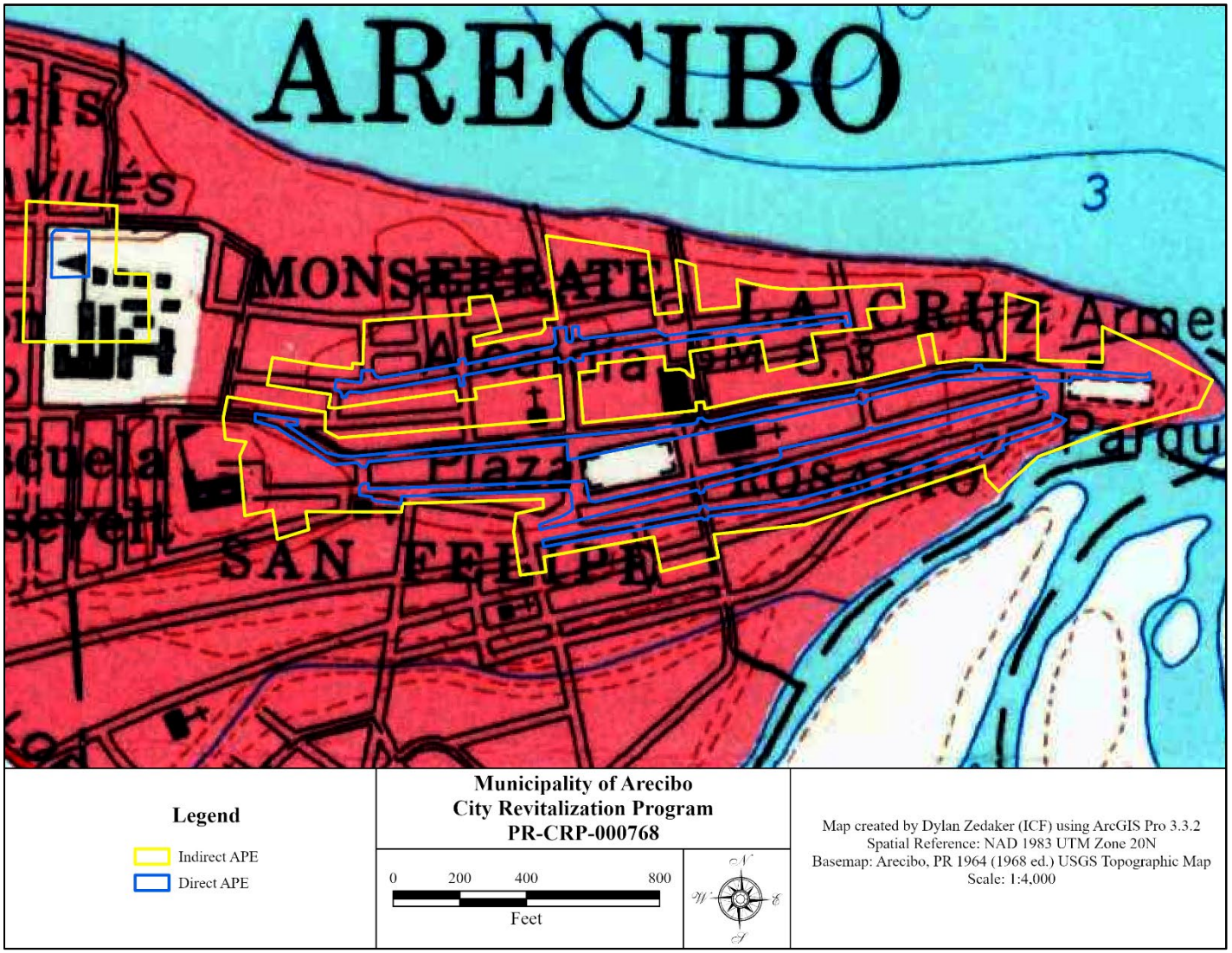


Figure 16. Project (Parcel) Location – USGS Historic Topographic Map: Arecibo, PR 1964 (1968 ed.)

Identification of Historic Properties

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). The project area is located within the NRHP-eligible Arecibo TUC. The archaeological cultural resources survey reports and site survey forms, as well as the administrative project files, of both the PRSHPO and the Institute of Puerto Rican Culture (IPRC) were consulted resulting in a total of twenty (20) archaeological sites are located within the quarter-mile research radius of the proposed project composed of five multicomponent sites and 11 historic sites according to the PRSHPO and IPRC files (Figure 17) (Table 5). Additionally, a total of twenty-seven (27) cultural resources survey reports consisting of Phase 1A-1B, Phase II, Phase III, and Monitoring Reports (Figure 18) (Table 6). Of the twenty-seven 27 total cultural resource surveys, twenty-three 23 had positive results from subsurface testing and four had negative results. The ID field column for Tables 5 and 6 is used to label archaeological sites and surveys on Figures 17 and 18.

Historic Properties - Archaeological Resources

There are three (3) documented archaeological sites within the Direct APE (see Table 6), they are El Caney (SHPO# AR0100005, IPRC# AR-5), Sistema Pluvial (IPRC# AR-48-H), and the historic streets: de Diego Avenue, Gonzalo Marín Street, Palma Street, Antonio R Barceló Street, Mariano Vidal Alley, del Guayabal Street (SHPO# AR0100056, IPRC# AR-48-D).

El Caney (AR100005), which has been the subject of numerous archaeological studies, represents a Ceramic period site. Early excavations were performed by José R. Oliver Aresti between 1945 and 1955. Most notably, diagnostic materials recovered indicate three stages of Pre-Columbian habitation through the identification of the Saladoid series, the Ostionoid series, and the Chicoid series. This site is widely accepted to occupy much of the eastern portion of the Arecibo TUC and has various amounts of disturbance depending on the area and development that has occurred. In the unpublished manuscript *Aportaciones a la historia de Arecibo: Prehistoria*, Oliver (1951) reports the excavation of a significant number of burials within the TUC along both José de Diego Avenue and Gonzalo Marín Street. He concludes that due to the long occupation of El Caney, there are likely many additional unknown prehistoric burials underlying the modern pavements and buildings. In addition to the prehistoric artifacts and human remains, these excavations

yielded 16th century historic burials and ceramics demonstrating the continuous occupation of the site up to the present day.

Sistema Pluvial, the historic stormwater system of Arecibo, was encountered approximately 1 meter below surface during November 1994. The tunnel encountered under de Diego Street was damaged during the course of the streets project before the PRSHPO was requested to intervene. The system was used to drain storm water from the streets and structures of the city. Internal documentation of the tunnels was not feasible during this time because of the installation of a wastewater connection, in addition to the initial stormwater, posed a safety risk to the surveyors. The preliminary conclusions of the archaeologist documenting this site are as follows: 1) The historic storm sewer systems retains complete integrity; 2) The site is an engineering work whose age is approximated at around a century, retains structural integrity, and shows no signs of collapse or cracking of the arches or walls throughout the length of tunnel exposed; 3) The structures could continue to be used if the wastewater that has been channeled into them were appropriately channeled and cleared out. Based on the conclusions above, the archaeologist recommended that the current project be re-designed and that alternatives be developed in order to avoid adversely affecting the historic storm sewer system.

The historic streets are located within the Direct APE and underlie three of the roads (José de Diego Avenue, Antonio R Barceló Street, and Gonzalo Marín Street) that are part of this project. Since the historic Calles underlie the existing roads and adjusting for possible road realignments and geometry changes through time, there is the possibility of encountering intact portions of 19th Spanish Colonial pavements within the Direct APE during demolition and construction activities. Lastly, the construction fill soil underlying José de Diego Avenue is intermixed with displaced prehistoric materials, and there is the potential for similar displaced prehistoric materials associated with construction fill soil underneath the other streets within the Direct APE.

In addition to the three (3) sites within the Direct APE, there are eighteen (18) other sites that are adjacent to the Direct APE and within the quarter-mile research radius. These sites consist of a wide range of site types including historic and prehistoric habitations, middens, and burials. There is also the potential to encounter archaeological resources related to these nearby sites within the Direct APE.

Table 5. Archaeological Sites within the Quarter-Mile Research Radius of the Project Area[15]

ID	Name	SHPO ID	IPRC ID	Distance/ Direction to the APE[16]	Description (historic, prehistoric, or both, plus site type)	NRHP Status (Listed, Eligible, Non-Eligible, No Data, Pending)
1	El Caney	AR0100005	AR-5	Within	Prehistoric and Historic, Habitation	Pending
2	Palace of the Marquis of Las Claras, Casino of Arecibo	N/A	AR-48-A-5	Adjacent	Prehistoric and Historic, Burials	Eligible
3	Barriada Santo Domingo	N/A	AR-48-A-7	Adjacent	Historic, Habitation	No Data
4	Casa Marqués-Muñoz	N/A	AR-48-A-8	Adjacent	Historic, Habitation	No Data
5	Residencia / El Guayabal: Casa de los Españoles y basurero	AR0100064	AR-48-A-9	0.07 mi S	Historic, Structural Remains and Midden	Non-Eligible
6	La Puntilla Residencial	N/A	AR-48-A-10	0.01 mi S	Historic, Habitation	No Data
7	Casa Roses-Artau	AR0100058	N/A	Adjacent	Prehistoric (Disturbed Midden) and Historic Vaulted Brick Structure	Pending
8	Carnicería	AR0100016	AR-48-B-3	0.02 mi N	Historic, Midden	Pending
9	Plaza del Mercado	N/A	AR-48-B-4	Adjacent	Historic, Structural Remains of Building, Midden	No Data
10	Farmacia casa Marqués Muñoz y Panadería calle Barceló	N/A	AR-48-B-5	Adjacent	Prehistoric (disturbed) and Historic, Commercial	No Data
11	Plaza Luis Muñoz Rivera	AR0100065	AR-48-C	Adjacent	Historic, Structural Remains of Public Space	Pending
12	Calles: La Calle de Diego y la Calle Gonzalo Marín, Calle Palma, Calle Antonio R Barceló, Callejón Mariano Vidal, Calle del Guayabal	AR0100056	AR-48-D	Within	Prehistoric (disturbed) and Historic, Road/ Pavement	Non-Eligible[17]
13	Catedral	N/A	AR-48-E-1	Adjacent	Historic, Burials	Eligible
14	Ermita del Rosario	N/A	AR-48-E-2	Adjacent	Historic, Burials	Eligible

[15] It is important to note that while some of the archaeological sites listed on this table are also listed as architectural resources in the next section, these archaeological sites are based on a subsurface archaeological component that was documented through an intensive archaeological survey. The archaeological component is associated with the extant/not extant structure and is considered separate from the architectural resource.

[16] Due to the large footprint of the Direct APE and Indirect APE, "Within" is used to describe sites that are within the Direct APE, "Adjacent" is used for sites that are within the Indirect APE, and distance is given for sites that are outside of the APE, but within the 0.25-mile research radius.

[17] SHPO Site # AR0100056 represents only Calle de Diego; however, IPRC Sit # AR-48-D represents all the streets listed. Calle de Diego was determined to be non-eligible (under Criterion D) during its documentation, but the remainder of the streets have not been assessed for NRHP-eligibility. As per the Program, all streets part of the project are eligible for inclusion in the NRHP under Criteria A and C.

15	Ermita de la Monserrate	N/A	AR-48-E-3	Adjacent	Historic, Burials	Eligible
16	Ermita de la Concepción	N/A	AR-48-E-4	Adjacent	Historic, Burials	Eligible
17	Paseo Victor Rojas/Paseo de Damas/El Fuerte	N/A	AR-48-F	Adjacent	Historic	No Data
18	Sistema Pluvial	N/A	AR-48-H	Within	Historic, Utilities (Vaulted Brick Tunnel and Storm System)	Eligible
19	Sistema de defensa: Batería de Boca Vieja, Fortín San Miguel, Paseo Víctor Rojas (Paseo de Damas)	N/A	AR-48-I-1	Adjacent	Historic	No Data
20	Puerto	N/A	AR-48-I-2	Adjacent	Historic	No Data

Previous Investigations

There are a considerable number of archaeological surveys performed within the quarter-mile research radius of the project with the majority of them being located within the Direct and Indirect APE and situated within the urban architectural core of the Arecibo TUC. Due to the large number of surveys within the research radius, this analysis will focus on archaeological surveys that are within/adjacent to the Direct APE and were positive for archaeological resources (See Table 6).

The earliest report, dated 1985, is for the development of the Susoni Hospital building located on the north side of Arecibo (SHPO 06-11-85-03). Adjacent to the Susoni Hospital was a property that had six archaeological surveys (SHPO 09-24-90-05 and ICP/CAT AR 91-02-04) performed between 1991 and 1994 for the development of a new municipal parking complex. These consisted of Phase IA-IB, Phase II, Phase III, and monitoring surveys and were all positive resulting in the documentation of multiple new archaeological sites including a deposit related to the historic butcher shop (AR-48-B-3), Plaza del Mercado (AR-48-B-4), and archaeological evidence of Barriada Santo Domingo (AR-48-A-7). While mitigation and data recovery were recommended as part of this project, no NRHP recommendation was made for the three documented sites as part of this archaeological survey.

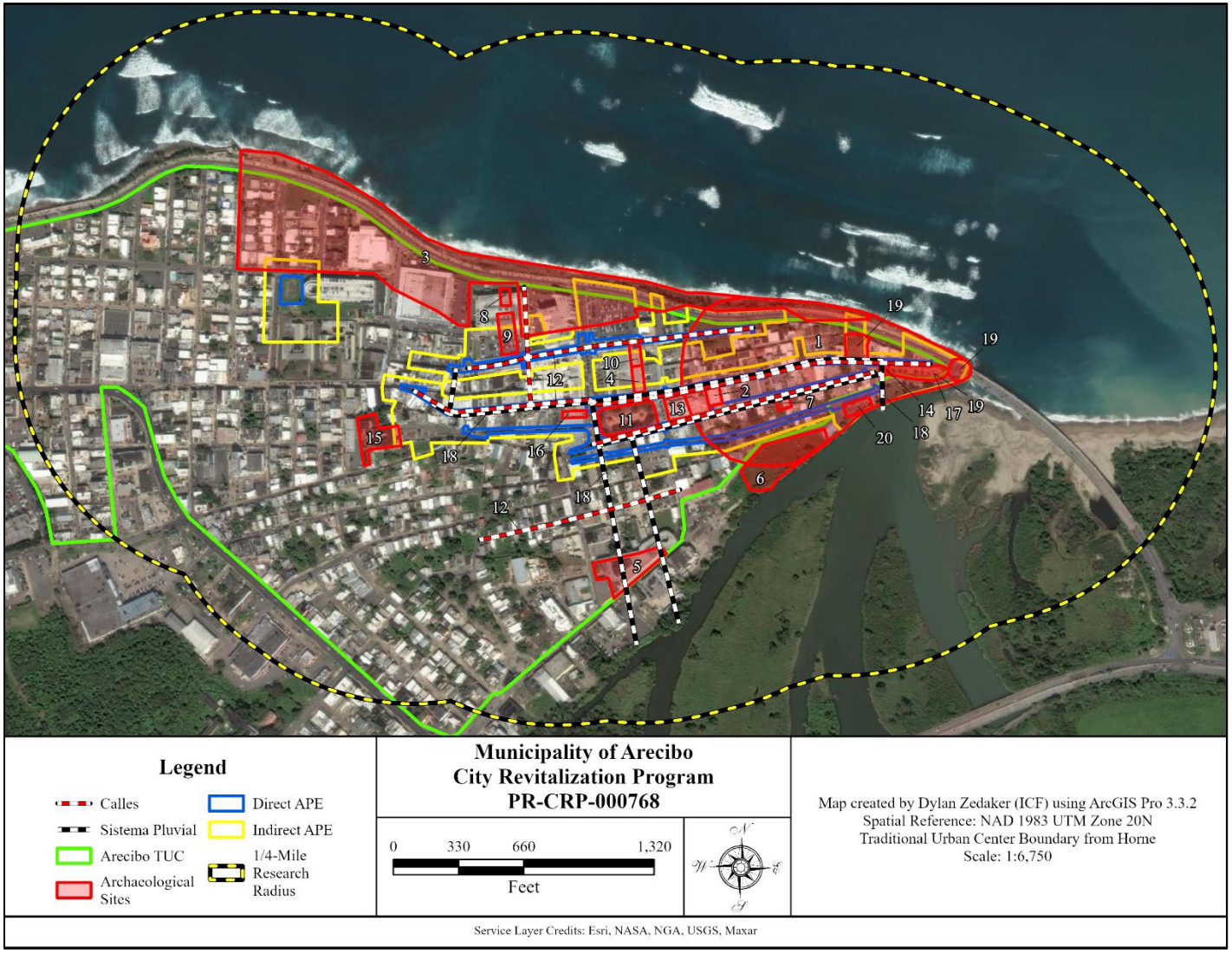


Figure 17. Project (Parcel) Location of Identified Archaeological Sites – Aerial Map

Table 6. Archaeological Cultural Resource Studies Within the Quarter-Mile Research Radius

ID	Author	Title	Year	SHPO/IPRC ID	Results	Distance/ Direction from APE[18]
1	Miguel Rodríguez	Nuevo Edificio Hospital Susoni , Phase IB	1985	SHPO# 06-11-85-03	Positive	Adjacent
2	Jaime G. Vélez	Terminal de Transportación Pública, Núm. 2 (Sur), Phase IA-IB	1990	SHPO# 03-09-87-01	Positive	0.05 mi S
3	Jaime G. Vélez	Teatro Oliver, Phase IA	1991	SHPO# 07-31-87-02	Positive	Adjacent
4	Jaime G. Vélez	Estacionamiento Municipal Norte, Phase IA	1991	SHPO# 09-24-90-05 ICP/CAT 91-02-04	Positive	Adjacent
5	Juan González	Estacionamiento Municipal Norte, Phase IB	1991	SHPO# 09-24-90-05 ICP/CAT 91-02-04	Negative	Adjacent
6	Harry E. Alemán Crespo	Desarrollo comercial, Grand Way Store, Bo. Pueblo, Arecibo, P.R., Phase IA-IB	1991	ICP/CAT 91-02-05	Positive	Adjacent
7	Jaime G. Vélez	Cancha Lincoln, Phase IA-IB	1992	SHPO# 04-22-91-01	Positive	Adjacent
8	María A. Cashion Lugo	Restauración Plaza de Recreo, Bo. Pueblo, Phase IA-IB	1992	SHPO# 08-09-91-03	Positive	Adjacent
9	Juan González	Mejoras a Cancha Lincoln, Phase II	1993	SHPO# 04-22-91-01	Positive	Adjacent
10	Marisol Rodríguez Miranda	Estacionamiento Municipal Norte, Monitoring	1993	SHPO# 09-24-90-05 ICP/CAT 94-05-04	Positive	Adjacent
11	Marisol Rodríguez Miranda & Virginia Rivera Calderón	Estacionamiento Municipal Norte, Phase II	1994	SHPO# 09-24-90-05 ICP/CAT 91-02-04	Positive	Adjacent
12	Juan González	Estacionamiento Municipal Norte, Phase II	1994	SHPO# 09-24-90-05 ICP/CAT 91-02-04	Positive	Adjacent
13	Juan González	Estacionamiento Municipal Norte, Phase III	1994	SHPO# 09-24-90-05 ICP/CAT 91-02-04	Positive	Adjacent
14	Roberto Martínez Torres	Paseo Peatonal de Diego, Phase IA-IB	1994	SHPO# 06-04-90-08 ICP/CAT AR-94-05-02	Positive	Within
15	Roberto Martínez Torres	Documentación de un Tramo de la Atarjea Pluvial en la Calle de Diego, Monitoring	1994	SHPO# 06-04-90-08 ICP/CAT AR-94-05-02	Positive	Within
16	Roberto Martínez Torres	Paseo Peatonal de Diego Fase IIB, Barrio Pueblo, Phase IA	1995	SHPO# 10-13-95-10 ICP/CAT AR 95-10-08	Positive	Within
17	Roberto Martínez Torres	Estudio de Evaluación de Recursos Culturales Construcción Paseo Peatonal de Diego, Phase II	1995	SHPO# 06-04-90-08	Positive	Within
18	Roberto Martínez Torres	Salvamento Arqueológico - Paseo Peatonal de Diego, Phase III	1995	SHPO# 06-04-90-08 ICP/CAT AR-94-05-02	Positive	Within
19	Roberto Martínez Torres	Impactos a la Atarjea Pluvial Localizada en la Calle de Diego Durante las Obras del Proyecto Monitoring	1995	SHPO# 06-04-90-08 ICP/CAT AR-94-05-02	Positive	Within

[18] Due to the large footprint of the Direct APE and Indirect APE, "Within" is used to describe sites that are within the Direct APE, "Adjacent" is used for sites that are within the Indirect APE, and distance is given for sites that are outside of the APE, but within the 0.25-mile research radius.

20	Roberto Martínez Torres	Adquisición y Realojo de Viviendas Localizadas en la Ribera del Río Grande de Arecibo, Barrio Pueblo, Phase IA	1995	SHPO# 10-06-95-01	Negative	0.01 mi S
21	Roberto Martínez Torres	Construcción de Kioskos Calle Palma, Barrio Pueblo, Phase IA-IB	1999	SHPO# 06-15-98-08 ICP/CAT AR 99-10-07	Positive	0.08 mi S
22	Roberto Martínez Torres	Construcción Placita del Domino, Barrio Pueblo, Phase IA-IB	1999	SHPO# 11-23-98-20 ICP/CAT AR-99-08-03	Positive	Within
23	Roberto Martínez Torres	Phase 1B, Rehabilitación Aceras Centro de la Ciudad	2001	SHPO# 12-06-01-01	Positive	Within
24	Adalberto Maurás Casillas	Centro Urbano de Arecibo, Arecibo, P.R. Phase IA-IB	2003	ICP/CAT AR 03-13-03	Positive	Within
25	Adalberto Maurás Casillas	Evaluación Arqueológica Fase I Viviendas Buenos Aires Arecibo, P.R., Phase I	2005	SHPO# 12-03-03-03	Positive	Adjacent
26	Roberto Martínez Torres	Construcción Once Kioskos Calle Antonio R. Barceló, Barrio Pueblo, Phase IA-IB	2006	SHPO# 06-16-06-08	Positive	Within
27	Jesús Figueroa Lugo	Reconexión de Acometidas Sanitarias del Sistema Pluvial al Sanitario, Calle Paseo José de Diego, Paseo de las Estrellas, Capitán Correa y Calle de la Palma, Monitoring	2013	ICP/CAT AR 13-20-05	Positive	Within
28	Roberto Martínez Torres	New Pump Station for Downtown Arecibo, Phase III - Excavación de 9 Catas y 3 Trincheras en la Parcela B que Ocupa el Solar Propiedad de la Sucn. Terrasa, Phase IB (Part I)	2014	SHPO# 03-10-10-03 ICP/CAT AR-14-22-03	Positive	0.02 mi S
29	Roberto Martínez Torres	New Pump Station for Downtown Arecibo, Phase II; - Excavación de 18 Catas y 17 Trincheras en la Parcela A, Phase IB (Part II)	2014	SHPO# 03-10-10-03 ICP/CAT AR 14-22-01	Positive	0.02 mi S
30	Virginia Rivera Calderón	Evaluación Arqueológica Fase 1 Proyecto Atlantic Breeze Building Barrio Pueblo Arecibo, Puerto Rico	2015	ICP/CAT AR 15-22-04	Positive	0.19 mi W
31	Jaime G. Vélez	Cancha Lincoln, Phase II	1993	SHPO# 04-22-91-01	Positive	Adjacent
32	Roberto Martínez Torres	Informe Preliminar de Hallazgos en Casa Álvarez Peniza, Monitoring	1998	SHPO# 10-21-97-09	Positive	Adjacent
33	Roberto Martínez Torres	Reconstrucción Casa Álvarez-Peniza (Interior), Calle Gonzalo Marín, Phase IB	1998	SHPO# 10-21-97-09	Positive	Adjacent
34	Miguel Rodríquez	Evaluación Arqueológica Fases IA-IB Reemplazo Segmento Puente 1038 Sector Víctor Rojas, Arecibo (Proyecto AC-000051)	1999	ICP/CAT 99-08-07	Negative	Adjacent
35	Roberto Martínez Torres	Estructura de Ladrillos en el Solar Noroeste Contigua a la Casa Roses-Artau, Barrio Pueblo, Phase II	2003	SHPO# 06-18-03-02	Positive	Adjacent
36	Roberto Martínez Torres	Informe de Impacto Para el Proyecto de Restauración Casa Roses-Artau, Barrio Pueblo - Parte I, Phase I	2003	SHPO# 06-18-03-02	Positive	Adjacent

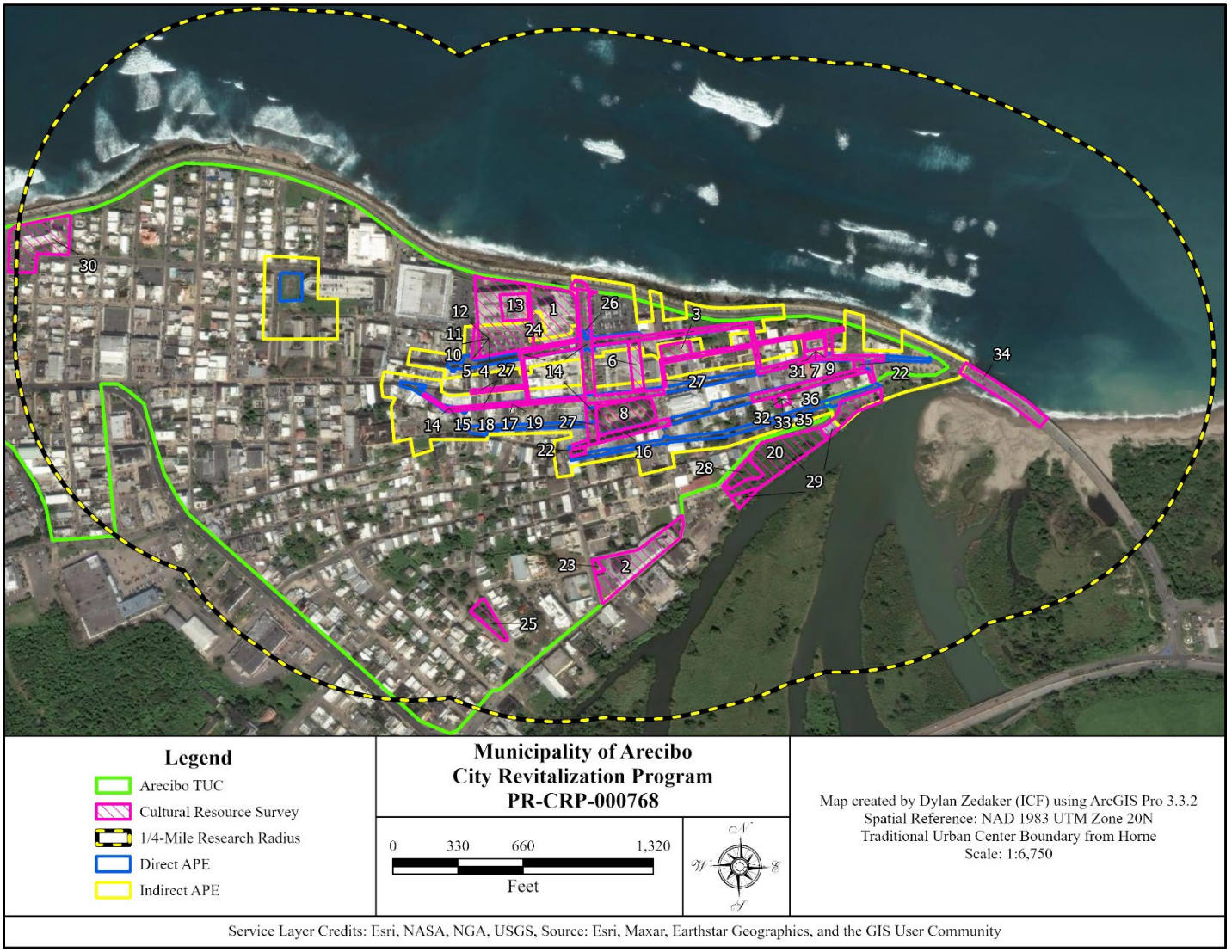


Figure 18. Project (Parcel) Location of Previous Investigations – Aerial Map

From 1994 to 1995, six (6) archaeological surveys were performed on the western portion of José de Diego Avenue: A Monitoring Plan, two Phase IA surveys, a Phase IB survey, a Phase II survey, and a Phase III survey. These archaeological surveys documented a segment of the historic storm sewer system that doubled as underground tunnels, historic pavements underlying the modern roads, and a prehistoric deposit likely related to the known site of El Caney. These archaeological surveys were performed during a road maintenance project that included demolition and reconstruction of the street and sidewalks. The Phase III archaeological survey stated that the documented storm sewer system (Sistema Pluvial) has been impacted from previous street construction activities and despite the impact, it retains full integrity as a historic engineering work. The portions of the tunnel system that were exposed were reported to show no signs of collapse or cracking of the arches or walls throughout the length. However, the report authors did not make a clear NRHP recommendation. The excavation consisted of a series of trenches placed 1.6 ft (0.5 m) apart that were all terminated between 2.8 ft to 3.3 ft (0.85 to 1.0 m) in depth. The Sistema Pluvial underlies large portions of the Arecibo TUC but has not been ground-truthed in its entirety. However, it is well documented under José de Diego Avenue. As such, this site will be assessed for potential impacts later in this section related to the project scope of work.

The prehistoric materials encountered consisted of Saladoid ceramics, flake-stone artifacts, snail and bivalve shell artifacts, and a vessel handle with incised decoration of anthropomorphic appearance. However, the official assessment of these materials is that they are out of context and has been displaced by use as fill for the historic Spanish pavement. It was of the opinion of the report author that during the original street and sidewalk construction works of the previous century, an archaeological rescue excavation had been performed. The stratigraphic breakdown of the road is that the modern roadway sits on top of the Sistema Pluvial, which is in turn underlain by the historic Spanish pavement that sites on top of the construction fill soil containing displaced prehistoric artifacts. Due to the height of the Sistema Pluvial tunnels, they underlie the modern pavement but were buried within all of the underlying anthropogenic soil stratums.

An important archaeological survey was performed adjacent to the Direct APE at the Cancha Lincoln basketball court in 1991. A Phase IA-IB and Phase II were performed by Jaime G. Vélez and a Phase II was performed by. Juan González all under SHPO# 04-22-91-01. These excavations exposed a series of diagnostic ceramics that correspond to a long period of prehistoric habitation with the Saladoid (c. 250-600 AD), the Ostionoid (c. 600-1200 AD), the Chicoid (Taino) (c. 1200-1500 AD), and ten (10) burials were encountered

during the course of these excavations with the average depth at approximately 3 ft (90 cm) below surface. Ultimately, the human remains were recorded and reburied in place. The planned construction of a new building as part of this basketball rehabilitation project was subsequently cancelled. Additionally, a section of the vaulted brick underground storm sewer tunnels associated with the Spanish Colonial Period trending east-west was encountered in one of the units during the Phase II. This survey is an important reference for the current project because it provides accurate depths for the undisturbed archaeological stratums, tunnel system, and prehistoric burials underlying the modern city infrastructure. This soil depth information can be compared with the scope of work for the current project to determine the potential for archaeological resources and can be used as part assessment of effects.

In 2003, a Phase IA-IB was conducted by Adalberto Maurás Casillas (ICP/CAT AR-03-13-03) of four proposed pedestrian transects with the intent to identify areas within TUC where subsurface testing could be conducted in order to determine the archaeological potential for areas within the study area. Due to the large amount of hardscapes (concrete and asphalt) throughout the TUC, shovel test pits (STPs) were excavated at 65 ft (20 m) intervals in areas free of pavement such as plant areas bordering roads and vacant lots. This survey found prehistoric and historic remains along Palma Street and historic material related to the Boca Vieja Battery ~~fort~~ near the modern Víctor Rojas Plaza. Additionally, the study concludes that there is a high probability of both prehistoric and historic archaeological resources underlying the modern paved surface of Arecibo that was unable to be tested as part of the project.

In 1997, a Phase IB and a Monitoring plan (SHPO# 10-21-97-09) and in 2003, a Phase I and Phase II (SHPO# 06-18-03-02) were executed by Roberto Martínez Torres. The archaeological surveys resulted in the documentation of prehistoric ceramics including zoomorphic ceramics associated with El Caney (AR0100005), prehistoric lithics, historic ceramics, glass, metal, and faunal remains. Due to a lack of stratigraphy from use of the site as a trash dump through time, the report concluded that the presence of prehistoric archaeological materials is a common phenomenon throughout the city of Arecibo, that it was not in-situ and that it did not retain integrity. Additionally, a brick vaulted tunnel was encountered beneath the house. The report concludes that the brick structure was likely not a residential latrine, or a water cistern, but that it may have been part of the historic stormwater drainage system for the city.

José R. Oliver Aresti was an amateur archaeologist who performed a series of excavations from 1945 to 1955. His excavations yielded a wide variety of prehistoric ceramics, lithics, faunal remains, and prehistoric burials across the east portion of the Arecibo TUC. He recorded burials at several structures adjacent to the APE including #12 Gonzalo Marín Street, #23 José de Diego Avenue, #55 José de Diego Avenue, #57 José de Diego Avenue. These burial locations were used to delineate the boundary of El Caney (AR-5) and were presumed to indicate the long occupation of this large village site. Additionally, he encountered historic artifacts including ceramics and historic burials dated to the 16th century. Aresti's work has been regularly referenced as one of the earliest systematic archaeological excavations in Arecibo, and particularly because it exposed many human remains and burials and demonstrated the potential for more.

Summary

There are numerous previous archaeological surveys with positive results and a variety of archaeological sites within the quarter-mile research radius. There are three archaeological sites with the Direct APE: El Caney (AR0100005), the historic streets (AR0100056), and Sistema Pluvial (AR-48-H), that are eligible or potentially eligible for inclusion in the NRHP. Additionally, given the net deposition of soils, proximity to abundant sources of water, and the high number of archaeological sites documented within the quarter-mile research radius, it is likely that unknown subsurface prehistoric and historic archaeological deposits exist within the Direct APE, including extensions of El Caney (AR100005) that have not been excavated. While there has been historic development of the APE resulting in soil disturbance, many of the archaeological surveys summarized above show that there are undisturbed stratums that contain intact archaeological resources beneath the previous ground-disturbance related to the modern street and sidewalk pavement. Therefore, it is our conclusion that the Direct APE has the potential for both known and unknown historic and prehistoric intact archaeological deposits that retain integrity and that the project as currently designed proposes an adverse effect. Therefore, the project will require mitigation measures to ensure no potentially eligible archaeological resources are adversely affected.

Identification of Historic Properties – Architectural Resources

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of existing information by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) shows that the project area is within the Arecibo TUC / Historic District, eligible for inclusion in the NRHP as a historic district.

To interpret the architectural properties eligible for inclusion in the NRHP, archival research activities were undertaken. Although there is an IPRC document proposing a historic district for Arecibo, this institution has no architectural inventory of the Arecibo Municipality.[19] Arecibo has sixteen (16) properties listed in the NRHP. Due to the considerable number of architectural resources within the Arecibo TUC paired with the large project footprint, only architectural resources within the Indirect APE are presented in this section in table format. There are eleven (11) NRHP-listed properties within the Indirect APE (Table 7) (Figure 19). Additionally, there are ten (10) NRHP-eligible per the PRSHPO within the quarter-mile research radius (Table 8) (See Figure 19). The ID field column for Tables 7 and 8 is used to label architectural resources on Figure 19.

[19] Karen Anderson Córdova, Arleen Pabón Charneco, Berenice Sueiro Vázquez, "Section 106 NHPA Effect Determination Form, PR-CPR-000029."

Table 7. NRHP-Listed Historic Properties within the Indirect APE

ID	NAME AND ADDRESS	INCLUSION DATE	NRHP NUMBER	CATEGORY	CRITERION
1	Casa Ulanga #7 Gonzalo Marín Street	26 July 1982	82003822	Building	C
2	Teatro Oliver (Corregimiento Plaza Theater) Llaguerry and Toribio Pagán Streets	6 January 1986	86000041	Building	C
3	Casa Alcaldía de Arecibo José de Diego Street	29 September 1986	86002762	Building	C
4	Edificio Oliver 64 Avenida José De Diego	1 October 1986	86002764	Building	C
5	Casa Córdova 14 Gonzalo Marín Street	17 November 1986	86003185	Building	C
6	Paseo Víctor Rojas Gonzalo Marín Street and de Diego Avenue	19 November 1986	86003188	Building	C
7	House 101 Gonzalo Marín Street	19 November 1986	86003183	Building	C
8	House 61 Gonzalo Marín Street	9 June 1988	88000645	Building	C
9	Palacio del Marqués de las Claras 58 Gonzalo Marín Street	12 July 1988	88000964	Building	C
10	House of the Diosa Mita 251 Fernández Juncos Street	9 September 1988	88000966	Building	B
11	Franklin Delano Roosevelt School Betances Street	8 February 2021	MP100006152	Building	C

Table 8. NRHP-Eligible Historic Properties within the Indirect APE (Per the PRSHPO 2020 Inventory)

ID	NAME	APPROXIMATE DATE	CATEGORY
12	Respetable Logia Masónica Tanamá #2	1884	Building (Masonic lodge)
13	Cayetano Coll y Toste House	2nd half 19th century	Building (house)
14	Aduana	1926-1931	Building (USA customs house)
15	Town Plaza	18th century	Site
16	Catedral San Felipe Apóstol	1886	Building (church)
17	House José A Suliveres	c 1913	Building (house)
18	Jefferson Grade School	1909	Building (school)
19	Escuela Luis Muñoz Rivera	c 1920	Building (school)
20	Casa de la Hjalmarson (aka Casa de los Soles Truncos)	c 1875	Building (house)
21	House Roses Artau	c 1913	Building (house)

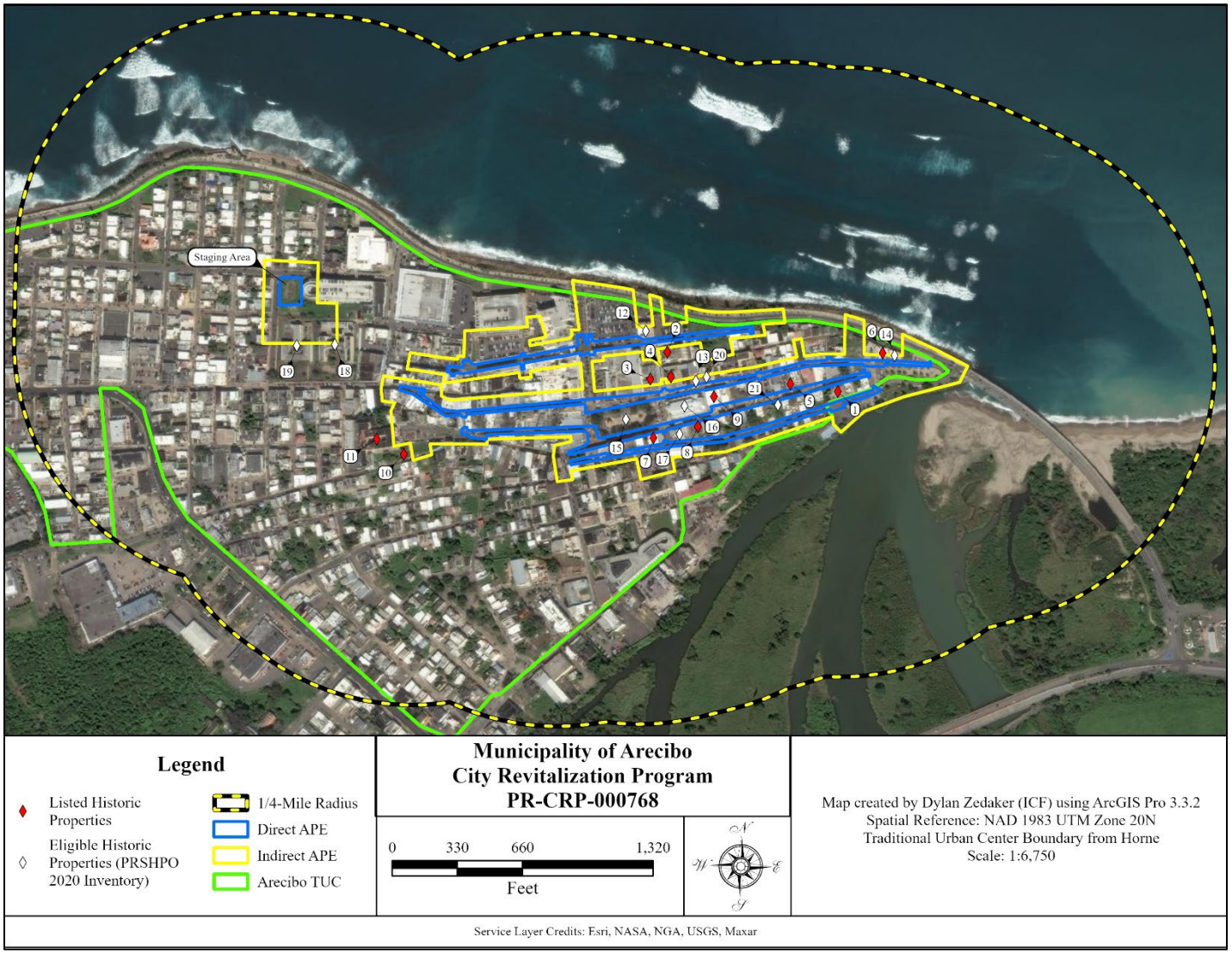


Figure 19. Project (Parcel) Location of Identified Architectural Resources – Aerial Map

Determination of NRHP-eligible properties within the Direct APE (as per the Program)

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

> A. That are associated with events that have made a significant contribution to the broad patterns of our history; or
> B. That are associated with the lives of persons significant in our past; or
> C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
> D. That have yielded, or may be likely to yield, information important in prehistory or history.[20]

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

There is no doubt the Arecibo's TUC merits inclusion in the NRHP as a historic district under Criteria A and C. Not only is it one of the oldest urban centers in the Puerto Rico Archipelago, being two and a half centuries old, but it includes architectural and urban typologies that are unique. The core includes important prehistoric and urban components, as well as historic ones.

The Arecibo TUC and the five streets that define the Direct APE (Antonio R Barceló Street, José de Diego Avenue, Betances Street, Gonzalo Marín Street, and Ariosto Cruz Street) are eligible for inclusion in the NRHP under Criterion A, for their association with events that have significantly contributed to the broad patterns of Arecibo's founding in 1616 and its historical development, and under Criterion C, as they embody the distinctive

[20] National Park Service, "National Register Bulletin How to Apply the National Register Criteria for Evaluation," pp 2-3; 12-24, Access: https://www.nps.gov/subjects/nationalregister/upload/NRB-15_web508.pdf.

characteristics of a type, period, and method of construction related to urban and architectural development. Streets are classified as structures by the NRHP.

Arecibo's urban grid—its blocks and streets—and their relationship with the town's seven plazas (Plaza Luis Muñoz Rivera, Plaza Francisco Jauregui, Plazuela Eugenio Sánchez López, Plazuela José A. Maquiavelo, Plazuela Manuel Pérez Avilés, Plazuela Manuel Ledesma, and Plaza Buenos Aires) reflect the original town planning and its continued evolution throughout history.

The 18th century map depicts José de Diego Avenue, north of Plaza Luis Muñoz Rivera, and Gonzalo Marín Street south of the Plaza Luis Muñoz. It is possible the second street to the north of the Plaza is either present-day Antonio R Barceló Street or José González Ginorio Street, was already in existence by the 18th century. (See Figure 5.)

By 1887, Ramón Emeterio Betances Street running from east to west between José de Diego Avenue on the north and San Felipe Street on the south, was depicted. The last thoroughfare included in the project, Ariosto Cruz Street, runs from Santiago Iglesias Avenue on the west to the PR-2 extension on the east, it is also clearly depicted in the 1887 one. (See Figure 7.)

Determination

The following historic properties have been identified within the Direct and Indirect/visual APE:

Direct Effect:

Archaeological Historic Properties

The Direct APE is located within the Arecibo Traditional Urban Center, an historic district eligible to the NRHP for extensive architectural and archaeological resources. El Caney (AR0100005), Sistema Pluvial (AR-48-H), and Calles (AR0100056) are three archaeological sites within the Direct APE that may be impacted during project activities. Even though project activities are taking place within previously disturbed areas, the potential to encounter unknown and/or displaced historic and prehistoric archaeological resources immediately underlying the disturbed areas remain. Additionally, there is the potential for unknown archaeological resources and human remains related to other nearby sites that are adjacent to the direct APE.

Criteria of Adverse Effect:

El Caney is an important and sensitive prehistoric habitation site that is NRHP-eligible. It contains a suite of artifacts including diagnostic ceramics, subsurface features, and both historic and prehistoric human burials. Any subsurface disturbance within the boundary of El Caney may potentially damage or displaced the archaeological deposit and poses an adverse effect to the site. Additionally, the relatively high potential to encounter human remains within the site boundary further reinforces that any subsurface disturbance presents an adverse effect.

Sistema Pluvial consists of a series of interconnected vaulted brick storm sewer tunnels that underlie much of the Arecibo TUC. Sections of this site have been exposed under José de Diego Avenue that retain integrity. Ground-disturbance related to the replacement of the streets may expose, potentially damage or displace, and have an adverse effect on this site.

Historic streets underlie many of the modern streets within the Direct APE. Excavations have only been performed for the section under José de Diego Avenue, which showed displaced fill containing prehistoric archaeological materials and intact historic pavements. Ground-disturbance related to the replacement of the streets may expose, potentially damage or displace, and potentially have an adverse effect on these resources.

Determination:
Due to the considerable size of the Direct APE, the western portion and eastern portion differ from each other regarding their potential for intact archaeological resources. In this discussion, the western portion of the APE is limited to the José de Diego Avenue from its intersection with Calle Palma west to the end of the Direct APE. An extensive number of archaeological surveys have been carried out on José de Diego Avenue (Phase I, II, III, and monitoring); therefore, the replacement of existing storm sewer inlets and light poles have only been proposed for this street and are not proposed anywhere else within the direct APE. Since the scope of work for the storm sewer inlets and light poles are largely limited to the area of previous disturbance (except for minor adjustments related to the updated street and sidewalk geometry), these activities are not likely to adversely affect any know archaeological historic properties. Additionally, since there are no documented human remains or burials through José de Diego Avenue, these activities pose no adverse effect on any known burials or potential human remains. The construction activities being performed on José de Diego Avenue require the largest amount of ground-disturbance and have only been proposed because this street has been systematically surveyed for archaeological resources.

Conversely, the archaeological site of El Caney (AR0100005) encompasses much of the eastern portion of the Direct APE from the Cathedral east to the end of the Direct APE. Many burials associated with El Caney have been excavated, and the site has a high probability of containing additional unknown human remains and prehistoric burials. In accordance with Principle 2 of the Advisory Council on Historic Preservation's (ACHP) *Policy Statement Regarding Burial Sites, Human Remains, and Funerary Objects: Explanations and Discussion* (ACHP 2023), construction activities should not be pursued if there is the potential to cause disturbance to burial sites unless no other alternatives are available and only after the consultation process has occurred. Due to increased risk for human remains within the Direct APE outside of José de Diego Avenue, the storm sewer inlets will only be cleaned in place with no ground-disturbance and no light poles will be replaced. The construction activities in the rest of Direct APE have been limited to the minimal replacement of the streets and sidewalks, and cleaning of the storm sewer inlets due to the high potential for archaeological resources and human remains at the depths required to replace either light poles or the storm sewer inlets.

Based on the results of our identification efforts, the Program has determined that there are three (3) archaeological historic properties that will not be adversely affected conditioned to the execution of an archaeological monitoring plan during ground-

disturbing activities. The monitoring plan will differentiate7 between expected archaeological finds and those that qualify as inadvertent discoveries. Lastly, the monitoring plan will provide additional guidance and protocol to follow in the event that human remains are encountered during the course of demolition or construction.

Direct Effect:
Architectural Historic Properties

The five (5) Arecibo streets that define the architectural urban blocks include eleven (11) NRHP-listed properties and ten (10) NRHP-eligible properties. These properties showcase a variety of architectural styles with high artistic value and encompass a range of urban and architecture typologies dating to different periods, along with a mix of property uses—including residential, governmental, recreational, religious, and commercial.

The composition of the streets is particularly interesting: the space is defined vertically by the height of the architectural building blocks and horizontally by a surface plane that is very shallow in comparison to its verticality. The streets have witnessed significant historical and architectural superficial transformations. Since their creation, the street - spaces have undergone minor changes.

The five (5) streets (Direct APE) that form part of the Arecibo TUC have retained their essential character-defining features and their linear orientations have remained largely unaltered.

These streets continue to exhibit all seven aspects of integrity as defined by the NRHP.[21]

The design follows The Secretary of the Interior's Standards for Rehabilitation.[22] Given the nature of the proposed work and based on the results of our historic property identification efforts, the Program has determined that project actions will have no adverse effect along the five streets.

Supporting Evidence

[21] National Park Service, "National Register Bulletin How to Apply the National Register Criteria for Evaluation," pp 44 - 4
[22] National Park Service, US Department of the Interior, "The Secretary of the Interior's Standards for Rehabilitation," Access: https://www.nps.gov/subjects/taxincentives/secretarys-standards-rehabilitation.htm. National Park Service, US Department of the Interior, "The Illustrated Guidelines for Rehabilitating Historic Buildings, Access: https://www.nps.gov/crps/tps/rehab-guidelines/index.htm.

The improvements are compatible with The Secretary of the Interior's Standards for Rehabilitation, specifically Standards 9 and 10. As is known, these two standards guide the design of compatible designs:

> 9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
>
> 10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.[23]

Indirect Effect:

Based on the results of our historic property identification efforts, the Program has determined that the project actions will not affect the historic properties within the Visual APE. The Visual APE encompasses the NRHP-listed and NRHP-eligible properties that form the urban blocks along both sides of the five roads, as well as the portion within a quarter mile of the Arecibo TUC.

The proposed undertaking will have no adverse effect on or cause any alteration to the views, nor will it introduce any atmospheric or audible elements that may diminish the historic integrity of any of the properties that form the Visual APE and the Arecibo TUC.

[23] *Idem.*

Recommendation

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): To address adverse effects to intact cultural deposits within the Direct APE, including possible site extensions related to the prehistoric site of El Caney (AR0100005), underlying historic road pavements, and the underlying historic tunnel system, archaeological monitoring by a SOI-Qualified Archaeological Monitor is required for all work requiring ground disturbance such as excavation and demolition. An Archaeological Monitoring Plan shall be submitted by an SOI-Qualified Archaeologist to the PRSHPO and approved prior to any work being performed.

☐ Adverse Effect

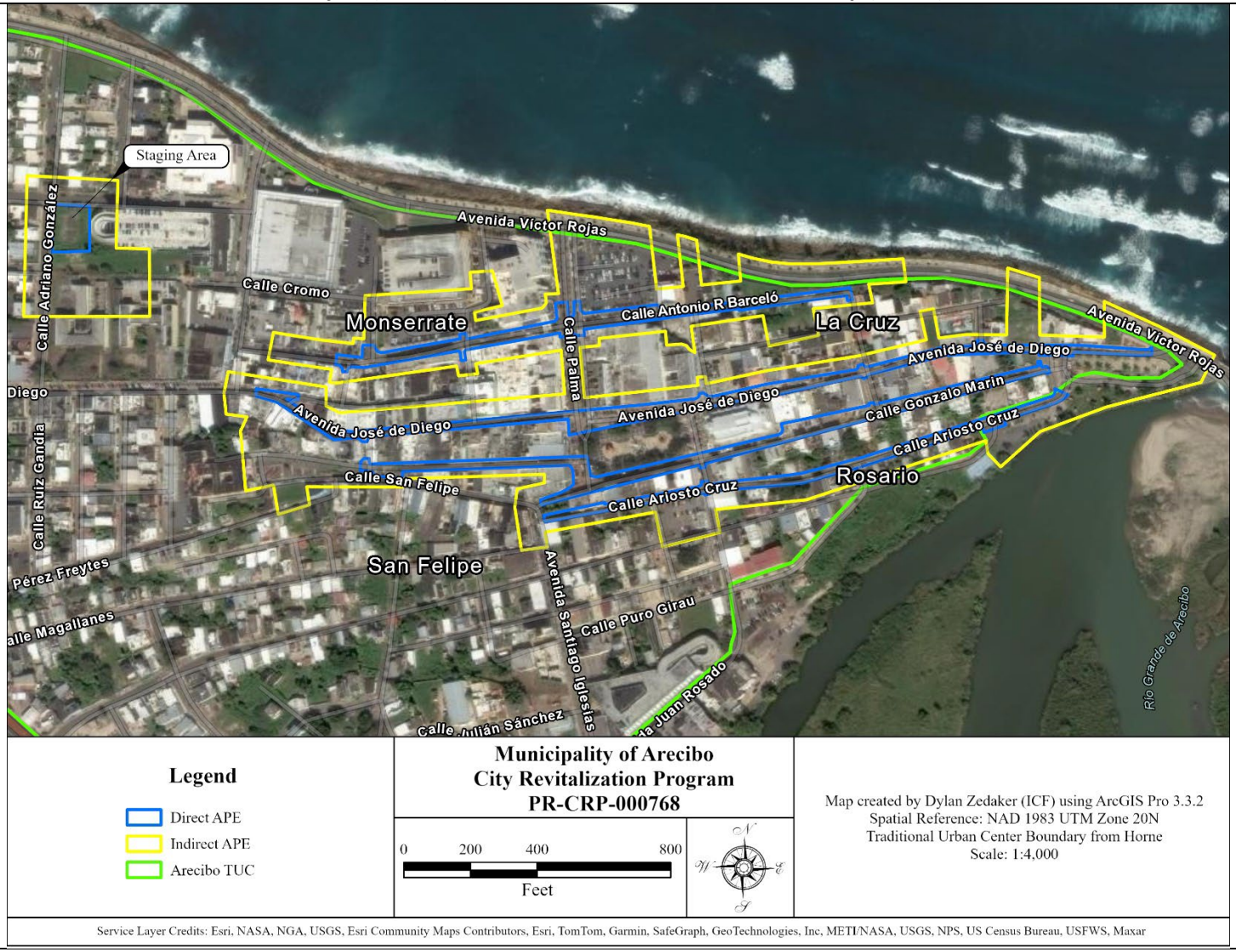
Proposed Resolution (if appliable):

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:

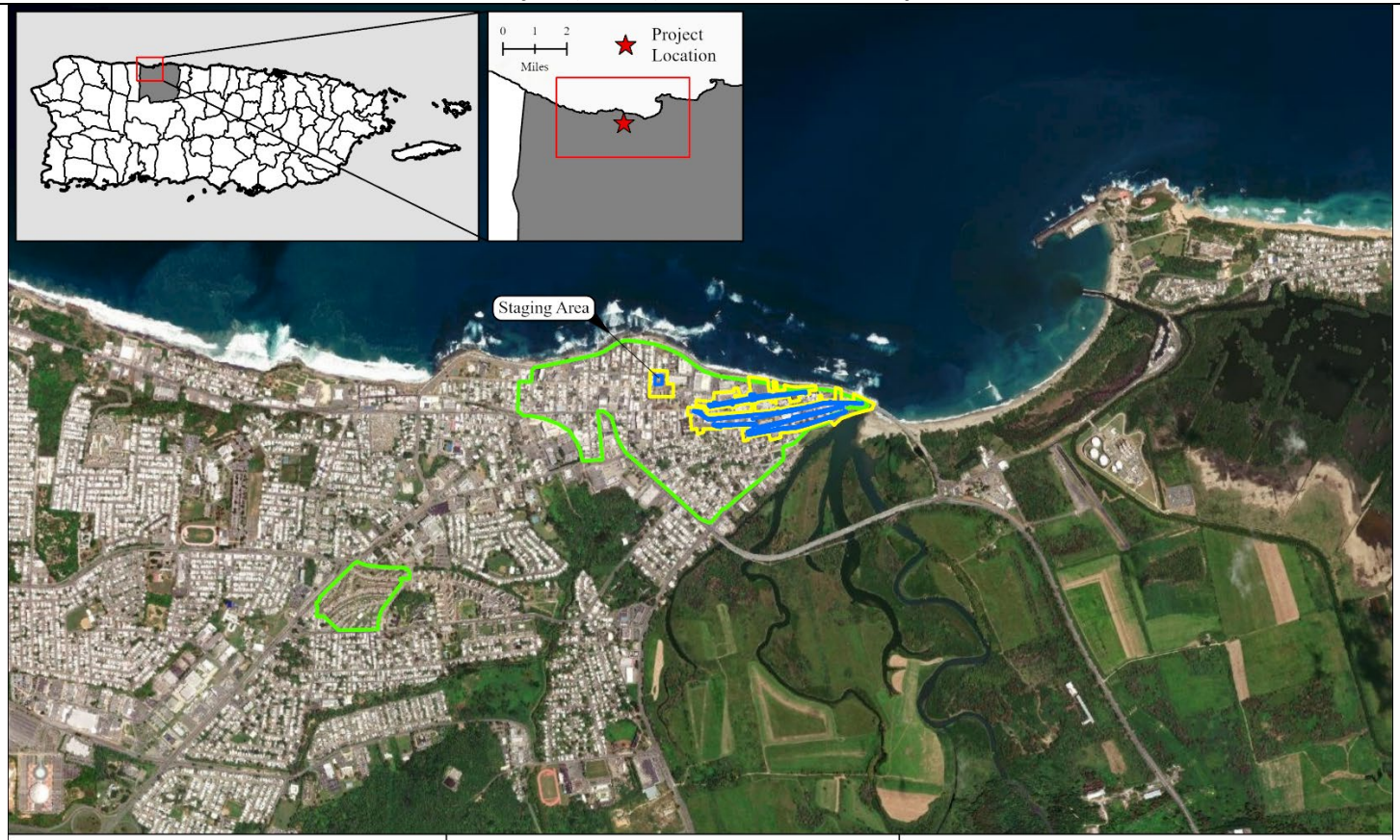
Puerto Rico 2017 Disaster Recovery, CDBG-DR Program **City Revitalization Program (City-Rev)** **Section 106 NHPA Effect Determination**	DEPARTMENT OF HOUSING GOVERNMENT OF PUERTO RICO
Subrecipient: Municipality of Arecibo	
Case ID: PR-CRP-000768	
Project Name: Improvements and Revitalization of Betances, Gonzalo Marín, José de Diego, Antonio R. Barceló, and Ariosto Cruz Streets in the Urban Center	**City**: Arecibo, PR

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



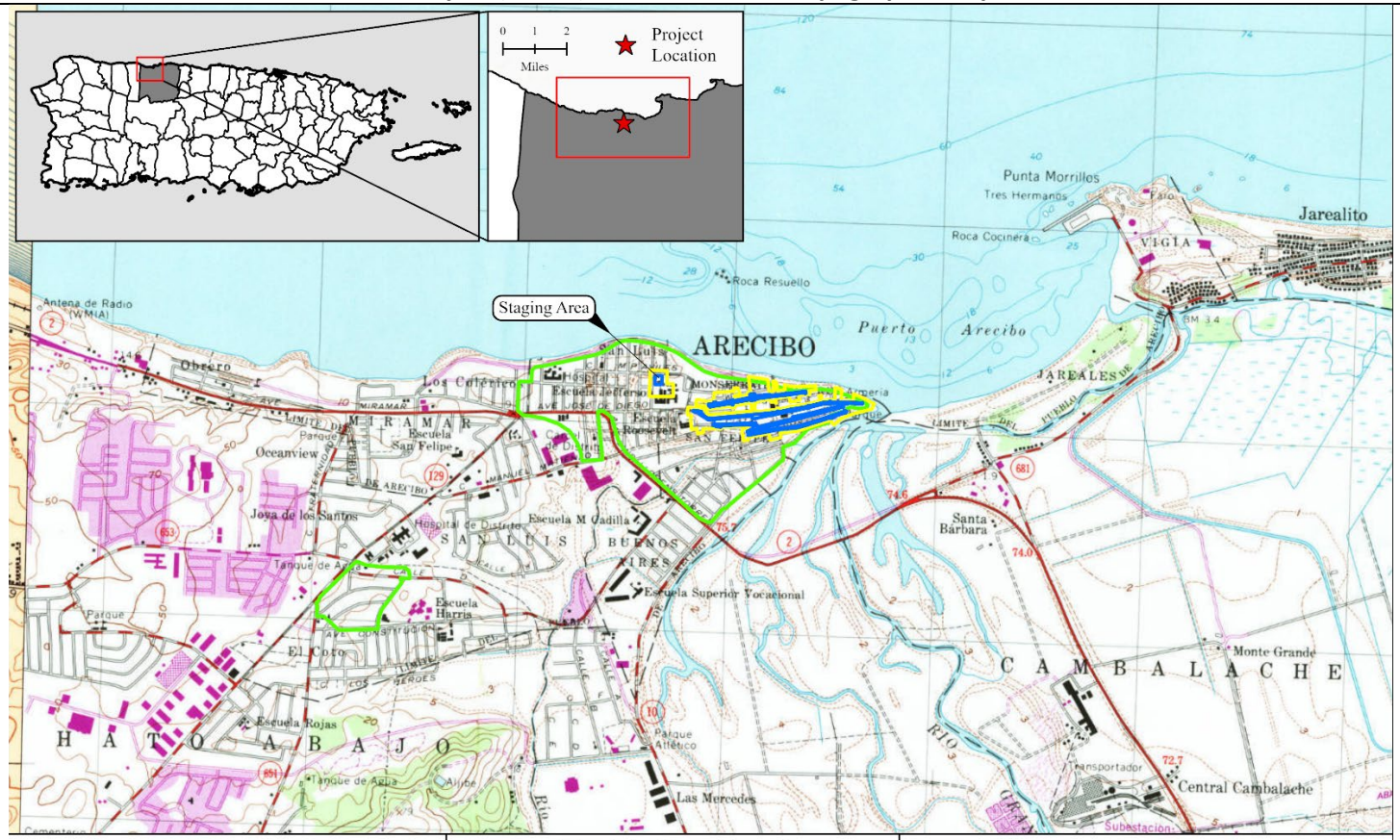
Puerto Rico 2017 Disaster Recovery, CDBG-DR Program **City Revitalization Program (City-Rev)** **Section 106 NHPA Effect Determination**	DEPARTMENT OF HOUSING GOVERNMENT OF PUERTO RICO
Subrecipient: Municipality of Arecibo	
Case ID: PR-CRP-000768	
Project Name: Improvements and Revitalization of Betances, Gonzalo Marín, José de Diego, Antonio R. Barceló, and Ariosto Cruz Streets in the Urban Center	**City**: Arecibo, PR

Project (Parcel) Location - Aerial Map

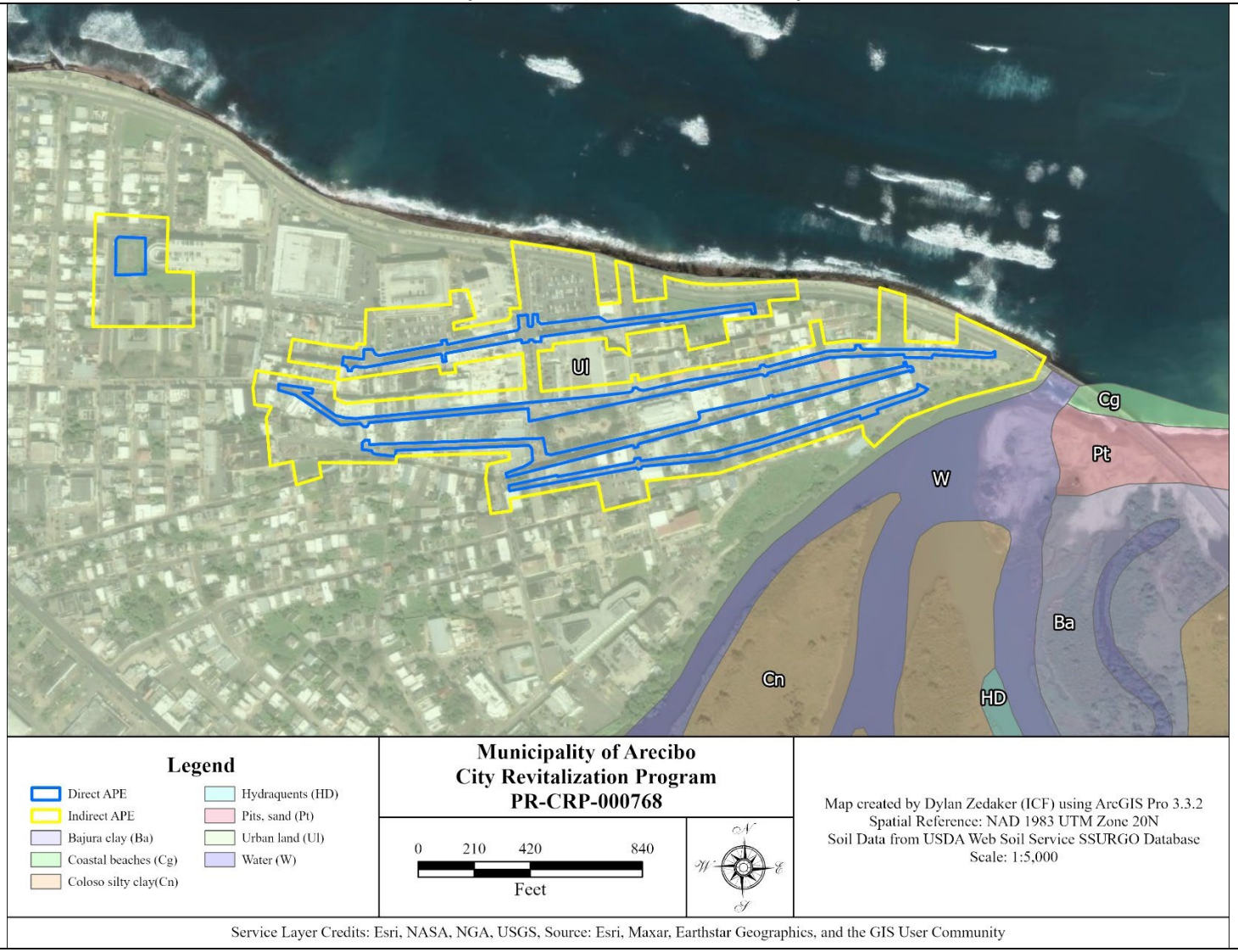


Puerto Rico 2017 Disaster Recovery, CDBG-DR Program **City Revitalization Program (City-Rev)** **Section 106 NHPA Effect Determination**	DEPARTMENT OF HOUSING GOVERNMENT OF PUERTO RICO
Subrecipient: Municipality of Arecibo	
Case ID: PR-CRP-000768	
Project Name: Improvements and Revitalization of Betances, Gonzalo Marín, José de Diego, Antonio R. Barceló, and Ariosto Cruz Streets in the Urban Center	**City**: Arecibo, PR

Project (Parcel) Location – USGS Topographic Map

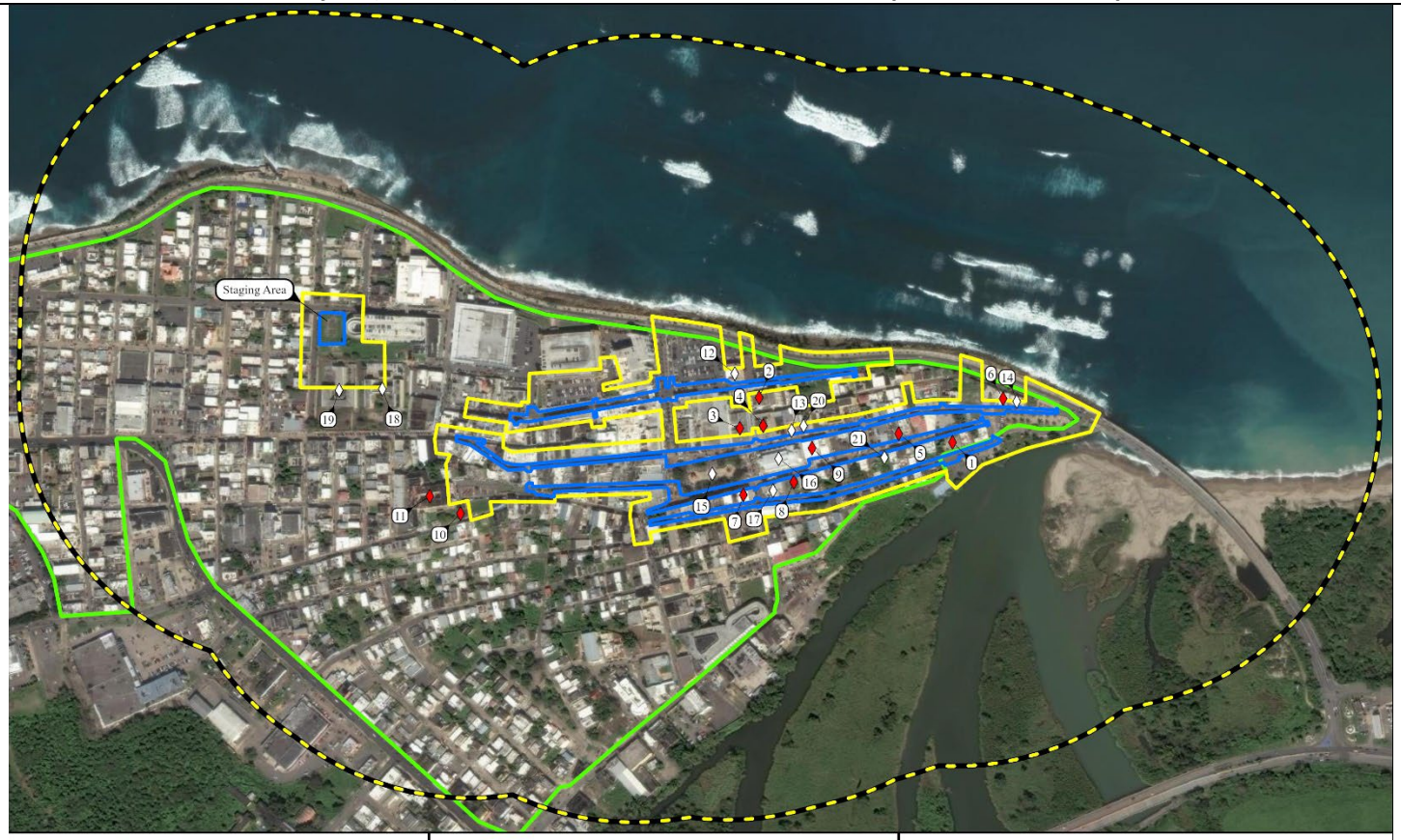


Project (Parcel) Location – Soils Map



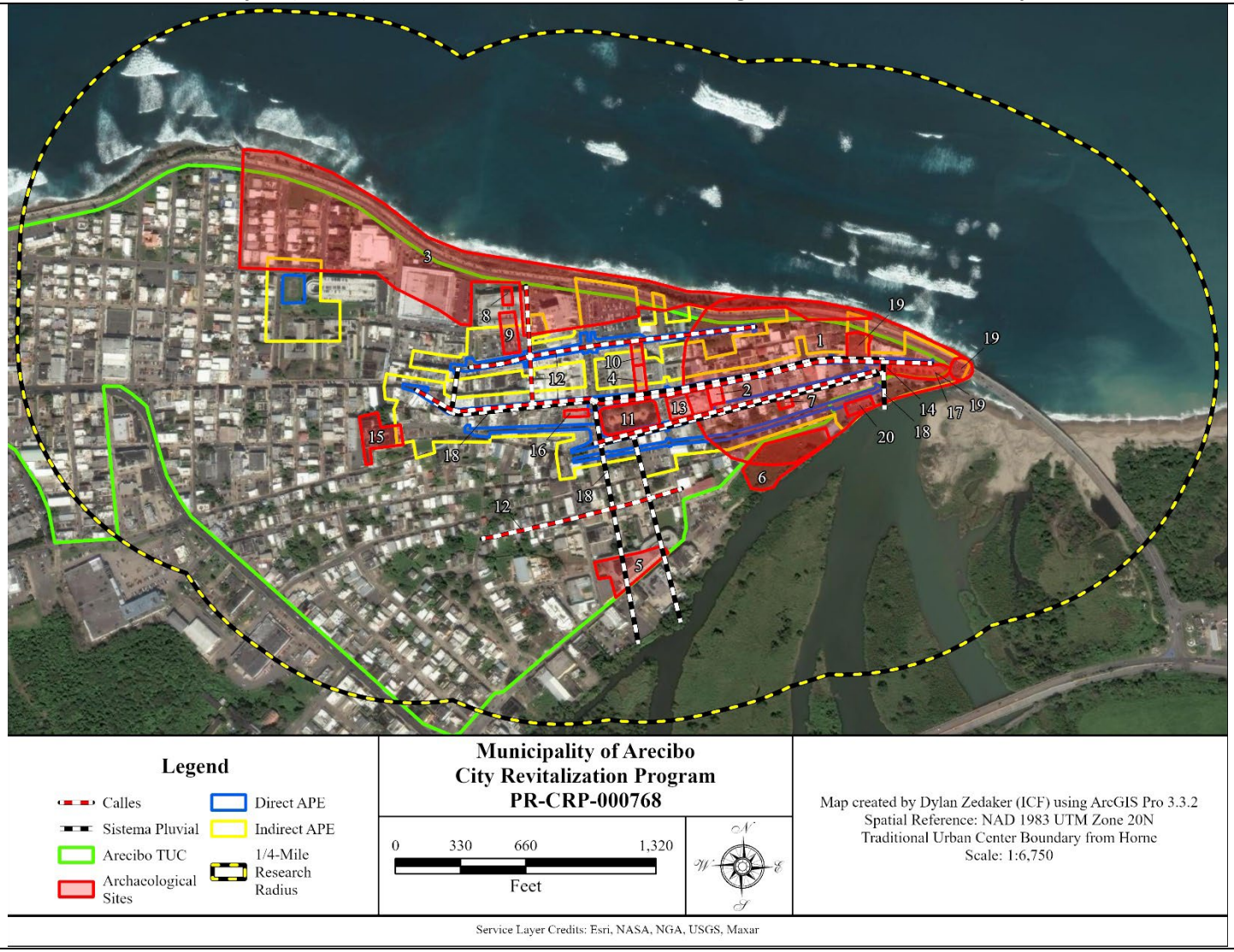
Puerto Rico 2017 Disaster Recovery, CDBG-DR Program **City Revitalization Program (City-Rev)** **Section 106 NHPA Effect Determination**	DEPARTMENT OF HOUSING GOVERNMENT OF PUERTO RICO
Subrecipient: Municipality of Arecibo	
Case ID: PR-CRP-000768	
Project Name: Improvements and Revitalization of Betances, Gonzalo Marín, José de Diego, Antonio R. Barceló, and Ariosto Cruz Streets in the Urban Center	**City**: Arecibo, PR

Project (Parcel) Location with Identified Historic Properties – Aerial Map



Project (Parcel) Location with Identified Historic Properties – USGS Topographic Map

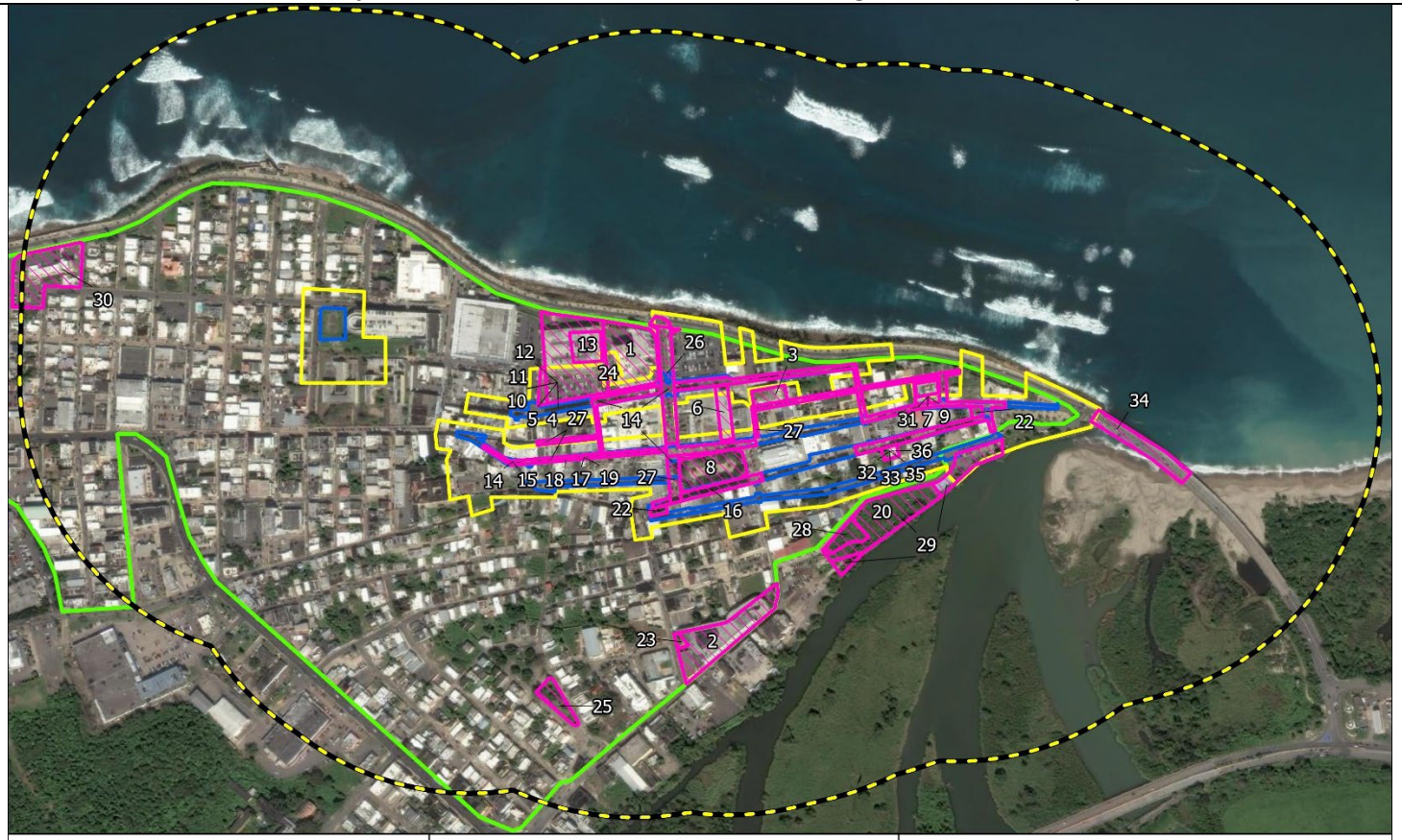
Project (Parcel) Location with Identified Archaeological Resources – Aerial Map



Project (Parcel) Location with Identified Archaeological Resources – USGS Topographic Map

Puerto Rico 2017 Disaster Recovery, CDBG-DR Program **City Revitalization Program (City-Rev)** **Section 106 NHPA Effect Determination**	DEPARTMENT OF HOUSING GOVERNMENT OF PUERTO RICO
Subrecipient: Municipality of Arecibo	
Case ID: PR-CRP-000768	
Project Name: Improvements and Revitalization of Betances, Gonzalo Marín, José de Diego, Antonio R. Barceló, and Ariosto Cruz Streets in the Urban Center	**City**: Arecibo, PR

Project (Parcel) Location with Previous Investigations - Aerial Map



Legend
- Arecibo TUC
- Cultural Resource Survey
- 1/4-Mile Research Radius
- Direct APE
- Indirect APE

Municipality of Arecibo
City Revitalization Program
PR-CRP-000768

0 330 660 1,320
Feet

Map created by Dylan Zedaker (ICF) using ArcGIS Pro 3.3.2
Spatial Reference: NAD 1983 UTM Zone 20N
Traditional Urban Center Boundary from Horne
Scale: 1:6,750

Service Layer Credits: Esri, NASA, NGA, USGS, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Puerto Rico 2017 Disaster Recovery, CDBG-DR Program **City Revitalization Program (City-Rev)** **Section 106 NHPA Effect Determination**	DEPARTMENT OF HOUSING GOVERNMENT OF PUERTO RICO
Subrecipient: Municipality of Arecibo	
Case ID: PR-CRP-000768	
Project Name: Improvements and Revitalization of Betances, Gonzalo Marín, José de Diego, Antonio R. Barceló, and Ariosto Cruz Streets in the Urban Center	**City**: Arecibo, PR

Project (Parcel) Location with Previous Investigations – USGS Topographic Map

Photograph Key

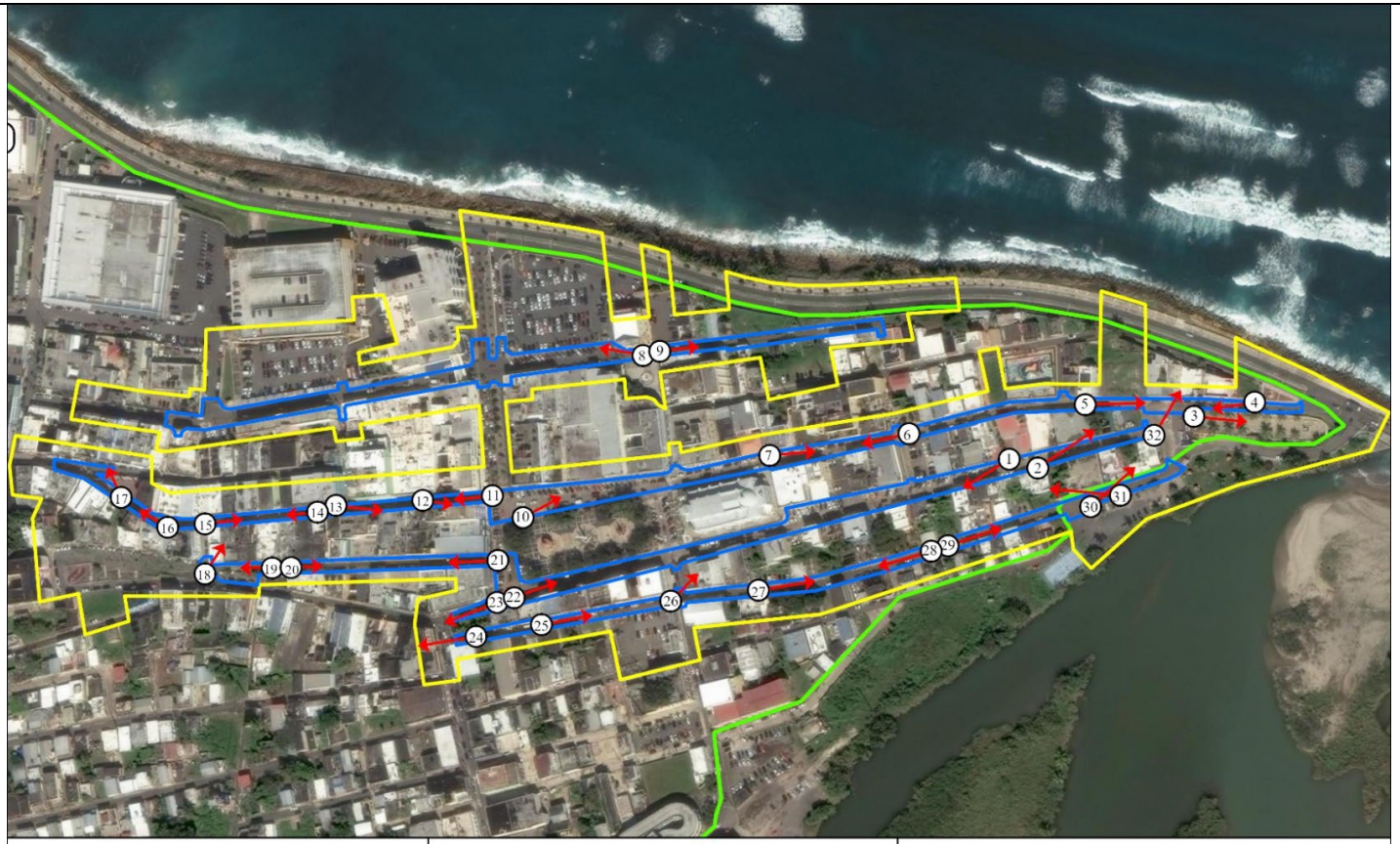


Photo #: 1	**Description:** Gonzalo Marín Street, towards the public plaza.
Date: 11/4/23	**Direction:** SW

Photo #: 2	**Description:** Gonzalo Marín Street, towards *Paseo Víctor Rojas*.
Date: 11/4/23	**Direction:** NE

Photo #: 3	**Description:** *Paseo Víctor Rojas* at the end of *La Puntilla*.
Date: 11/4/23	**Direction:** SE

Photo #: 4	**Description:** José de Diego Avenue, north of *Paseo Víctor Rojas*.
Date: 11/4/23	**Direction:** SW

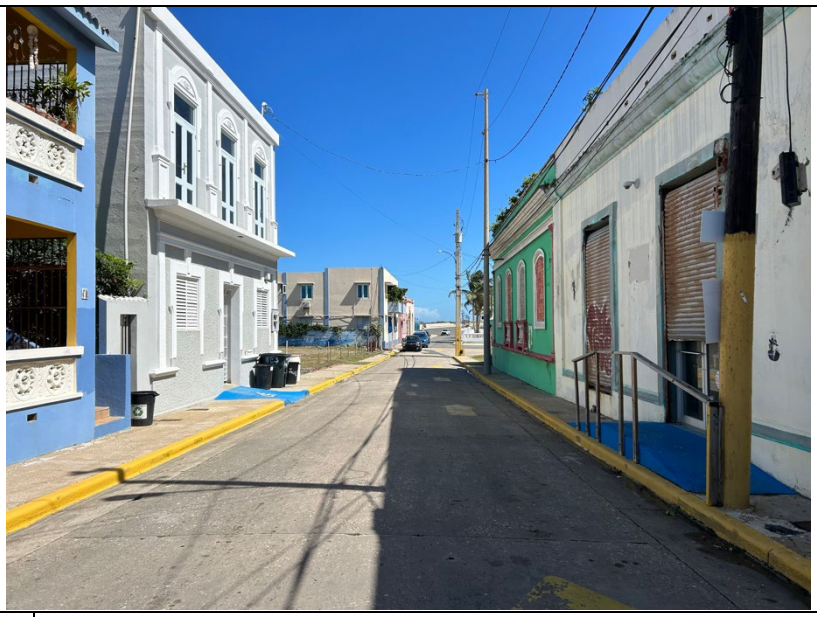


Photo #: 5	**Description:** José de Diego Avenue, toward *Paseo Víctor Rojas.*
Date: 11/4/23	**Direction:** E

Photo #: 6	**Description:** José de Diego Avenue and Salicrup Street intersection.
Date: 11/4/23	**Direction:** SW

Photo #: 7	**Description:** José de Diego Avenue, north of the Catholic church.
Date: 11/4/23	**Direction:** SE

Photo #: 8	**Description:** Antonio R. Barceló Street, north of *Plaza del Corregimiento*.
Date: 11/4/23	**Direction:** NW

Photo #: 9 **Date:** 11/4/23	**Description:** Antonio R. Barceló Street, north of *Plaza del Corregimiento*. **Direction:** NE

Photo #: 10 **Date:** 11/4/23	**Description:** José de Diego Avenue, north of the public plaza. **Direction:** NE

Photo #: 11	**Description:** Entrance to *Paseo José de Diego* from the public plaza.
Date: 11/4/23	**Direction:** SW

Photo #: 12	**Description:** *Paseo José de Diego*, toward the public plaza.
Date: 11/4/23	**Direction:** SE

Photo #: 13 **Date:** 11/4/23	**Description:** *Paseo José de Diego* and Mariano Vidal Street intersection. **Direction:** SE

Photo #: 14 **Date:** 11/4/23	**Description:** *Paseo José de Diego* and Mariano Vidal Street intersection. **Direction:** SW

Photo #: 15	**Description:** *Paseo José de Diego*, toward the public plaza.
Date: 11/4/23	**Direction:** NE

Photo #: 16	**Description:** *Paseo José de Diego*, toward *Plazuela Machiavelo*.
Date: 11/4/23	**Direction:** NW

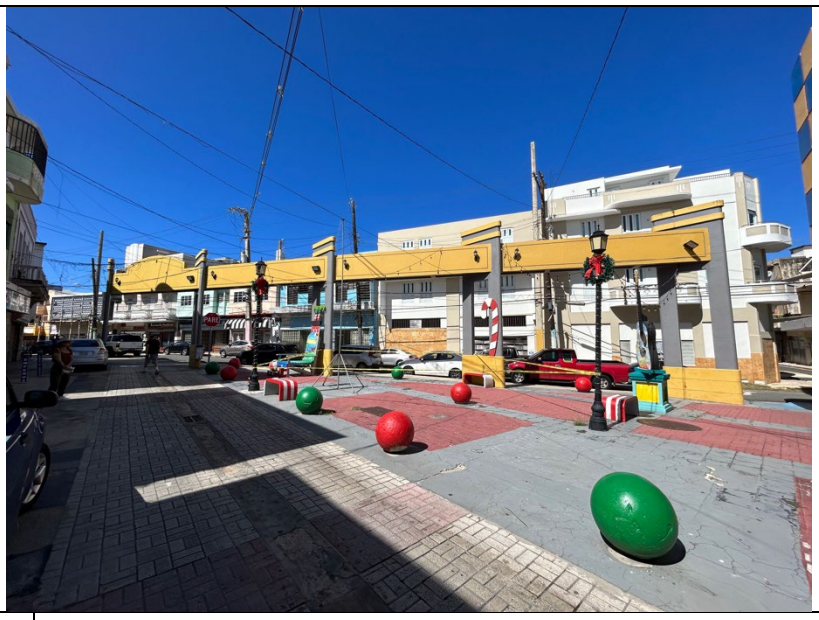


Photo #: 17	**Description:** *Plazuela Machiavelo*, toward Capitán Correa Street.
Date: 11/4/23	**Direction:** NW

Photo #: 18	**Description:** Betances Street and *Callejón Lefrance* intersection.
Date: 11/4/23	**Direction:** NE

Photo #: 19	**Description:** Betances Street, toward *Cerro de la Monserrate*.
Date: 11/4/23	**Direction:** W

Photo #: 20	**Description:** Betances Street, toward the public plaza.
Date: 11/4/23	**Direction:** E

Photo #: 21	**Description:** Betances Street, from Palma Street and the public plaza.
Date: 11/4/23	**Direction:** W

Photo #: 22	**Description:** Gonzalo Marín Street, southwest corner of public plaza.
Date: 11/4/23	**Direction:** NE

Photo #: 23	**Description:** Gonzalo Marín Street, toward *Plaza del Dominó*.
Date: 11/4/23	**Direction:** SW

Photo #: 24	**Description:** Ariosto Cruz Street, south of *Plaza del Dominó*.
Date: 11/4/23	**Direction:** SW

Photo #: 25 **Date:** 11/4/23	**Description:** Ariosto Cruz Street, toward Eugenio María de Hostos Street. **Direction:** NE

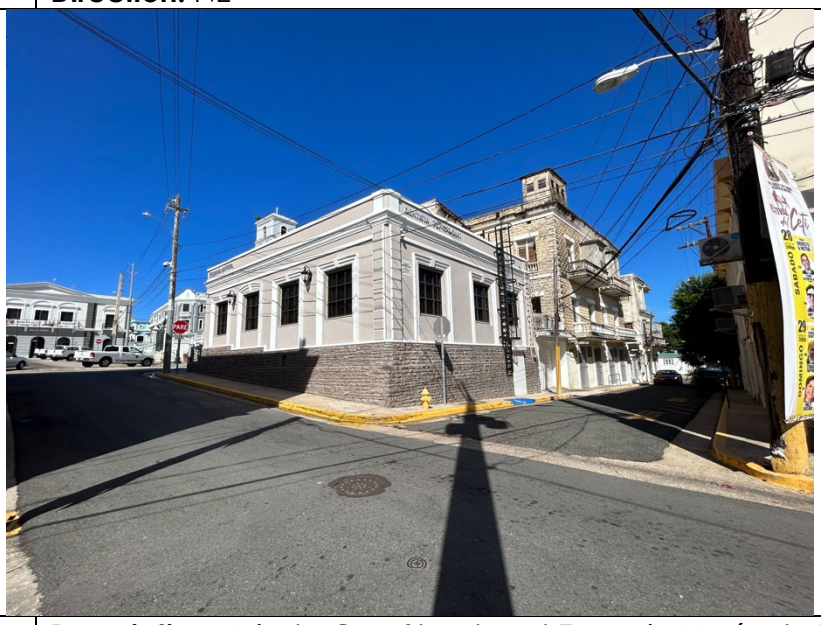


Photo #: 26 **Date:** 11/4/23	**Description:** Ariosto Cruz Street and Eugenio María de Hostos Street intersection. **Direction:** NE

Photo #: 27	**Description:** Ariosto Cruz Street, toward *Paseo Víctor Rojas*.
Date: 11/4/23	**Direction:** NE

Photo #: 28	**Description:** Ariosto Cruz Street, toward *Paseo Víctor Rojas.*
Date: 11/4/23	**Direction:** SW

Photo #: 29	**Description:** Ariosto Cruz Street, toward Eugenio María de Hostos Street.
Date: 11/4/23	**Direction:** NE

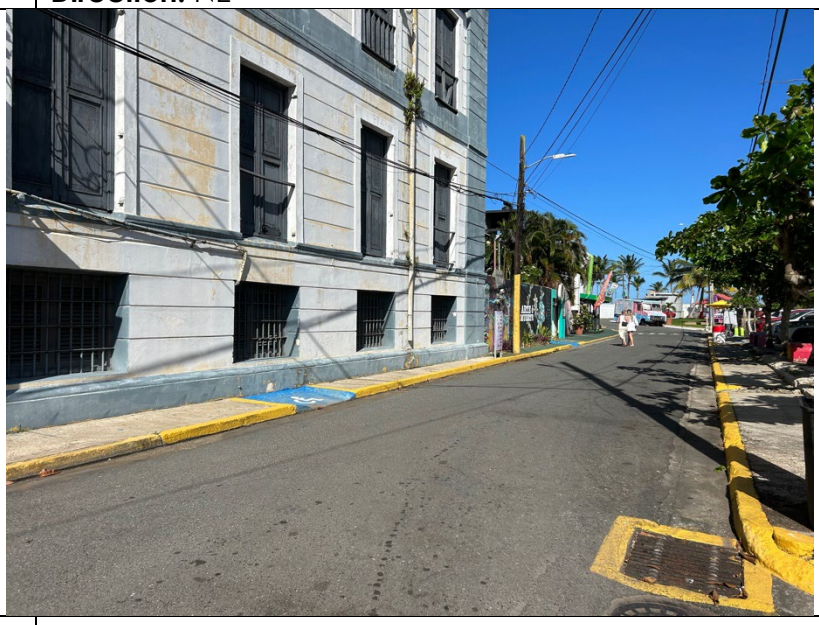


Photo #: 30	**Description:** Ariosto Cruz Street, south of Casa Ulanga building.
Date: 11/4/23	**Direction:** NE

Photo #: 31	**Description:** Ariosto Cruz Street, south of Casa Ulanga building.
Date: 11/4/23	**Direction:** NW

Photo #: 32	**Description:** Statue of Liberty, west of *Paseo Víctor Rojas*.
Date: 11/4/23	**Direction:** NE

References

Abreu, Sara E, "La economía de Arecibo al 1930: Notas para su historia en datos" (MS: Arecibo, Puerto Rico), Access: https://www.arecibo.inter.edu/wp-content/uploads/biblioteca/pdf/Registro_de_comercios_en_Arecibo.pdf.

Cadilla, Francisco M, *Los ochocentistas*, Barcelona: Ediciones Rumbos, 1961.

Cruz Ramírez, Eileen Y, *Arecibo Notas para su Historia*, San Juan, Puerto Rico: Oficina Estatal de Conservación Histórica, 1986.

Del Campo, Félix Julián, (MS: San Juan, Puerto Rico, no date), 30-55.

Department of the Interior, Historic American Engineering Record (HAER), "Puente del Caño Perdomo (Bridge No 54) City of Arecibo / Tanamá Neighborhood Spanning the Caño Perdomo Channel, Arecibo, Arecibo County, Puerto Rico HAER No PR-39," MS: Washington DC, 2001.

_____, "Puente del Caño Carate (Bridge No 53) City of Arecibo / Tanamá Neighborhood Spanning the Caño Carate Channel, Arecibo, Arecibo County, Puerto Rico HAER No PR-40," MS: Washington DC, 2001.

_____, "Puente del Caño San Francisco (Bridge No 47) City of Arecibo / Tanamá Neighborhood Spanning the Caño San Francisco Channel, Arecibo, Arecibo County, Puerto Rico HAER No PR-47," MS: Washington DC, 2001.

_____, "Puente del Río Grande de Arecibo (Bridge No 44) City of Arecibo / Cambalache Neighborhood Spanning the Rio Grande Arecibo Channel, Arecibo, Arecibo County, Puerto Rico HAER No PR-42," MS: Washington DC, 2001.

Department of Transportation and Public Works, Puerto Rico Highway Authority, San Juan, Puerto Rico, "Alternative Analysis Replacement of Bridges Number 44-54 over the Grande de Arecibo River [*sic*] and other Bodies of Water PR-2 San Juan – Arecibo, AC-200083," MS; San Juan, Puerto Rico, 2000.

_____, "Final Version of Revised Documentation Replacement of Bridges 44-54 Arecibo, Puerto Rico, AC-200083, PRSHPO 03-29-99-02, HAER Numbers PR-39, PR-40, PR-41, and PR-42," MS: San Juan, Puerto Rico, 2001.

_____, Puerto Rico Highway Authority, San Juan, Puerto Rico, "A Special Report on Puerto Rico Highway Authority," MS: Government Development Bank, 1968, Access: https://issuu.com/coleccionpuertorriquena/docs/prha_june_1968.

Herrera Valencia, Karen Noemí, "Recuperando la historia eliminada del Arrabal La Playa de Arecibo," *Ingenios revista de investigación y labor creativa* (San Juan, Puerto Rico, 2018), Access: https://www.ingeniosupr.com/vol-5-1/2018/10/13/recuperando-la-historia-eliminada-del-arrabal-la-playa-de-arecibo.

Institute of Puerto Rican Culture, San Juan, Puerto Rico, "Zona Histórica de Arecibo Propuesta 2020-2011," MS: Patrimonio Histórico Edificado Unit, 2011.

Méndez Bonilla, Ivan F, "Evaluación de Recursos Culturales Fases I-A – I-B Proyecto: Reemplazo de Once (11) Puentes sobre el Río Grande Arecibo Puentes #54 y #1038 entre intersección carreteras PR-2 y PR-10 e intersecciones PR-2 y PR-681, Arecibo, Puerto Rico," MS: Carolina, Puerto Rico 1999.

Mercado Díaz, Mario, "'El pueblo murió:' La crisis económica de Arecibo," *Prensa sin prisa*, 23 October 2015; Access: https://www.80grados.net/el-pueblo-murio-la-crisis-economica-de-arecibo-puerto-rico/.

Oliver Aresti, José R, "Aportaciones a la Historia de Arecibo: de la 'Fundación' o 'No Fundación' de Arecibo, MS: Arecibo, Puerto Rico, 1951.

Pabón Charneco, Arleen, *La arquitectura patrimonial puertorriqueña y sus estilos*, San Juan, Puerto Rico: Oficina Estatal de Conservación Histórica, 2010.

Puerto Rico State Historic Preservation Office, San Juan, Puerto Rico, "Proyecto de reconocimiento de inventario de centros urbanos de los 78 municipios de Puerto Rico," 2020-In progress.

Puerto Rico Department of Transportation and Public Works. 2025, Geographic Information Systems Office, Puerto Rico Highway and Transportation Authority. Electronic Document. https://fotosaereas.dtop.pr.gov/apps/Shop_ACTGIS/ accessed February 9, 2025.

_____, "Sitios Arqueológicos de Arecibo - Resumen Arqueológico del Municipio de Arecibo," 2016, Access: https://oech.maps.arcgis.com/apps/PublicInformation/index.html?appid=44cae07145c849d0950a4f7db40f9ef2.

Pumarada, O'Neill, Luis F, "Historic Bridges in Puerto Rico National Register of Historic Places Thematic Nomination," San Germán, Puerto Rico, 1995.

Rouse, Irving, *Scientific Survey of Porto Rico and the Virgin Islands*, New York: New York Academy of Sciences, 1952.

Thompson, Lanny and María Dolores Luque (editors), *The Cartographic Journey of Lieutenant William H Armstrong* (Colombia, Editorial Nomos S A, 2020), Volume 1.

United States Department of Agriculture. 2025, Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Electronic document. https://websoilsurvey.sc.egov.usda.gov/ accessed March 3, 2025.

United States Geological Service. 2025, USGS Earth Explorer Historic Aerial Image Database. Electronic document. https://earthexplorer.usgs.gov/ accessed March 3, 2025.

US Army Corps of Engineers, Jacksonville, Florida, "Report for PR-2 Bridge over Rio Grande Arecibo," MS: Jacksonville, Florida, 1999.

Velázquez, Cynthia, *Arecibo . . . Así era*, Ponce, Puerto Rico: Imprenta Las Américas, 1998.

PR-CRP-000768

Improvements and Revitalization of Betances and Gonzalo Marin Streets, Jose De Diego, Antonio R. Barcelo and Ariosto Streets in the Urban Center

Arecibo, Puerto Rico

90% Design Drawings

PR-CRP-000768
URBAN CENTER STREET AND SIDEWALK RESTORATION MUNICIPALITY OF ARECIBO

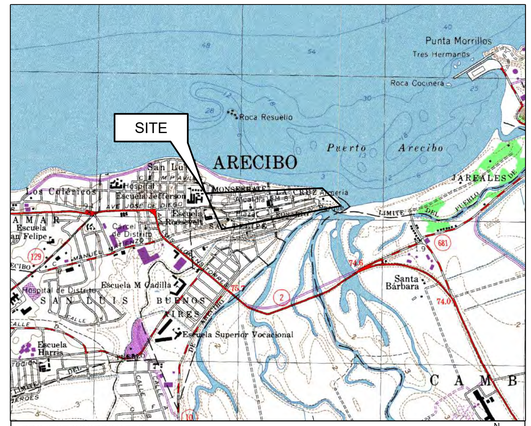
ARECIBO PUERTO RICO

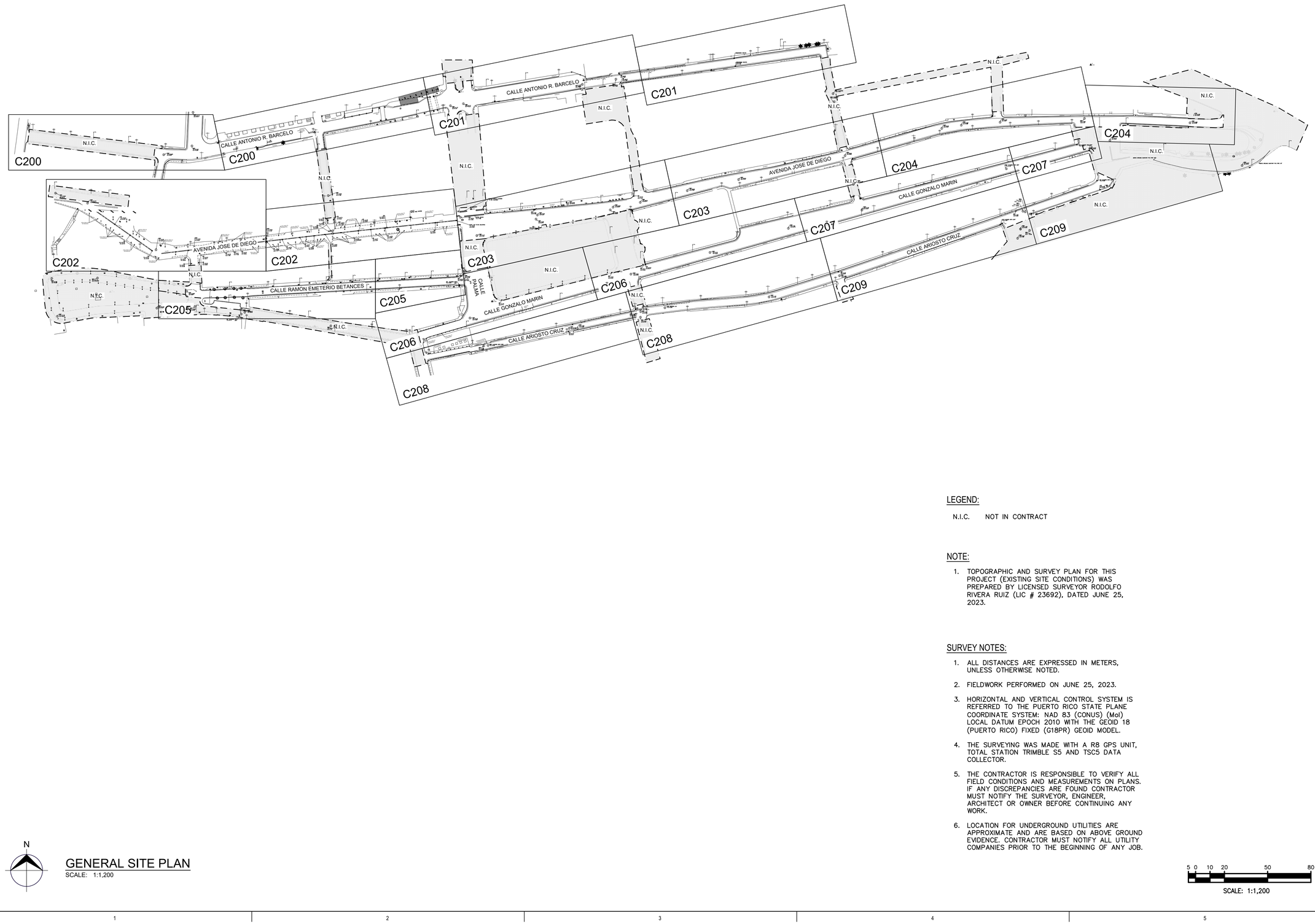
90% DESIGN DRAWINGS

INDEX

SHEET	DESCRIPTION:
GENERAL PLANS	
T000	TITTLE SHEET INDEX, LOCATION MAP, FLOOD MAP & CALIFICATION
C001	GENERAL SITE PLAN
CIVIL PLANS	
D100-D101	DEMOLITION PLAN CALLE ANTONIO ROMERO BARCELO
D102-D104	DEMOLITION PLAN AVE. JOSE DE DIEGO
D105	DEMOLITION PLAN CALLE RAMON E. BETANCES
D106-D107	DEMOLITION PLAN CALLE GONZALO MARIN
D108-D109	DEMOLITION PLAN CALLE ARIOSTO CRUZ
C200-C201	LAYOUT PLAN CALLE ANTONIO ROMERO BARCELO
C202-C204	LAYOUT PLAN AVE. JOSE DE DIEGO
C205	LAYOUT PLAN CALLE RAMON E. BETANCES
C206-C207	LAYOUT PLAN CALLE GONZALO MARIN
C208-C209	LAYOUT PLAN CALLE ARIOSTO CRUZ
C230-C231	TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE ANTONIO ROMERO BARCELO
C232-C234	TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN AVE. JOSE DE DIEGO
C235	TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE RAMON E. BETANCES
C236-C237	TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE GONZALO MARIN
C238-C239	TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE ARIOSTO CRUZ
240	TRAFFIC SIGNS TABLES
241	PAVEMENT MARKINGS DETAILS
C480	EROSION AND SEDIMENTATION CONTROL PLAN - STAGING AREA
C481-C482	EROSION AND SEDIMENTATION CONTROL PLAN CALLE ANTONIO ROMERO BARCELO
C483-C485	EROSION AND SEDIMENTATION CONTROL PLAN AVE. JOSE DE DIEGO
C486	EROSION AND SEDIMENTATION CONTROL PLAN CALLE RAMON E. BETANCES
C487-C488	EROSION AND SEDIMENTATION CONTROL PLAN CALLE GONZALO MARIN
C489-C490	EROSION AND SEDIMENTATION CONTROL PLAN CALLE ARIOSTO CRUZ
C491	EROSION AND SEDIMENTATION CONTROL DETAILS
C700-C704	TYPICAL SECTIONS & DETAILS
MOT1	MAINTENANCE OF TRAFFIC GENERAL NOTES
MOT2	MAINTENANCE OF TRAFFIC TYPICAL APLICATIONS
MOT3	MAINTENANCE OF TRAFFIC CONSTRUCTION SIGNS

SHEET	DESCRIPTION:
ARCHITECTURAL PLANS	
AS100	ARCHITECTURAL SITE PLAN
AE101-AE102	PROPOSED LAYOUT PLAN
AE103	PROPOSED LAYOUT PLAN & SCHEDULE
ELECTRICAL PLANS	
E100	GENERAL LIGHTING SITE PLAN
E200-E201	CALLE ANTONIO ROMERO BARCELO - PARTIAL LIGHTING SITE PLAN
E202-E204	AVE. JOSE DE DIEGO - PARTIAL LIGHTING SITE PLAN
E205	CALLE RAMON E. BETANCES - PARTIAL LIGHTING SITE PLAN
E206-E207	CALLE GONZALO MARIN - PARTIAL LIGHTING SITE PLAN
E208-E209	CALLE ARIOSTO CRUZ - PARTIAL LIGHTING SITE PLAN
E300	GENERAL NOTES AND LEGEND
E301-E302	PHOTOS - EXISTING CONDITIONS


SITE
ARECIBO
Punta Morrillos
Tres Hermanos
Roca Cocinera
Roca Resuelto
Puerto Arecibo
San Llo
Los Cerezos
Escuela Intermedia
Escuela Superior
Escuela Elemental
Monserrate
Cruz Roja Americana
Cementerio Municipal
Escuela Rafael Cordero
Escuela Rafael Cordero
Escuela Rafael Cordero



LEGEND:

N.I.C. NOT IN CONTRACT

NOTE:

1. TOPOGRAPHIC AND SURVEY PLAN FOR THIS PROJECT (EXISTING SITE CONDITIONS) WAS PREPARED BY LICENSED SURVEYOR RODOLFO RIVERA RUIZ (LIC # 23692), DATED JUNE 25, 2023.

SURVEY NOTES:

1. ALL DISTANCES ARE EXPRESSED IN METERS, UNLESS OTHERWISE NOTED.
2. FIELDWORK PERFORMED ON JUNE 25, 2023.
3. HORIZONTAL AND VERTICAL CONTROL SYSTEM IS REFERRED TO THE PUERTO RICO STATE PLANE COORDINATE SYSTEM: NAD 83 (CONUS) (Mol) LOCAL DATUM EPOCH 2010 WITH THE GEOID 18 (PUERTO RICO) FIXED (G18PR) GEOID MODEL.
4. THE SURVEYING WAS MADE WITH A R8 GPS UNIT, TOTAL STATION TRIMBLE S5 AND TSC5 DATA COLLECTOR.
5. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FIELD CONDITIONS AND MEASUREMENTS ON PLANS. IF ANY DISCREPANCIES ARE FOUND CONTRACTOR MUST NOTIFY THE SURVEYOR, ENGINEER, ARCHITECT OR OWNER BEFORE CONTINUING ANY WORK.
6. LOCATION FOR UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE BASED ON ABOVE GROUND EVIDENCE. CONTRACTOR MUST NOTIFY ALL UTILITY COMPANIES PRIOR TO THE BEGINNING OF ANY JOB.

N

GENERAL SITE PLAN
SCALE: 1:1,200

5 0 10 20 50 80
SCALE: 1:1,200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

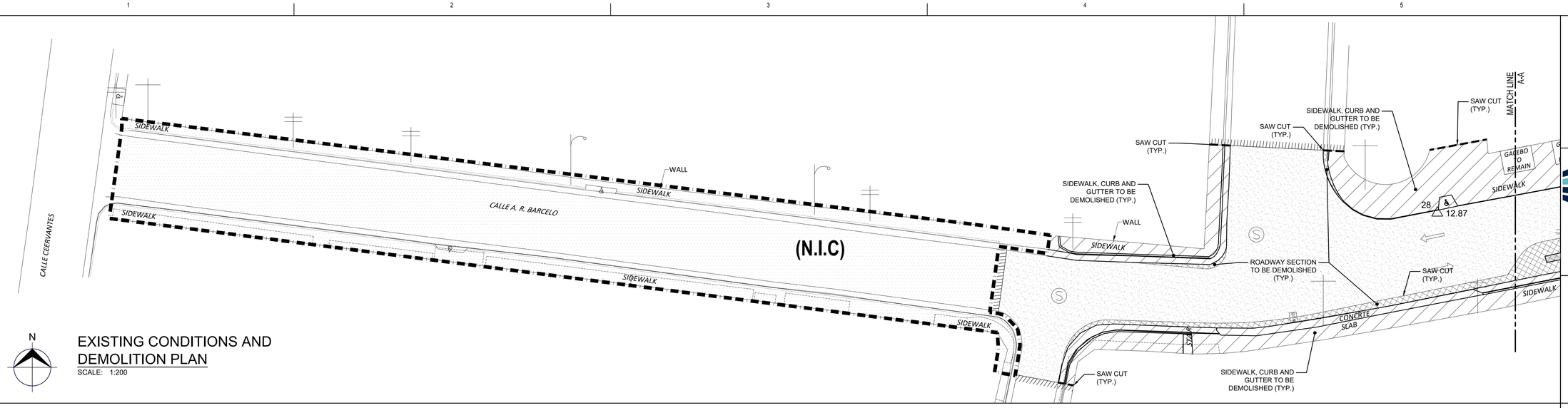
SHEET TITLE

GENERAL SITE PLAN

SHEET ID

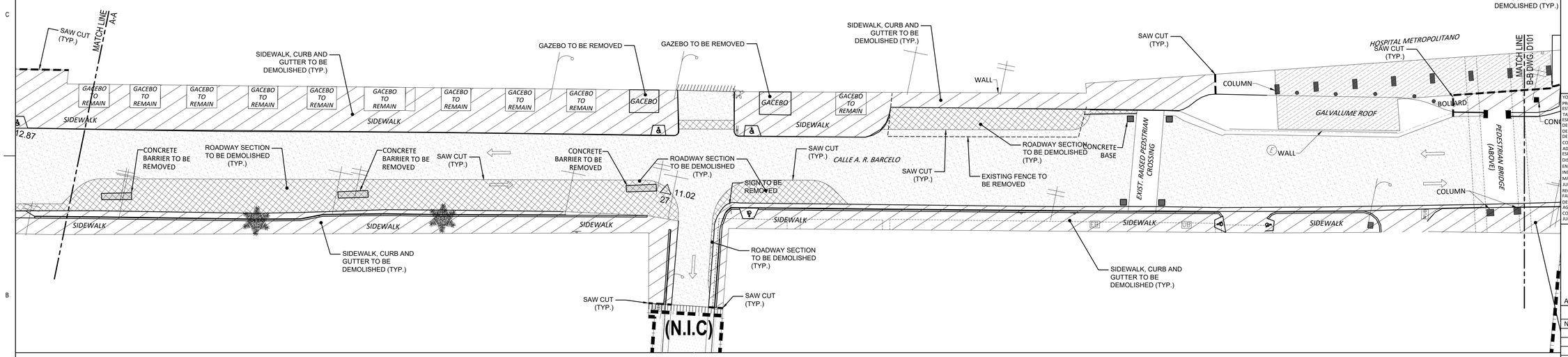
C001

9/13/2024 12:40:18 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C001.dwg



EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

LEGEND:

- GUTTER FLOW
- METAL FENCE
- GUARD RAIL
- STORM MAN HOLE
- SANITARY MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- WATER MANHOLE
- CLEAN OUT
- CATCH BASINS
- LIGHTING POLES (SEE ELECTRICAL PLANS)
- POWER POLES (TO REMAIN)
- TELEPHONE POLES (TO REMAIN)
- TRAFFIC DIRECTION
- HANDICAP RAMP
- TRAFFIC SIGN
- GUY POLE
- ELECTRIC UTILITY BOX
- TELEPHONE UTILITY BOX
- UKNOW BOX
- WATER UTILITY BOX
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- TREE & PALM
- CONTROL STATIONS
- WATER DISCHARGE PIPE

CONTROL STATIONS

STATION	(Y) NORTH	(X) EAST	ELEVATION	DESCRIPTION
4	270808. 9350	170619. 4170	3. 82	STA. PK NAIL
5	270811. 4860	170656. 9760	5. 32	STA. PK NAIL
8	270843. 7760	170529. 6740	4. 39	STA. PK NAIL
9	270848. 3540	170479. 2080	4. 76	STA. PK NAIL
12	270849. 0400	170465. 5160	5. 00	STA. PK NAIL
13	270808. 1000	170461. 2890	4. 61	STA. PK NAIL
15	270778. 3260	170364. 4120	6. 67	STA. PK NAIL
16	270751. 1850	170370. 0790	7. 22	STA. PK NAIL
17	270825. 0540	170345. 9850	7. 93	STA. PK NAIL
19	270854. 8160	170347. 2000	7. 94	STA. PK NAIL
20	270839. 9890	170266. 4610	7. 96	STA. PK NAIL
27	270797. 0840	169991. 2130	11. 02	STA. PK NAIL
28	270789. 5770	169924. 1750	12. 87	STA. PK NAIL
33	270690. 6310	169813. 2370	17. 40	STA. PK NAIL
38	270686. 1750	169849. 5400	15. 05	STA. PK NAIL
39	270680. 6510	169903. 5140	10. 92	STA. PK NAIL
43	270662. 2450	169991. 4240	8. 51	STA. PK NAIL
45	270665. 2580	170002. 6220	8. 29	STA. PK NAIL
47	270743. 6450	170099. 7850	8. 05	STA. PK NAIL
48	270724. 1220	170125. 9670	7. 86	STA. PK NAIL
20	270839. 9890	170266. 4610	7. 96	STA. PK NAIL
69	270759. 7980	170540. 8860	1. 92	STA. PK NAIL
65	270733. 5570	170468. 1530	1. 48	STA. PK NAIL
63	270681. 0080	170315. 1150	1. 83	STA. PK NAIL
52	270700. 1680	170201. 7490	6. 00	STA. PK NAIL
51	270743. 1850	170209. 4390	6. 00	STA. PK NAIL
53	270679. 5290	170114. 4460	5. 38	STA. PK NAIL
54	270697. 2330	170113. 3260	6. 48	STA. PK NAIL

DEMO LEGEND:

- SAW CUT
- SIDEWALK, CURB AND GUTTER TO BE DEMOLISHED.
- CONCRETE PAVEMENT SLAB REPAIRS
- 0.05m COLD MILLING OF BITUMINOUS ASPHALT PAVEMENT
- ROADWAY SECTION TO BE DEMOLISHED
- CONCRETE PAVERS TO BE REMOVED/DEMOLISHED
- CONCRETE BARRIER TO BE REMOVED
- LIMIT OF N.I.C.
- N.I.C NOT IN CONTRACT

NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ARE EXPRESSED IN METERS, UNLESS OTHERWISE NOTED.
2. STEEL PIPES TO BE REMOVED AND DISPOSED.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

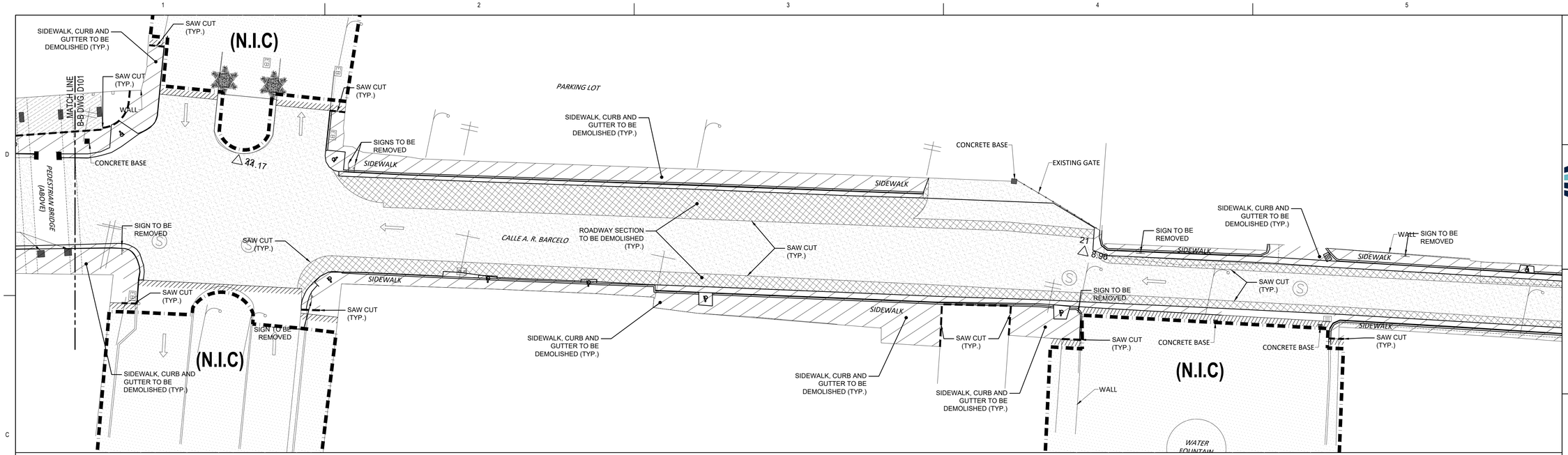
SHEET TITLE

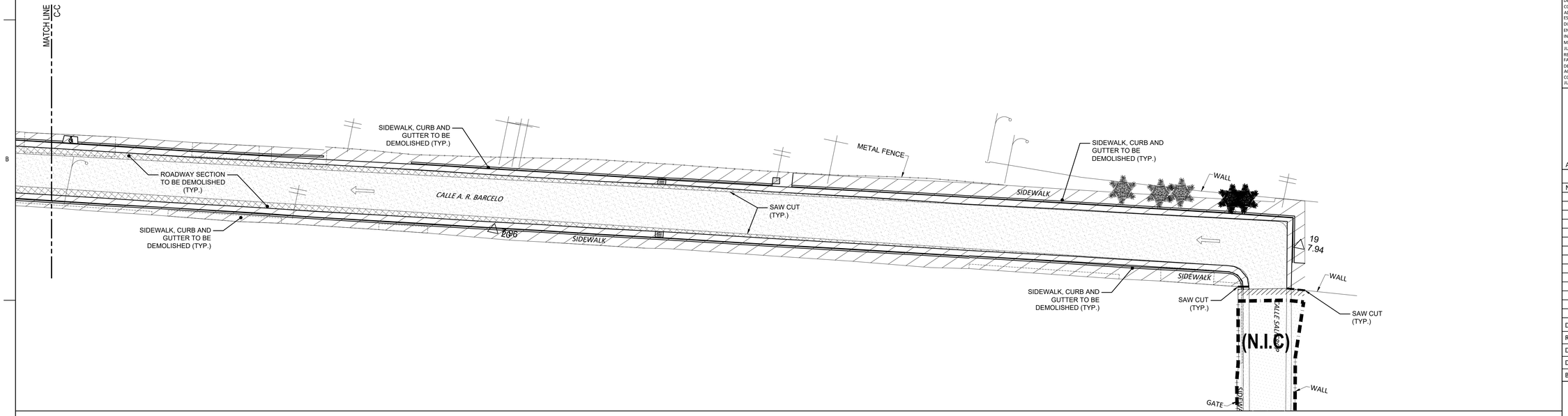
DEMOLITION PLAN
CALLE ANTONIO ROMERO BARCELO

SHEET ID

D100

9/13/2024 12:40:33 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D100-1.dwg





N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

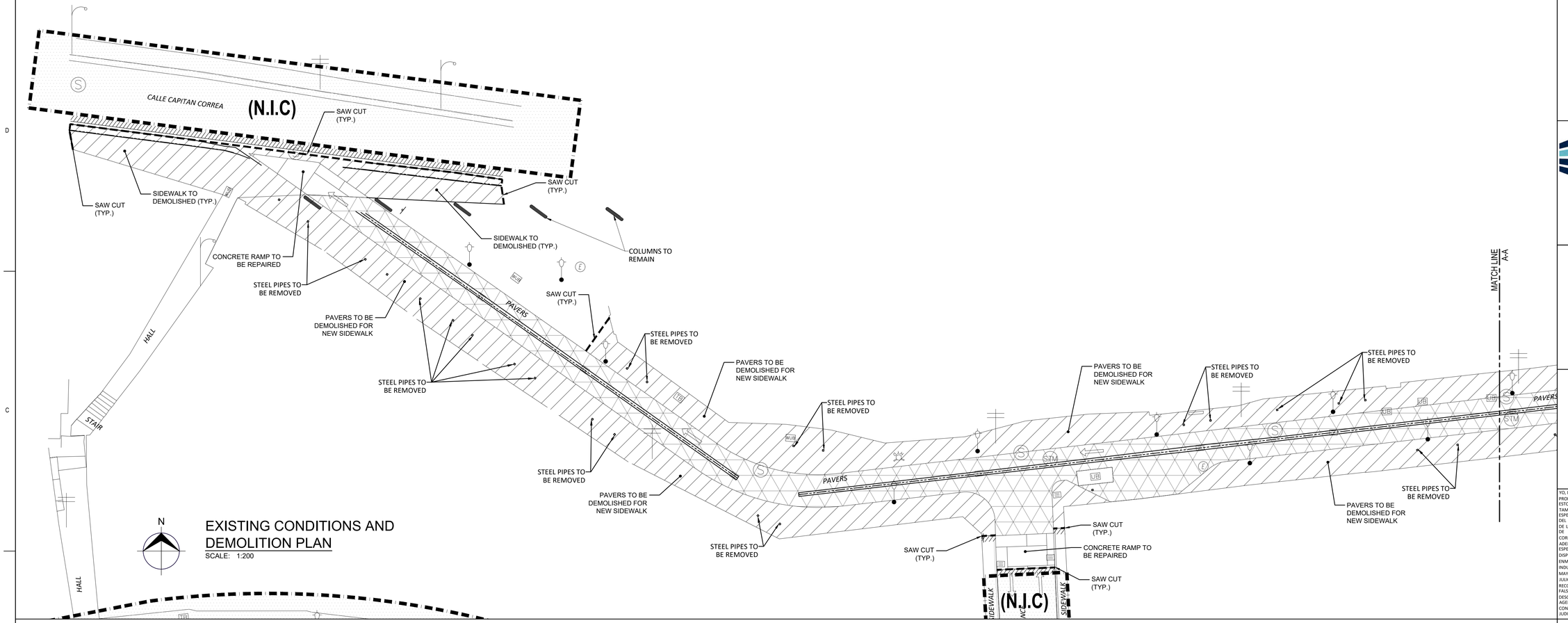
SHEET TITLE

DEMOLITION PLAN
CALLE ANTONIO ROMERO BARCELO

SHEET ID

D101

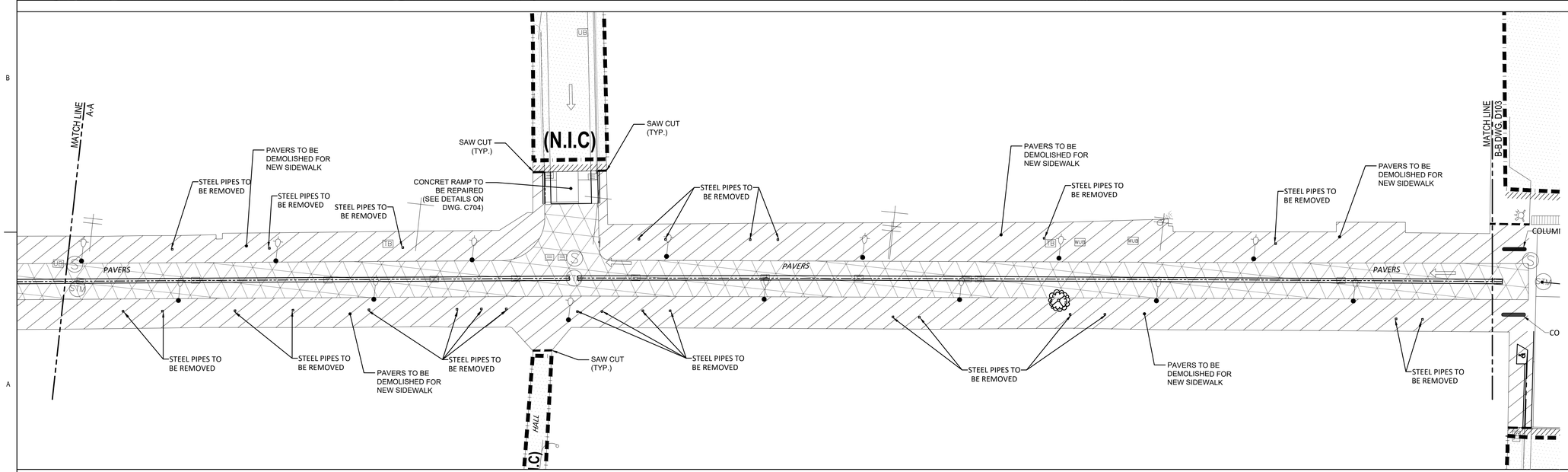
9/13/2024 12:40:35 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D100-1.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

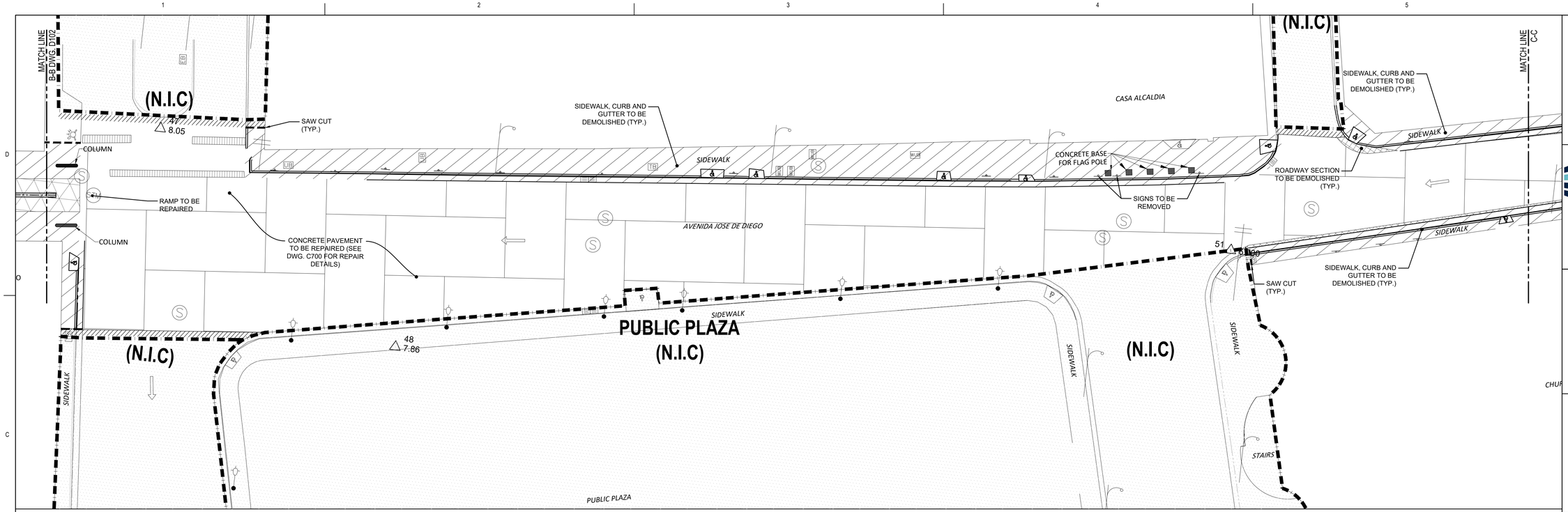
SHEET TITLE

DEMOLITION PLAN
AVE. JOSE DE DIEGO

SHEET ID

D102

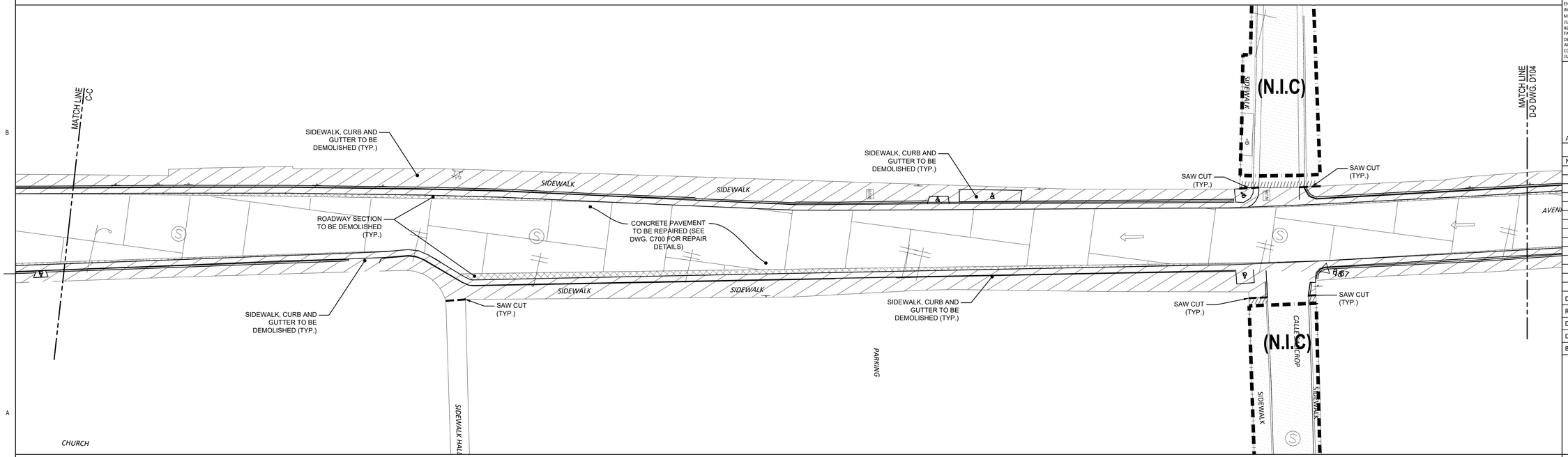
9/13/2024 12:40:44 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D102-3-4.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

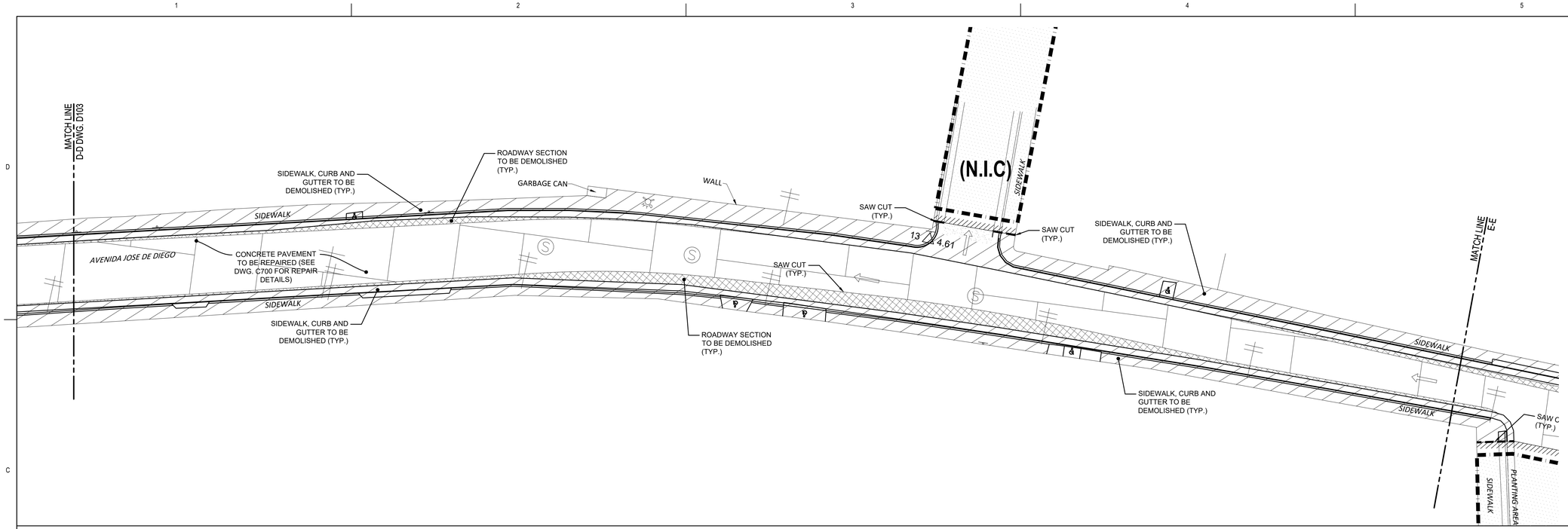
SHEET TITLE

DEMOLITION PLAN
AVE. JOSE DE DIEGO

SHEET ID

D103

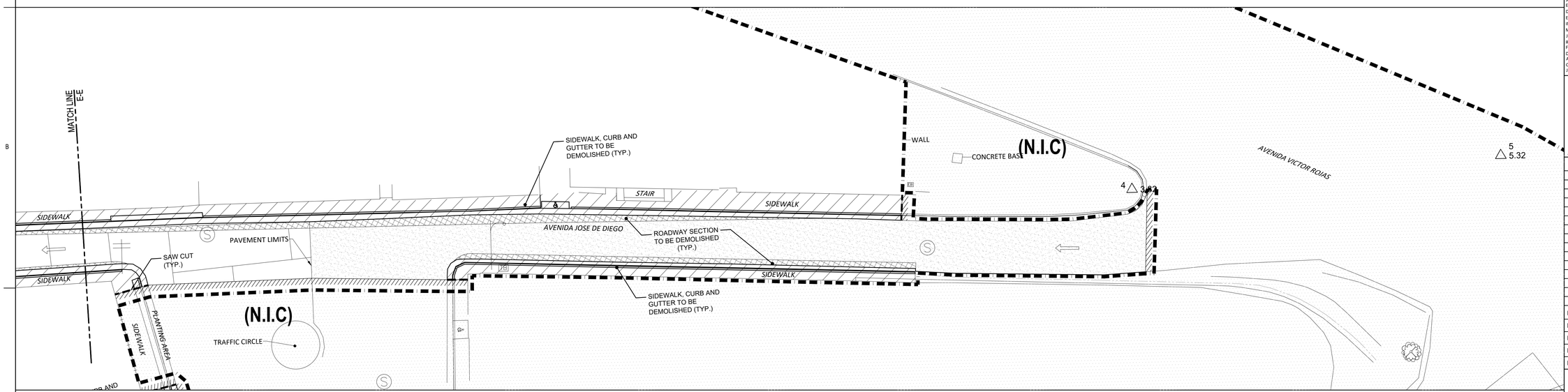
9/13/2024 12:40:46 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D102-3-4.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

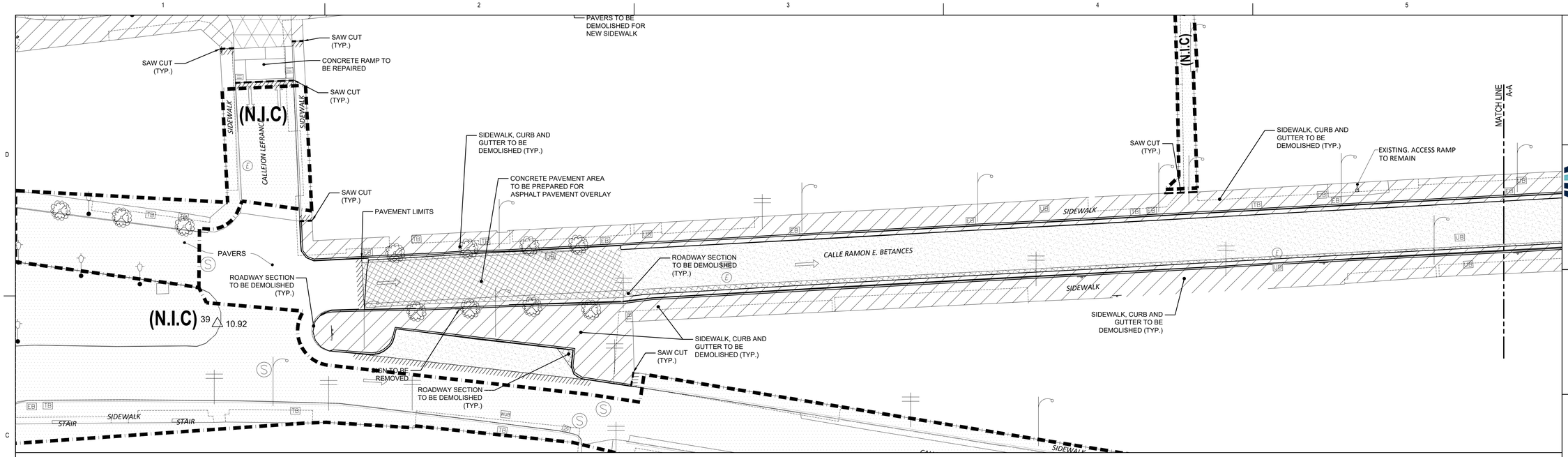
SHEET TITLE

DEMOLITION PLAN
AVE. JOSE DE DIEGO

SHEET ID

D104

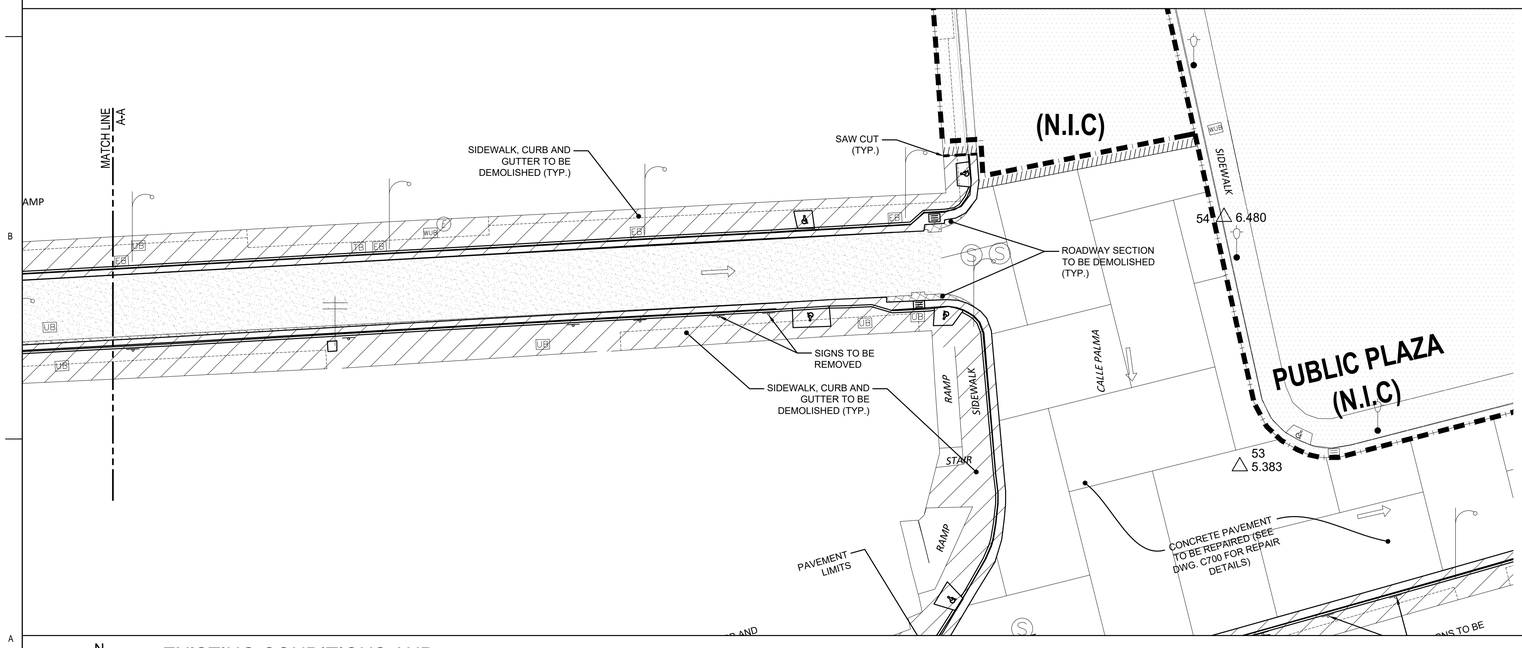
9/13/2024 12:40:48 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D102-3-4.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

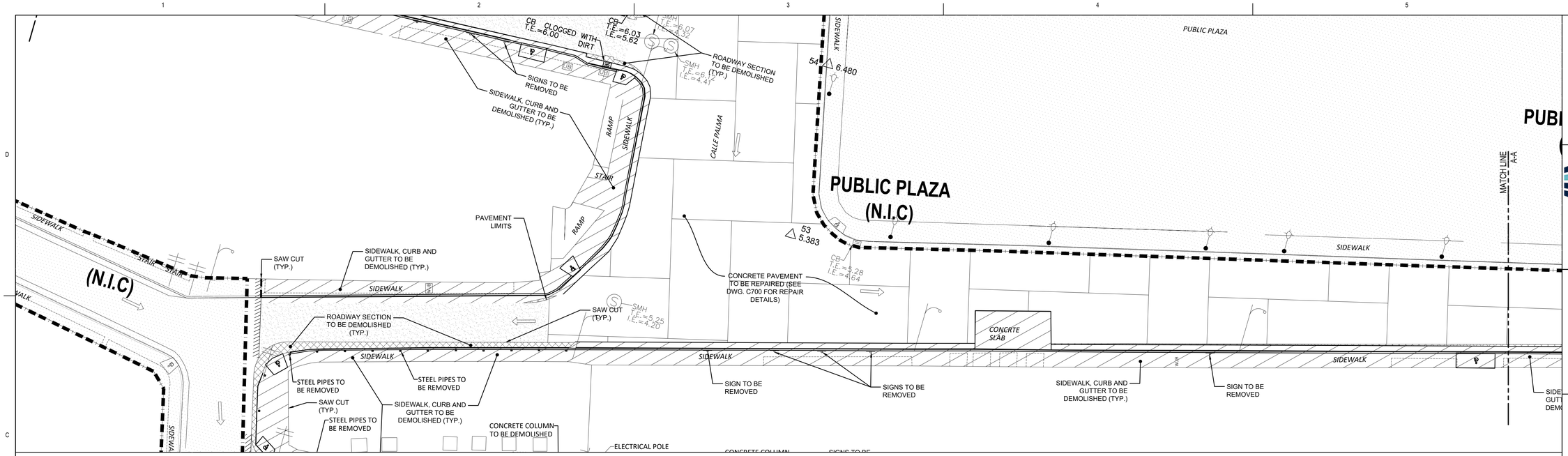
SHEET TITLE

DEMOLITION PLAN
CALLE RAMON E. BETANCES

SHEET ID

D105

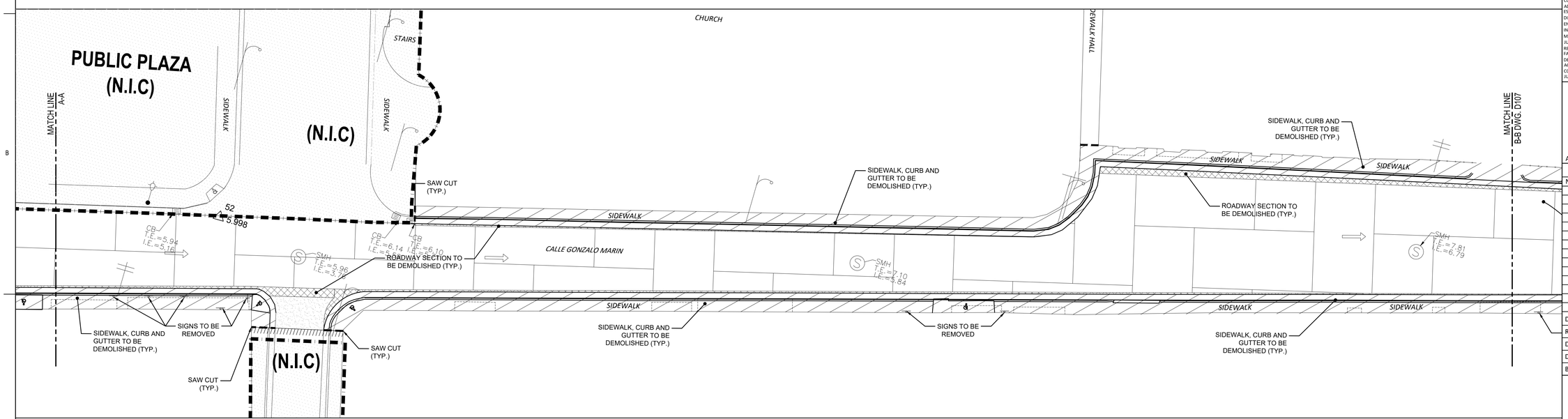
9/13/2024 12:40:55 PM C:\Users\Miguel Matos\OneDrive - Benliez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D105.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

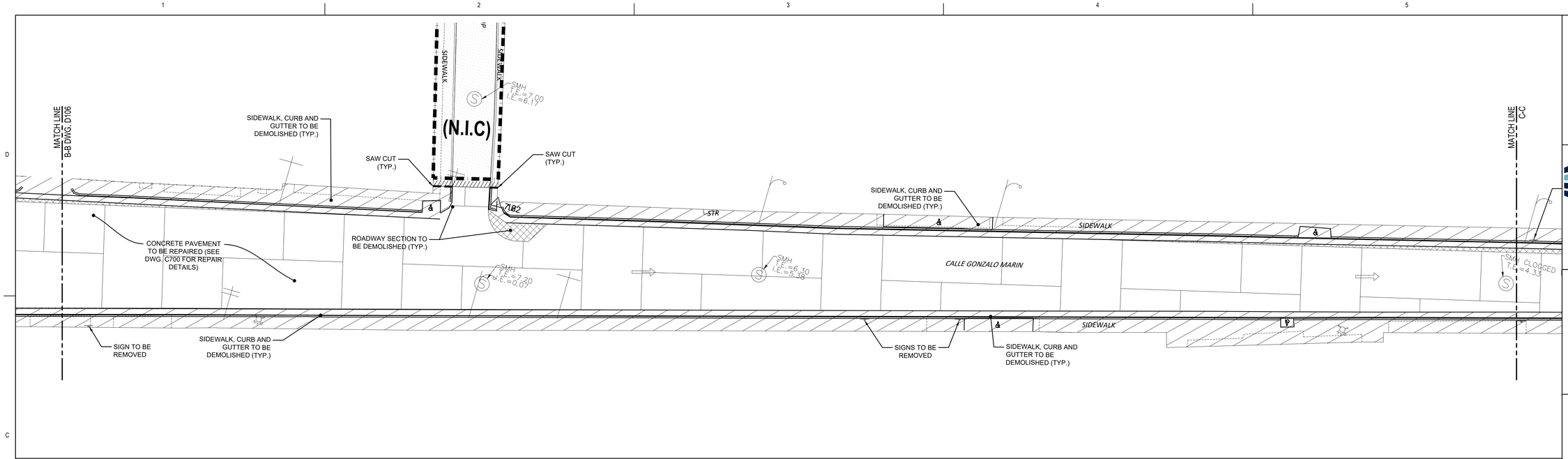
SHEET TITLE

DEMOLITION PLAN
CALLE GONZALO MARIN

SHEET ID

D106

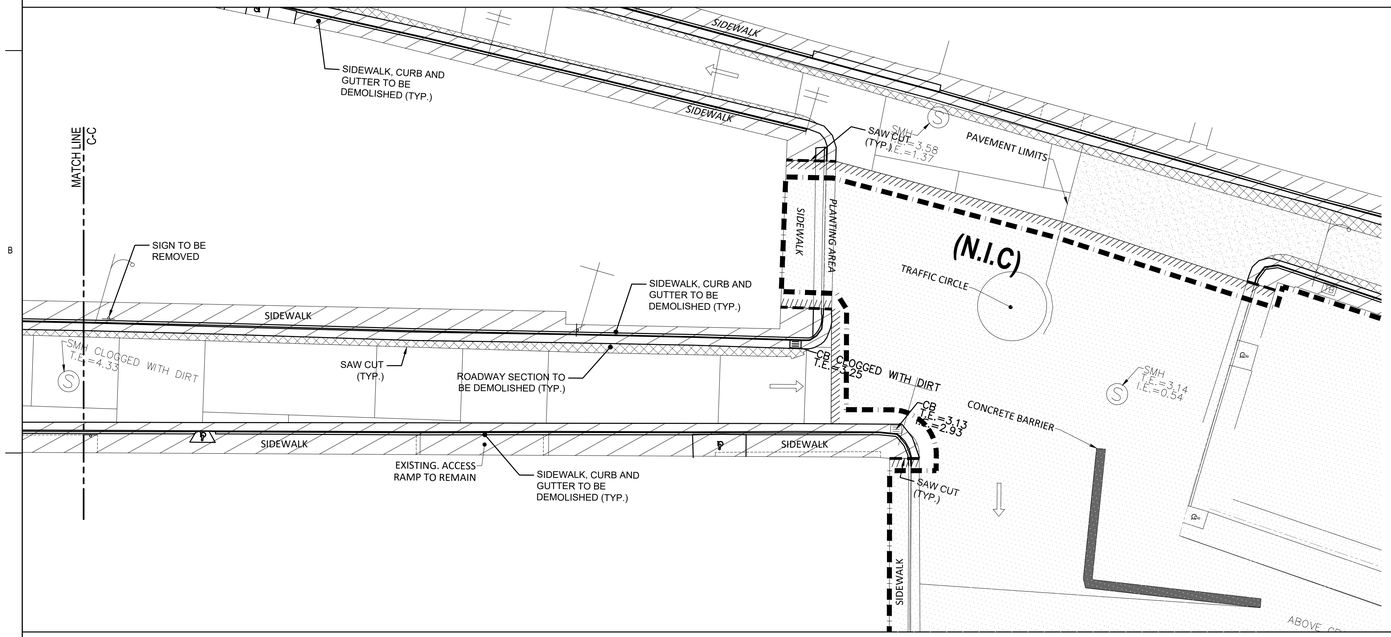
9/13/2024 12:41:03 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejoraCalles\07-Project Design\01-Civil\D106-7.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

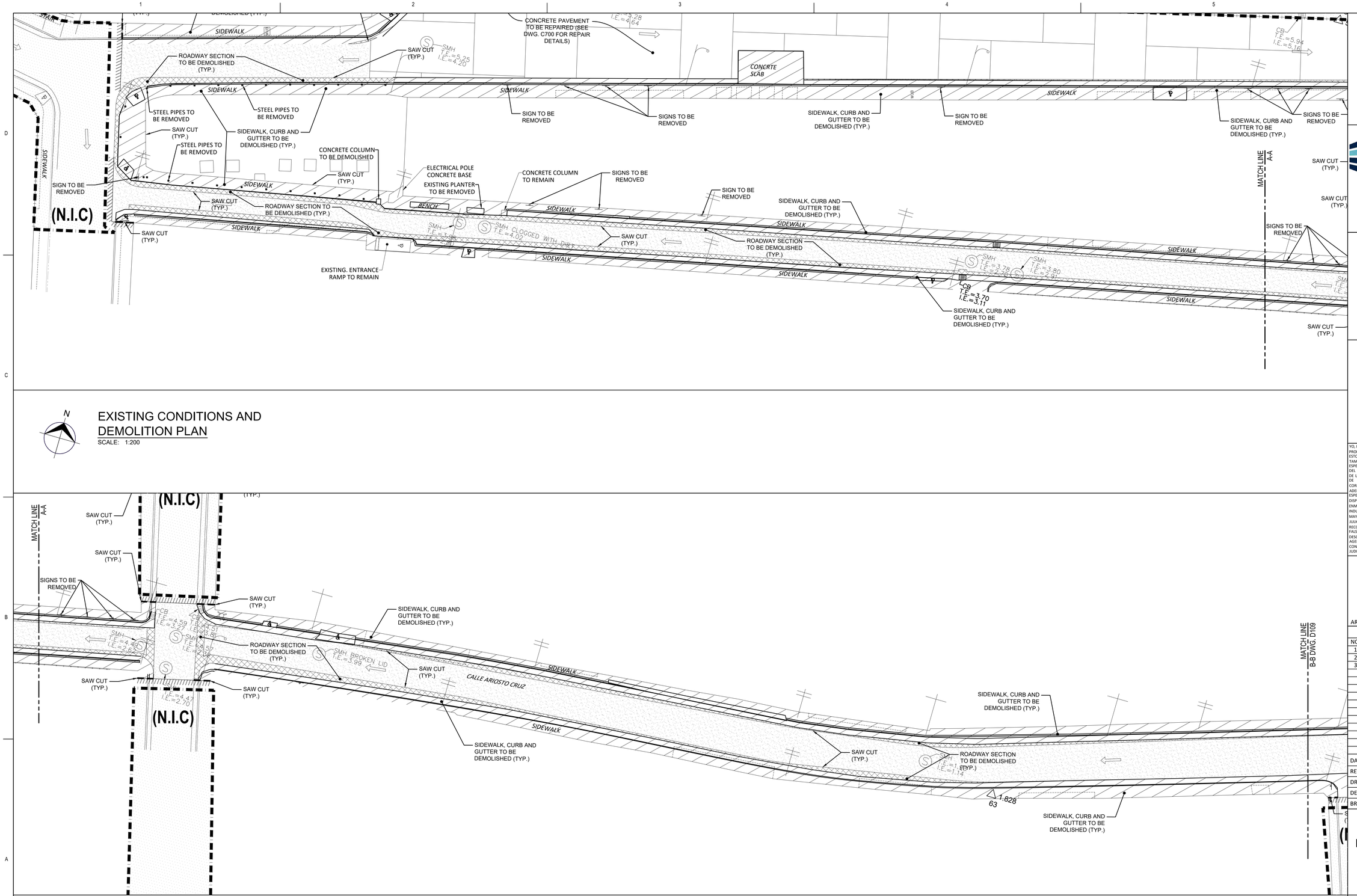
SHEET TITLE

DEMOLITION PLAN
CALLE GONZALO MARIN

SHEET ID

D107

9/13/2024 12:41:05 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D106-7.dwg



N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

N

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. D100.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NUM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

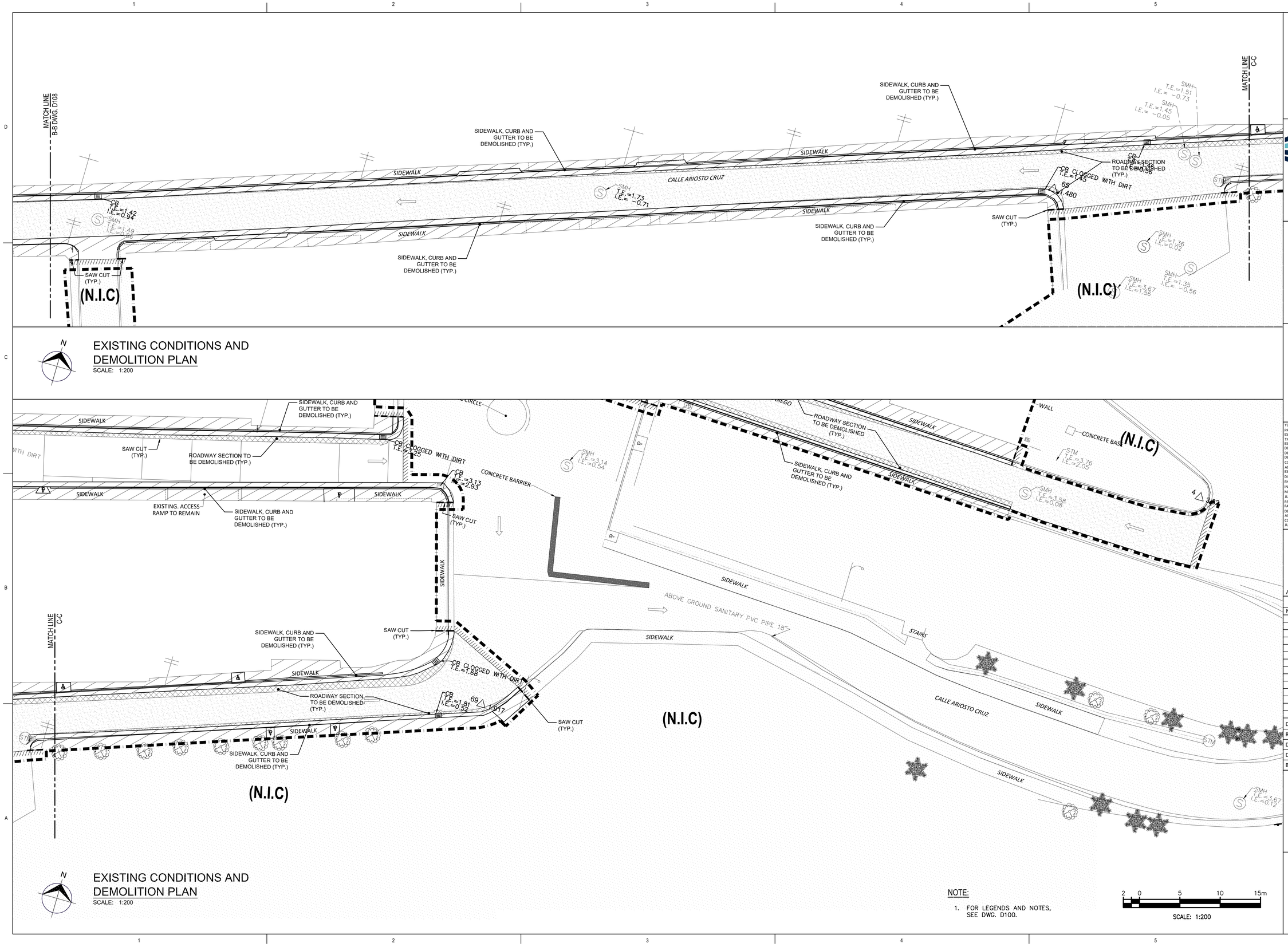
SHEET TITLE

DEMOLITION PLAN
CALLE ARIOSTO CRUZ

SHEET ID

D108

9/13/2024 12:41:14 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejoraCalles\07-Project Design\01-Civil\D108-9.dwg



OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

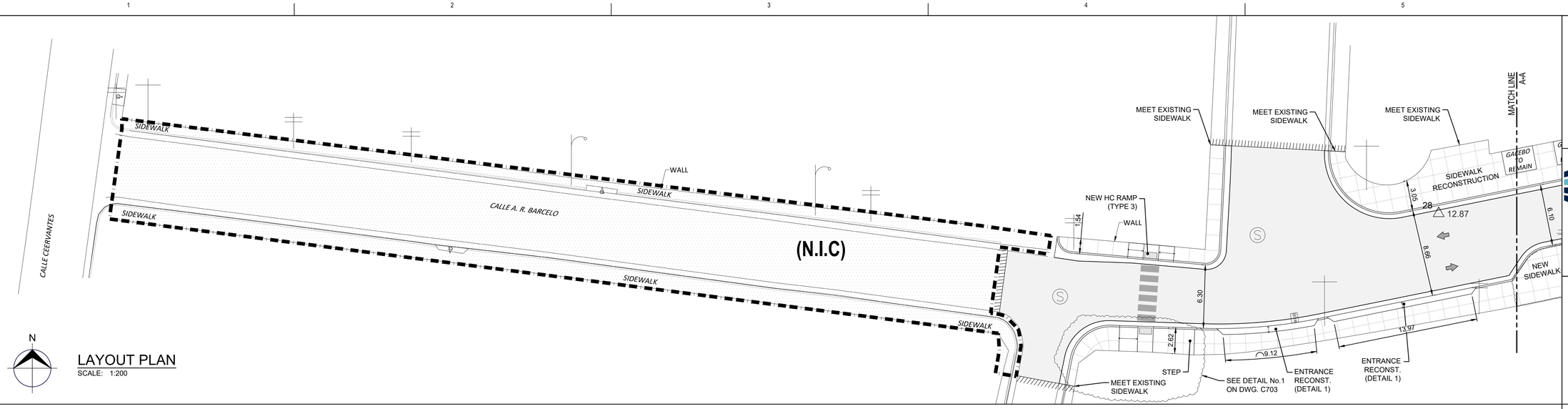
SHEET TITLE

DEMOLITION PLAN
CALLE ARIOSTO CRUZ

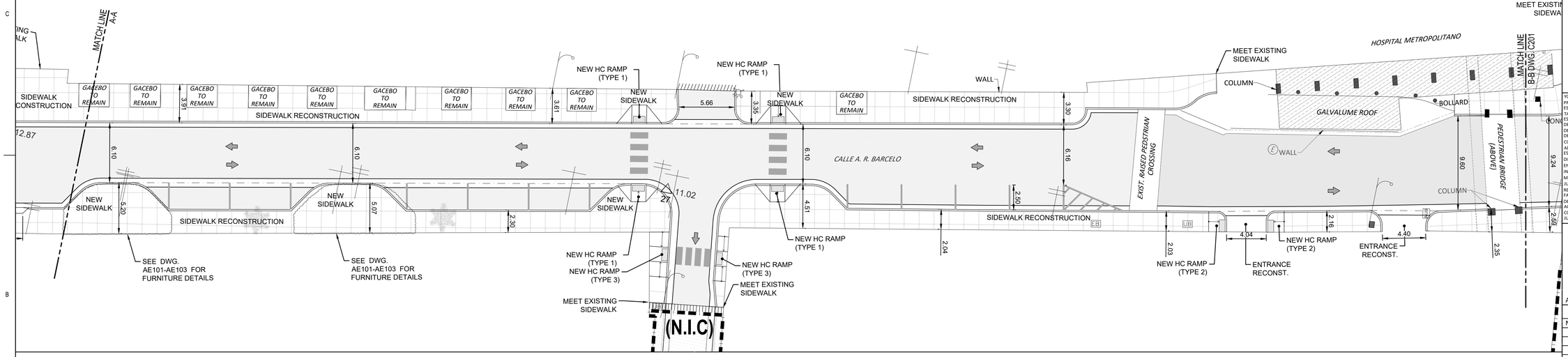
SHEET ID

D109

9/13/2024 12:41:16 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\D109-B.dwg



LAYOUT PLAN
SCALE: 1:200



LAYOUT PLAN
SCALE: 1:200

LEGEND:

- PROPERTY LIMIT
- PRHTA RIGHT OF WAY (ROW)
- 0.05 (2") HOT PLANT–MIX BITUMINOUS ASPHALT PAVEMENT
- NEW SIDEWALK WITH CONCRETE CURB AND GUTTER (SEE SECTION AND DETAILS ON DWG. C700)
- NEW HC RAMPS (SEE DETAILS ON DWG. C701)
- ENTRANCE RECONSTRUCTION OR NEW CURB ENTRANCE (SEE DETAILS ON DWG. C701)
- TRAFFIC DIRECTION
- SECTION (SEE SECTION ON THIS PLAN)

GENERAL SITE NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ARE EXPRESSED IN METERS, UNLESS OTHERWISE NOTED.
2. AS–BUILT PLAN PREPARED BY LICENSED SURVEYOR RODOLFO RIVERA RUIZ (LIC # 23692), DATED JUNE 25, 2023
3. REFER TO DWG. 480 TO 490 FOR STAGING AREA, EROSION & SEDIMENTATION CONTROL PLANS. FOR EROSION AND SEDIMENTATION CONTROL DETAILS REFER TO DWG. C491.
4. REFER TO MOT PLANS FOR MAINTENANCE OF TRAFFIC TYPICAL APPLICATIONS, NOTES AND DETAILS.
5. REFER TO ELECTRICAL PLANS FOR NEW LIGHTING POLES AND DETAILS.
6. REFER TO DWG. C700–C705 FOR TYPICAL SECTIONS AND DETAILS.
7. REFER TO DWG. A101–A103 FOR ARCHITECTURAL PLANS AND DETAILS.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

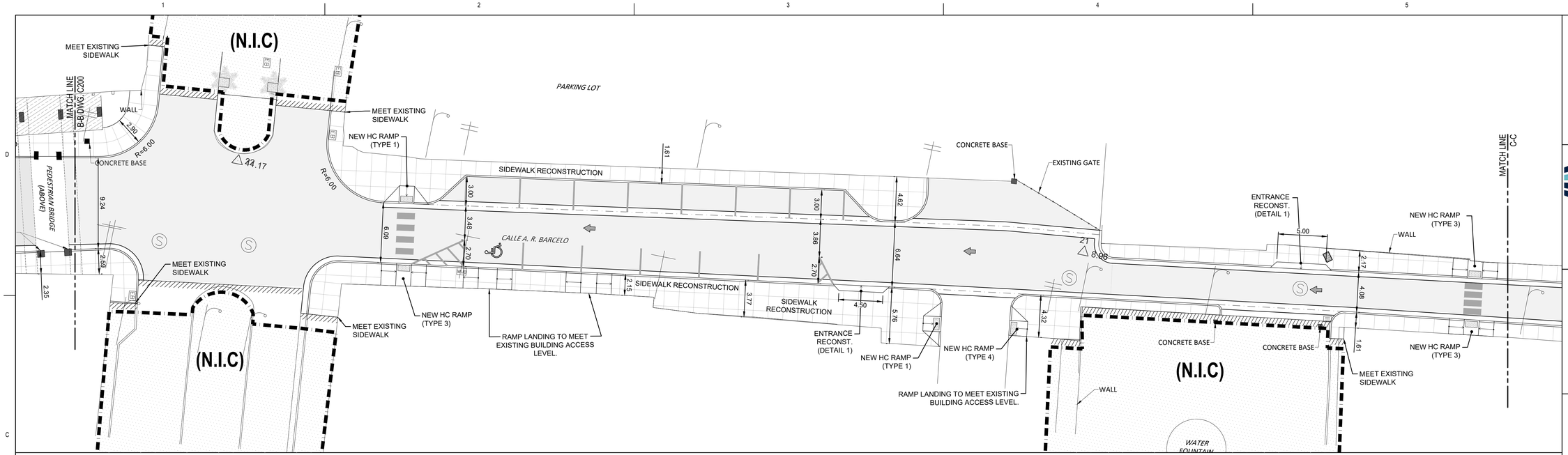
SHEET TITLE

LAYOUT PLAN
CALLE ANTONIO ROMERO BARCELO

SHEET ID

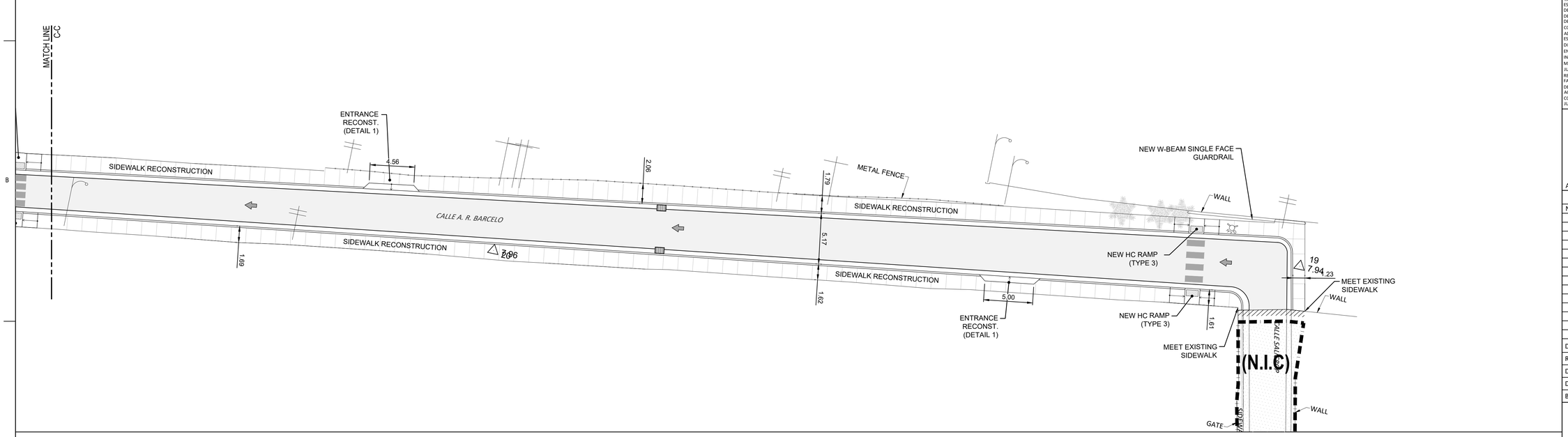
C200

9/13/2024 12:41:19 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C200-1.dwg



N

LAYOUT PLAN
SCALE: 1:200



N

LAYOUT PLAN
SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

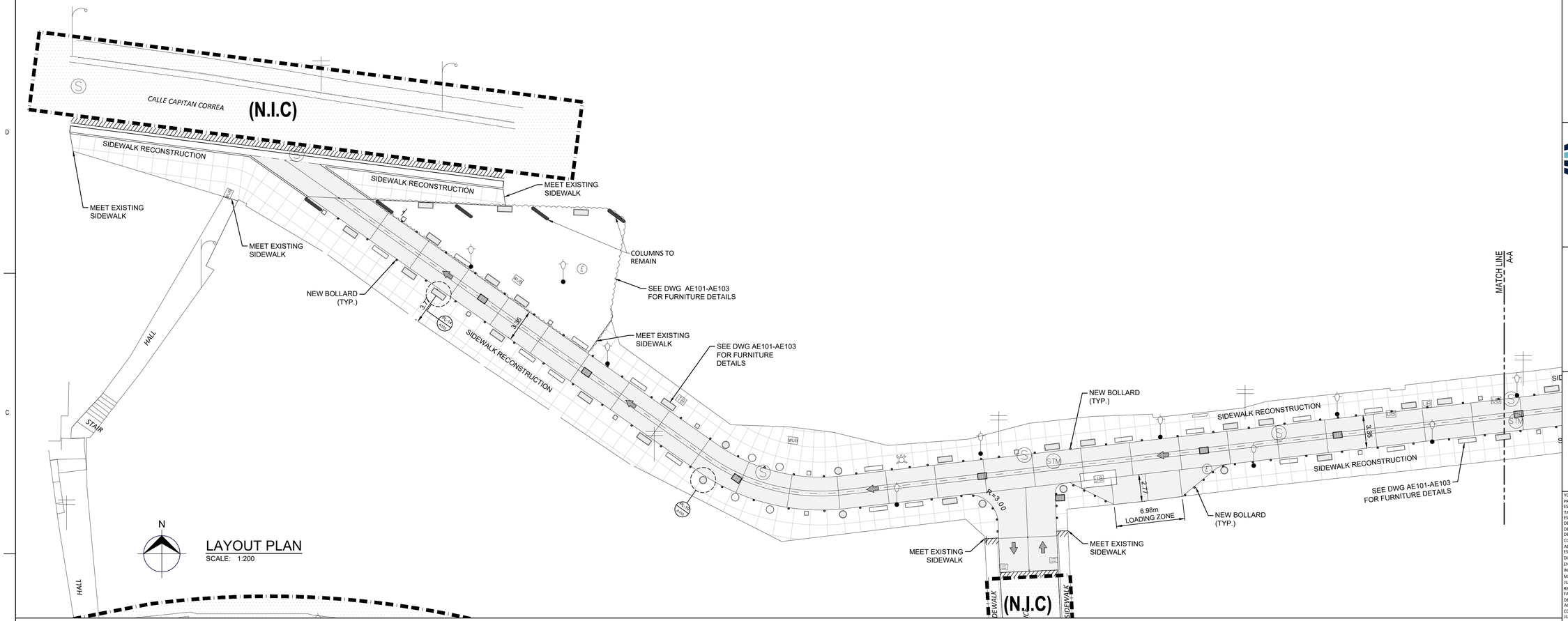
SHEET TITLE

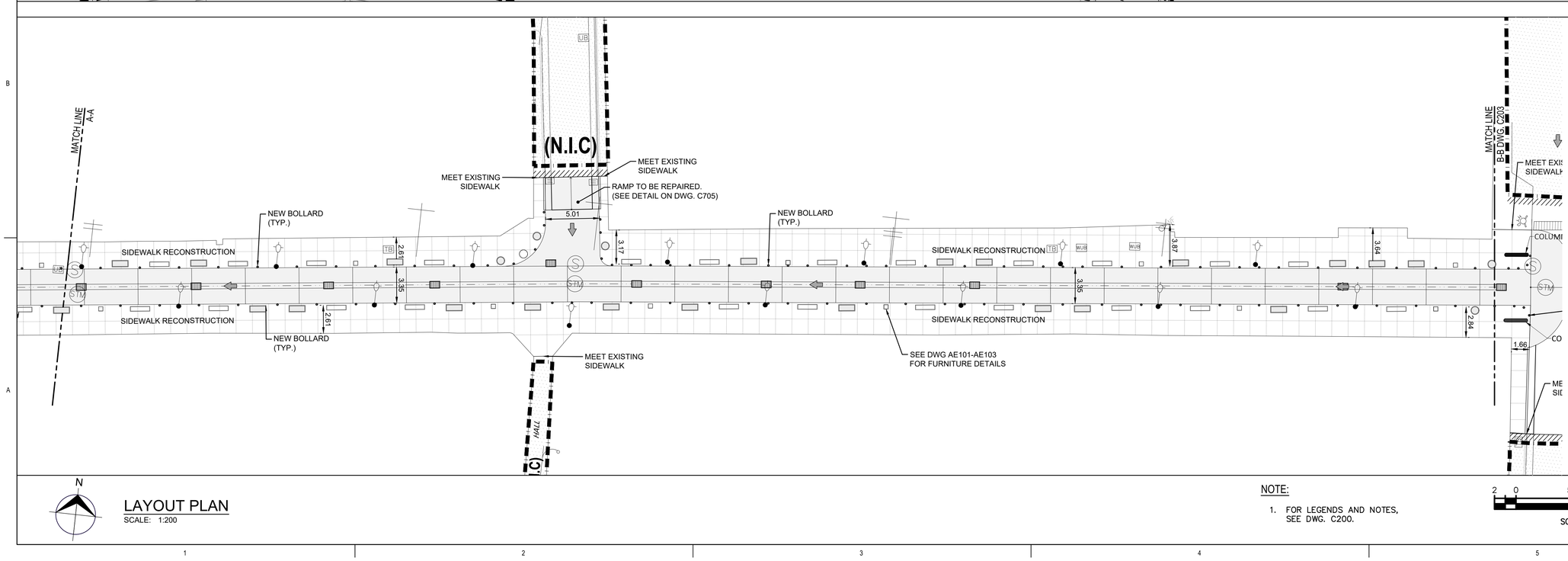
LAYOUT PLAN
CALLE ANTONIO ROMERO BARCELO

SHEET ID

C201

9/13/2024 12:41:24 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C200-1.dwg





NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

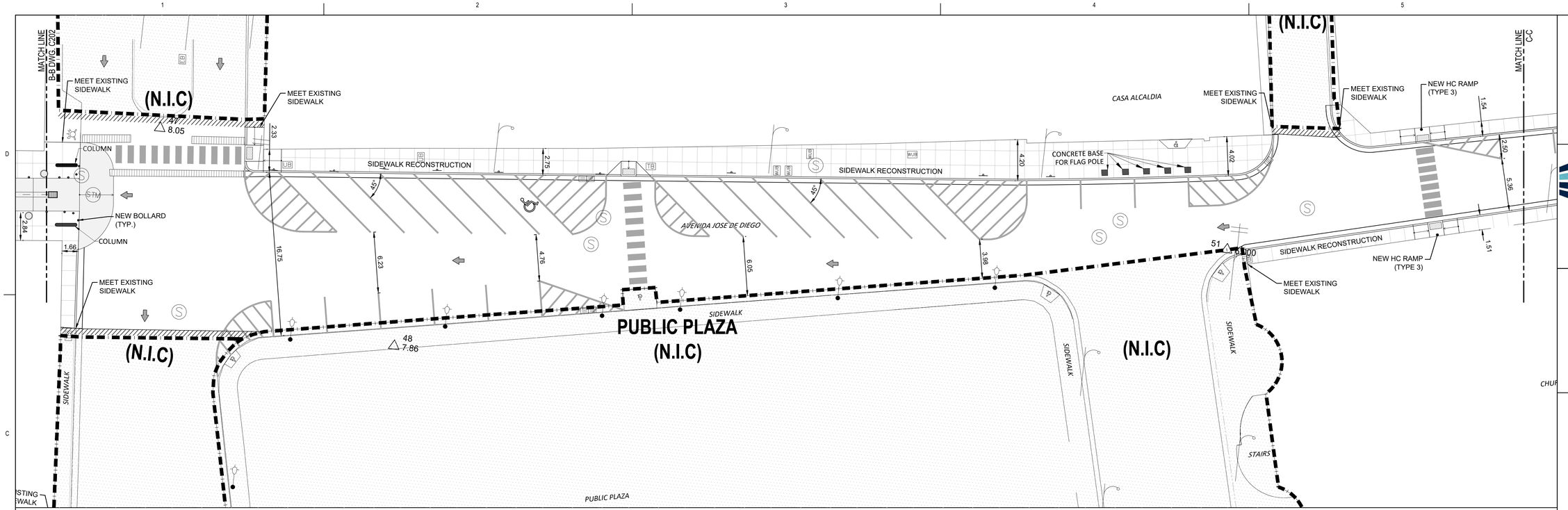
SHEET TITLE

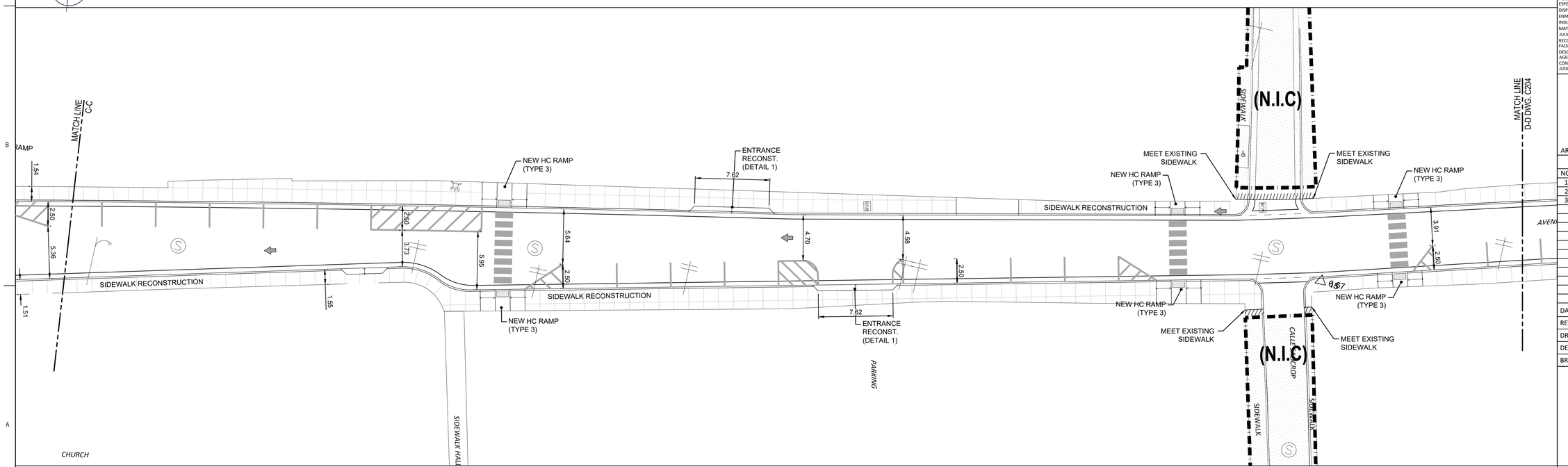
LAYOUT PLAN
AVE. JOSE DE DIEGO

SHEET ID

C202

9/13/2024 12:41:34 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C202-3-4.dwg





N

LAYOUT PLAN
SCALE: 1:200

N

LAYOUT PLAN
SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUES) RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

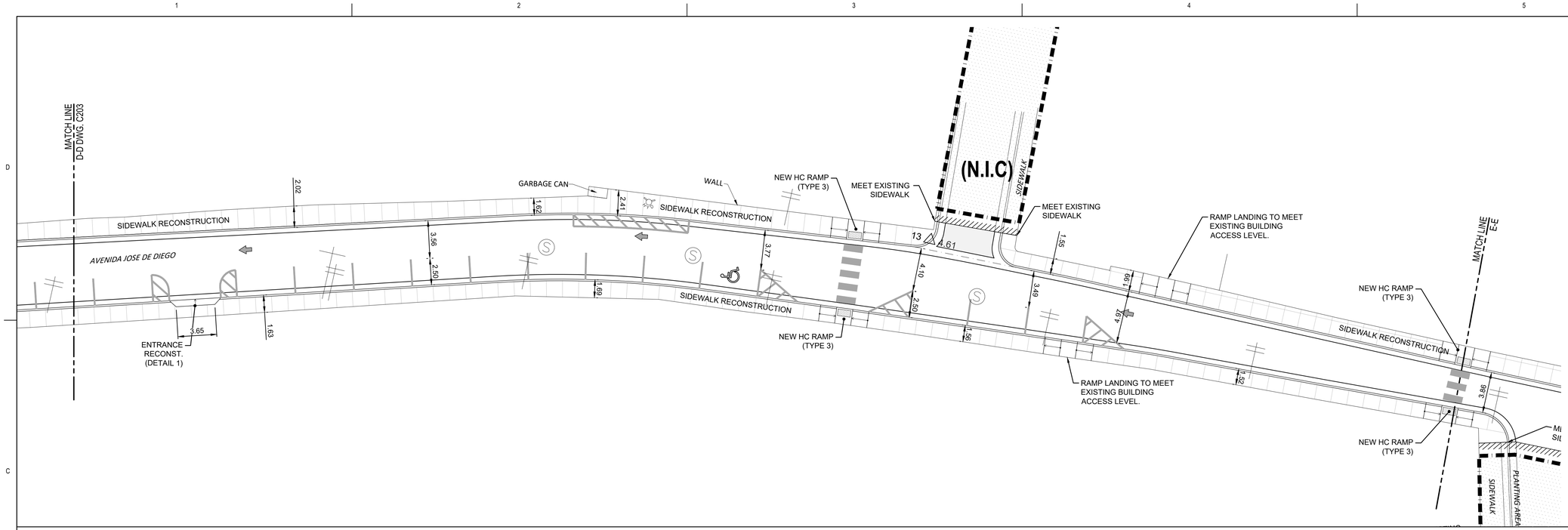
SHEET TITLE

LAYOUT PLAN
AVE. JOSE DE DIEGO

SHEET ID

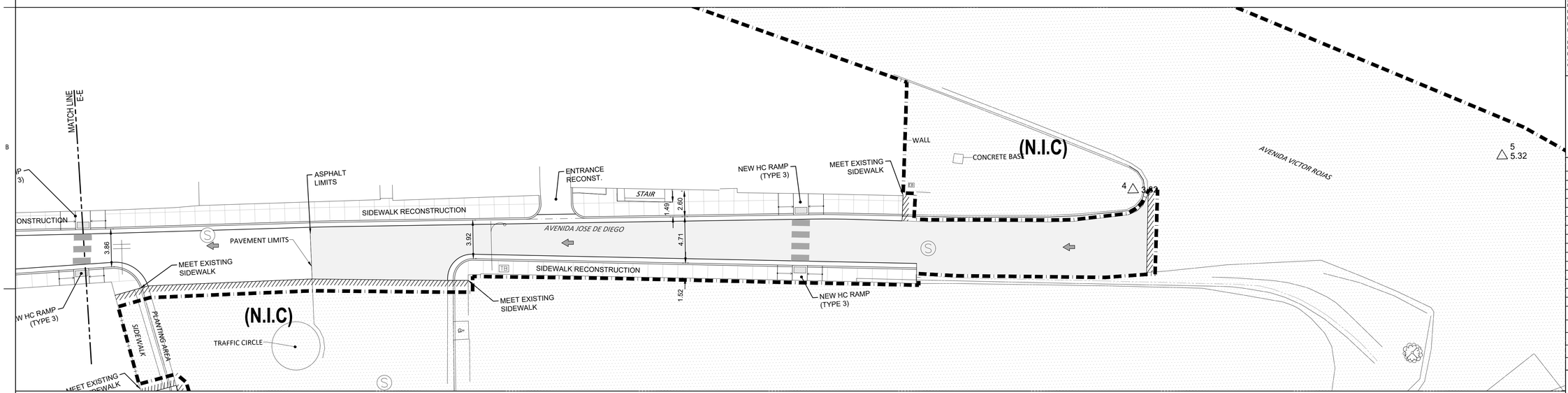
C203

9/13/2024 12:41:47 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C202-3-4.dwg



N

LAYOUT PLAN
SCALE: 1:200



N

LAYOUT PLAN
SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

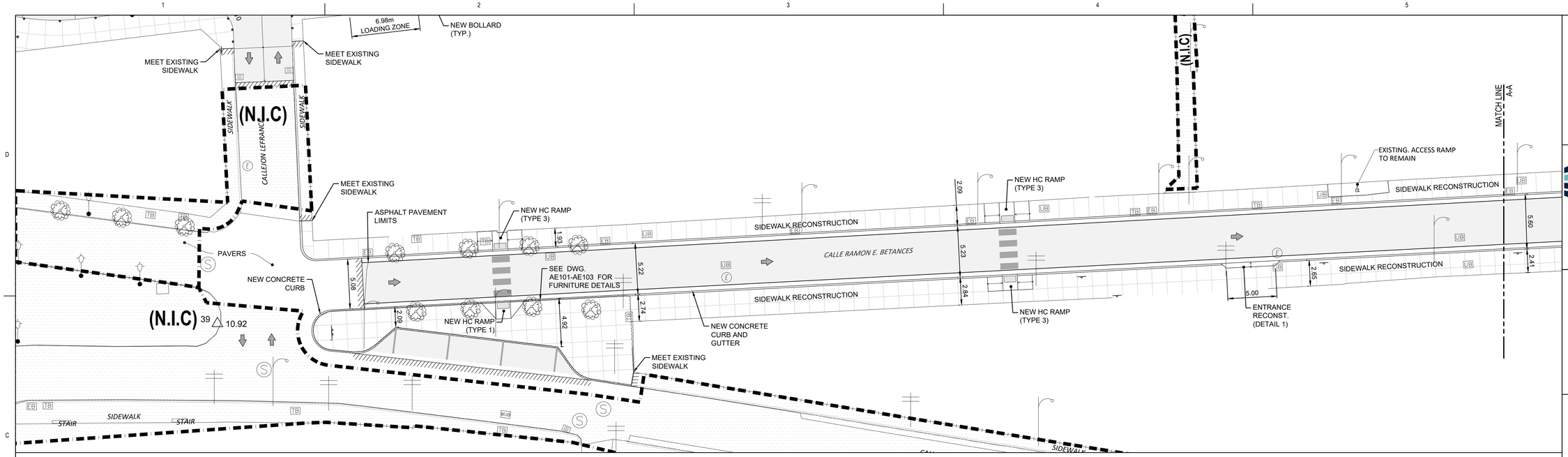
SHEET TITLE

LAYOUT PLAN
AVE. JOSE DE DIEGO

SHEET ID

C204

9/13/2024 12:41:55 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C202-3-4.dwg



N

LAYOUT PLAN
SCALE: 1:200

N

LAYOUT PLAN
SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

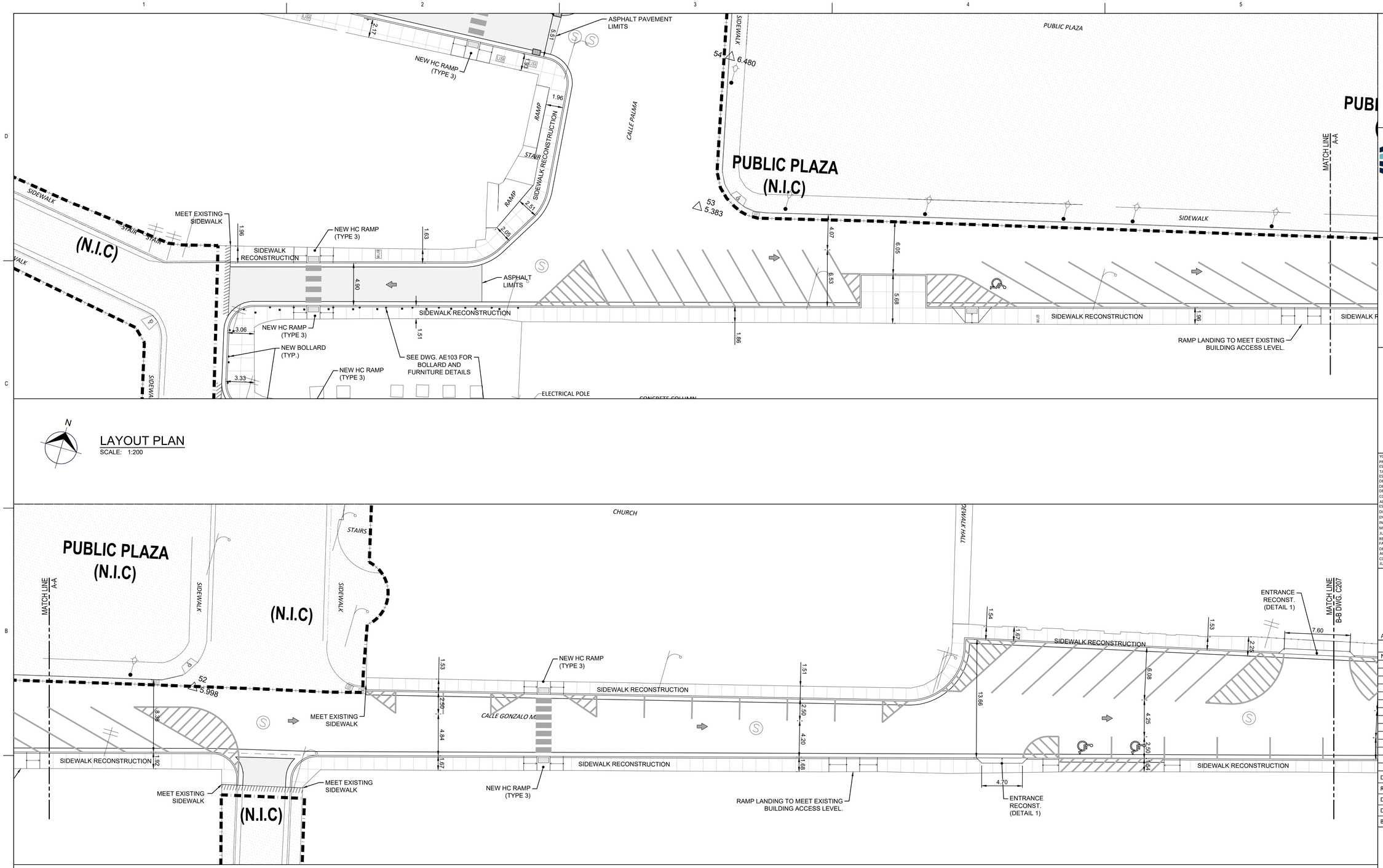
SHEET TITLE

LAYOUT PLAN
CALLE RAMON E. BETANCES

SHEET ID

C205

9/13/2024 12:42:05 PM C:\Users\Miguel Matos\OneDrive - Benliez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C205.dwg



N

LAYOUT PLAN
SCALE: 1:200

N

LAYOUT PLAN
SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

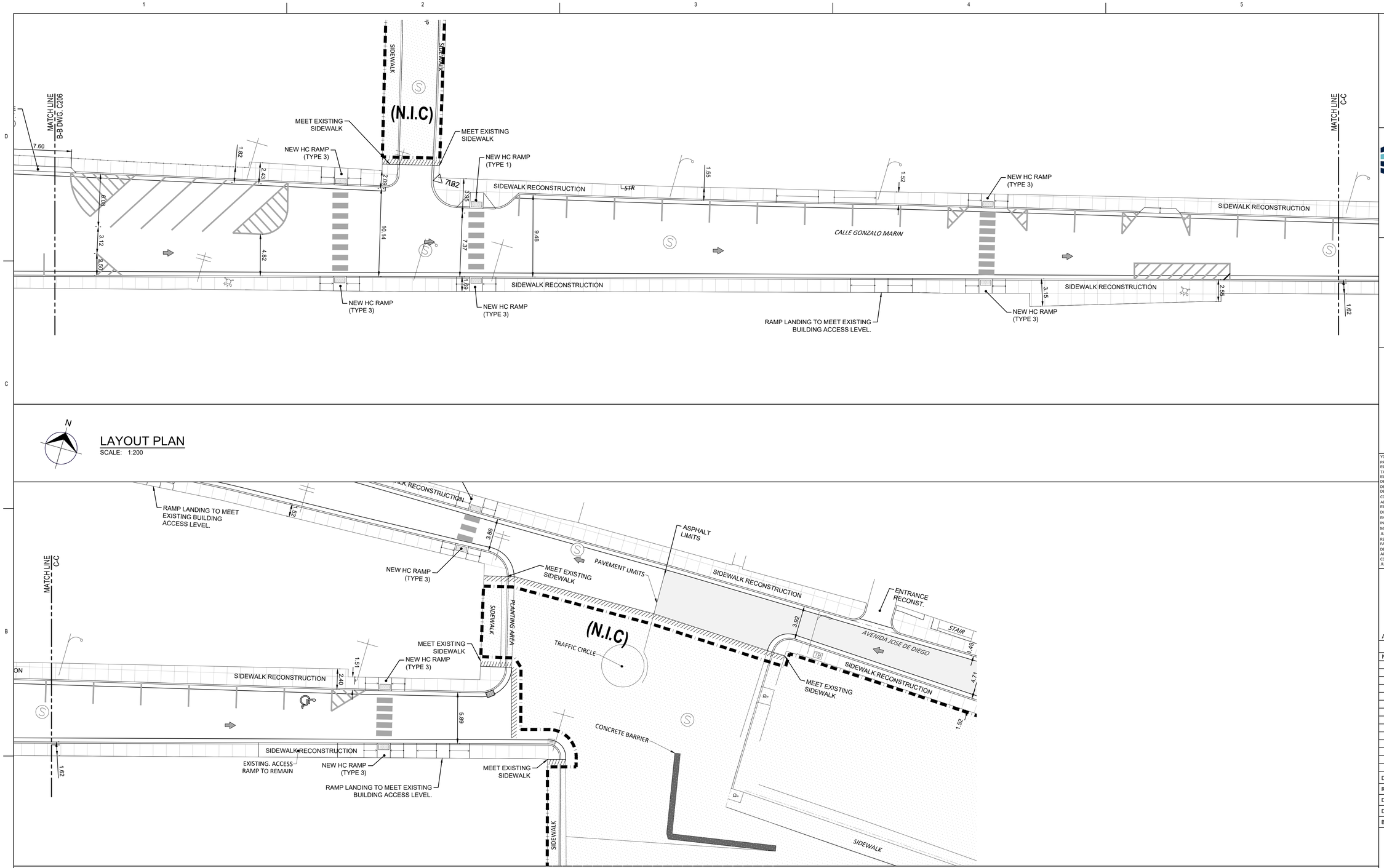
SHEET TITLE

LAYOUT PLAN
CALLE GONZALO MARIN

SHEET ID

C206

9/13/2024 12:42:15 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C206-7.dwg



N

LAYOUT PLAN

SCALE: 1:200

N

LAYOUT PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, SEGÚN APLIQUEL RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

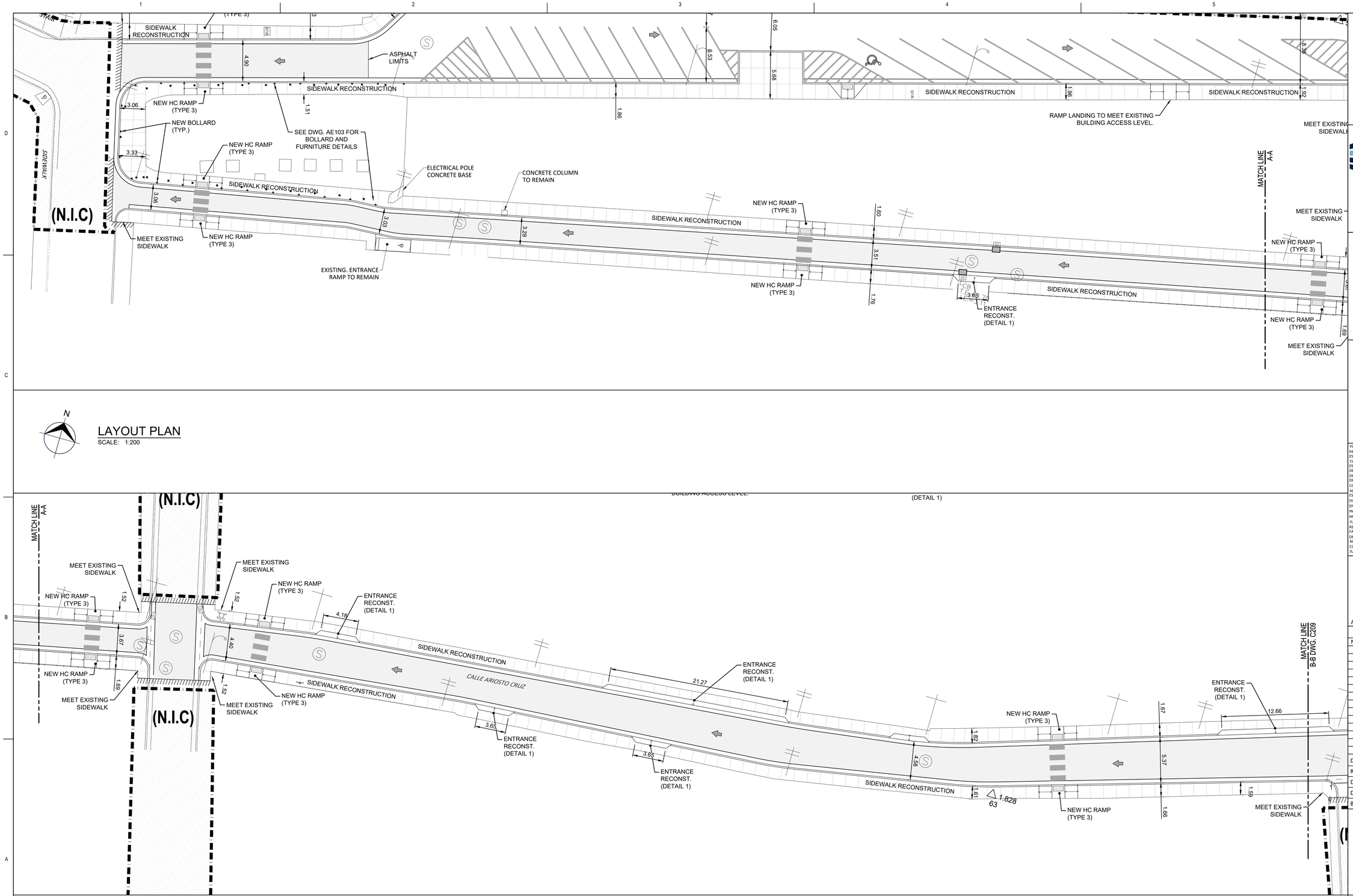
SHEET TITLE

LAYOUT PLAN
CALLE GONZALO
MARIN

SHEET ID

C207

9/13/2024 12:42:19 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C206-7.dwg



LAYOUT PLAN
SCALE: 1:200

LAYOUT PLAN
SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO — PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

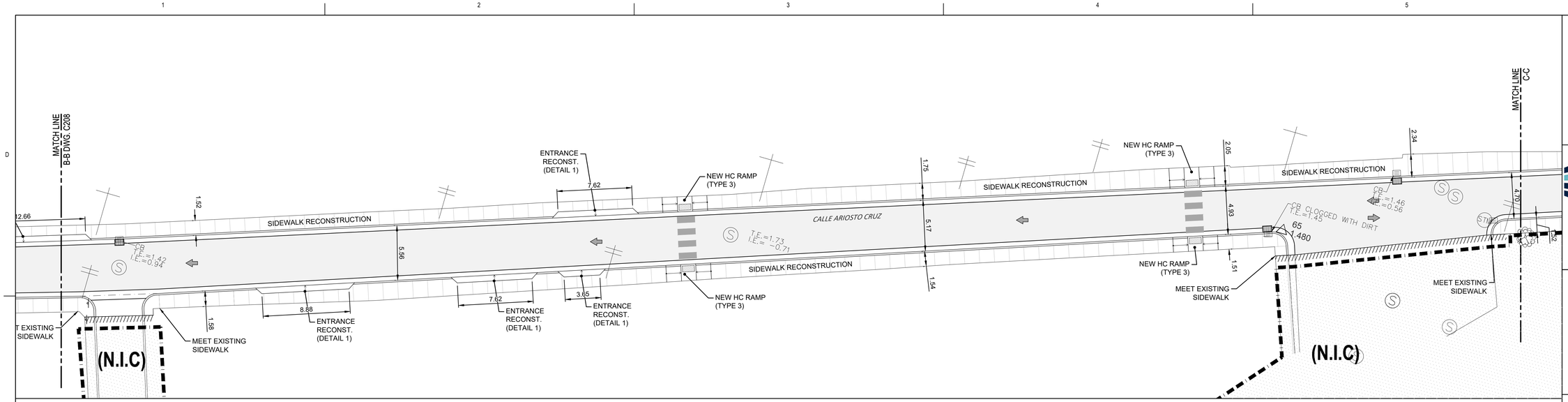
SHEET TITLE

LAYOUT PLAN
CALLE ARIOSTO CRUZ

SHEET ID

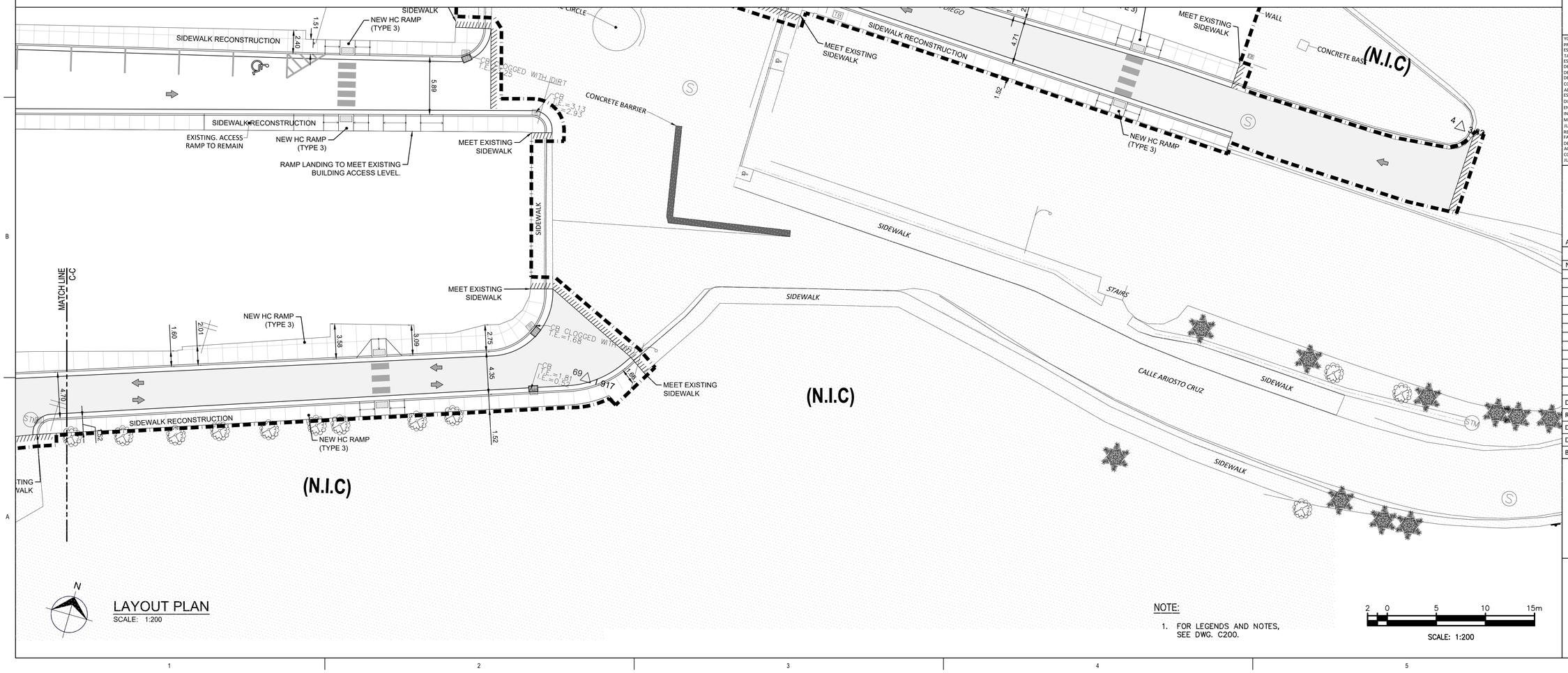
C208

9/13/2024 12:42:29 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejoraCalles\07-Project Design\01-Civil\C208-9.dwg



N

LAYOUT PLAN
SCALE: 1:200



N

LAYOUT PLAN
SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

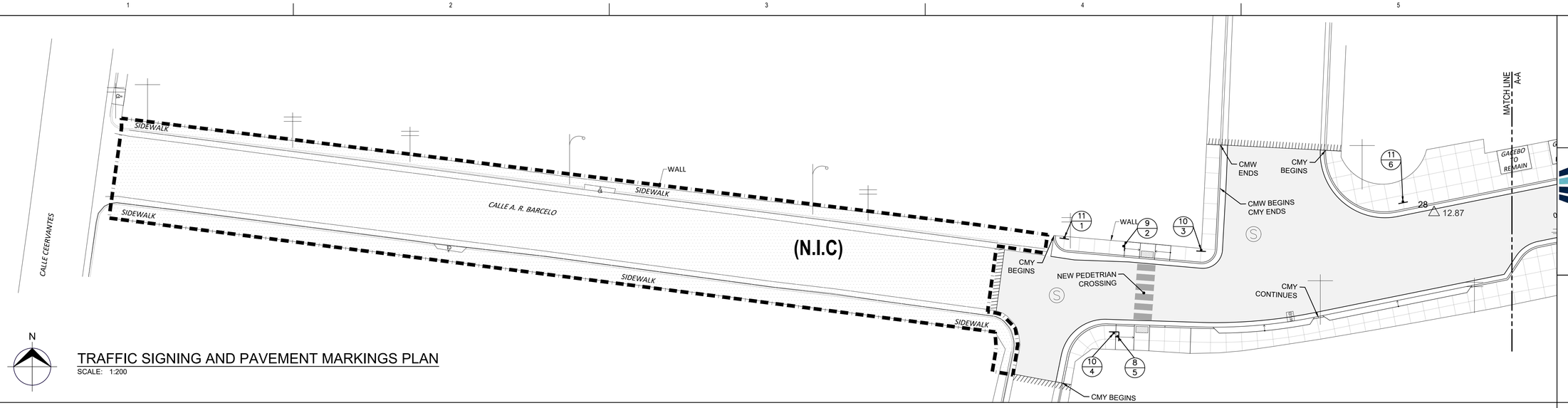
SHEET TITLE

LAYOUT PLAN
CALLE ARIOSTO CRUZ

SHEET ID

C209

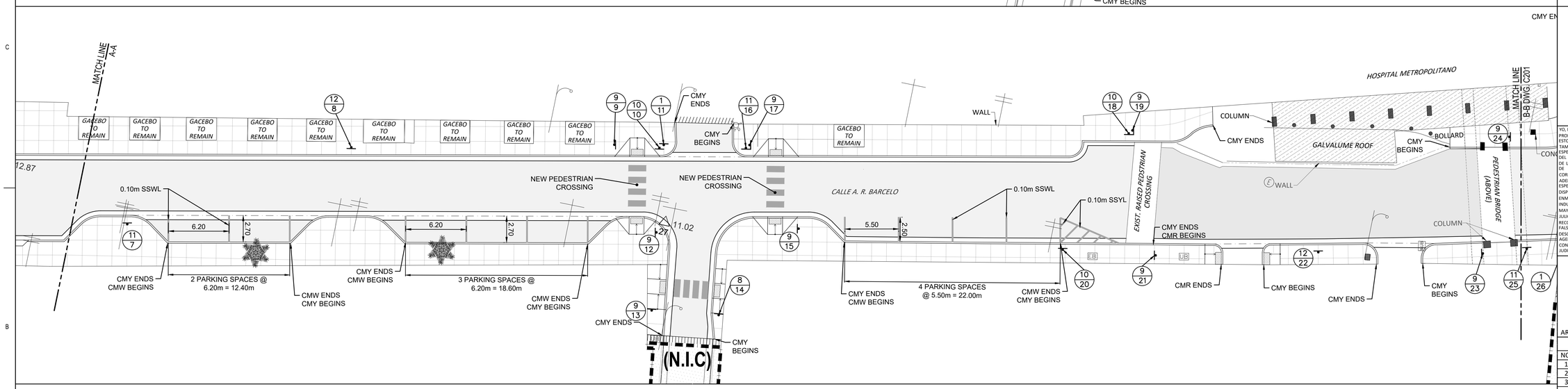
9/13/2024 12:42:33 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C208-9.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

LEGEND:

CMY	CURB MARKING YELLOW
CMW	CURB MARKING WHITE
CMR	CURB MARKING RED
SSYL	SINGLE SOLID YELLOW LINE
SSWL	SINGLE SOLID WHITE LINE
SSBL	SINGLE SOLID BLUE LINE
SSRL	SINGLE SOLID RED LINE
	EXISTING TRAFFIC SIGN TO REMAIN
	EXISTING KILOMETER MARKER TO REMAIN
	NEW TRAFFIC SIGN LOCATION
	NEW BACK TO BACK TRAFFIC SIGN LOCATION
	CODE NUMBER
	LOCATION NUMBER

GENERAL SITE NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ARE EXPRESSED IN METERS, UNLESS OTHERWISE NOTED.
2. REFER TO DWG. C200–C209 FOR SITE LAYOUT PLANS.
3. REFER TO DWG. C241 FOR PARKING PAVEMENT MARKING DETAILS
4. REFER TO DWGS. C240 FOR TRAFFIC SIGN TABLE
5. REFER TO DWG. D100–D109 FOR LOCATION OF TRAFFIC SIGNS TO BE REMOVED.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

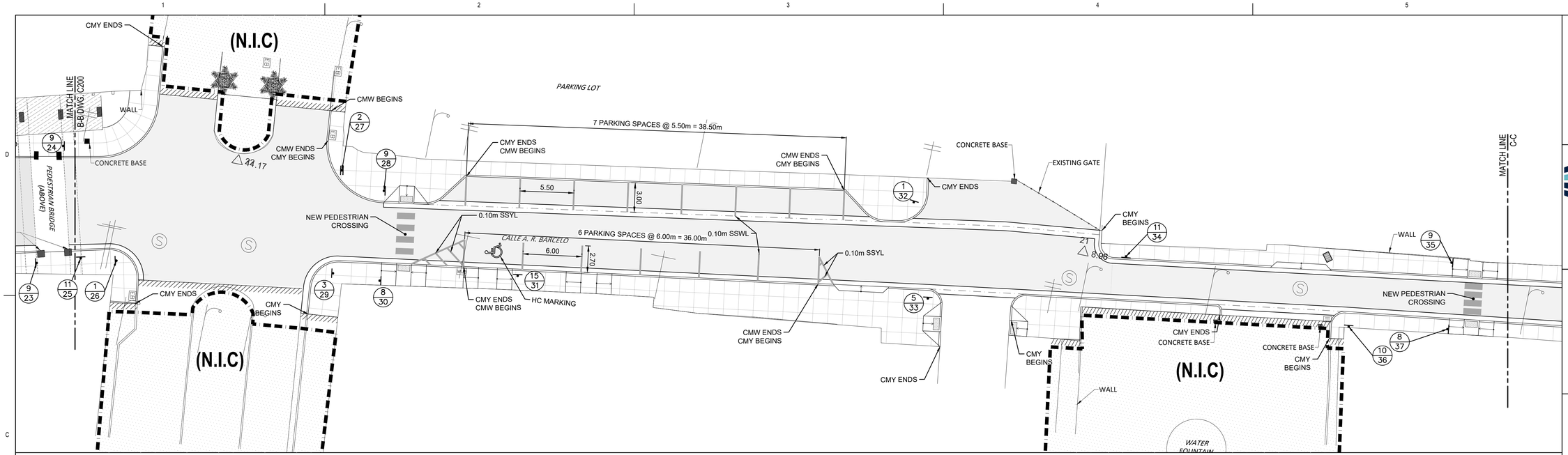
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE ANTONIO ROMERO BARCELO

SHEET ID

C230

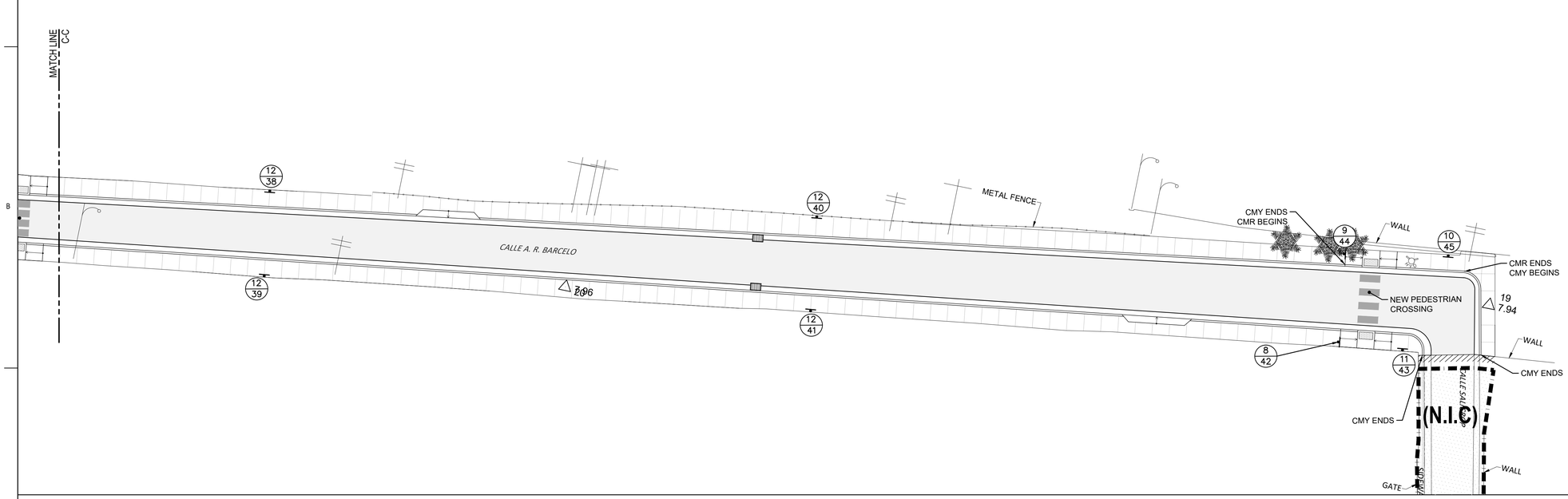
9/13/2024 12:42:44 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C230-1.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

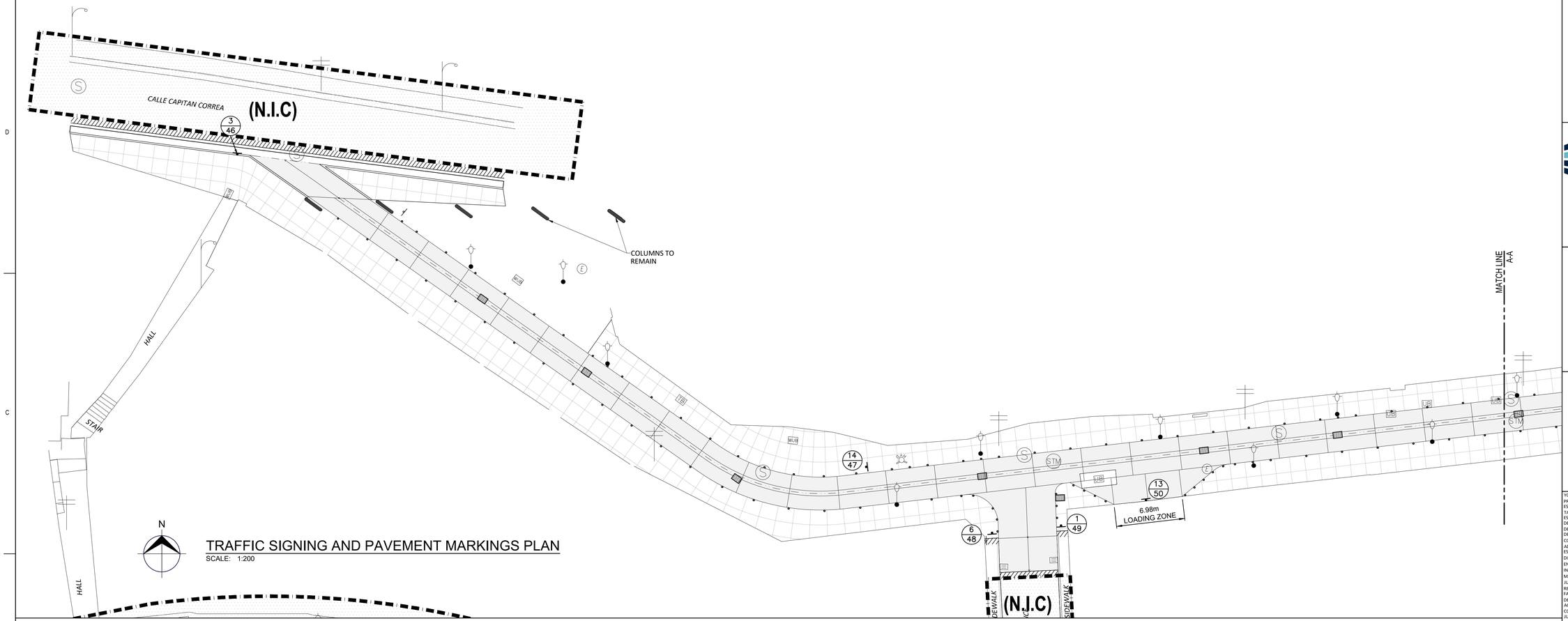
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE ANTONIO ROMERO BARCELO

SHEET ID

C231

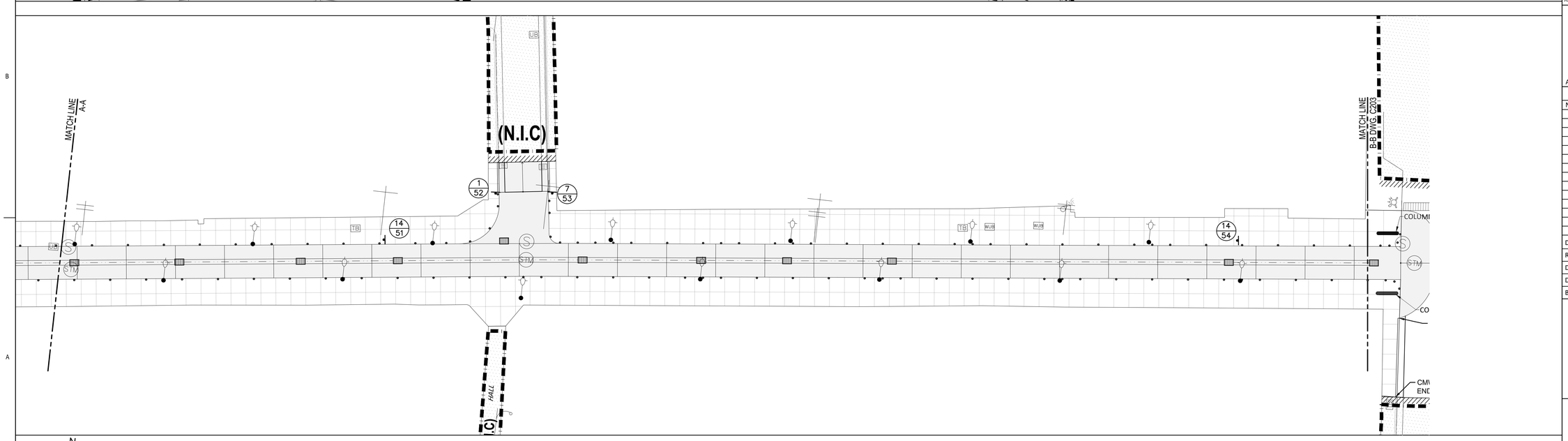
9/13/2024 12:42:48 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C230-1.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA PÚ ME, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

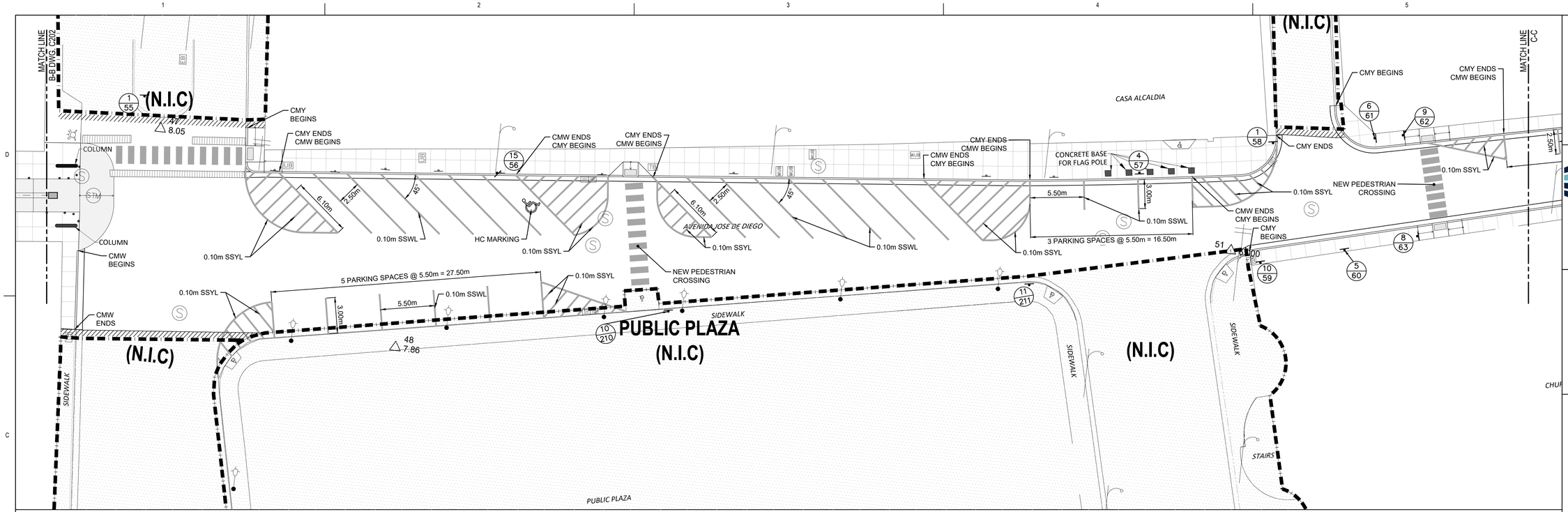
SHEET TITLE

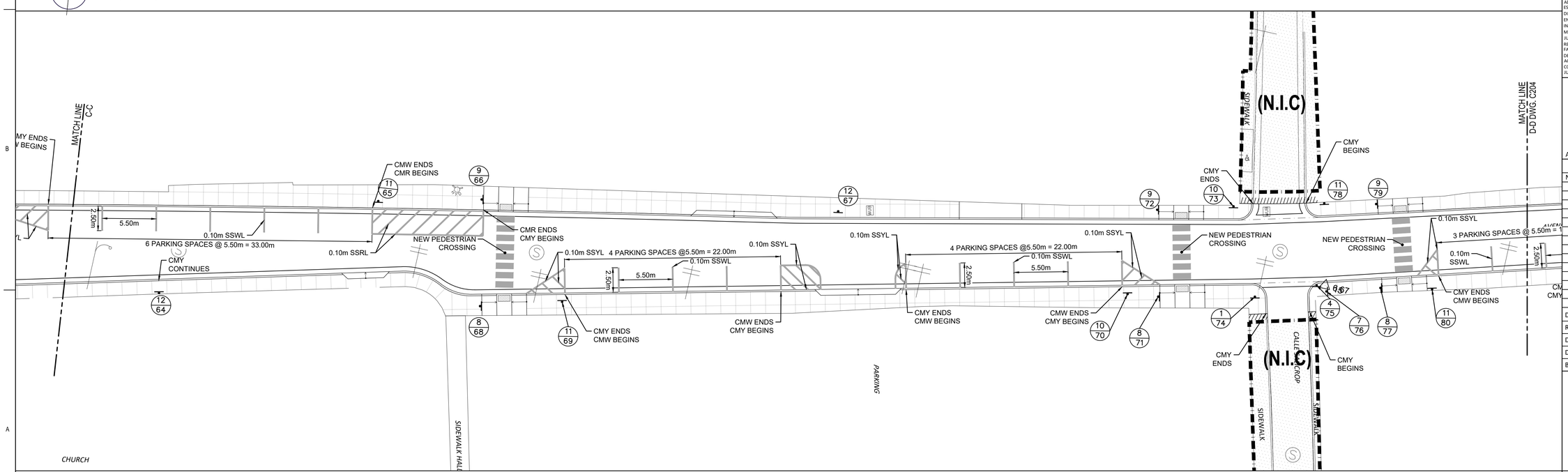
TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN AVE. JOSE DE DIEGO

SHEET ID

C232

9/13/2024 12:42:59 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C232-3-4.dwg





N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUES. RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

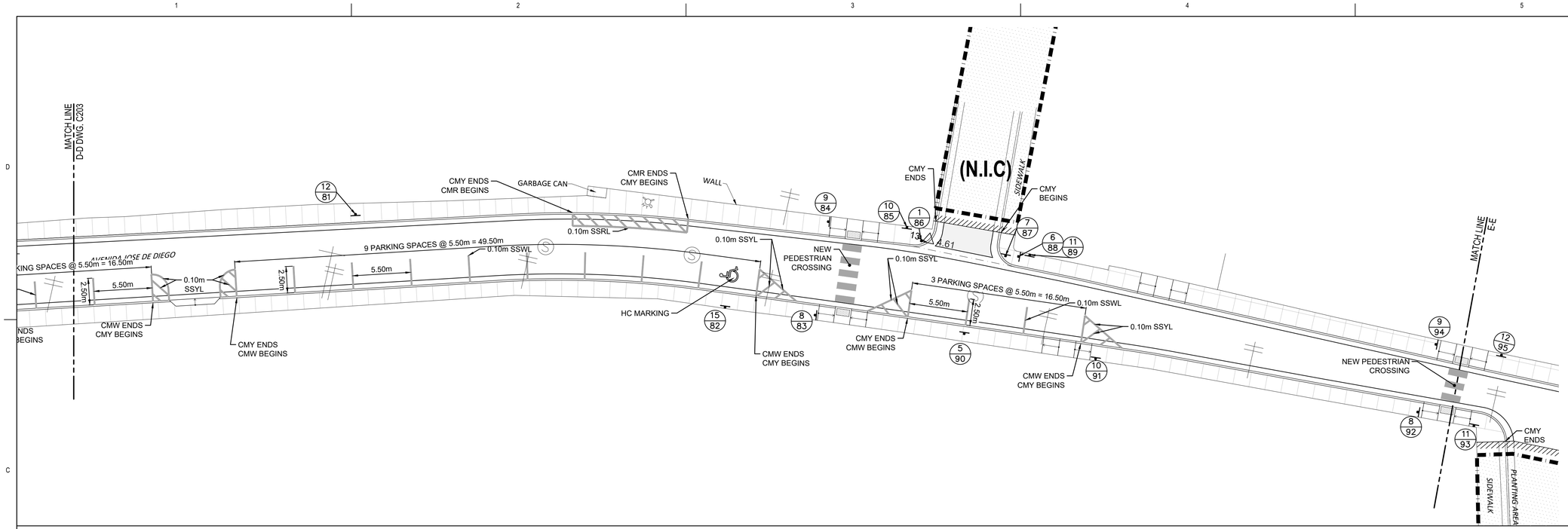
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN AVE. JOSE DE DIEGO

SHEET ID

C233

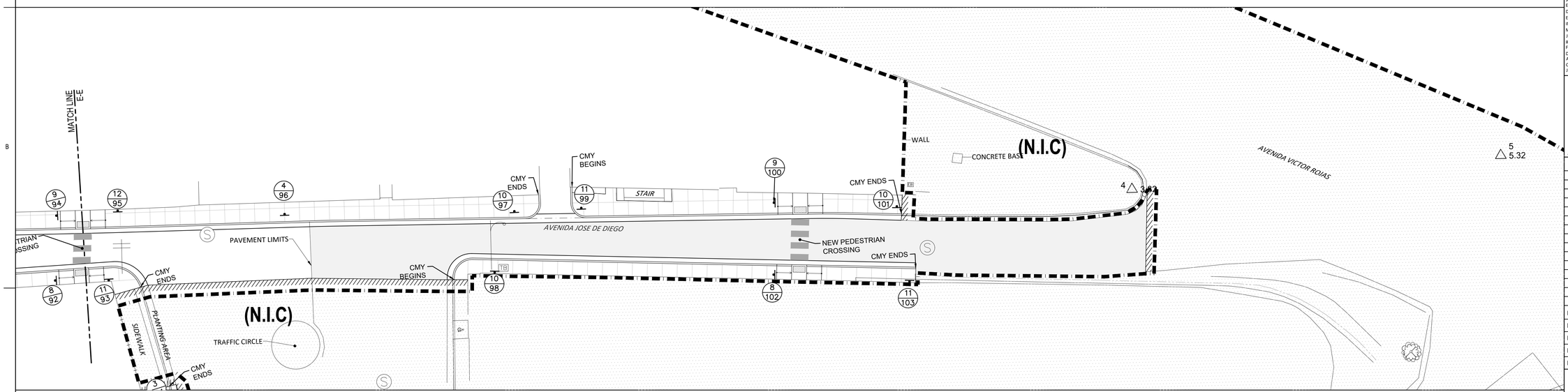
9/13/2024 12:43:03 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C232-3-4.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

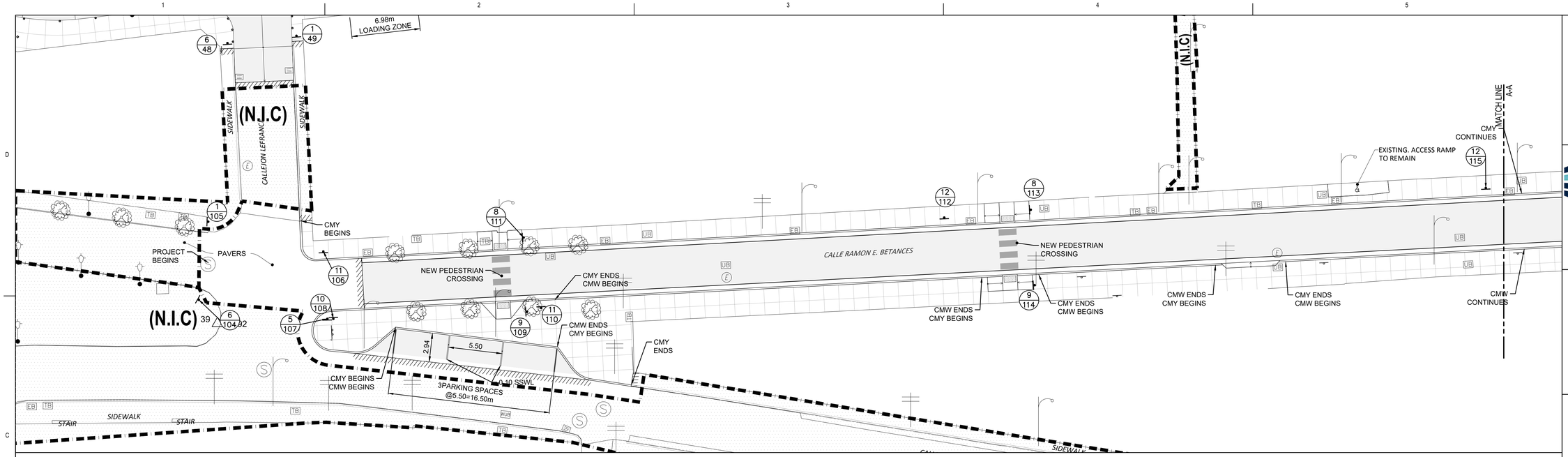
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN AVE. JOSE DE DIEGO

SHEET ID

C234

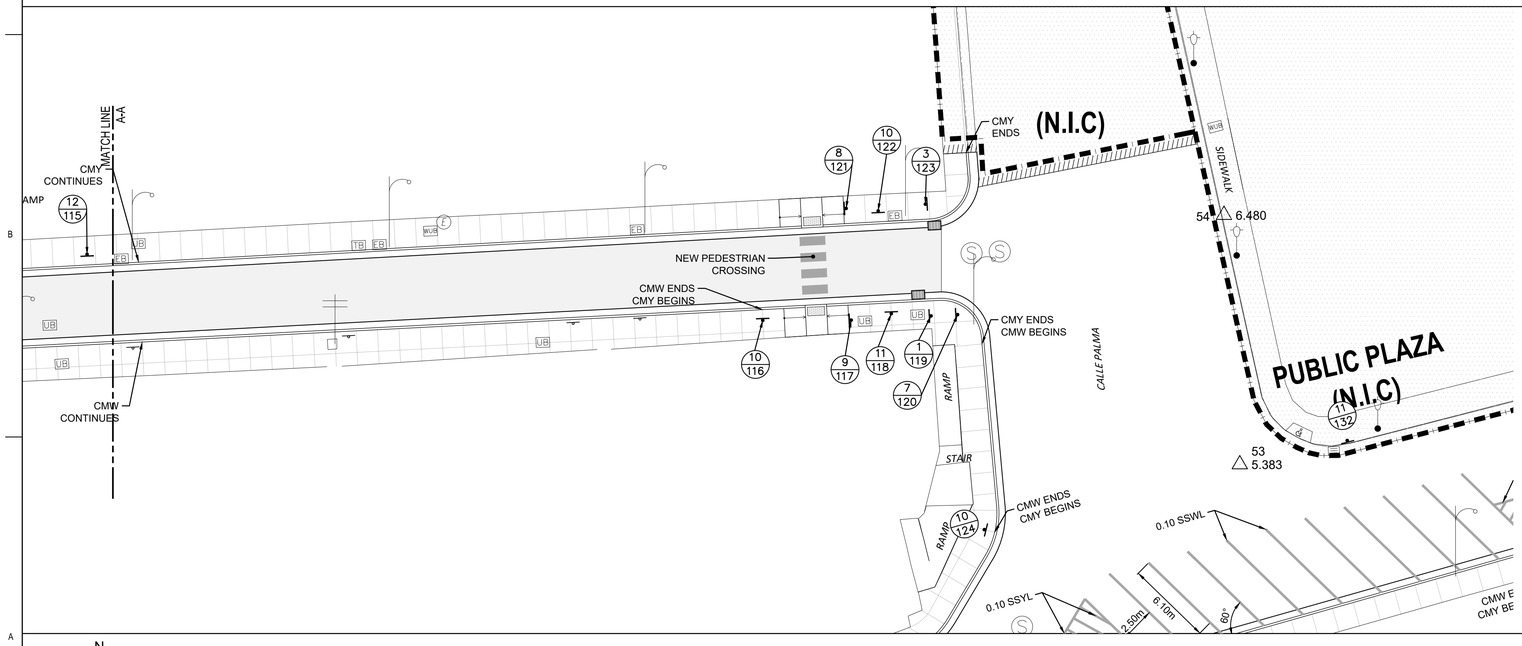
9/13/2024 12:43:07 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C232-3-4.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

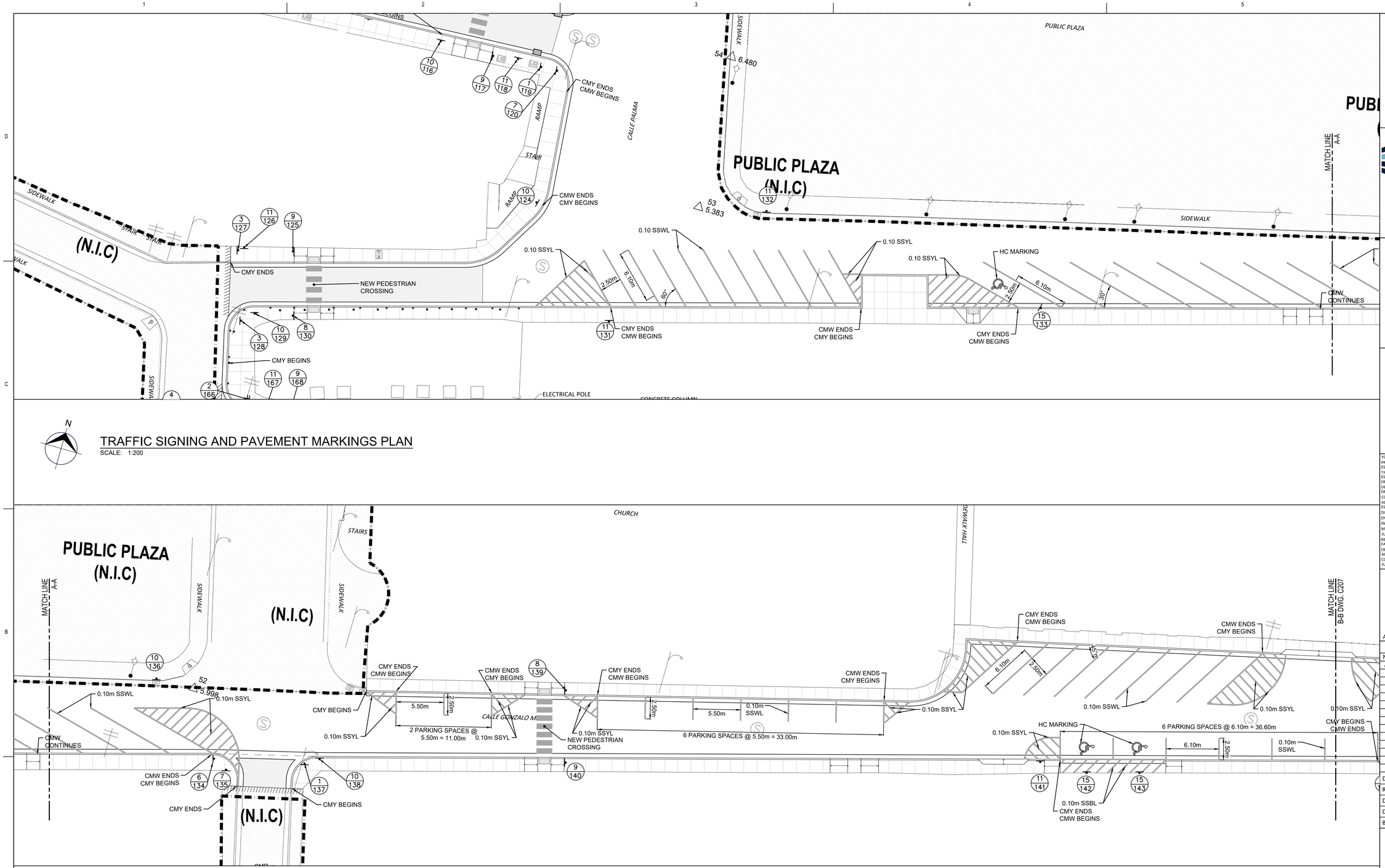
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE RAMON E. BETANCES

SHEET ID

C235

9/13/2024 12:43:17 PM C:\Users\Miguel Matos\OneDrive - Benliez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C235.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
0	PRELIMINARY DRAWINGS	12/10/21
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

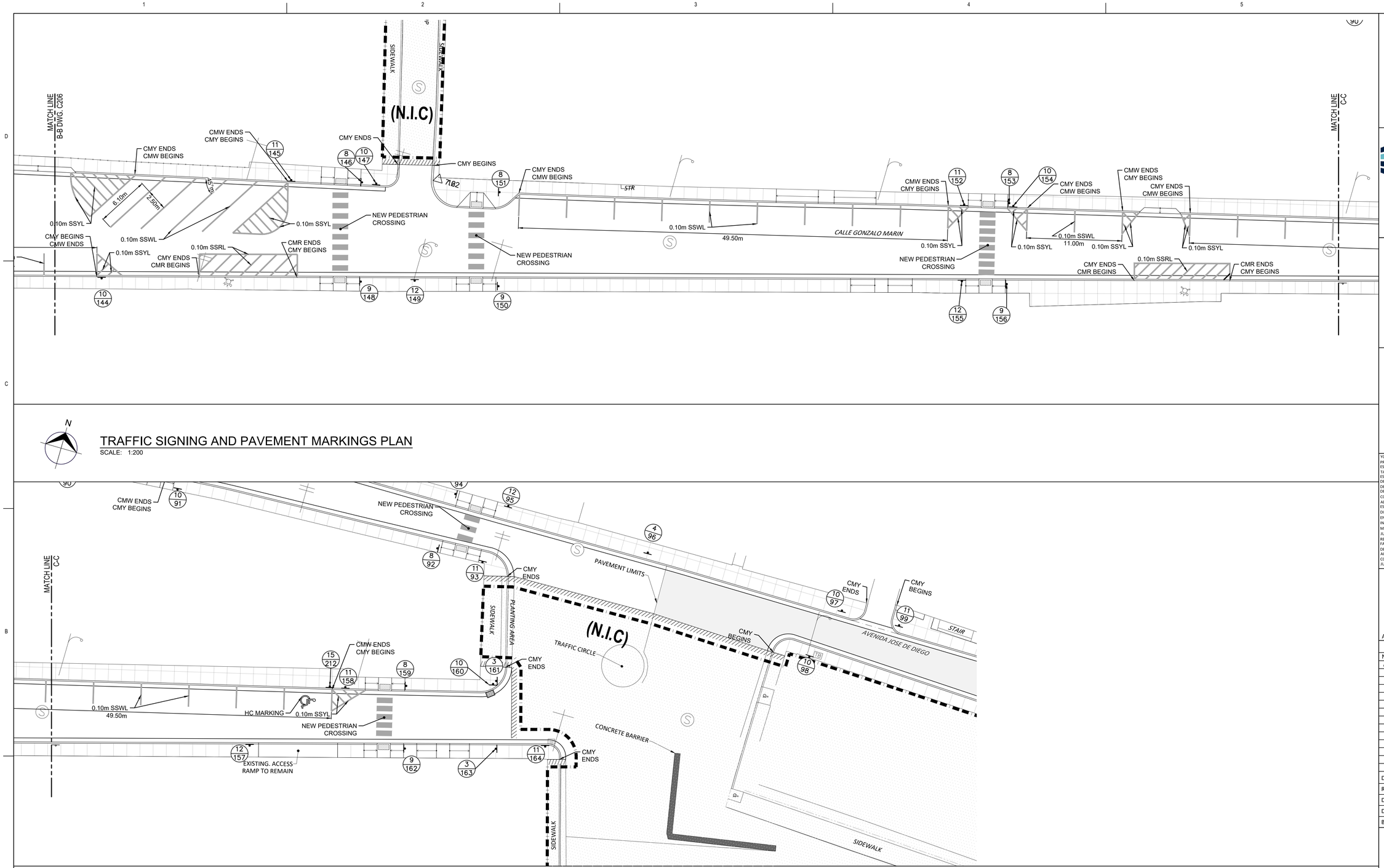
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE GONZALO MARIN

SHEET ID

C236

9/13/2024 12:43:27 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C236-7.dwg



TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
d	~~PRELIMINARY DRAWINGS~~	~~07/10/23~~
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

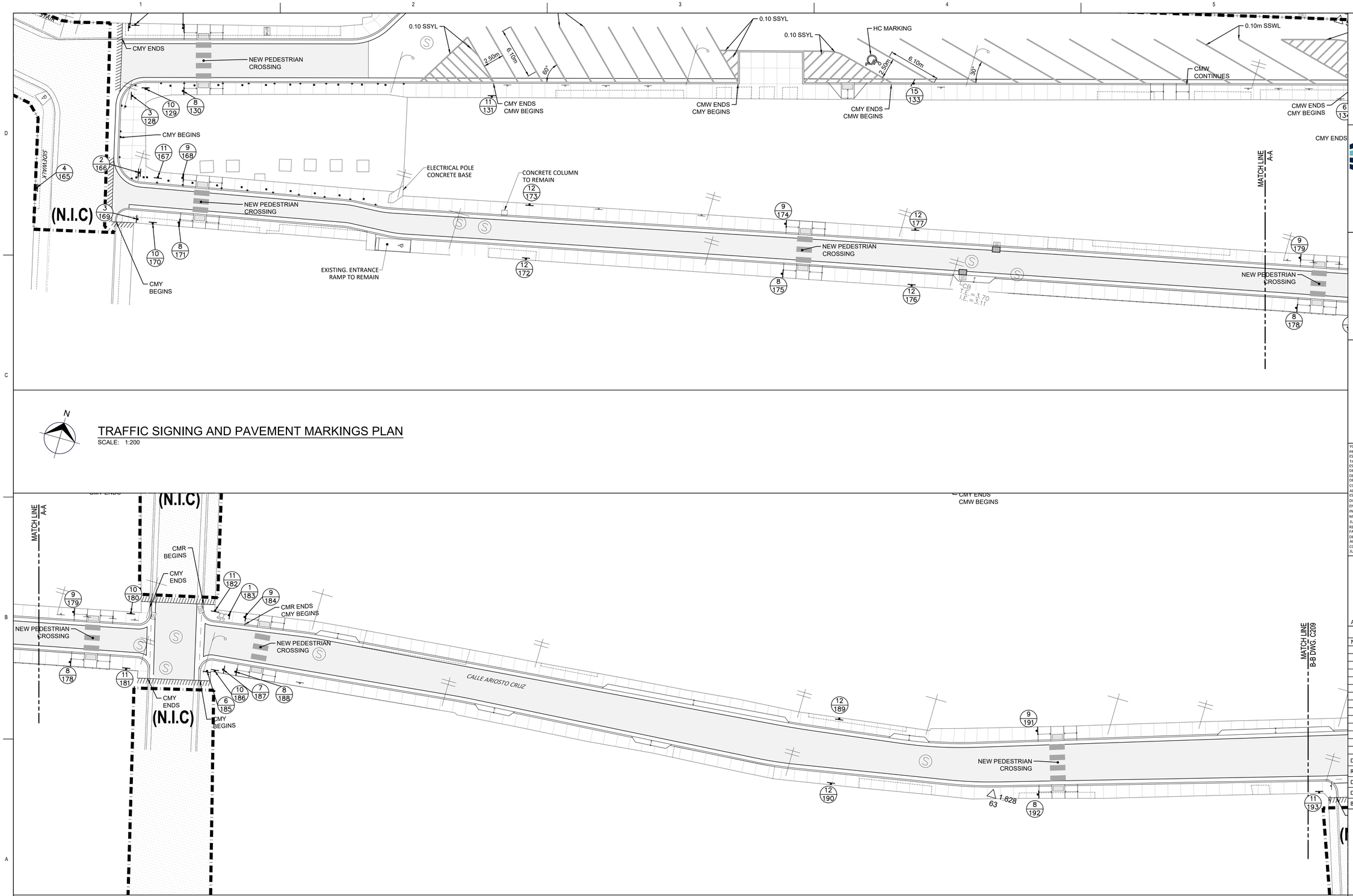
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE GONZALO MARIN

SHEET ID

C237

9/13/2024 12:43:32 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C236-7.dwg



N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

N

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C200.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

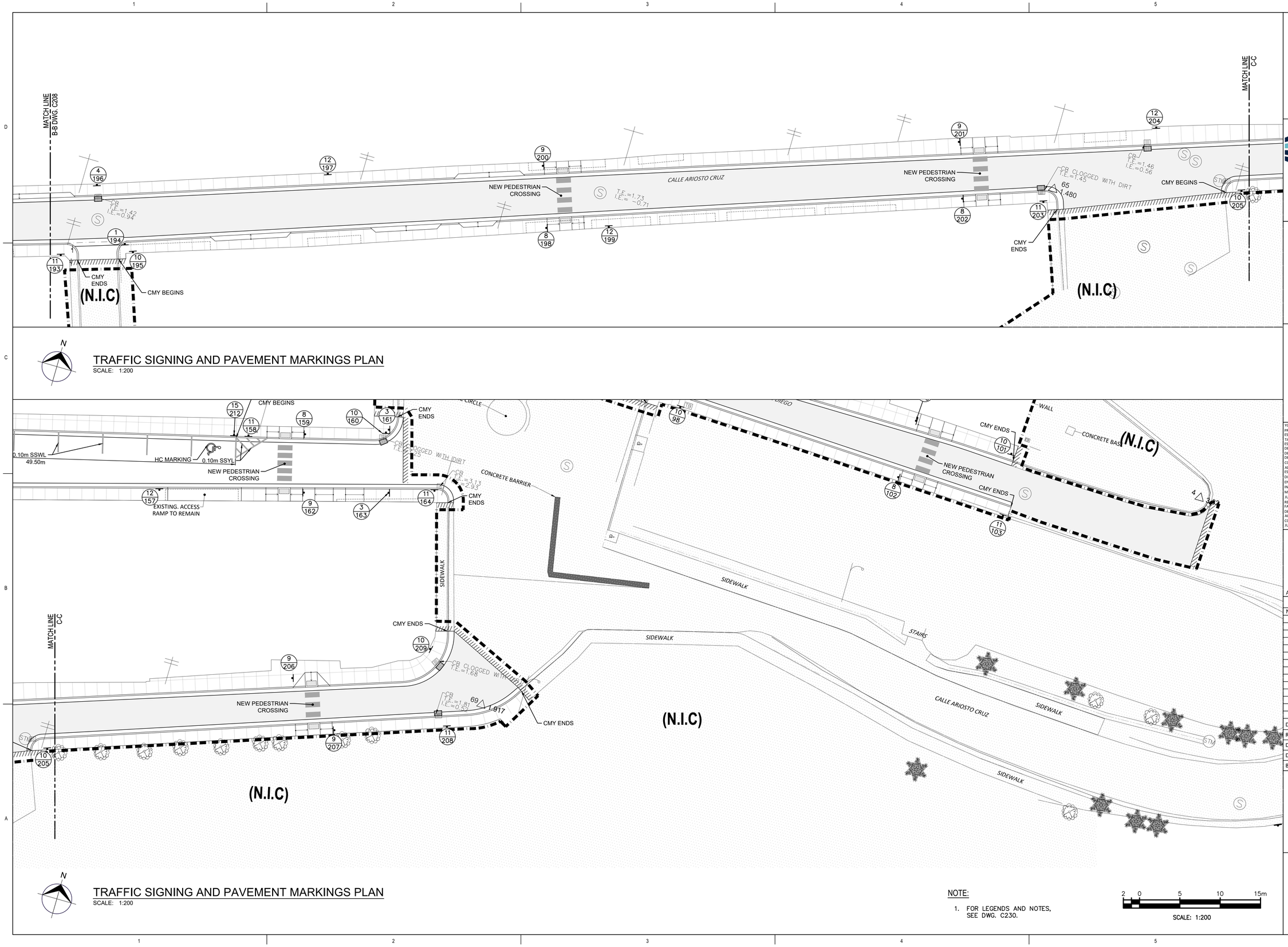
SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE ARIOSTO CRUZ

SHEET ID

C238

9/13/2024 12:43:42 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejoraCalles\07-Project Design\01-Civil\C238-9.dwg



TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C230.

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

SHEET TITLE

TRAFFIC SIGNING AND PAVEMENT MARKINGS PLAN CALLE ARIOSTO CRUZ

SHEET ID

C239

9/13/2024 12:43:46 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C238-9.dwg

TRAFFIC SIGNS

CODE No.	LOCATION No.	SIGN CODE	LEGEND	SIZE OF SIGN PANELS	STRUCTURE TYPE	REFERENCE MANUAL	TOTAL ITEM
1	11, 26, 32, 49, 52, 55, 58, 74, 86, 105, 119, 137, 183, 194	R1–1		30" X 30"	N/A	SEE D.T.P.W. MANUAL 2020	14
2	27, 166	R1–1 R5–1	BACK TO BACK	30" X 30" 30" X 30"	N/A	SEE D.T.P.W. MANUAL 2020	2
3	29, 46, 123, 127, 128, 161, 163, 169	R5–1		30" X 30"	N/A	SEE D.T.P.W. MANUAL 2020	8
4	57, 75, 96, 165, 196	R6–1(I) R3–1		36" X 12" 24" X 24"	N/A	SEE D.T.P.W. MANUAL 2020	5
5	33, 60, 90, 107	R6–1(D) R3–2		36" X 12" 24" X 24"	N/A	SEE D.T.P.W. MANUAL 2020	4
6	48, 61, 88, 104, 134, 185	R3–1		24" X 24"	N/A	SEE D.T.P.W. MANUAL 2020	6
7	53, 76, 87, 120, 135, 187	R3–2		24" X 24"	N/A	SEE D.T.P.W. MANUAL 2020	6
8	5, 14, 30, 37, 42, 63, 68, 71, 77, 83, 92, 102, 111, 113, 121, 130, 139, 146, 151, 153, 159, 171, 175, 178, 188, 192, 198, 202	W11–2 W16–7P(D)		30" X 30" 24" X 12"	N/A	SEE D.T.P.W. MANUAL 2020	28
9	2, 9, 12, 13, 15, 17, 19, 21, 23, 24, 28, 35, 44, 62, 66, 72, 79, 84, 94, 100, 109, 114, 117, 125, 140, 148, 150, 156, 162, 168, 174, 179, 184, 191, 200, 201, 206, 207	W11–2 W16–7P(I)		30" X 30" 24" X 12"	N/A	SEE D.T.P.W. MANUAL 2020	38
10	3, 4, 10, 18, 20, 36, 45, 59, 70, 73, 85, 91, 97, 98, 101, 108, 116, 122, 124, 129, 136, 138, 144, 147, 154, 160, 170, 180, 186, 195, 205, 209, 210	R7–1(I)		18" X 12"	N/A	SEE D.T.P.W. MANUAL 2020	33
11	1, 6, 7, 16, 25, 34, 43, 65, 69, 78, 80, 89, 93, 99, 103, 106, 110, 118, 126, 131, 132, 141, 145, 152, 158, 164, 167, 181, 182, 193, 203, 208, 211	R7–1(D)		18" X 12"	N/A	SEE D.T.P.W. MANUAL 2020	33
12	8, 22, 38, 39, 40, 41, 64, 67, 81, 95, 112, 115, 149, 155, 157, 172, 173, 176, 177, 189, 190, 197, 199, 204	R7–1		18" X 12"	N/A	SEE D.T.P.W. MANUAL 2020	24
13	50	R7–6		18" X 12"	N/A	SEE D.T.P.W. MANUAL 2020	1
14	47, 51, 54	R2–1		18" X 24"	N/A	SEE D.T.P.W. MANUAL 2020	3
15	31, 56, 82, 133, 142, 143, 212	R7–8(PR)		24" X 24"	N/A	SEE D.T.P.W. MANUAL 2020	7

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

SHEET TITLE

TRAFFIC SIGNS TABLE

SHEET ID

C240

9/13/2024 12:43:56 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C240.dwg

TRAFFIC SIGNING NOTES:

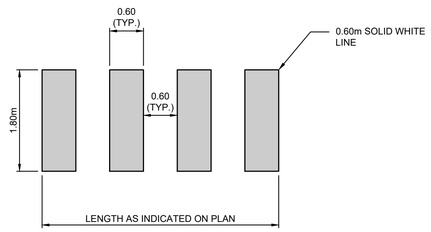
1. REMOVAL AND INSTALLATION OF TRAFFIC SIGNS ARE INCLUDED AS SUBSIDIARY OBLIGATION ON SPEC 613 PAY ITEM.
2. NEW TRAFFIC SIGNS SHALL BE IN COMPLIANCE WITH M.U.T.C.D. 2023 AND DPTW MANUAL 2020.
3. REMOVAL OF EXITING SIGNS ARE INCLUDED ON SPECIAL PROVISION 913 REMOVAL OR RELOCATION OF EXISTING TRAFFIC SIGNS PAY ITEM.
4. EXISTING SIGNS INDICATED TO BE REPLACED SHOULD BE REMOVED AND NEW SIGN SHOULD BE INSTALL ON THE SAME LOCATION (UNLESS OTHERWISE NOTED).
5. EXISTING TRAFFIC SIGNS TO REMAIN SHALL BE CLEAN ACCORDING TO SPECIAL PROVISION 980.

PAVEMENT MARKING NOTES:

1. ALL PAVEMENT MARKING LINES AND SYMBOLS ARE INCLUDED ON SPEC. 618-THERMOPLASTIC PAVEMENT MARKING STRIPES (WHITE, YELLOW, BLUE AND RED), PAVEMENT MARKING LETTERS AND SYMBOLS PAY ITEMS.

PARALLEL HANDICAP PARKING DETAIL

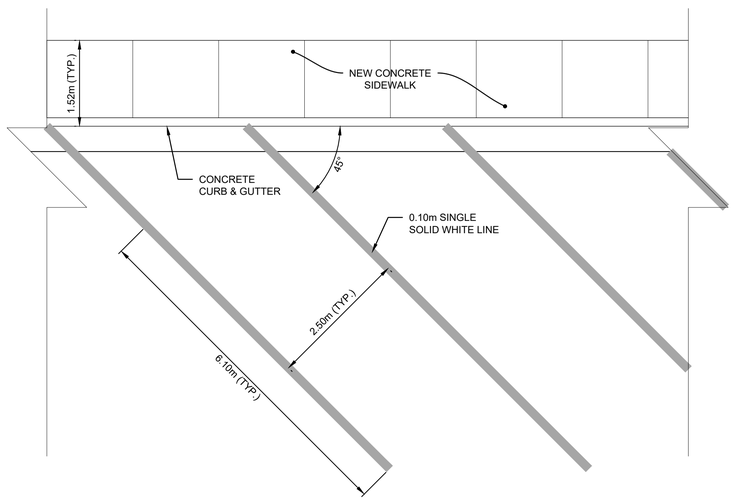
SCALE: NTS



PLAN

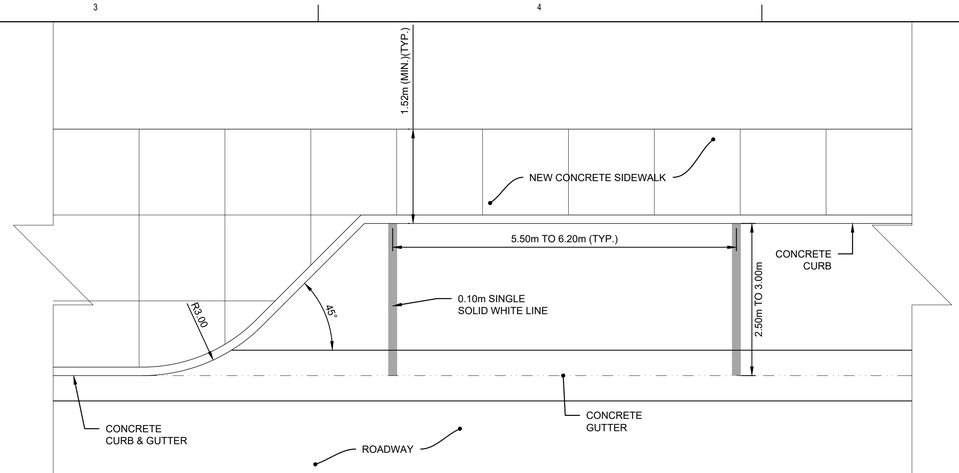
PEDESTRIAN CROSSING SYMBOL

SCALE: NTS



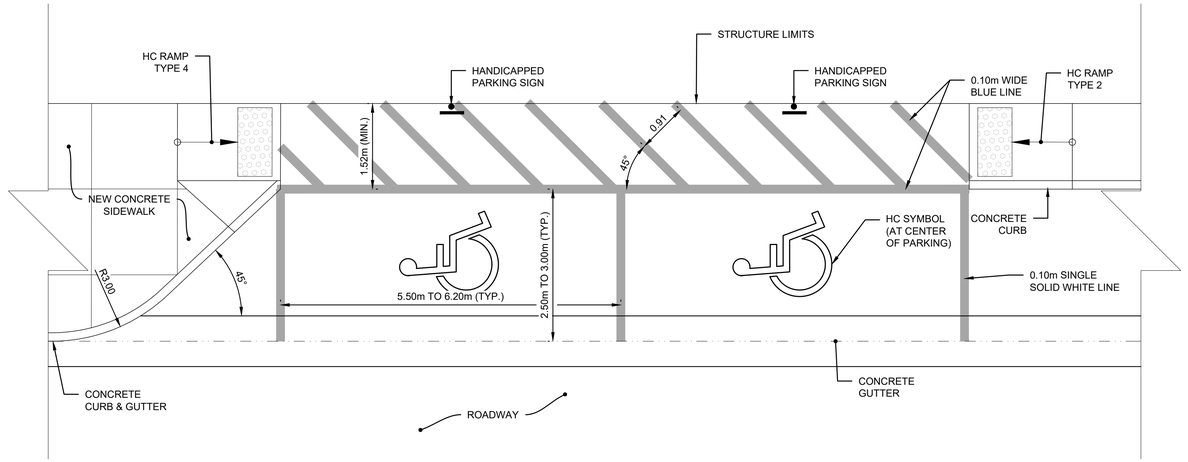
CURB PARKING AT 45° ANGLE DETAIL

SCALE: NTS



PARALLEL PARKING DETAIL

SCALE: NTS



OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	MVMM
DRAWN BY:	AMC
DESIGNED BY:	LJND
BRA PROJECT NUMBER:	23014

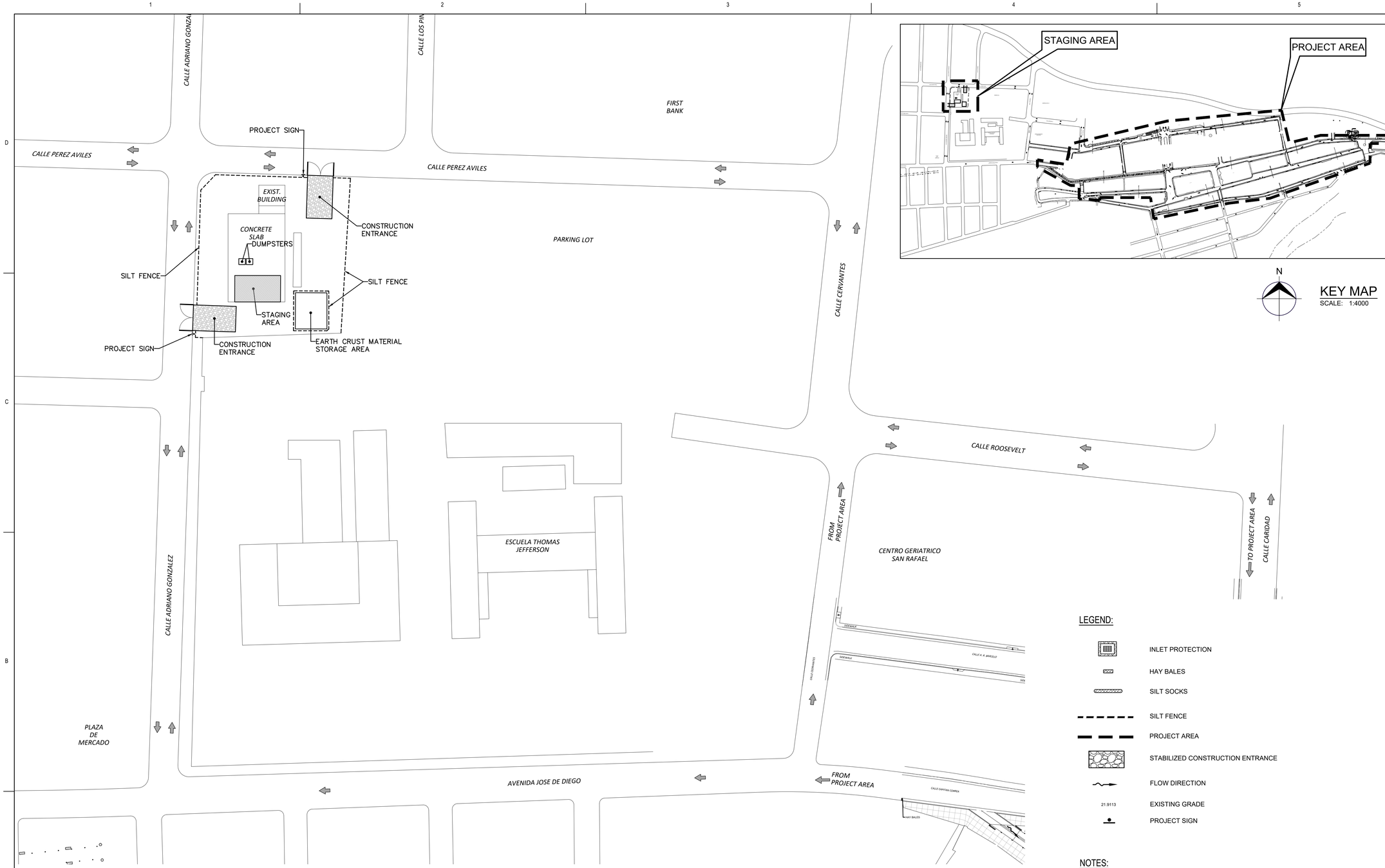
SHEET TITLE

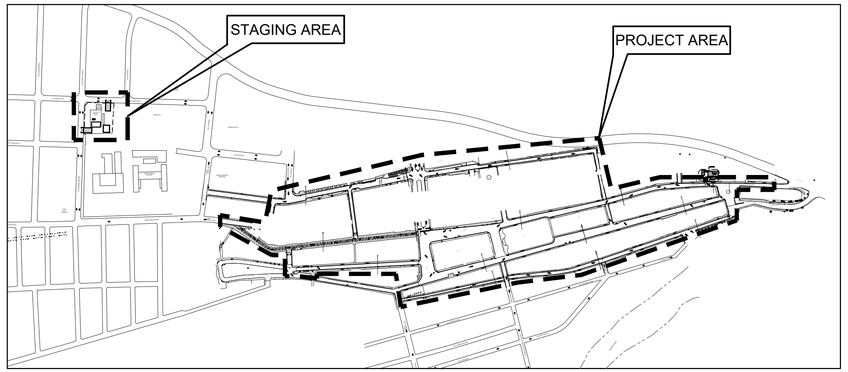
PAVEMENT MARKING DETAILS

SHEET ID

C241

9/13/2024 12:43:57 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C240.dwg





N

KEY MAP
SCALE: 1:4000

STAGING AREA COORDINATES:

LAT: N18.473685962607
LON: W66.720861979811

N

EROSION AND SEDIMENTATION CONTROL - STAGING AREA
SCALE: 1:500

LEGEND:

- INLET PROTECTION
- HAY BALES
- SILT SOCKS
- SILT FENCE
- PROJECT AREA
- STABILIZED CONSTRUCTION ENTRANCE
- FLOW DIRECTION
- 21.9113 EXISTING GRADE
- PROJECT SIGN

NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ARE EXPRESSED IN METERS, UNLESS OTHERWISE NOTED.
2. FOR EROSION AND SEDIMENT CONTROL DETAILS AND NOTES, REFER TO DWG. C491.
3. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMMENCE WITH ANY DEMOLITION OR EXCAVATION, AND MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION.

5 0 5 10 15 20
SCALE: 1:500

OWNER
Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT
BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUEI). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

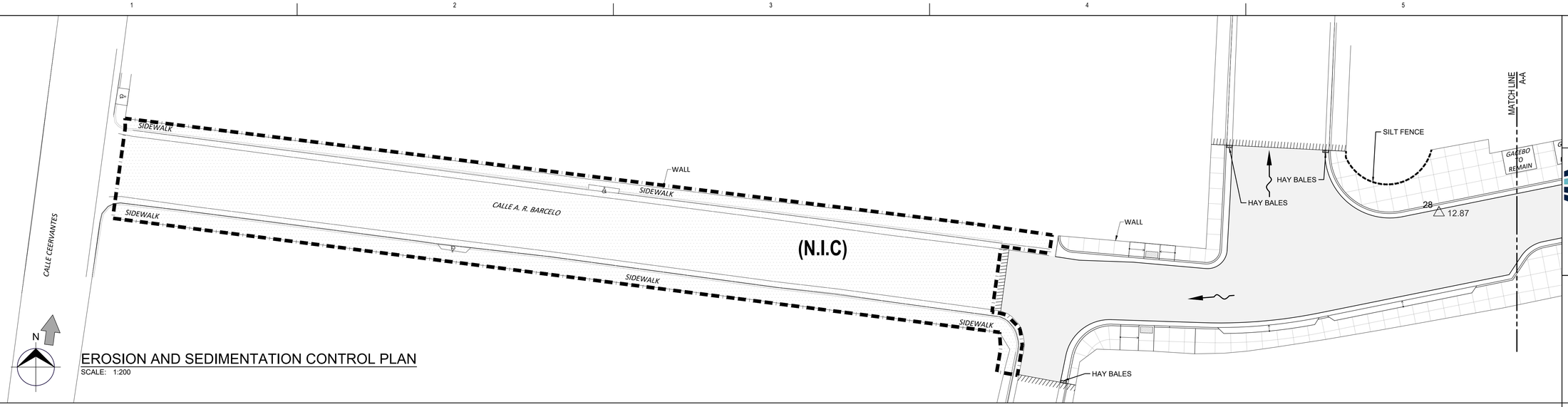
SHEET TITLE

EROSION & SEDIMENTATION CONTROL PLAN

SHEET ID

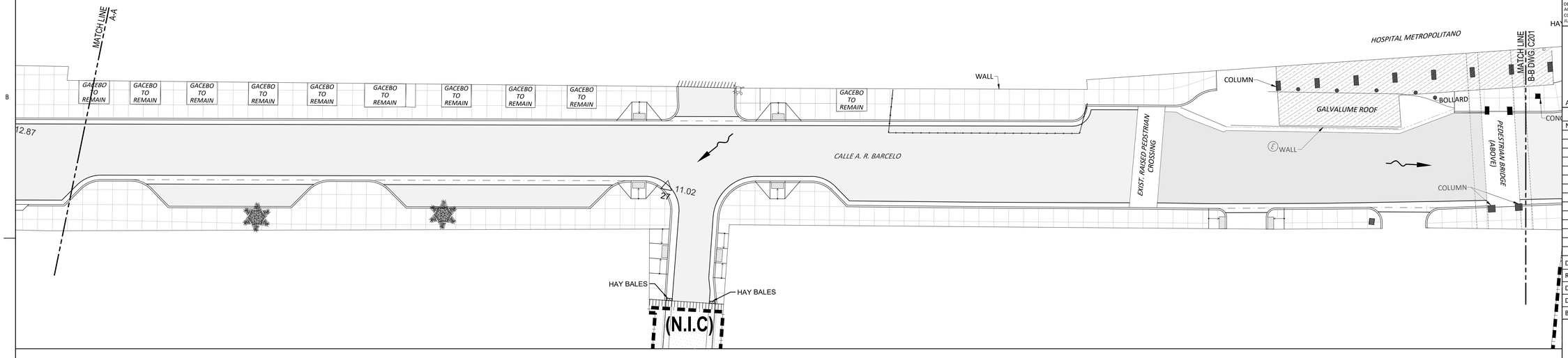
C480

9/13/2024 12:44:02 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C480.dwg



EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200



EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

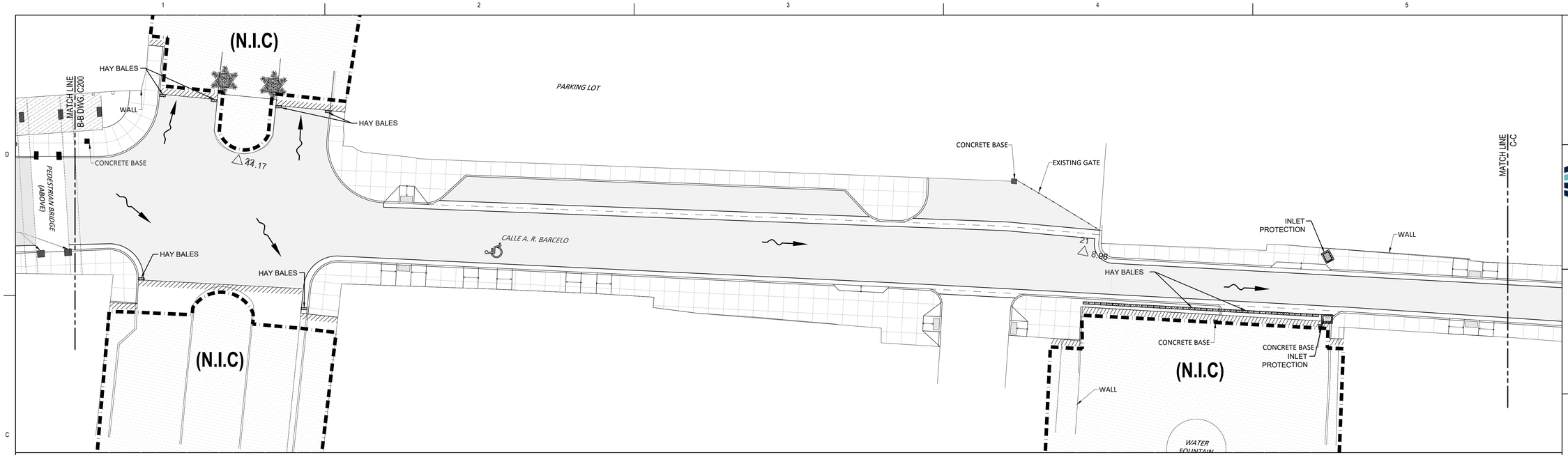
SHEET TITLE

LAYOUT PLAN
CALLE ANTONIO ROMERO BARCELO

SHEET ID

C481

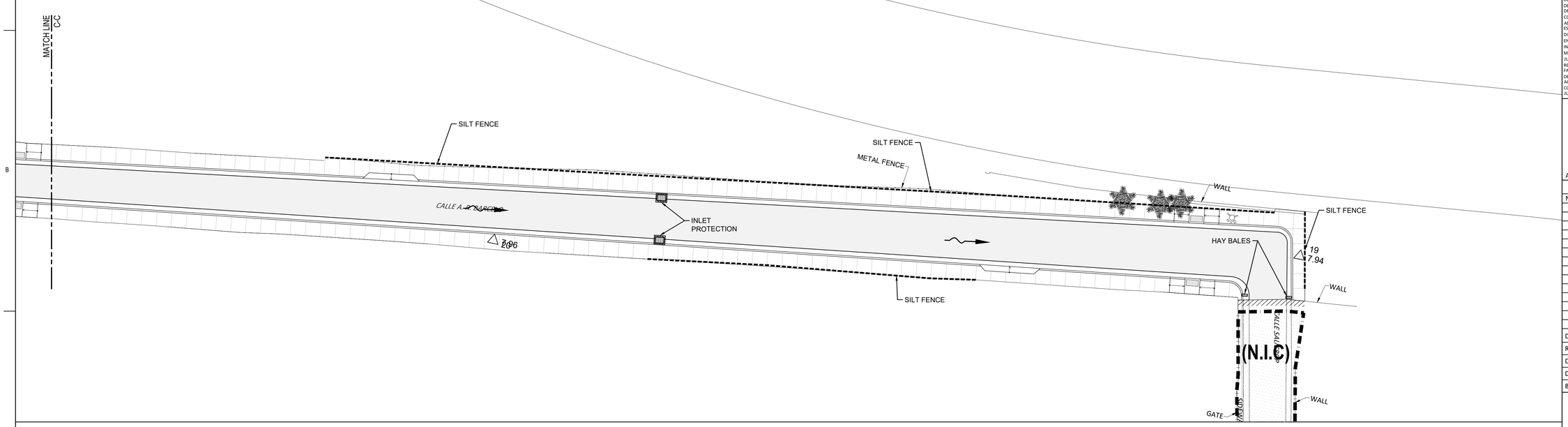
9/13/2024 12:44:12 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C481-2.dwg



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

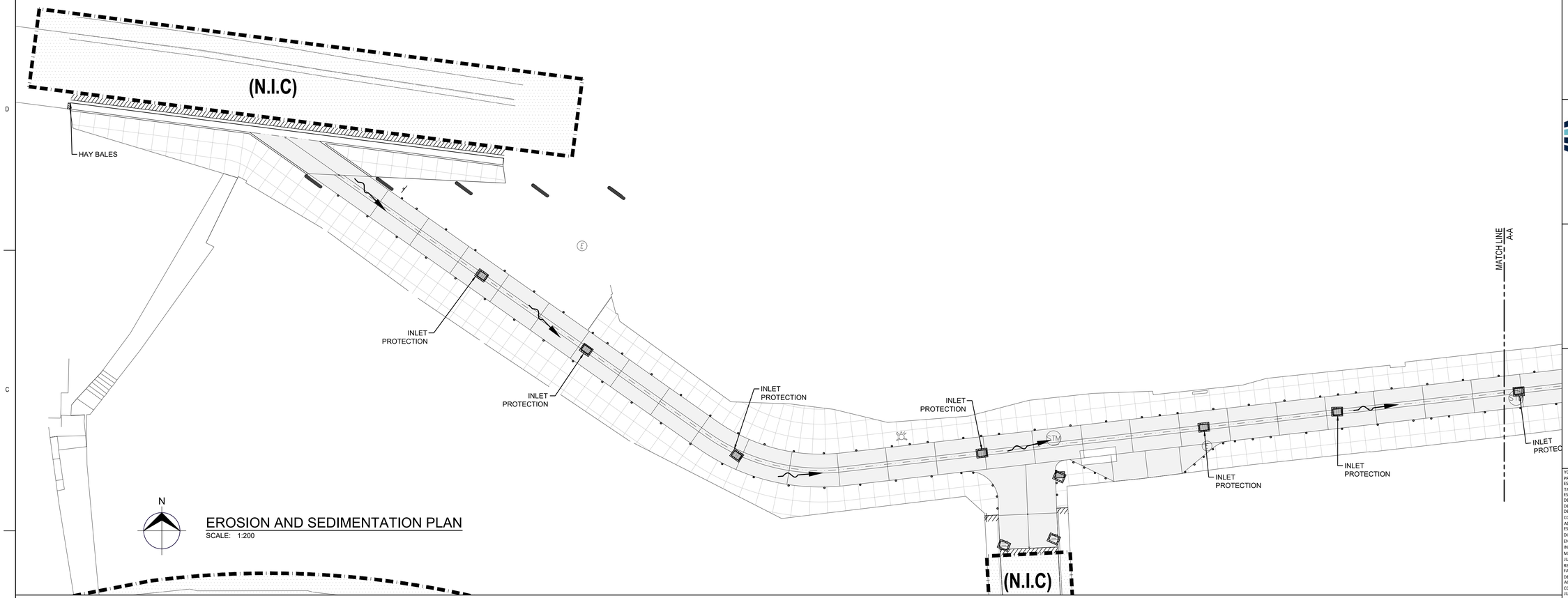
SHEET TITLE

LAYOUT PLAN
CALLE ANTONIO ROMERO BARCELO

SHEET ID

C482

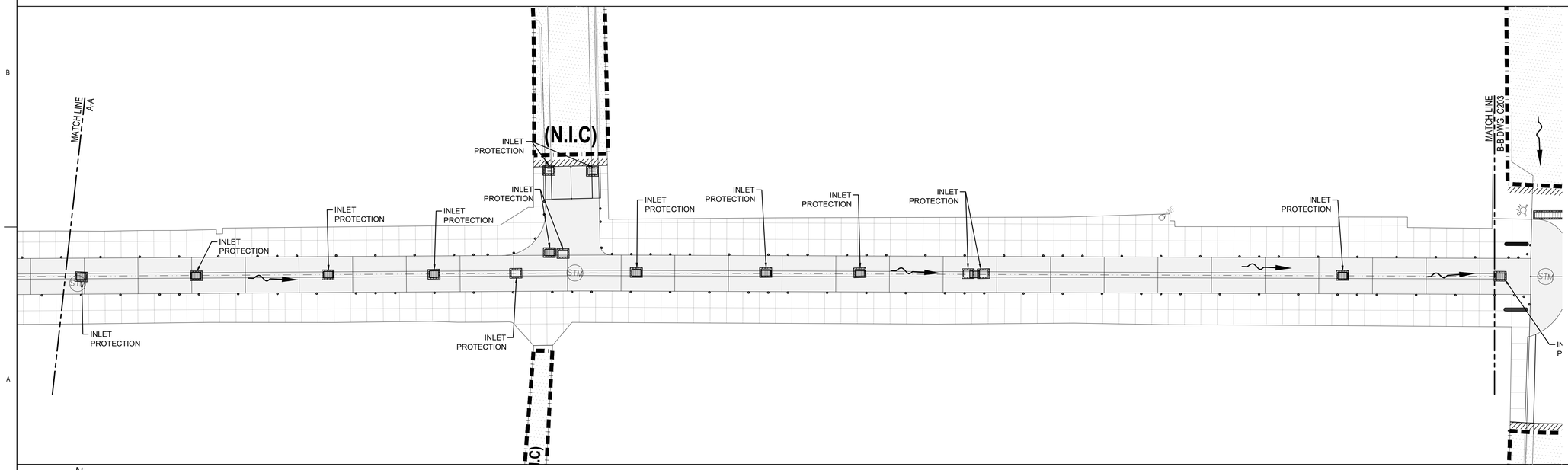
9/13/2024 12:44:16 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C481-2.dwg



N

EROSION AND SEDIMENTATION PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

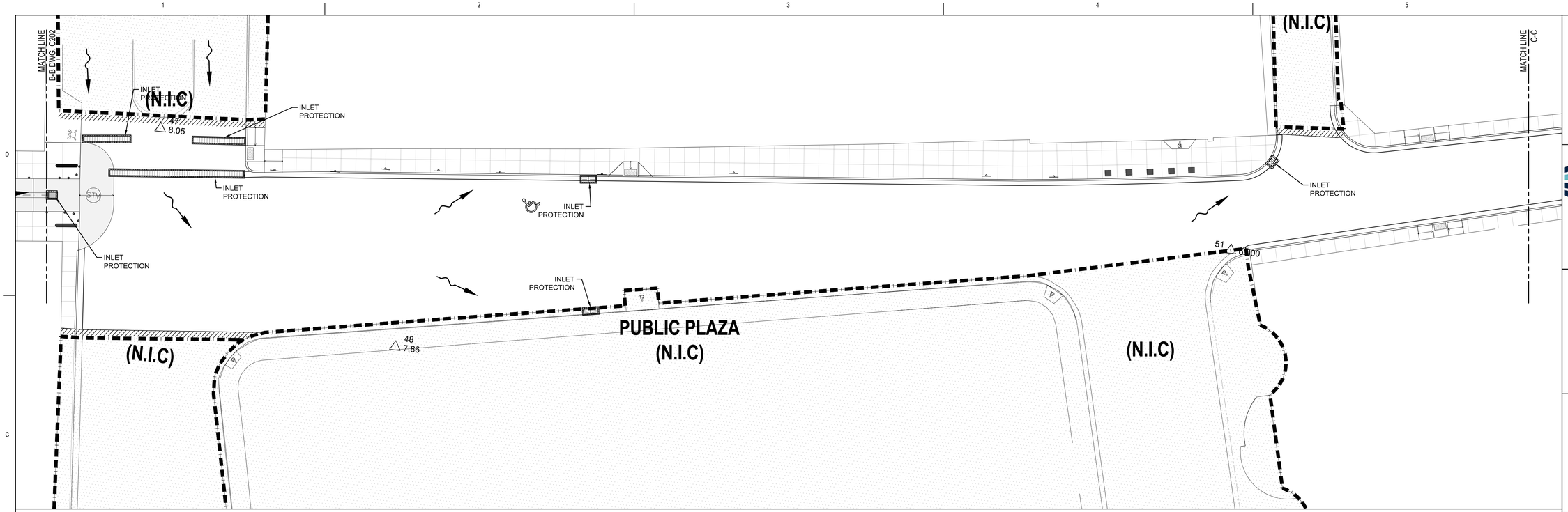
SHEET TITLE

EROSION AND SEDIMENTATION CONTROL PLAN AVE. JOSE DE DIEGO

SHEET ID

C483

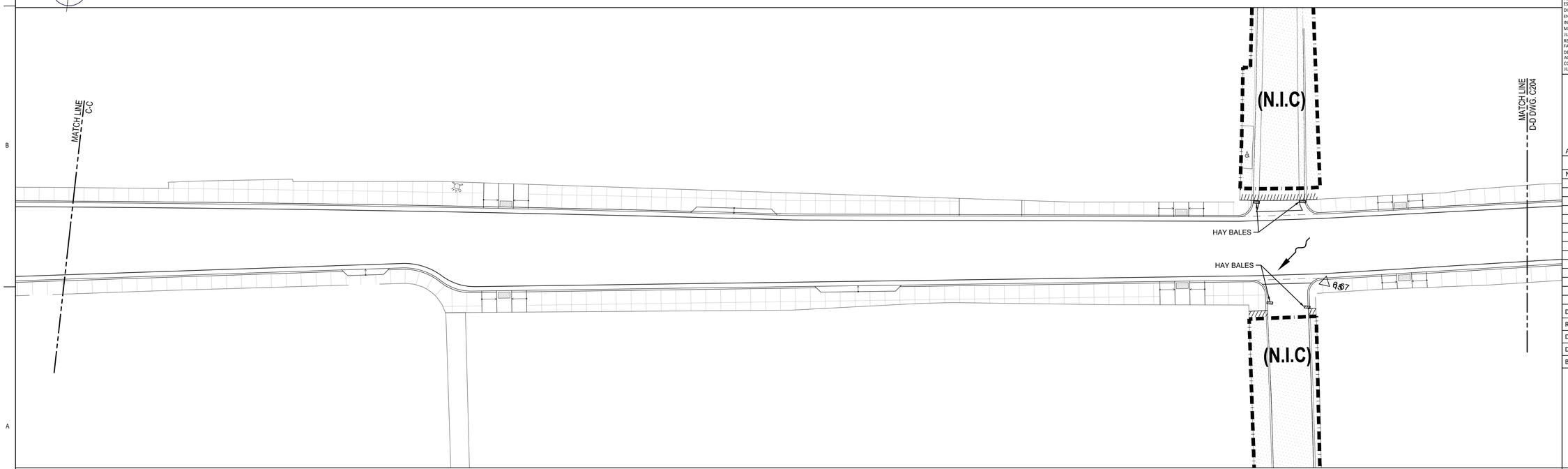
9/13/2024 12:44:26 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C483-4-5.dwg



N

EROSION AND SEDIMENTATION PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUES). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

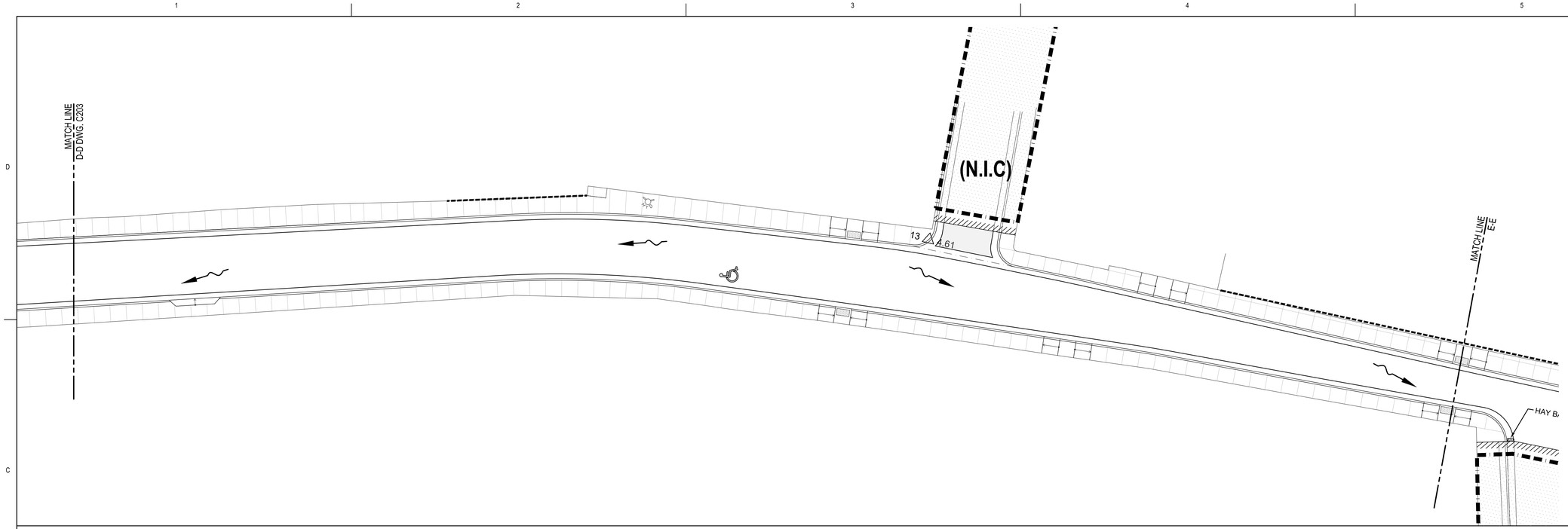
SHEET TITLE

EROSION AND SEDIMENTATION CONTROL PLAN AVE. JOSE DE DIEGO

SHEET ID

C484

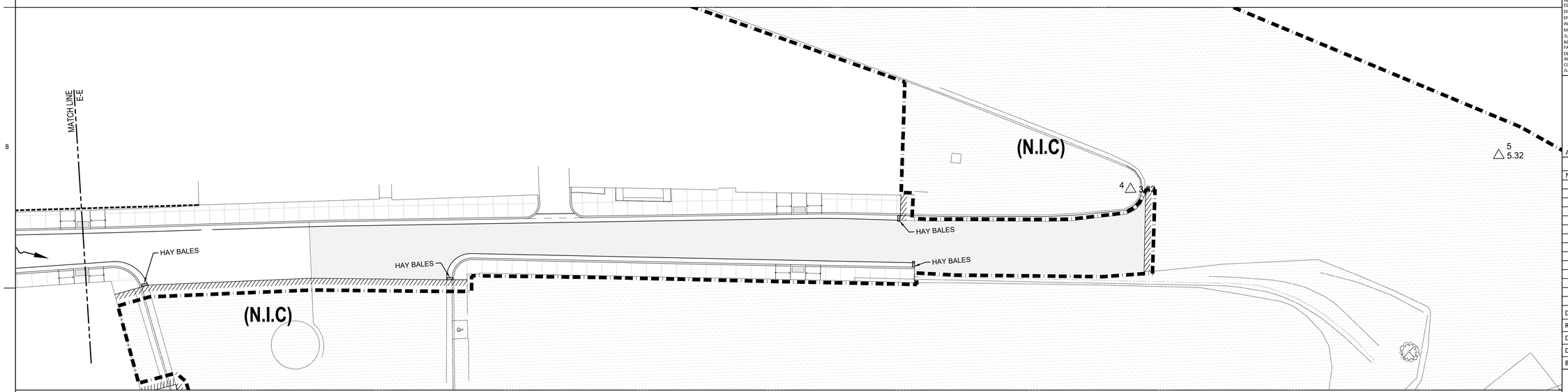
9/13/2024 12:44:30 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C483-4-5.dwg



N

EROSION AND SEDIMENTATION PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

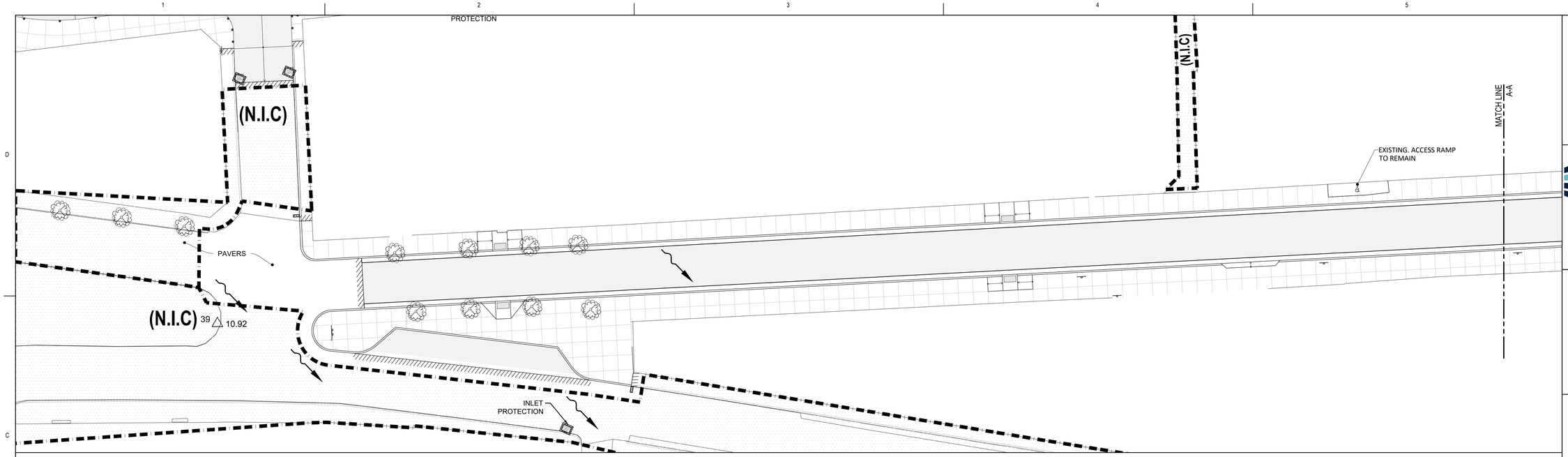
SHEET TITLE

EROSION AND SEDIMENTATION CONTROL PLAN AVE. JOSE DE DIEGO

SHEET ID

C485

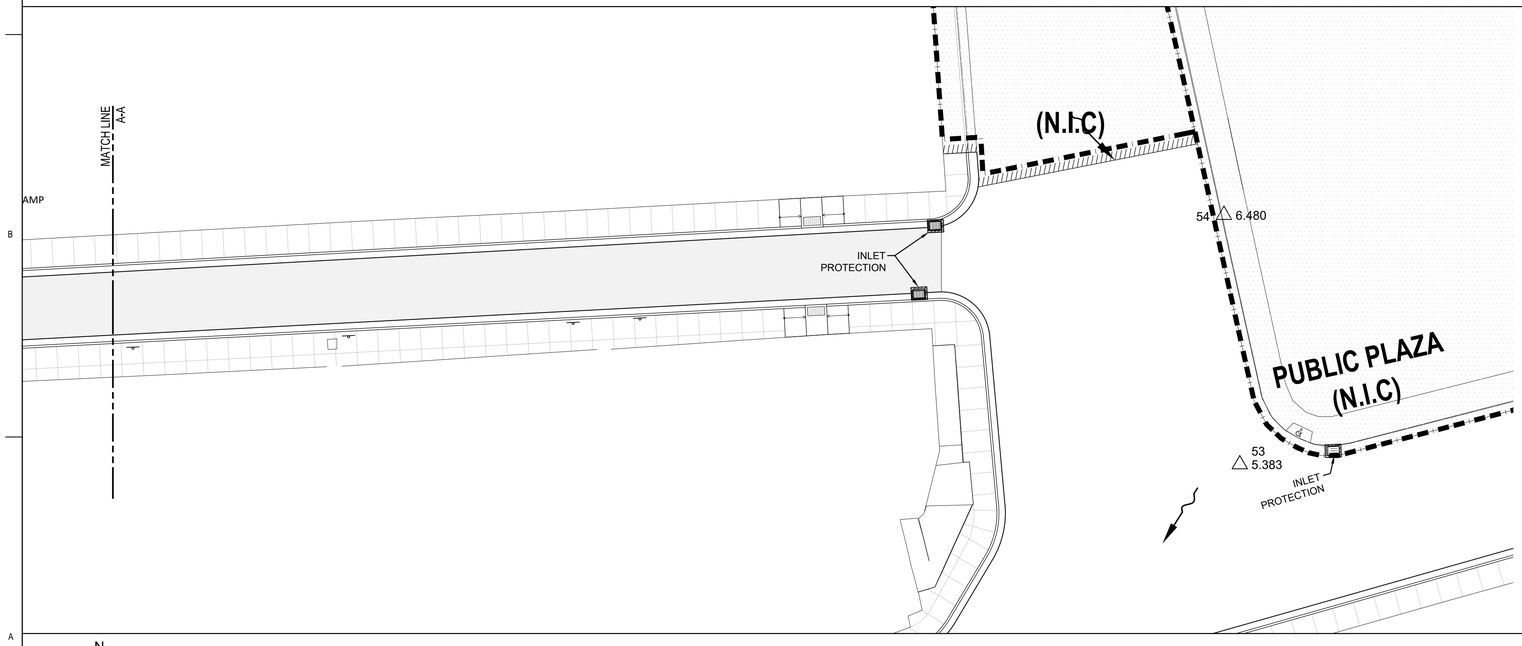
9/13/2024 12:44:33 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C483-4-5.dwg



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	23014

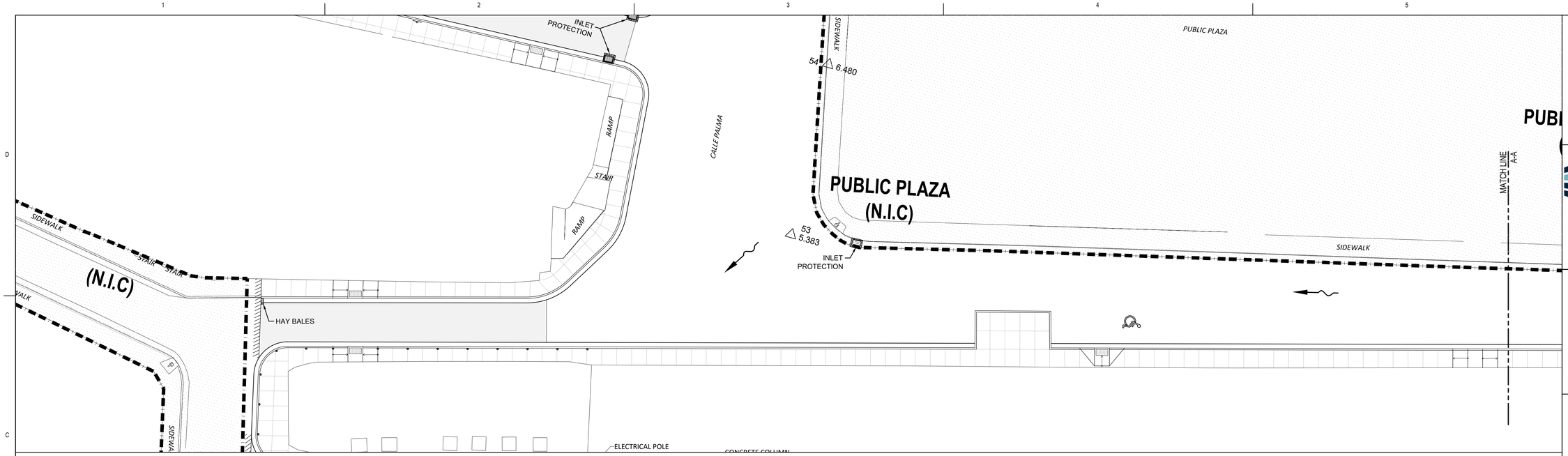
SHEET TITLE

LAYOUT PLAN
CALLE RAMON E.
BETANCES

SHEET ID

C486

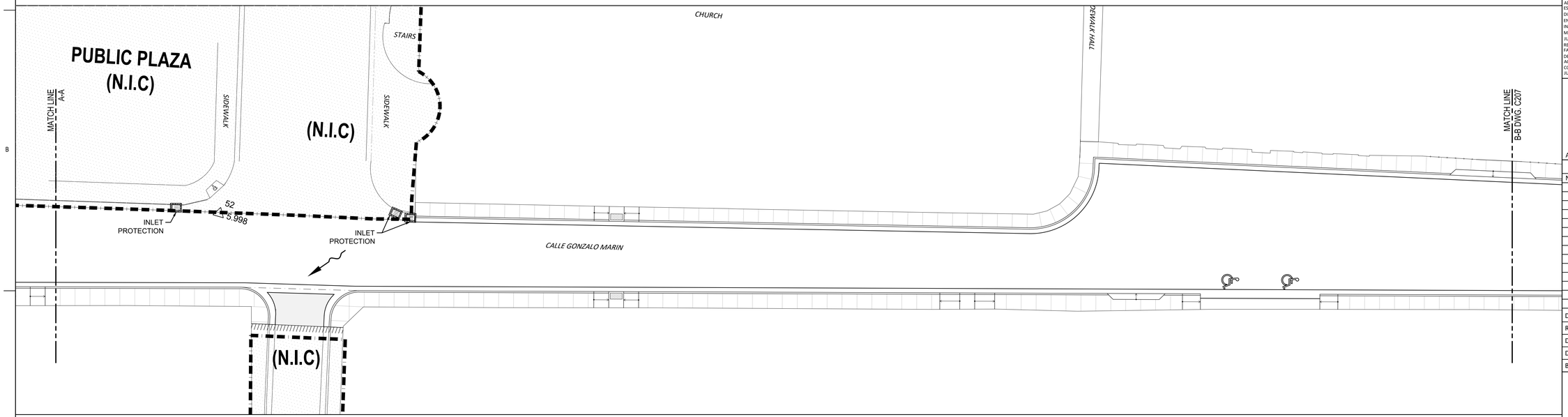
9/13/2024 12:44:42 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C486.dwg



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

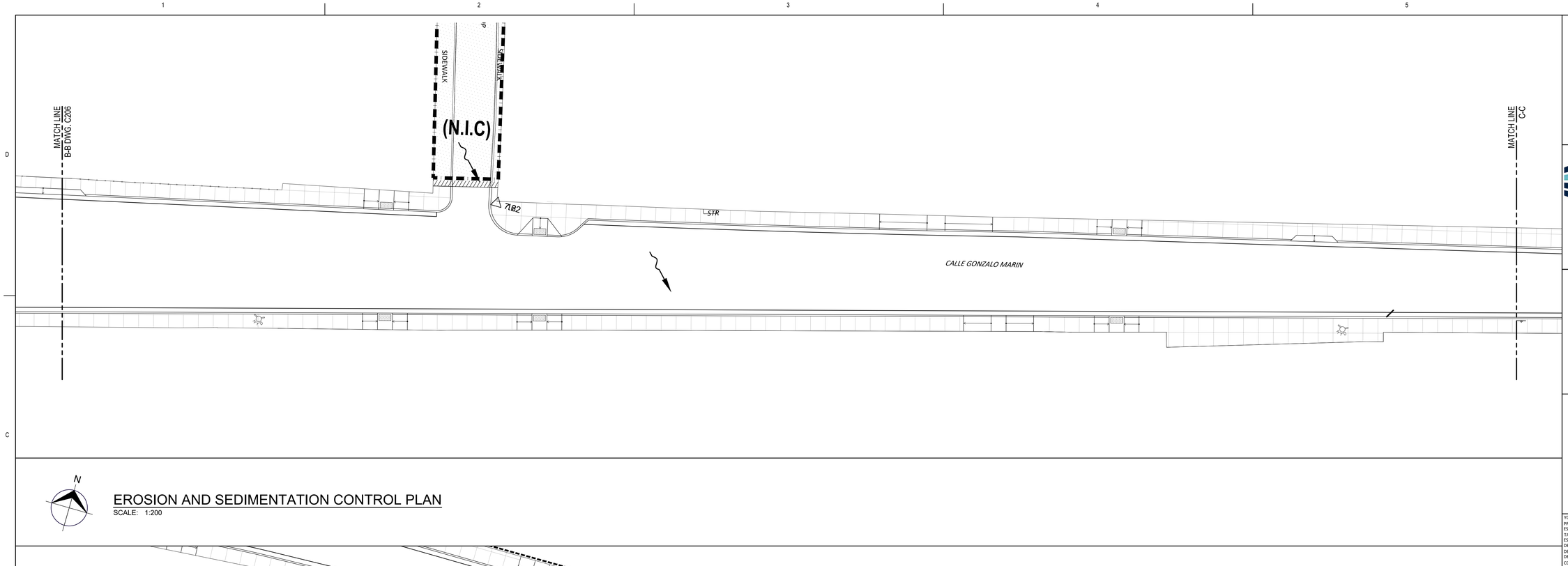
SHEET TITLE

LAYOUT PLAN
CALLE GONZALO MARIN

SHEET ID

C487

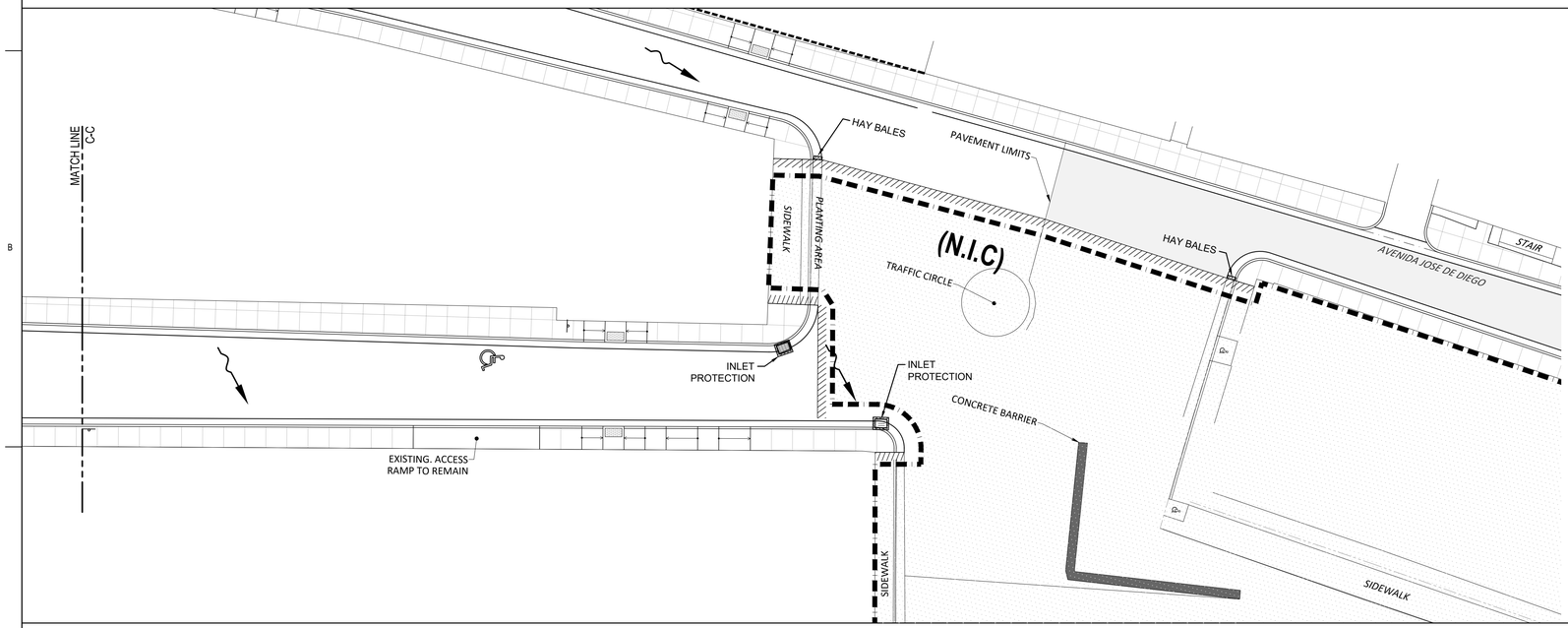
9/13/2024 12:44:51 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejoraCalles\07-Project Design\01-Civil\C487-8.dwg



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

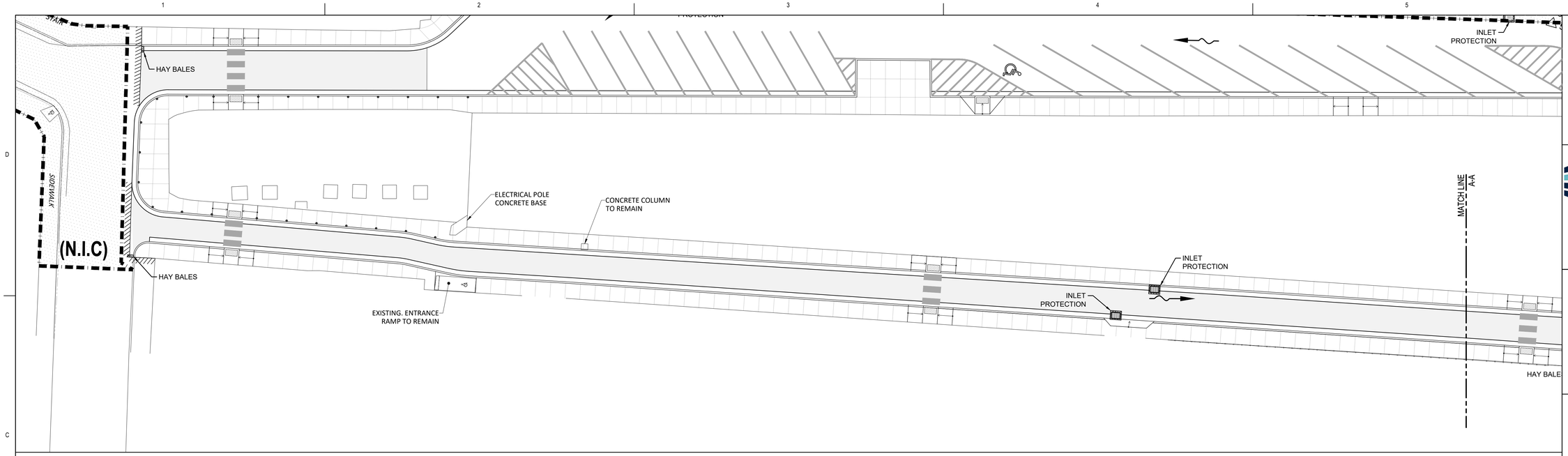
SHEET TITLE

LAYOUT PLAN
CALLE GONZALO
MARIN

SHEET ID

C488

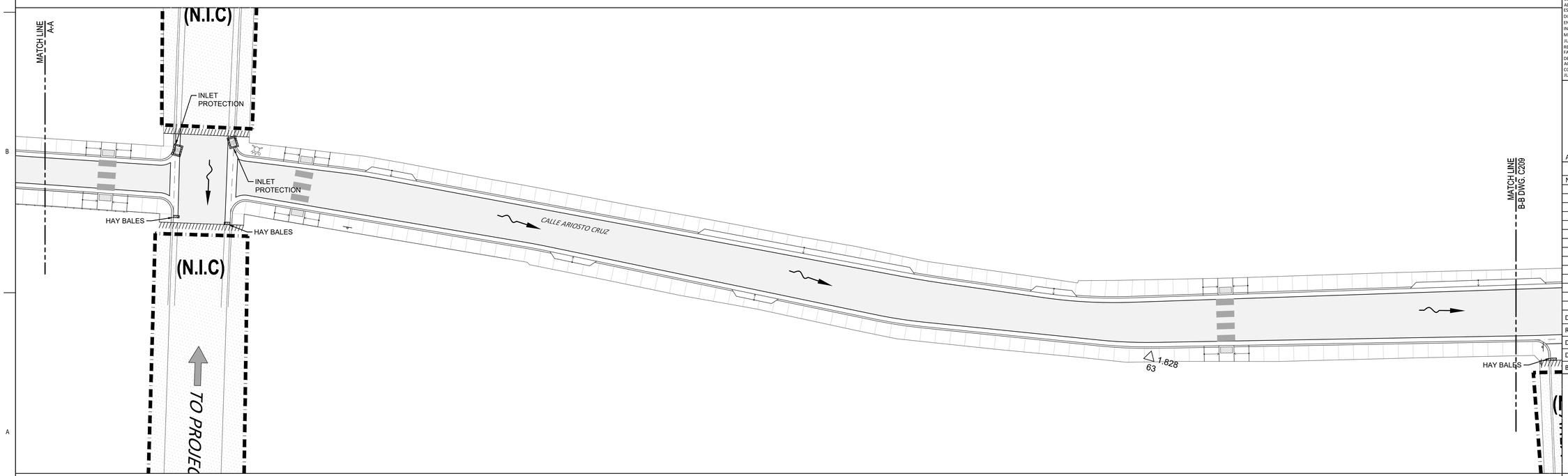
9/13/2024 12:44:54 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C487-8.dwg



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200



N

EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1:200

NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

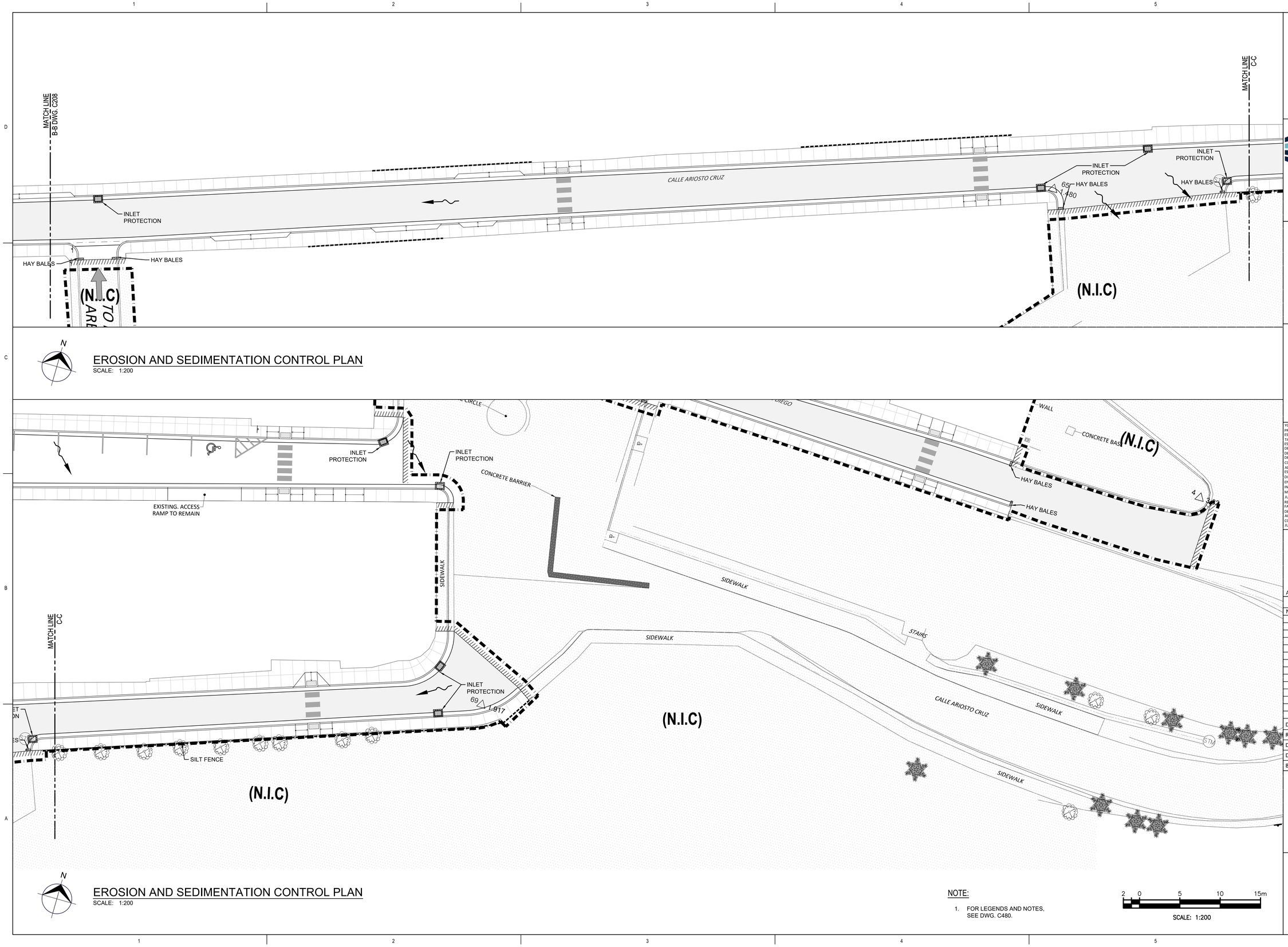
SHEET TITLE

LAYOUT PLAN
CALLE ARIOSTO
CRUZ

SHEET ID

C489

9/13/2024 12:46:04 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C489-490.dwg



NOTE:

1. FOR LEGENDS AND NOTES, SEE DWG. C480.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

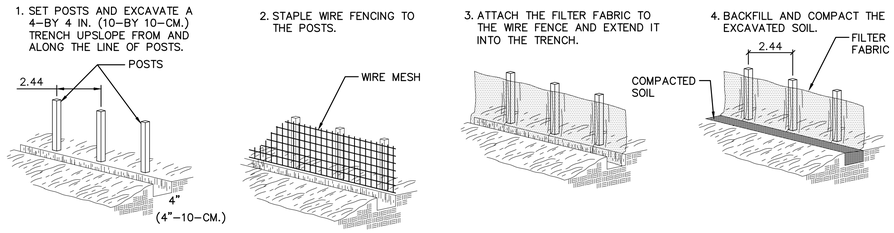
SHEET TITLE

LAYOUT PLAN
CALLE ARIOSTO CRUZ

SHEET ID

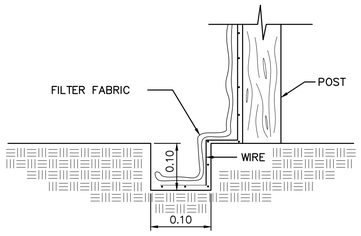
C490

9/13/2024 12:45:08 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C489-490.dwg



SILT FENCE INSTALLATION DETAILS

SCALE: NTS

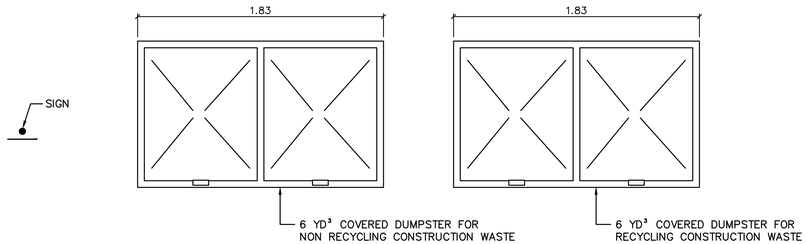


SILT FENCE CONSTRUCTION DETAILS

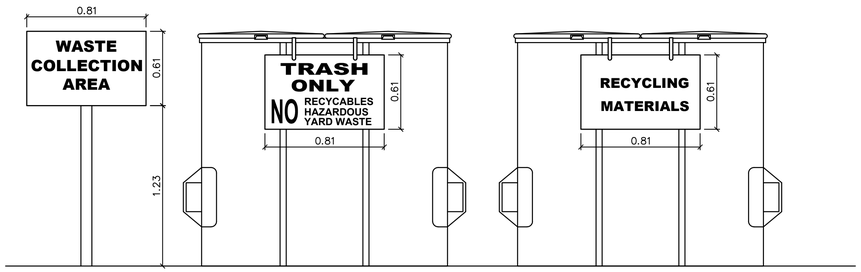
SCALE: NTS

CES PLAN NOTES

1. THE CONTRACTOR SHALL PROTECT ALL CATCH BASINS, SWALES AND CHANNELS NEAR THE PROJECT AREA THAT COULD BE POTENTIALLY IMPACTED, PRIOR TO START ANY EXCAVATION. ALL MEASURES CAN BE REMOVED WHEN THE LOCAL CONSTRUCTION BE COMPLETED.
2. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES IN THE PROJECT AREAS THAT COULD BE POTENTIALLY IMPACTED PRIOR TO START ANY CONSTRUCTION ACTIVITIES IN THAT AREA. THE CONTRACTOR COULD REMOVE THE CONTROL MEASURES WHEN THE AREA IS FULLY STABILIZED AS DETERMINED BY THE CES PLAN INSPECTOR.
3. CONTRACTOR SHALL INSPECT SEDIMENT BARRIERS AFTER EACH RAIN EVENT.REPAIRS SHALL BE DONE AS SOON AS POSSIBLE.SEDIMENT SHALL BE REMOVED FROM THE BARRIERS WHEN THEY REACH HALF THE HEIGHT OF THE BARRIER.
4. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE STABILIZED CONSTRUCTION ENTRANCE AS DETAILED ON THIS PLAN.
5. THE CONTRACTOR SHALL MAINTAIN A WATER TANK TRUCK TO SPRAY IT AROUND THE WORKING AREAS WHEN NEEDED OR WHEN THE PROJECT INSPECTOR REQUIRES IT. A WATER HOSE WILL BE INSTALLED NEAR STABILIZED CONSTRUCTION ENTRANCE TO WASH THE CONSTRUCTION VEHICLES WHEELS.
6. THE CONTRACTOR SHALL STRICTLY FOLLOW THE GUIDELINES STATED AT THE CES PLAN APPROVED BY THE ENVIRONMENTAL QUALITY BOARD.
7. THE CONTRACTOR SHALL DISPOSE ALL WASTE MATERIALS AT AN APPROVED LANDFILL.
8. THE CONTRACTOR SHALL RESTORE PAVED AREAS AND RE–SEED GRASS AREAS AS SOON AS POSSIBLE OR AS INSTRUCTED BY THE PROJECT INSPECTOR.
9. ANY MODIFICATION PROPOSAL TO THE CES PLAN SHALL BE CONSULTED WITH THE DESIGNER IN ORDER TO AMEND THE APPROVED PLAN.
10. A SIGN SHALL BE INSTALLED AT EACH PROJECT ENTRANCE AS PER CONSOLIDATED GENERAL PERMIT CONDITION NUMBER 2.
11. CONTRACTOR CAN CHOOSE TO INSTALL DIFFERENT METHODS TO ACHIEVE THE REQUIRED PERFORMANCE.



PLAN VIEW



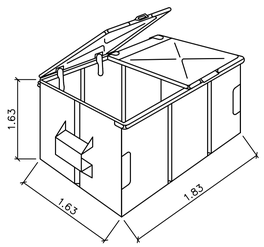
TRASH ONLY DUMPSTER SIGN SPECS

- 5/8" PAINTED BOARD
- 6" METAL HANGER
- RED LETTERS

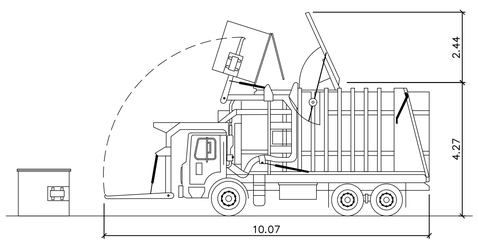
RECYCLING MATERIALS

- 5/8" PAINTED BOARD
- 6" METAL HANGER
- RED LETTERS

FRONT VIEW



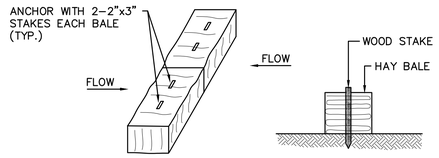
DETAIL "A"



DETAIL "B"

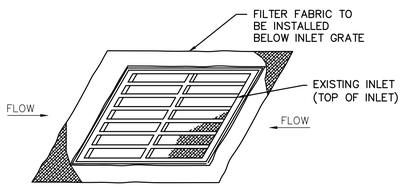
DUMPSTER AND RECYCLING AREA DETAILS

SCALE: NTS



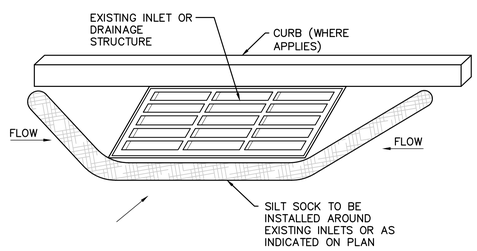
HAY BALE INSTALLATION DETAILS

SCALE: NTS



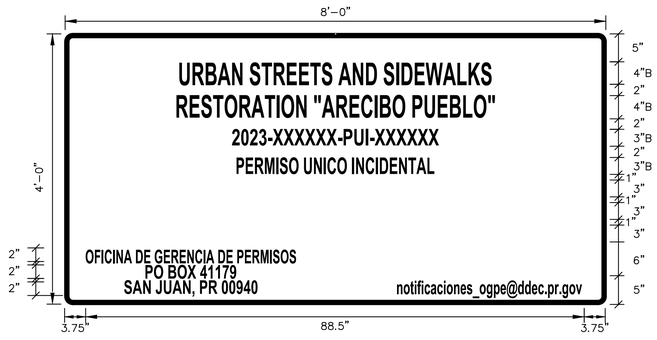
INLET PROTECTION DETAIL

SCALE: NTS



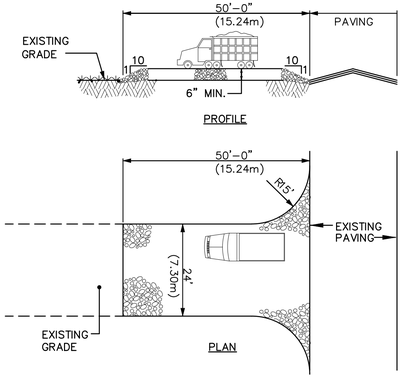
SILT SOCK ON INLET DETAIL

SCALE: NTS



PROJECT SIGN DETAIL

SCALE: NTS



NOTES:

1. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND EXIST. PAVEMENT.
2. STONE SIZE: USE AASHTO M–43 SIZE No. 2 STONE.

STABILIZED CONSTRUCTION ENTRANCE

SCALE: NTS

OWNER
Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT
BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	03/30/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

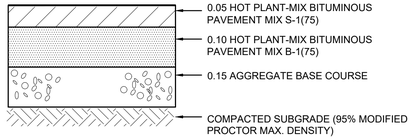
SHEET TITLE

EROSION AND SEDIMENTATION CONTROL DETAILS

SHEET ID

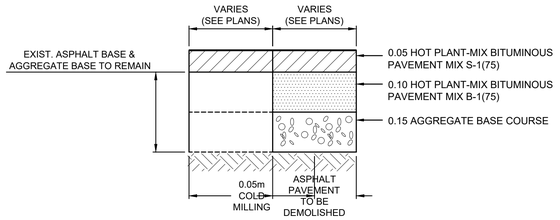
C491

9/13/2024 12:45:17 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C491.dwg



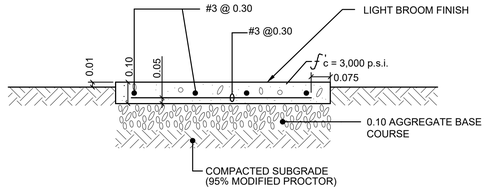
NEW ASPHALT PAVEMENT FOR ROADWAY DETAIL

SCALE: NTS

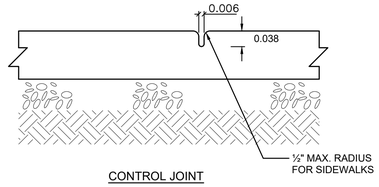


ASPHALT PAVEMENT RECONSTRUCTION DETAIL

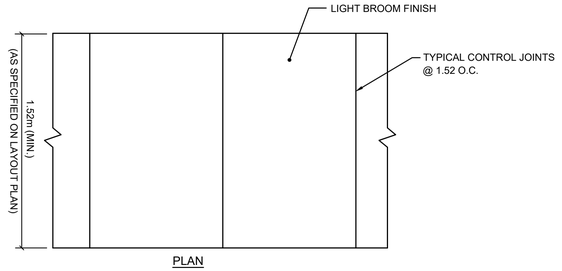
SCALE: NTS



SECTION



CONTROL JOINT



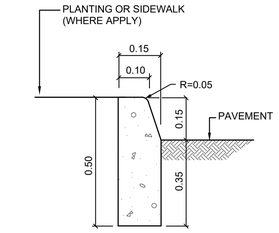
PLAN

NOTE:

1. WHERE SIDEWALK ABUTS EXISTING OR PROPOSED FIXED OBJECTS (CURBS, CURB AND GUTTERS, CONCRETE PAVING, MANHOLES, OR BUILDINGS), INSTALL 12.7MM EXPANSION JOINT FILLER AND JOINT SEALANT.

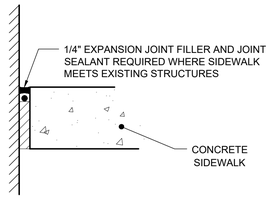
CONCRETE SIDEWALK DETAIL

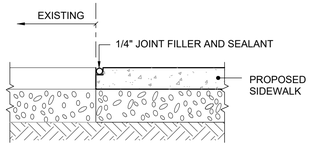
SCALE: NTS



CONCRETE CURB DETAIL

SCALE: NTS



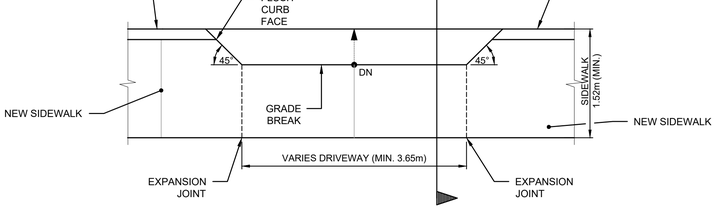


NOTE:

1. WHERE PROPOSED SIDEWALK ABUTS EXISTING SIDEWALKS INSTALL A 1/4" CONSTRUCTION JOINT WITH FILLER AND JOINT SEALANT.

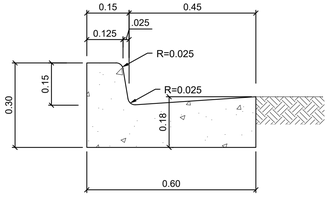
CONSTRUCTION JOINT TYPICAL DETAILS

SCALE: NTS



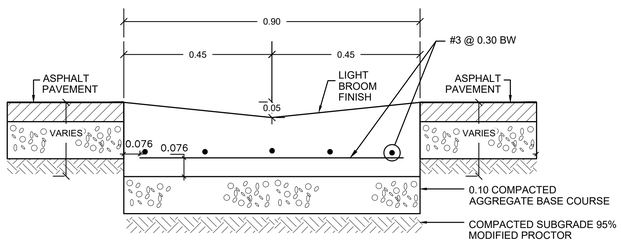
TYPICAL CURB CUT DRIVEWAY DETAIL 1

SCALE: N.T.S.



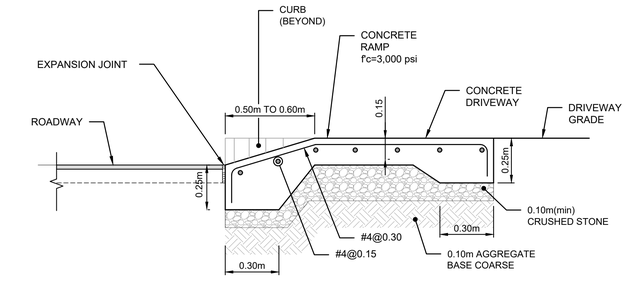
TYPICAL CURB AND GUTTER DETAIL

SCALE: NTS



CONCRETE GUTTER DETAILS

SCALE: NTS



* NOTE:
1. TYPICAL DETAIL FOR ALL DRIVEWAYS AND VEHICULAR ENTRANCES WITHIN THE PROJECT LIMIT, UNLESS OTHERWISE NOTED.

SECTION A

SCALE: NTS

C702

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

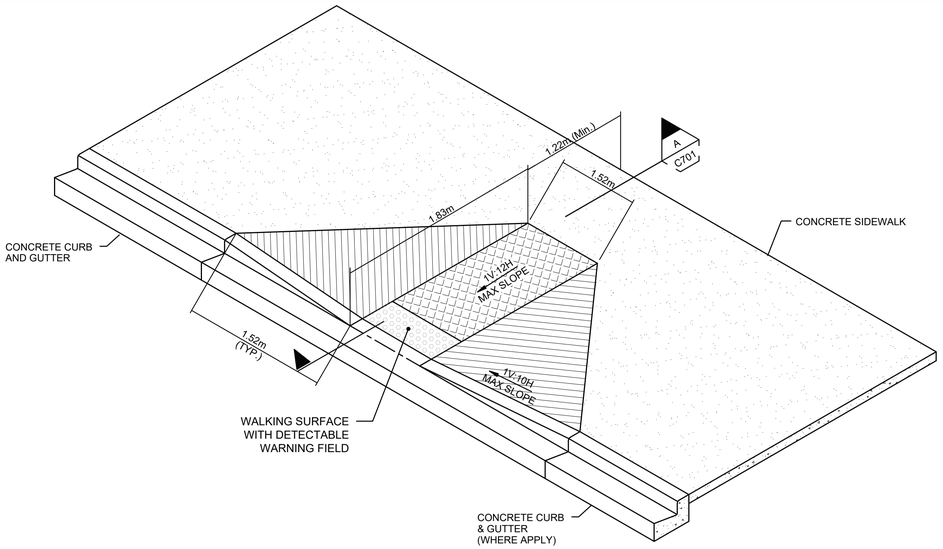
SHEET TITLE

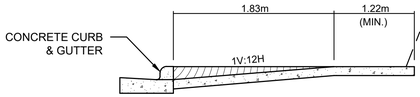
TYPICAL SECTIONS AND DETAILS

SHEET ID

C700

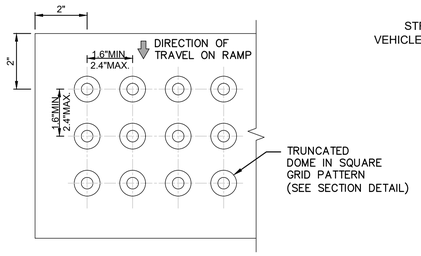
9/13/2024 12:45:24 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C700-01-02-03-04.dwg



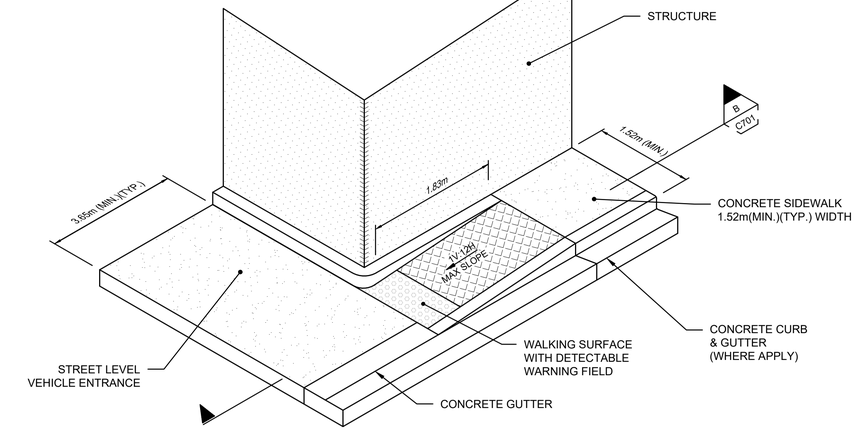


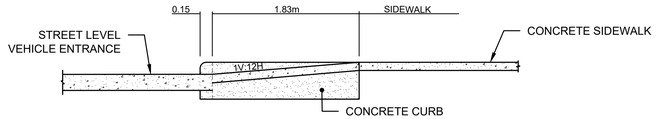
SECTION A C701
SCALE: NTS

HANDICAPPED RAMP DETAIL (TYPE 1)
SCALE: N.T.S.



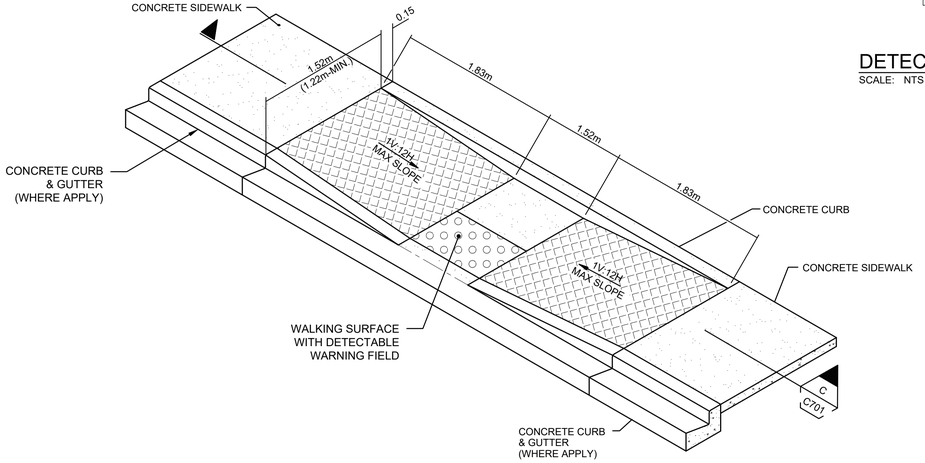
DETECTABLE WARNING FIELD DETAIL
SCALE: NTS

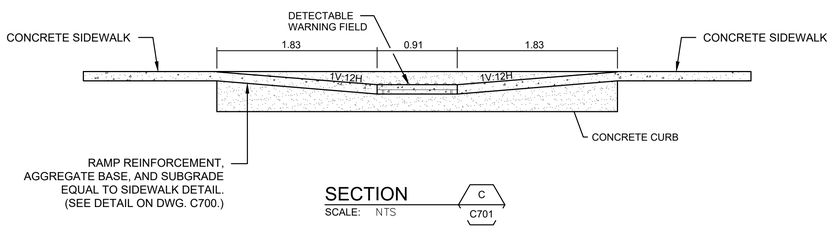




SECTION B C701
SCALE: NTS

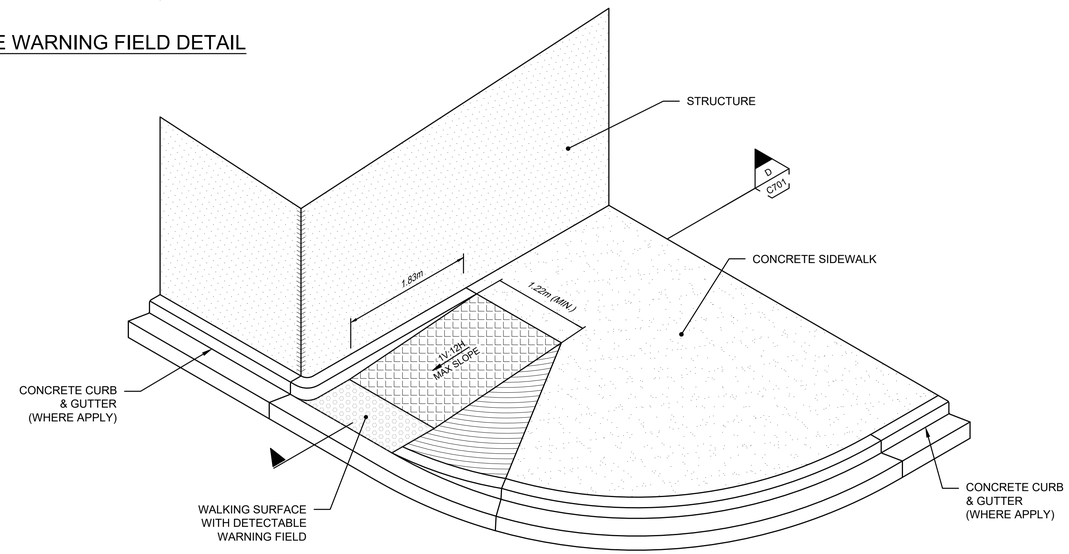
HANDICAPPED RAMP DETAIL (TYPE 2)
SCALE: N.T.S.

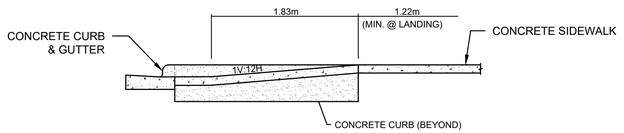




SECTION C C701
SCALE: NTS

HANDICAPPED RAMP DETAIL (TYPE 3)
SCALE: N.T.S.





SECTION D C701
SCALE: NTS

HANDICAPPED RAMP DETAIL (TYPE 4)
SCALE: N.T.S.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OSPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

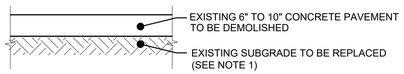
SHEET TITLE

TYPICAL SECTIONS
AND DETAILS

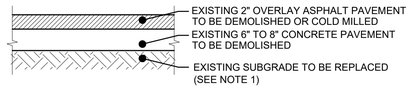
SHEET ID

C701

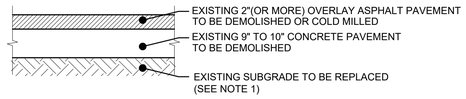
9/13/2024 12:45:24 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejoraCalles\07-Project Design\01-Civil\C700-01-02-03-04.dwg



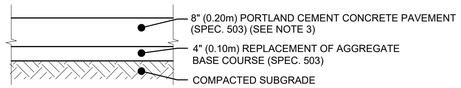
CASE 1-DEMOLITION DETAIL
SCALE: NTS



CASE 2-DEMOLITION DETAIL
SCALE: NTS



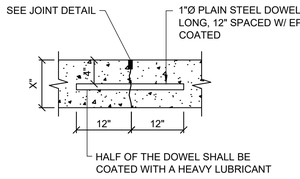
CASE 3-DEMOLITION DETAIL
SCALE: NTS



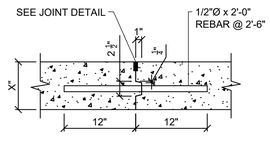
RECONSTRUCTION OF CONCRETE PAVEMENT DETAILS
SCALE: NTS

CONC. PAVEMENT DEMOLITION AND RECONSTRUCTION NOTES:

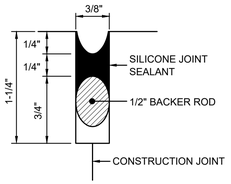
1. THE EXISTING SUBGRADE SHOULD BE REMOVED AND REPLACED WITH A NEW LAYER OF AGGREGATE BASE COURSE AS SHOWN ON DETAILS. THE SUBGRADE SHOULD BE REMOVED TO SUCH DEPTH THAT THE NEW PCC CONCRETE AND NEW AGGREGATE BASE COURSE MAINTAIN THE EXISTING FINISHED GRADE AND SLOPES OF THE EXISTING PAVEMENT.
2. THE GRADING OF NEW AGGREGATE BASE COURSES SHALL BE CLASS A ACCORDING TO SPEC. 703.
3. THE NEW PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE NORMAL SET CONCRETE (SPEC 503) EXCEPT THAT THE MINIMUM COMPRESSIVE STRENGTH AT 7 DAYS SHALL BE 3,000 PSI.
4. THE ENGINEER WILL DECIDE WHEN THE PAVEMENT WILL BE OPENED TO TRAFFIC. THE PAVEMENT WILL NOT BE OPENED TO TRAFFIC UNTIL TEST SPECIMENS HAVE ATTAINED A COMPRESSIVE STRENGTH OF 3,000 PSI, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.



TRANSVERSE CONTRACTION JOINT



LONGITUDINAL CONTRACTION JOINT



JOINT DETAIL
SCALE: NTS

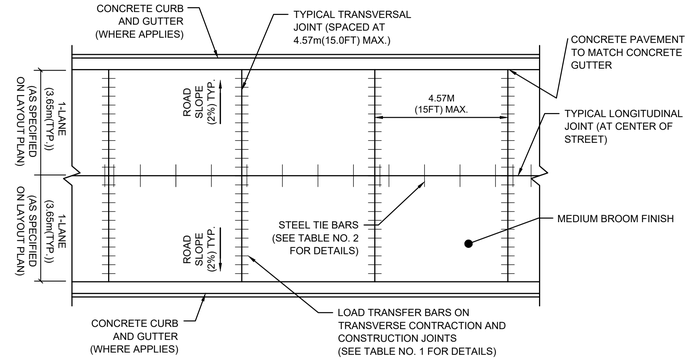
CONCRETE PAVEMENT JOINT DETAILS
SCALE: NTS

STEEL DOWEL (EPOXY COATED, PLAIN, OR DEFORMED) AND DEPTH OF JOIN SAW				
PAVEMENT THICKNESS (METERS)	DOWEL BAR DIAMETER (INCHES)	DOWEL LENGTH (METERS)	DOWEL SPACING (METERS)	DEPTH OF JOINT SAW CUT (METERS)
0.200	1-3/8"	0.450	0.305	0.07
0.250	1-1/2"	0.450	0.305	0.08
0.350	1-5/8"	0.450	0.305	0.10

TABLE NO. 1: STEEL DOWELS
SCALE: NTS

TIE BARS (EPOXY COATED, DEFORMED)						
TYPE AND GRADE OF STEEL	WORKING STRESS (PSI)	EXISTING PAVEMENT THICKNESS	NO. 5 BARS			
			MINIMUM OVERALL LENGTH (INCHES)	LANE WIDTH (METERS)		
				3.05	3.35	3.65
				MAXIMUM SPACING (INCHES)		
GRADE 60 BILLET STEEL	30,000	0.20	30	48	48	48
	30,000	0.25	30	48	48	48
	30,000	0.35	30	48	48	40

TABLE NO. 2: TIE BARS
SCALE: NTS

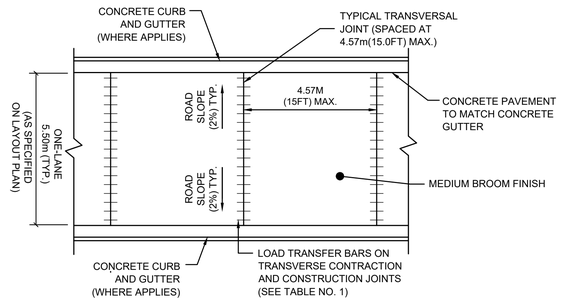


CONCRETE PAVEMENT REHABILITATION (TWO-LANES STREET)- PLAN
- FOR TWO OR MORE CONTINUOS SLABS TO BE REPLACED

SCALE: NTS

NOTES:

1. PROVIDE ROAD SLOPE PERCENT SIMILAR TO EXISTING TO MATCH EXISTING GRADE.
2. LOAD TRANSFER BARS PLACED ALONG THE TRANSVERSAL JOINTS BETWEEN EXISTING SLABS AND NEW SLABS SHALL BE PLAIN.
3. STEEL TIE BARS PLACED ALONG THE LONGITUDINAL JOINTS SHALL BE EPOXY COATED AND DEFORMED.
4. PLAIN DOWELS WILL BE LUBRICATED WITH OIL. GREASE WILL NOT BE ALLOWED.
5. DOWEL INSTALLATION IS SUBSIDIARY OF SPEC. 503



CONCRETE PAVEMENT REHABILITATION (ONE-LANE STREET)- PLAN
- FOR TWO OR MORE CONTINUOS SLABS TO BE REPLACED

SCALE: NTS

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT + ENGINEERING + DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

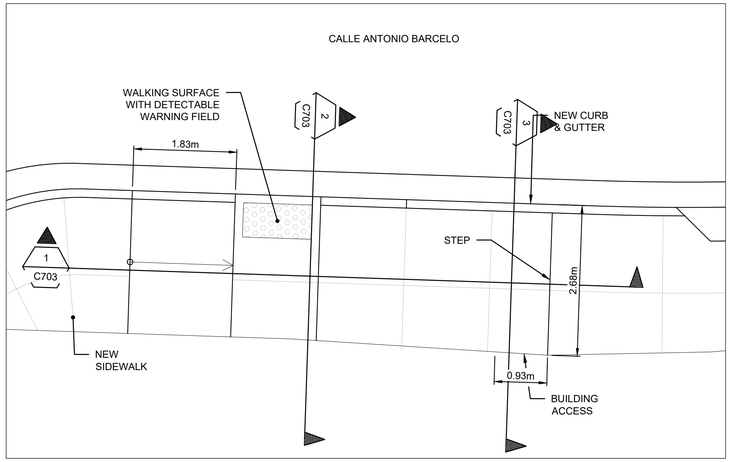
SHEET TITLE

TYPICAL SECTIONS AND DETAILS

SHEET ID

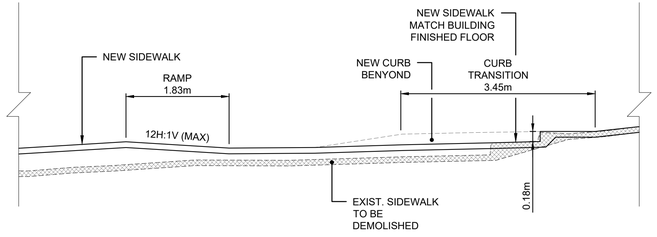
C702

9/13/2024 12:45:25 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C700-01-02-03-04.dwg



DETAIL No. 1

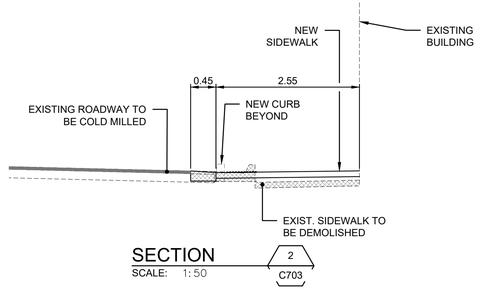
SCALE: 1:50



SECTION

SCALE: 1:50

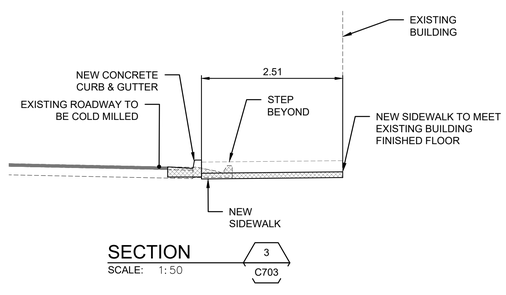
1 C703



SECTION

SCALE: 1:50

2 C703



SECTION

SCALE: 1:50

3 C703

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT + ENGINEERING + DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

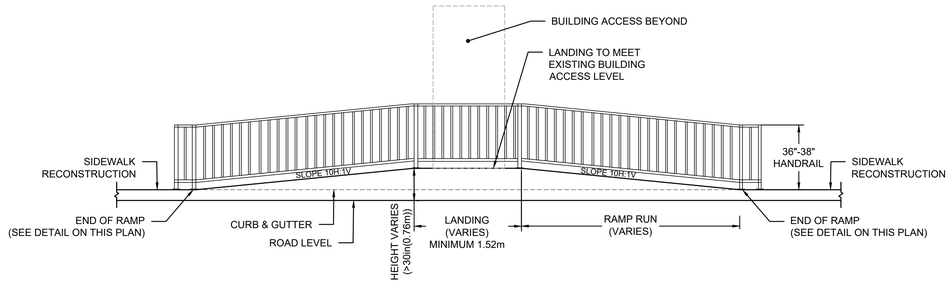
SHEET TITLE

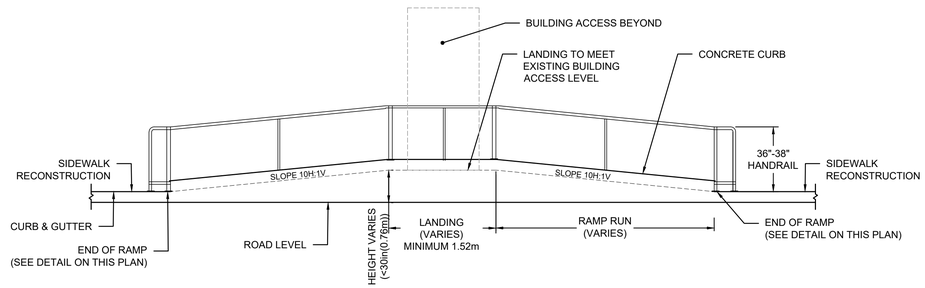
TYPICAL SECTIONS AND DETAILS

SHEET ID

C703

9/13/2024 12:45:27 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Asociates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C700-01-02-03-04.dwg





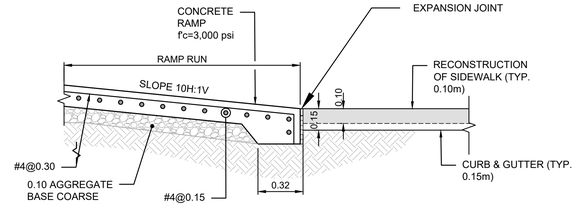
NOTE:
1. GENERAL CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO FABRICATE AND INSTALLATION

RAMP RUN DISTANCES FOR 10H:1V SLOPE	
VERTICAL CHANGE (m)	RAMP RUN LENGTH (m)
0.1016	1.016
0.1270	1.270
0.1524	1.524
0.1778	1.778
0.2032	2.032
0.2286	2.286
0.2540	2.540
0.2794	2.794
0.3048	3.048

HANDRAIL SECTION FOR UNEVEN BUILDING ACCESS SEGMENTS

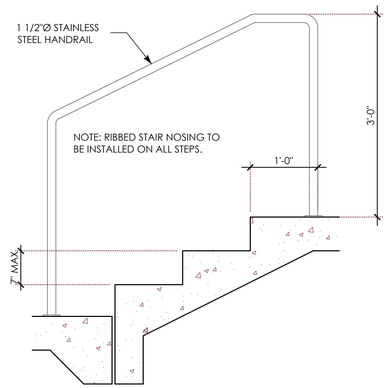
SCALE: NTS

(REFER TO DWG. C200 - C209 FOR LOCATION)

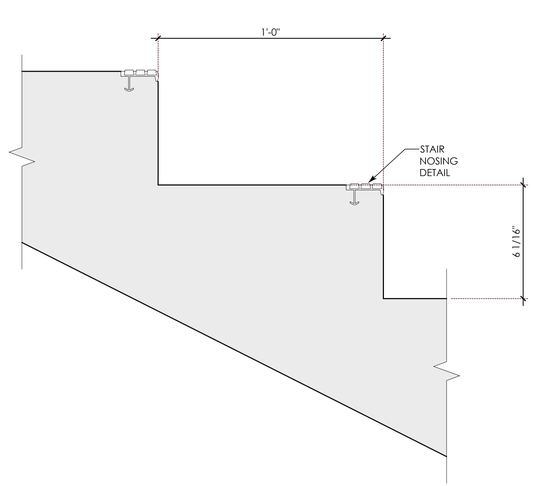


END OF RAMP DETAIL

SCALE: NTS

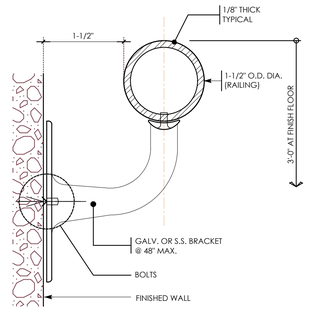


RAILING INSTALLATION DETAIL

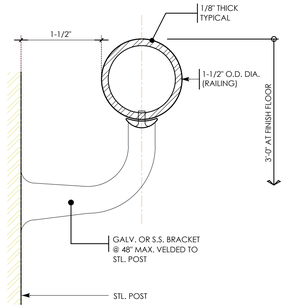


STEPS DETAIL

SCALE: N.T.S.



ATTACHED TO CONC. OR CMU WALL

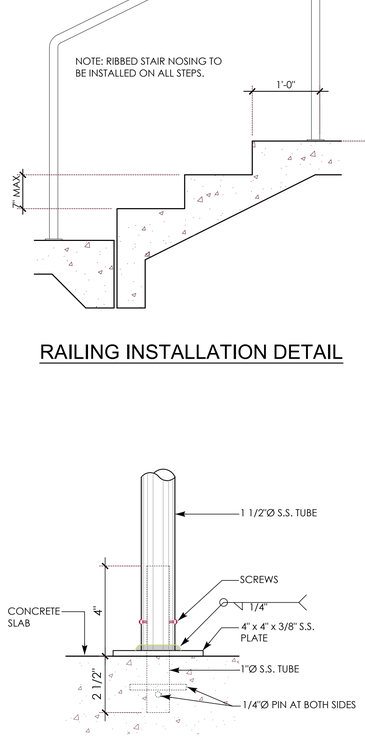


ATTACHED TO STEEL POST

NOTES :
1. DETAILS WHEN APPLICABLE.
2. STAINLESS STEEL (S.S.) AT STAIR AND RAMPS

HANDRAIL SUPPORT BRACKET

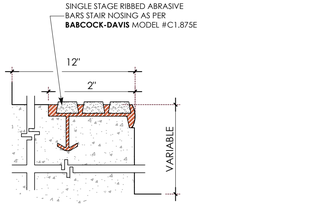
SCALE: N.T.S.

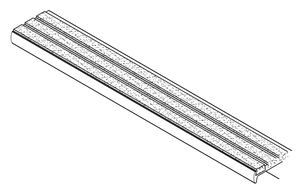


RAILING BASE DETAIL

NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS AS THEY MAY AFFECT CARRYING OUT THE WORK AS OF THE PROJECT, AND NOTIFY THE ARCHITECT OF ANY CONDITIONS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, AND SERVICES NECESSARY TO COMPLETE THE WORK.
3. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE BUILDING CODES AS NOTES ON CODE SHEETS.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITY LINES. LOCATIONS SHOWN ARE APPROXIMATE. REPAIR ALL DAMAGE TO UTILITY LINES CAUSED BY CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
5. PROVIDE SEALANT ALL JOINTS OR CRACKS THAT OCCUR WHERE DISSIMILAR MATERIALS INTERSECT PERPENDICULAR TO EACH OTHER, AND THE INTERSECTION IS EXPOSED TO VIEW, UNLESS INDICATED
6. ALL PENETRATIONS AT SMOKE AND FIRE RATED WALLS, FLOORS, OR CEILINGS, SHALL BE PROTECTED, SEALED OR DAMPERED USING ONLY UL. AND/OR I.C.B.O. APPROVED METHODS, MATERIALS, AND
7. THE CONTRACTOR IS RESPONSIBLE FOR THE REVIEW OF DIMENSIONS OF CONSTRUCTION DRAWINGS. ANY ERROR IDENTIFIED SHALL BE THE CONTRACTOR'S IMPERATIVE TO CORRECT PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL WATER PRESSURE CLEAN THE ROOF CONCRETE SLAB AND INSTALL LOW GLOSS SILICONE ROOF COATING, AS PER MANUFACTURERS INSTRUCTIONS.





STAIR NOSING DETAIL

SCALE: N.T.S.

OWNER
Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT
BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	07/10/23
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	MVMM
BRA PROJECT NUMBER:	23014

SHEET TITLE

TYPICAL SECTIONS AND DETAILS

SHEET ID

C704

9/13/2024 3:04:49 PM C:\Users\Luz M. Rodriguez\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\C700-01-02-03-04.dwg

GENERAL NOTES:

1. NO WORK OTHER THAN MOBILIZATION, TRAFFIC CONTROL AND PROJECT OFFICE, SHALL BE PERFORMED UNTIL THE PROGRESS SCHEDULE IS APPROVED BY THE ENGINEER.

2. ALL TEMPORARY CONTROL DEVICES SHALL COMPLY WITH THE SUPPLEMENTAL SPECIFICATION NUMBER 638-"MAINTENANCE AND PROTECTION OF TRAFFIC" OF THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2005 EDITION, AND WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES "MUTCD" 2009 (LATEST REVISED).

3. EQUIPMENT, MATERIALS AND OTHER DEVICES USED FOR CONSTRUCTION SHALL BE REMOVED FROM THE ROADWAY AFTER WORK HOURS AND SHALL BE STAGED A MINIMUM OF 10 METERS FROM THE TRAVEL WAY.

4. THE DRUM SPACING SHALL BE 2.50METERS. AN ALTERNATIVE FOR DRUMS IN NARROW STREET SEGMENTS, CONTRACTOR CAN USE ORANGE CONES, 28-IN HEIGHT MINIMUM AS PER MUTCD 2009, SECTION 6F-64.

5. ANY ALTERATION TO THE SCHEDULE THAT MAY IMPROVE TRAFFIC OPERATIONS WITHIN THE CONSTRUCTION AREA, IN ACCORDANCE WITH THE CURRENT MUTCD (2009) AND WITH NO ADDITIONAL COST TO THE AUTHORITY, SHALL BE SUBMITTED TO THE ENGINEER AT LEAST TWENTY ONE(21) CALENDAR DAYS IN ADVANCE TO THE PROPOSED DATE OF IMPLEMENTATION FOR REVIEW. IF THE PROPOSED ALTERATION IS APPROVED IT SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER.

6. THE CONTRACTOR CAN PERFORM, WITH THE APPROVAL OF THE ENGINEER, SEVERAL SIMULTANEOUS ACTIVITIES WITHIN A STAGE, AND AS PERMITTED BY THE CONTRACT PROPOSAL QUANTITIES ON THE TRAFFIC CONTROL ITEMS.

7. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER THE INSTALLATION OF TEMPORARY TRAFFIC CONTROL DEVICES FOR EACH PHASE AT LEAST FOURTEEN (14) CALENDAR DAYS IN ADVANCE FOR THE RELEASE OF PUBLIC NOTICE. THE CONTRACTOR SHALL NOT COMMENCE ANY OF THE CONSTRUCTION PHASES WITHOUT A PUBLIC NOTICE IS ISSUED OR WITHOUT DIRECT CONSENT FROM THE ENGINEER.

8. THE CONSTRUCTION SIGNS INSTALLATION SHOULD BE IN ACCORDANCE TO THE TEMPORARY TRAFFIC SIGNS MOUNTING DETAILS, SHEET NO. MPT-23 OF THE PRHTA STANDARD DRAWING REV. JUNE 2012.

9. THE CONTRACTOR SHALL FURNISH TEMPORARY TRAFFIC CONTROL DEVICES THAT MEET THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM REPORT (NCHRP) 350 CRITERIA FOR THE APPLICABLE CRASH WORTHINESS STANDARD.

10. ALL TRAFFIC CONTROL SIGNS DETERMINED BY THE ENGINEER TO BE UNNECESSARY FOR THE APPLICABLE CONSTRUCTION OPERATION SHALL BE IMMEDIATELY COVERED IN ITS ENTIRETY WITH NON ABRASIVE MATERIAL AND SHALL BE INSPECTED DURING DAY AND NIGHT TIME TO ENSURE THAT THE SIGN IS NOT READABLE. THIS WORK IS A SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.

11. DURING THE CONSTRUCTION OPERATIONS, THE CONTRATOR SHALL TAKE ALL THE NECESSARY PRECAUTIONS AND MEASURES TO AVOID FALLING DEBRIS, TOOLS, EQUIPMENT OR ANY OTHER MATERIALS INTERFERE OR IMPACT THE MOTORING PUBLIC IN THE ROADWAY. ALL THE MATERIALS, LABOR EQUIPMENT, AND WORK NECESSARY FOR IMPLEMENTING THIS REQUIREMENT IS SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.

12. THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO ADJACENT PROPERTIES DURING CONSTRUCTION. THIS WORK WILL REQUIRE COORDINATION WITH BUSINESSES AND PRIVATE OWNERS. ALL THE MATERIALS, LABOR, EQUIPMENT, AND WORK NECESSARY FOR IMPLEMENTING THIS REQUIREMENT IS SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.

13. NO EXCAVATION AND/OR PAVEMENT DROP-OFF SHALL REMAIN OPEN WITHIN THE TRAVELED WAY WHEN THE CONTRACTOR OR ITS PERSONNEL IS NOT WORKING AND PHYSICALLY PRESENT AT THE WORK SITE.

14. IN CASE THAT THE WORKS AFFECTED THE EXISTING LUMINARY THE CONRACTOR SHALL PROVIDE ADEQUATE ILLUMINATION IN THE AFFECTED AREA BUT THE GLARE OF THE SAME NO AFFECT THE VISIBILITY OF THE DRIVERS.

15. THE CONTRACTOR SHALL RETURN ALL AREAS DISTURBED BY TEMPORARY DETOURS TO THEIR ORIGINAL STATE.

15. RELOCATE ALL UTILITIES PRIOR TO THE PERFORMANCE OF ANY CONSTRUCTION PHASE. THIS ACTIVITY SHALL BE CLOSELY COORDINATED WITH THE CORRESPONDING UTILITY AGENCIES AND DTOP REGIONAL OFFICE SO AS TO PERMIT THE CONSTRUCTION AS SCHEDULED.

16. ALL TRENCH EXCAVATIONS MUST BE BACKFILLED THE SAME DAY BY THE END OF THE WORKSHIFT. IF NOT, THE TRENCH SHALL BE COVERED WITH A SUITABLE STEEL PLATE.

17. ALL TRAFFIC CONTROL DEVICES SHALL BE CLEANED, REPAINTED, REFLECTORIZED OR REPLACED AS NECESSARY TO PROVIDE ADEQUATE VISIBILITY AND LEGIBILITY AT ALL TIMES.

18. THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY IT DOES RESERVES THE RIGHT TO STOP THE WORKS AT ANY TIME IF THE CONTRACTOR DO NOT COMPLY WITH THE MAINTENANCE OF TRAFFIC AND THE SAFETY REGULATIONS.

CONSTRUCTION SCHEDULE

THE FOLLOWING CONSTRUCTION SCHEDULE AND SPECIAL INSTRUCTIONS SHALL BE FOLLOWED, IN ORDER TO MAINTAIN TRAFFIC FLOW WITH "THE LEAST POSSIBLE INTERFERENCE FROM CONSTRUCTION OPERATIONS".

TYPICAL APPLICATIONS ARE SUBMITTED FOR THE TEMPORARY TRAFFIC CONTROL ACTIVITIES FOR A VARIETY OF SITUATIONS COMMONLY ENCOUNTERED. IT IS REQUIRED FROM THE ENGINEER TO ADJUST THESE GUIDELINES TO FIELD CONDITIONS.

SPECIFIC SITUATIONS NOT COVERED BY THESE APPLICATIONS SHALL BE BROUGHT UP TO THE ENGINEER FOR APPROPIATE DIRECTION AND CLARIFICATION 10 DAYS BEFORE THE BEGINNING OF THE CONSTRUCTION WORK IN THAT AREA.

CONSTRUCTION:

1. IMPLEMENT THE WORK ZONE TEMPORARY TRAFFIC CONTROL IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC INDICATED ON THE PLANS

2. THE DETAILS SHOWN SHALL BE USED IN BOTH DIRECTIONS.

TRAFFIC:

1. THE TRAFFIC WILL BE FLOWING AS INDICATED ON THE MAINTENANCE OF TRAFFIC USED FOR THE CONSTRUCTION AREA.

2. ALL WORK TO BE PERFORMED SHALL BE COORDINATED WITH THE TRAFFIC ENGINEERING OFFICE PERSONNEL.

3. NO WORK SHALL BE ALLOWED DURING PEAK HOURS. THE PEAK HOURS ARE DEFINED AS 6:00 AM - 9:00 AM AND 3:00 PM - 6:00 PM FROM MONDAY TO FRIDAY.

4. ALL ACTIVITIES PROPOSED FOR THE PROJECT THAT AFFECT THE NORMAL FLOW OF TRAFFIC, SHALL BE COORDINATED WITH ALL PROJECTS THAT ARE WITHIN A COVERAGE RADIUS OF TWO MILES OF THE WAY SO THAT THEY DO NOT AFFECT EACH OTHER.

5. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER THE ACCESS POINTS FOR CONSTRUCTION VEHICLES. INSTALL SIGN W8-6 (TRUCK CROSSING - 36" X 36") TO ALERT ROAD USERS OF LOCATIONS WHERE UNEXPECTED TRAVEL BY CONSTRUCTION VEHICLES MIGHT OCCUR.

LEGEND:

- TRAFFIC SIGN LOCATION
- CODE NUMBER / LOCATION NUMBER
- PLASTIC DRUMS
- AREA UNDER CONSTRUCTION
- TRAFFIC FLOW
- FLAGGER

DISTANCE BETWEEN SIGNS

ROAD	A	B	C
PR-979	100FT (30m)	100FT (30m)	100FT (30m)
MUNICIPAL ROAD	100FT (30m)	100FT (30m)	100FT (30m)

DISTANCE FOR TEMPORARY TRAFFIC CONTROL ZONE (mts)

SPEED LIMIT	TAPER	BUFFER	TERMINATION AREA
25MPH	50FT (15m)	115FT (35m)	50FT (15m)

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	08/05/22
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	22010

SHEET TITLE

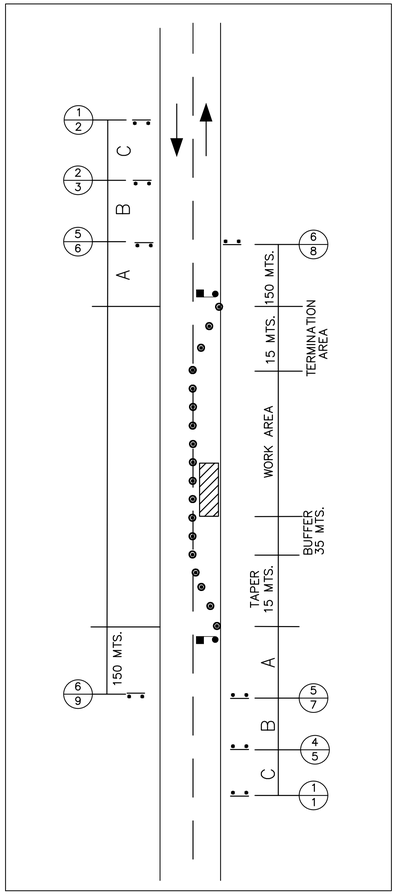
MAINTENANCE OF TRAFFIC GENERAL NOTES

SHEET ID

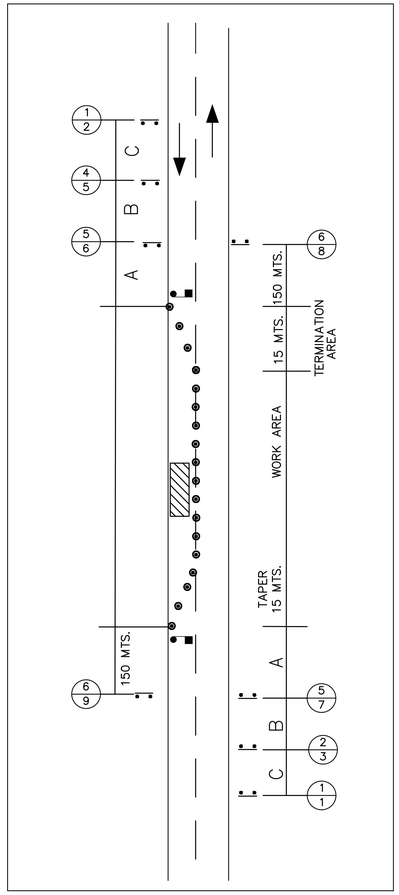
MOT1

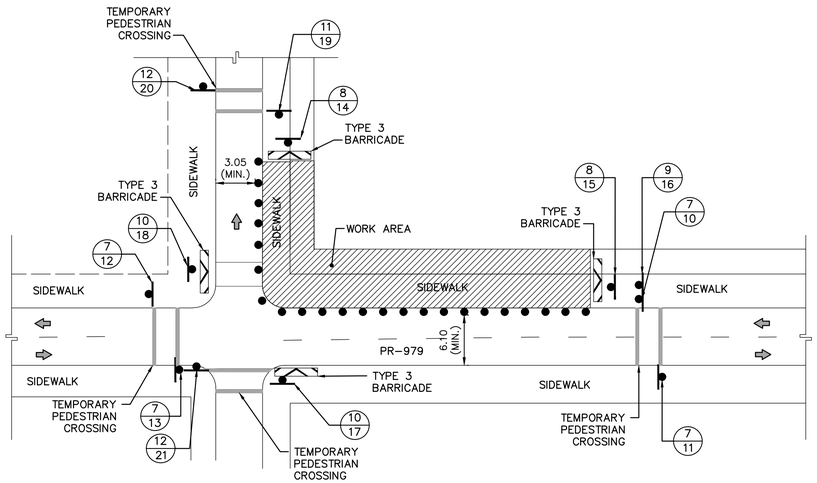
9/13/2024 12:45:32 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\MOT1.dwg

TYPICAL APPLICATION I
RIGHT LANE CLOSURE



TYPICAL APPLICATION II
LEFT LANE CLOSURE





CROSSWALK CLOSURES AND
PEDESTRIAN DETOUR (TYP.)

LEGEND:

- TRAFFIC SIGN LOCATION
- CODE NUMBER
- LOCATION NUMBER
- PLASTIC DRUMS
- AREA UNDER CONSTRUCTION
- TRAFFIC DIRECTION
- FLAGGER
- TYPE 3 BARRICADE

NOTES:

1. FOR MAINTENANCE OF TRAFFIC NOTES & LEGEND REFER TO MOT–1.
2. MAINTENANCE OF TRAFFIC APPLICATIONS SHALL COMPLY WITH MUTCD 2009 MANUAL.
3. REFER TO DWG. MOT–3 FOR CONSTRUCTION SIGNS TABLE.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	08/05/22
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	22010

SHEET TITLE

MAINTENANCE OF TRAFFIC TYPICAL APPLICATIONS

SHEET ID

MOT2

9/13/2024 12:45:38 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\MOT2.dwg

CONSTRUCTION SIGNS:

CODE No.	LOCATION No.	SIGN CODE	L E G E N D	SIZE OF SIGN PANELS	STRUCTURE TYPE	REFERENCE MANUAL	TOTAL ITEM
1	1,2	W20-1		36" X 36"	N/A	SEE D.T.P.W. MANUAL 2020	2
2	3	W20-5 (I)		36" X 36"	N/A	SEE D.T.P.W. MANUAL 2020	1
3	4	W20-5 (D)		36" X 36"	N/A	SEE D.T.P.W. MANUAL 2020	1
4	5	W20-4		36" X 36"	N/A	SEE D.T.P.W. MANUAL 2020	1
5	6,7	W20-7 (A)		36" X 36"	N/A	SEE D.T.P.W. MANUAL 2020	2
6	8,9	G20-2		40" X 16"	N/A	SEE D.T.P.W. MANUAL 2020	2
7	10, 11, 12, 13	W11-2 W16-7P(I)		30"X30" 24"X12"	N/A	SEE MUTCD 2009	4
8	14, 15	R9-9		24" X 18"	N/A	SEE MUTCD 2009 & GUIDE SIGN DETAIL	2
9	16	R9-11(I)		36" X 30"	N/A	SEE MUTCD 2009 & GUIDE SIGN DETAIL	1
10	17, 18	R9-10		42" X 24"	N/A	SEE MUTCD 2009 & GUIDE SIGN DETAIL	2
11	19	R9-11(D)		36" X 30"	N/A	SEE MUTCD 2009 & GUIDE SIGN DETAIL	1
12	20, 21	W11-3 W16-7P(D)		30"X30" 24"X12"	N/A	SEE MUTCD 2009	2

NOTES:

1. FOR MAINTENANCE OF TRAFFIC NOTES & LEGEND REFER TO DWG. MOT/1
2. MAINTENANCE OF TRAFFIC APPLICATIONS MUST COMPLY WITH MUTCD 2009 MANUAL.
3. SIGNS MUST COMPLY WITH DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS' "MANUAL DE ROTULACION PARA LAS VIAS PUBLICA DE PUERTO RICO" 2020 & MUTCD 2009 MANUAL.
4. FOR GUIDE SIGN DETAIL SEE DWG. MOT-4

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	08/05/22
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	22010

SHEET TITLE

MAINTENANCE OF TRAFFIC
TRAFFIC SIGN TABLES

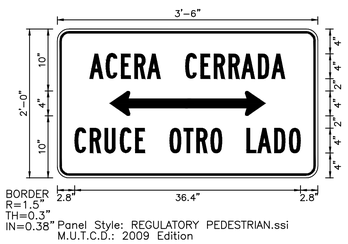
SHEET ID

MOT3

9/13/2024 12:45:42 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejorasCalles\07-Project Design\01-Civil\MOT3.dwg

GUIDE SIGN DETAILS:

NTS



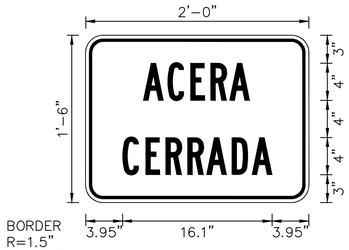
SIGN NUMBER	10/17, 10/18
WIDTH x HGHT.	3'-6" x 2'-0"
BORDER WIDTH	0.3"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
AR_THRU	90	8.4	10	4	12.6
AR_THRU	270	21	10	4	12.6

Panel Style: REGULATORY PEDESTRIAN.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																					LENGTH	SERIES/SIZE
A	C	E	R	A		C	E	R	R	A	D	A										B 2000
5.2	7.8	10.3	12.4	14.5	16.6	20.6	23.1	25.3	27.6	29.7	32.4	34.6									31.5	4
C	R	U	C	E		O	T	R	O		L	A	D	O								B 2000
2.8	5.3	7.6	10.1	12.6	14.1	18.1	20.4	22.5	24.7	26.5	30.5	32.3	35	37.4							36.4	4



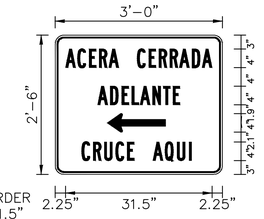
SIGN NUMBER	8/14, 8/15
WIDTH x HGHT.	2'-0" x 1'-6"
BORDER WIDTH	0.3"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT

Panel Style: REGULATORY PEDESTRIAN.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
A	C	E	R	A																			B 2000
6.2	8.8	11.3	13.4	15.5																		11.4	4
C	E	R	R	A	D	A																	B 2000
4	6.4	8.6	11	13	15.7	17.9																16.1	4



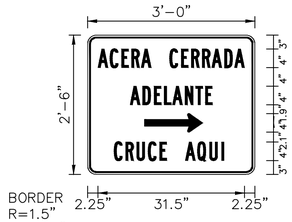
SIGN NUMBER	9/16
WIDTH x HGHT.	3'-0" x 2'-6"
BORDER WIDTH	0.3"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
AR_THRU	90	11.2	9.1	4	12.6

Panel Style: REGULATORY PEDESTRIAN DIR..ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
A	C	E	R	A		C	E	R	R	A	D	A											B 2000
2.2	4.8	7.3	9.5	11.5	13.7	17.7	20.2	22.3	24.7	26.7	29.4	31.6										31.5	4
A	D	E	L	A	N	T	E																B 2000
9.1	11.9	14.3	16.5	18.3	21	23.3	25.3															17.7	4
C	R	U	C	E		A	Q	U	I														B 2000
5.7	8.2	10.6	13	15.5	17	21	23.6	26.2	28.8													23.6	4



SIGN NUMBER	11/19
WIDTH x HGHT.	3'-0" x 2'-6"
BORDER WIDTH	0.3"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
AR_THRU	90	11.2	9.1	4	12.6

Panel Style: REGULATORY PEDESTRIAN DIR..ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
A	C	E	R	A		C	E	R	R	A	D	A											B 2000
2.2	4.8	7.3	9.5	11.5	13.7	17.7	20.2	22.3	24.7	26.7	29.4	31.6										31.5	4
A	D	E	L	A	N	T	E																B 2000
9.1	11.9	14.3	16.5	18.3	21	23.3	25.3															17.7	4
C	R	U	C	E		A	Q	U	I														B 2000
5.7	8.2	10.6	13	15.5	17	21	23.6	26.2	28.8													23.6	4

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, LUZ M. RODRIGUEZ TORRES, LIC. 17504, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGÉNCIA YA SEA MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	09/21/23
2	60% DESIGN DRAWINGS	03/08/24
3	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:	08/05/22
REVIEWED BY:	LMR
DRAWN BY:	AMC
DESIGNED BY:	LMR
BRA PROJECT NUMBER:	22010

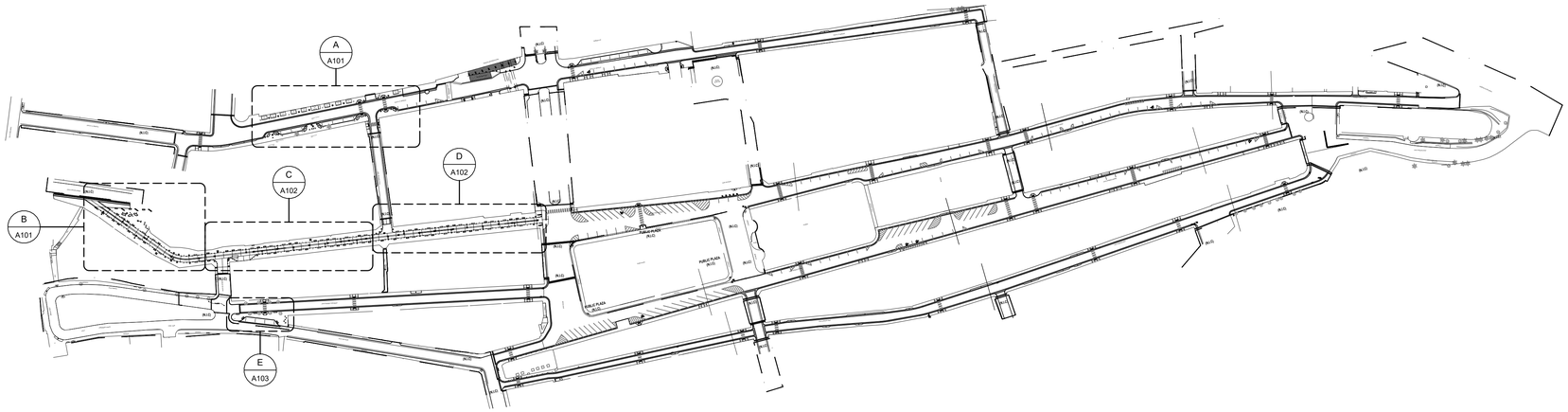
SHEET TITLE

MAINTENANCE OF TRAFFIC
TRAFFIC SIGN TABLES

SHEET ID

MOT4

9/13/2024 12:45:43 PM C:\Users\Miguel Matos\OneDrive - Benitez Ramos & Associates\02-Design Projects\23014-Arecibo-MejrasCalles\07-Project Design\01-Civil\MOT3.dwg



N

PROPOSED GENERAL SITE PLAN

SCALE: 1/128" = 1"

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS. OTHERWISE, THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR THE CORRESPONDING RECTIFICATIONS FROM SAID DISCREPANCY.
2. LOCATION OF PROPOSED FURNITURE AND STREET ELEMENTS SHALL BE COORDINATED WITH EXISTING ELEMENTS ON SITE. ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICT BETWEEN PROPOSED AND EXISTING ELEMENTS.
3. FOR PROPOSED FURNITURE SCHEDULE REFER TO SHEET A103.
4. FOR LED STREET POLE SPECIFICATIONS AND LOCATION REFER TO SHEET E300.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, FRANCISCO A. CAPO HERNÁNDEZ, LIC. 21739, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 66 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:
REVIEWED BY:
DRAWN BY:
DESIGNED BY:
BRA PROJECT NUMBER:

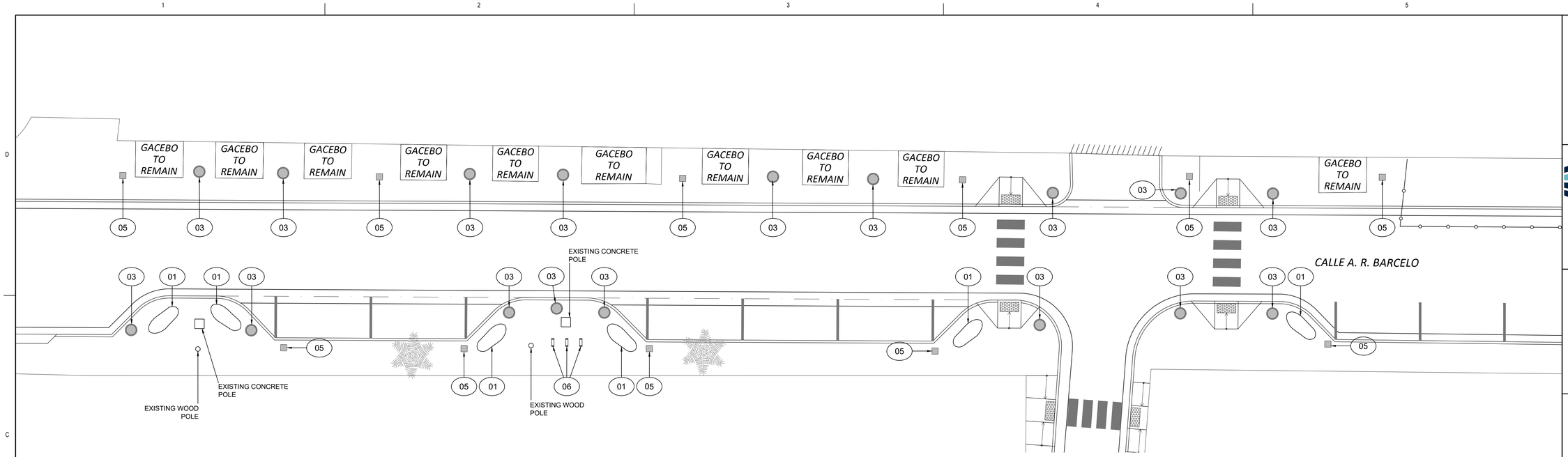
SHEET TITLE

ARCHITECTURAL SITE PLAN

SHEET ID

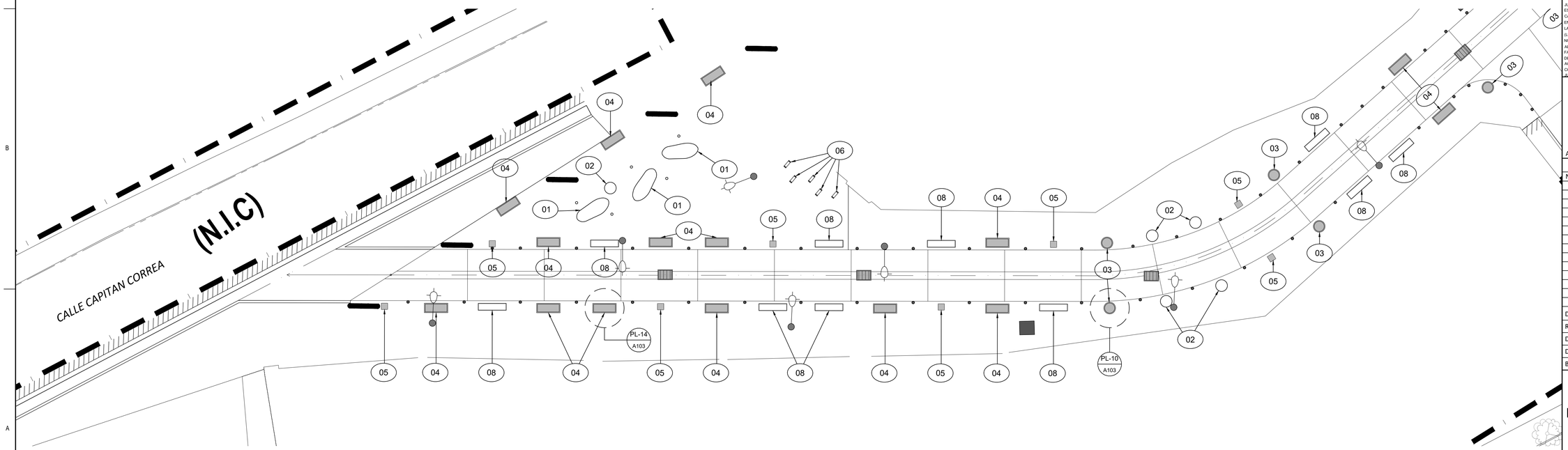
AS100

9/13/2024 2:46:34 PM C:\Users\Paul Resto\OneDrive - Benitez Ramos & Associates\23014-Arecibo-MejorasCalles\07-Project Design\02-Arch\AE101-103.dwg



N

A / A101 PROPOSED LAYOUT PLAN A. R. BARCELO STREET
SCALE: 3/32" = 1'-0"



N

B / A101 PROPOSED LAYOUT PLAN JOSE DE DIEGO AVE.
SCALE: 3/32" = 1'-0"

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS. OTHERWISE, THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR THE CORRESPONDING RECTIFICATIONS FROM SAID DISCREPANCY.
2. LOCATION OF PROPOSED FURNITURE AND STREET ELEMENTS SHALL BE COORDINATED WITH EXISTING ELEMENTS ON SITE. ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICT BETWEEN PROPOSED AND EXISTING ELEMENTS.
3. FOR PROPOSED FURNITURE SCHEDULE REFER TO SHEET A103.
4. FOR LED STREET POLE SPECIFICATIONS AND LOCATION REFER TO SHEET E300.

OWNER
Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT
BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, FRANCISCO A. CAPO HERNÁNDEZ, LIC. 21739, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA, SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA QUE

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:
REVIEWED BY:
DRAWN BY:
DESIGNED BY:
BRA PROJECT NUMBER:

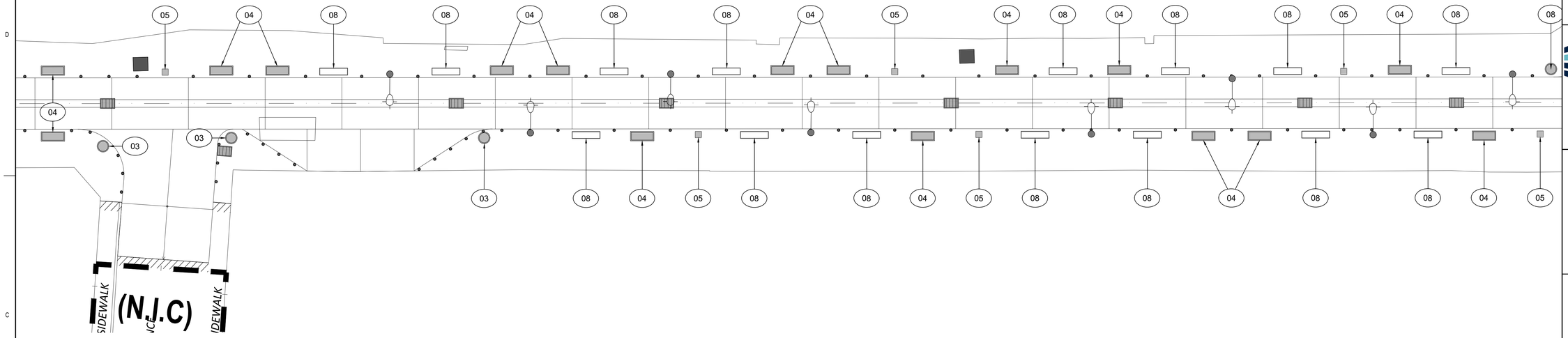
SHEET TITLE

PROPOSED LAYOUT PLAN

SHEET ID

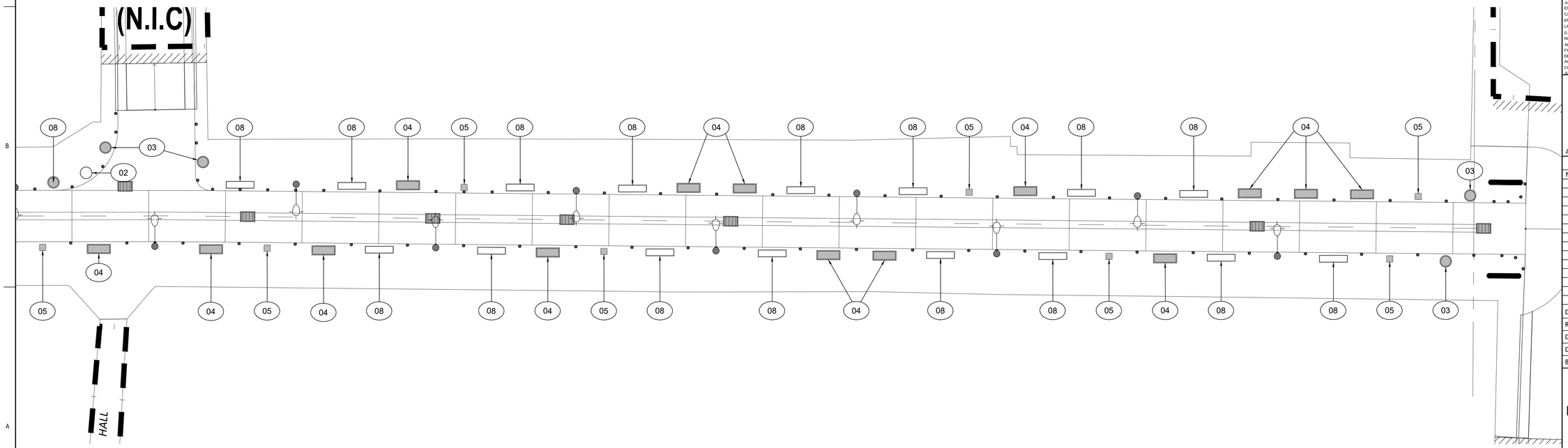
A101

9/13/2024 2:46:37 PM C:\Users\Paul Resto\OneDrive - Benitez Ramos & Associates\23014-Arecibo-MejorasCalles\07-Project Design\02-Archi\AE101-103.dwg



N

C A102 PROPOSED LAYOUT PLAN JOSE DE DIEGO AVE.
SCALE: 3/32" = 1'-0"



N

D A102 PROPOSED LAYOUT PLAN JOSE DE DIEGO AVE.
SCALE: 3/32" = 1'-0"

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS. OTHERWISE, THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR THE CORRESPONDING RECTIFICATIONS FROM SAID DISCREPANCY.
2. LOCATION OF PROPOSED FURNITURE AND STREET ELEMENTS SHALL BE COORDINATED WITH EXISTING ELEMENTS ON SITE. ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICT BETWEEN PROPOSED AND EXISTING ELEMENTS.
3. FOR PROPOSED FURNITURE SCHEDULE REFER TO SHEET A103.
4. FOR LED STREET POLE SPECIFICATIONS AND LOCATION REFER TO SHEET E300.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, FRANCISCO A. CAPÓ HERNÁNDEZ, LIC. 21739, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA QUE

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:
REVIEWED BY:
DRAWN BY:
DESIGNED BY:
BRA PROJECT NUMBER:

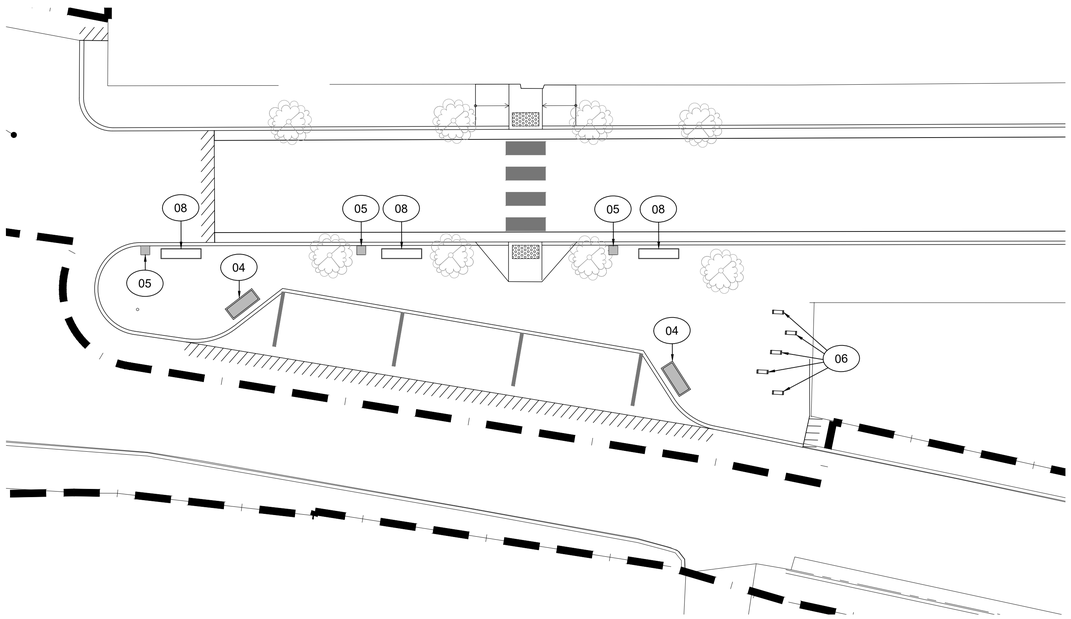
SHEET TITLE

PROPOSED LAYOUT PLAN

SHEET ID

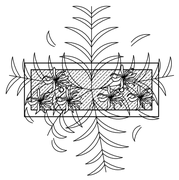
A102

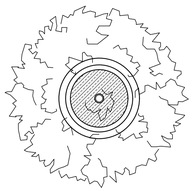
9/13/2024 2:46:38 PM C:\Users\Paul Resto\OneDrive - Benitez Ramos & Associates\23014-Arecibo-MejorasCalles\07-Project Design\02-Arch\AE101-103.dwg

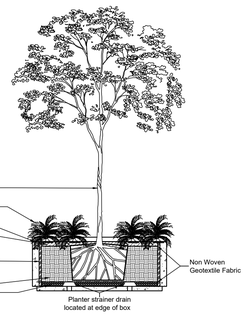


N

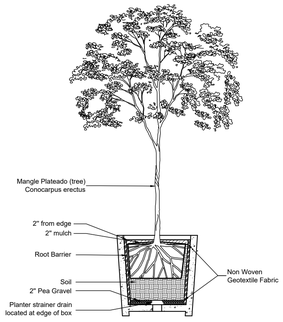
E
A103
PROPOSED LAYOUT PLAN RAMON E. BETANCES STREET
SCALE: 3/32" = 1'-0"







PL-14
A101
TYPICAL RECTANGLE PLANTER
SCALE: 3/8" = 1'-0"



PL-10
A101
TYPICAL ROUND PLANTER
SCALE: 3/8" = 1'-0"

KIMBERLY FERN
NEPHROLEPIS OBLITERATA

MANGLE PLATEADO (TREE)
CONOCARPUS ERECTUS

JAPANESE FERN
FILICIUM DECIPIENS

EXTERIOR ELEMENTS - FURNISHING

MKD		DESCRIPTION	MANUFACTURER/ SUPPLIER	MODEL \ MAKE NUMBER
01		CONCRETE BENCH	713 PRECAST	BE-39
02		CONCRETE BENCH	713 PRECAST	BE-31
03		CONCRETE PLANTER	713 PRECAST	PL-10
04		CONCRETE PLANTER	713 PRECAST	PL-14
05		TRASH BINS	NERI	PICTOR LITTER BIN B
06		BIKE RACKS	713 PRECAST	BIKE RACK BR-1
07		BOLLARD	NERI	CHARA BOLLARD
08		CONCRETE BENCH	713 PRECAST	BE-12

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS. OTHERWISE, THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR THE CORRESPONDING RECTIFICATIONS FROM SAID DISCREPANCY.
2. LOCATION OF PROPOSED FURNITURE AND STREET ELEMENTS SHALL BE COORDINATED WITH EXISTING ELEMENTS ON SITE. ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICT BETWEEN PROPOSED AND EXISTING ELEMENTS.
3. FOR PROPOSED FURNITURE SCHEDULE REFER TO SHEET A103.
4. FOR LED STREET POLE SPECIFICATIONS AND LOCATION REFER TO SHEET E300.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

SEAL

YO, FRANCISCO A. CAPO HERNÁNDEZ, LIC. 21739, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA, LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POD DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	90% DESIGN DRAWINGS	09/13/24

DATE ISSUED:
REVIEWED BY:
DRAWN BY:
DESIGNED BY:
BRA PROJECT NUMBER:

SHEET TITLE

PROPOSED LAYOUT PLAN & SCHEDULE

SHEET ID

A103

9/13/2024 2:48:33 PM C:\Users\Paul Resto\OneDrive - Benitez Ramos & Asociates\23014-Arecibo-MejorasCalles\07-Project Design\02-Arch\AE101-103.dwg

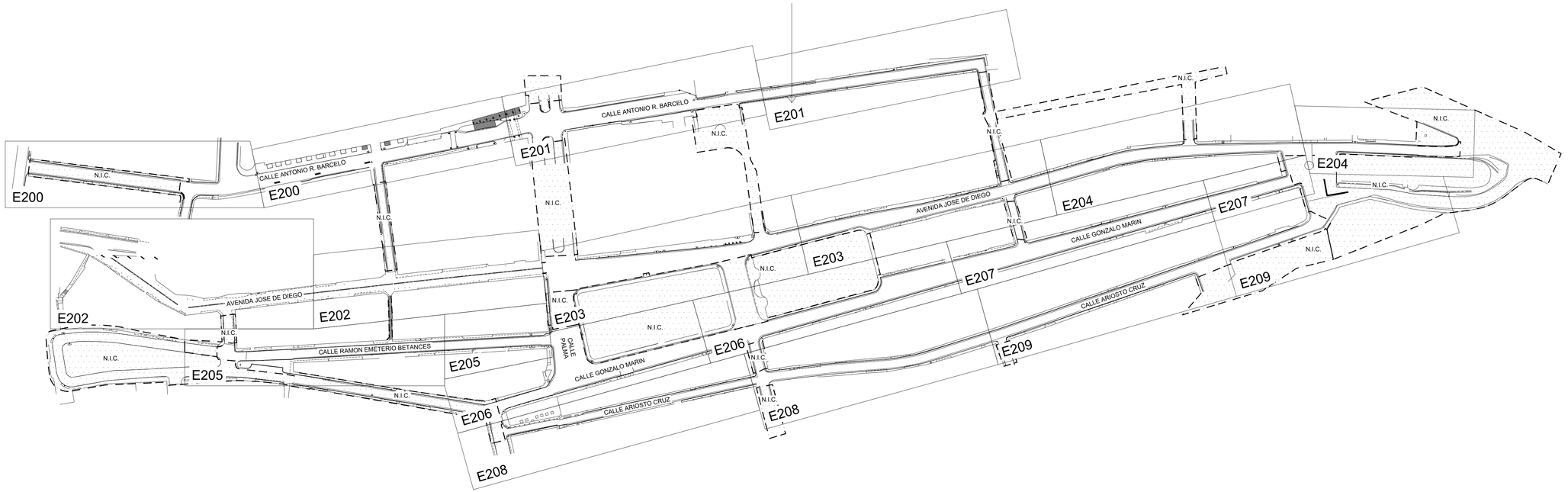
1 GENERAL JOB DESCRIPTION:

1. PROJECT WILL CONSIST OF THE INSTALLATIONS OF NEW LIGHTING POLE (SOLAR TYPE), SEE DETAIL 1/E300
2. THE CONTRACTOR SHALL PROVIDE NEW SECURITY SYSTEM "CCTV" CAMERAS.
3. ALL EXISTING ORNAMENTAL STREET LIGHTING POLE BE REMOVED.
4. EXISTING POLES WITH STREET LIGHTING FIXTURES CONNECTED TO LUMA SECONDARY LINES SHALL REMAIN IN OPERATION UNTIL OWNER DETERMINE THE FUTURE USE OF THIS SYSTEM.
5. FINAL "CCTV" CAMERAS LOCATION TBD WITH THE MUNUCIPALITY SECURITY OFFICES AND POLICE DEPARTMENT CONSULTANT.

KEY PLAN

X: 18472011
Y: -66716064

REFERENCE DRAWING SECTION. (TYP.).



N

GENERAL LIGHTING SITE PLAN

SCALE: 1:1,200

5 0 10 20 50 80

SCALE: 1:1,200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.

Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS; TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

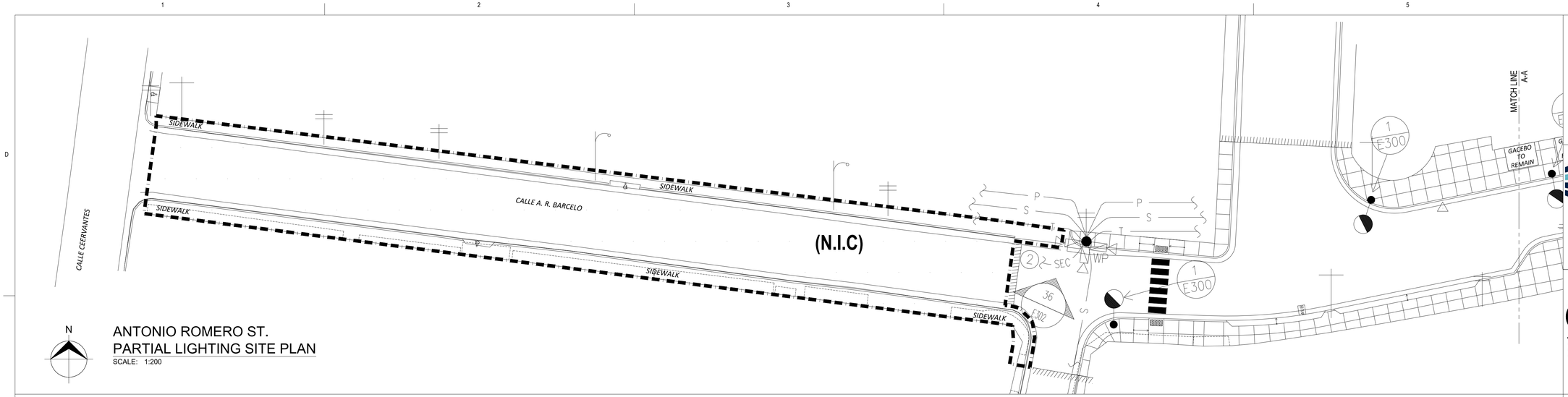
SHEET TITLE

GENERAL LIGHTING SITE PLAN

SHEET ID

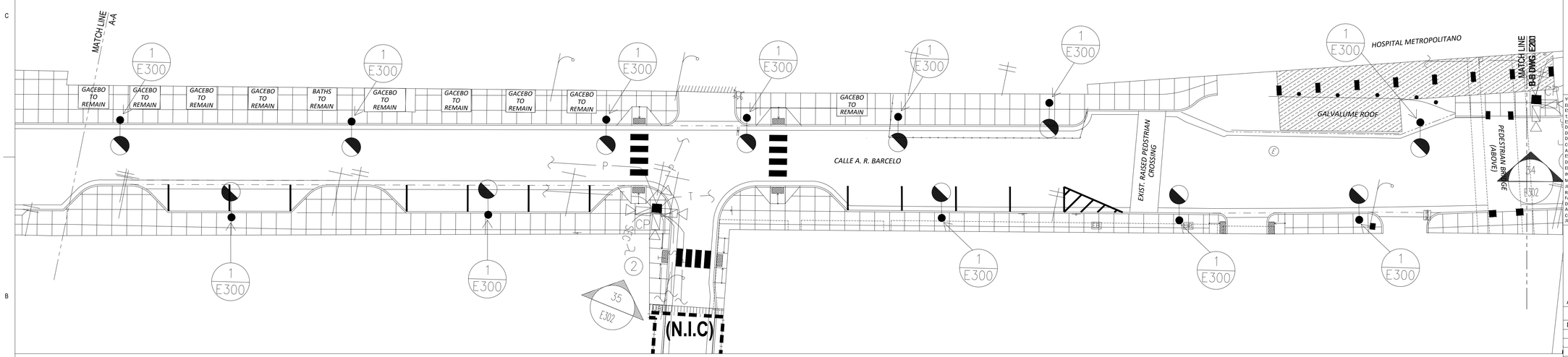
E100

9/12/2024 10:46:29 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E100.dwg



N

ANTONIO ROMERO ST.
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200



N

ANTONIO ROMERO ST.
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. CONNECT TO "CCTV" INFRASTRUCTURE TBD IN THE FIELD.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT + ENGINEERING + DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONO Y/O DISEÑO Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS; TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

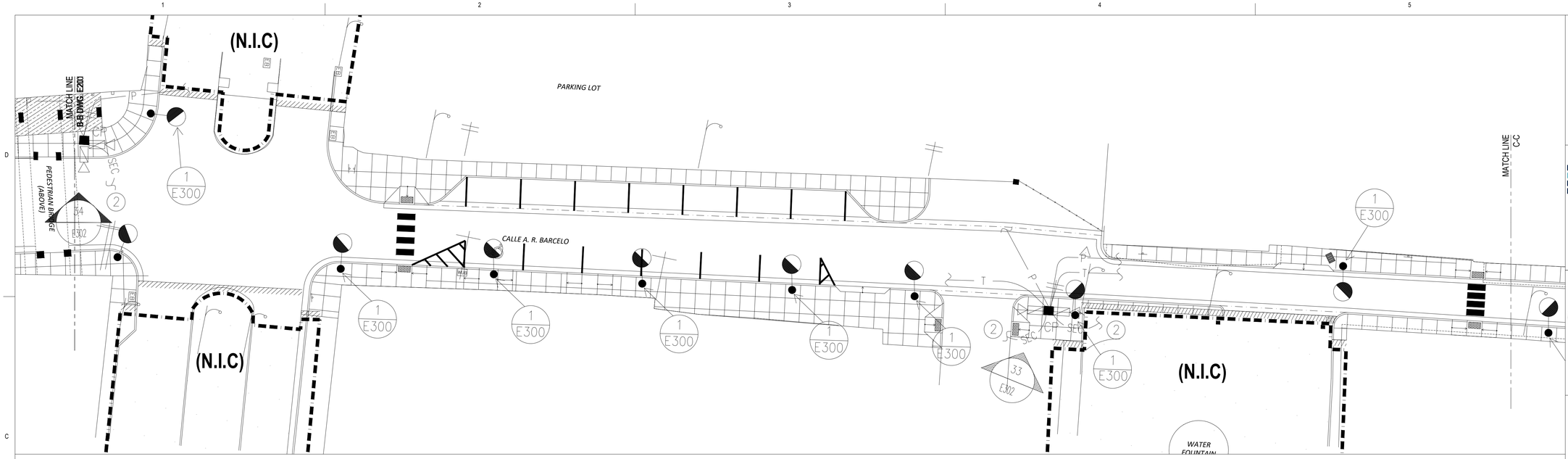
SHEET TITLE

ANTONIO ROMERO ST, - PARTIAL LIGHTING SITE PLAN

SHEET ID

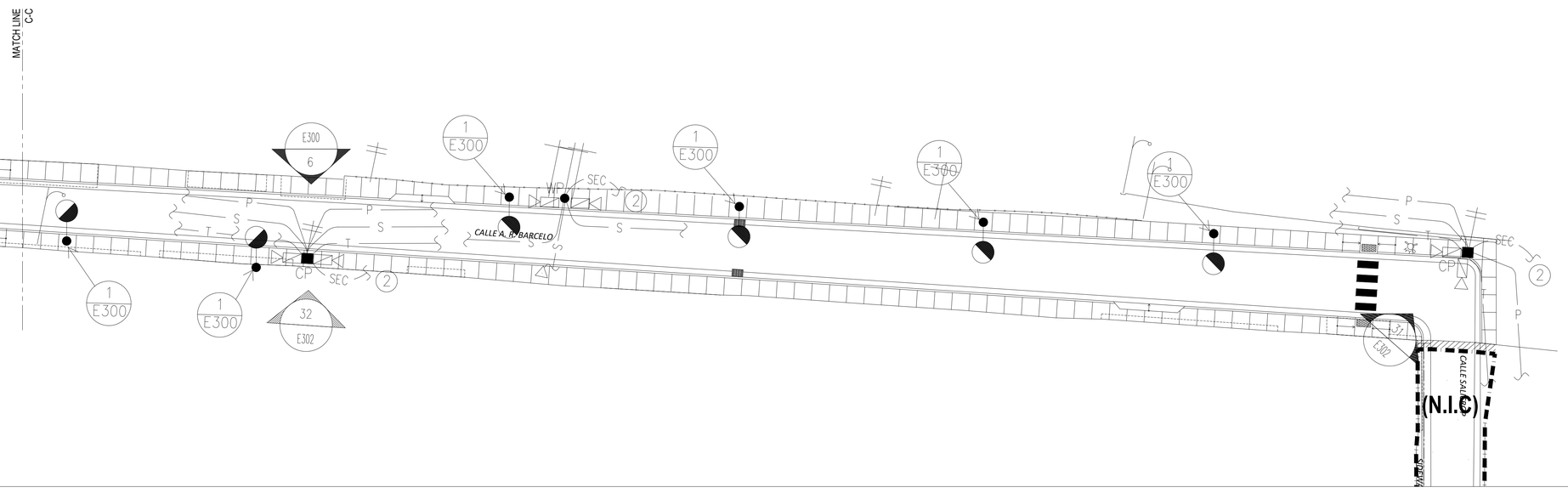
E200

9/12/2024 10:46:07 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E200.dwg



N

ANTONIO ROMERO ST.
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200



N

ANTONIO ROMERO ST.
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. CONNECT TO "CCTV" INFRASTRUCTURE TBD IN THE FIELD.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO — PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

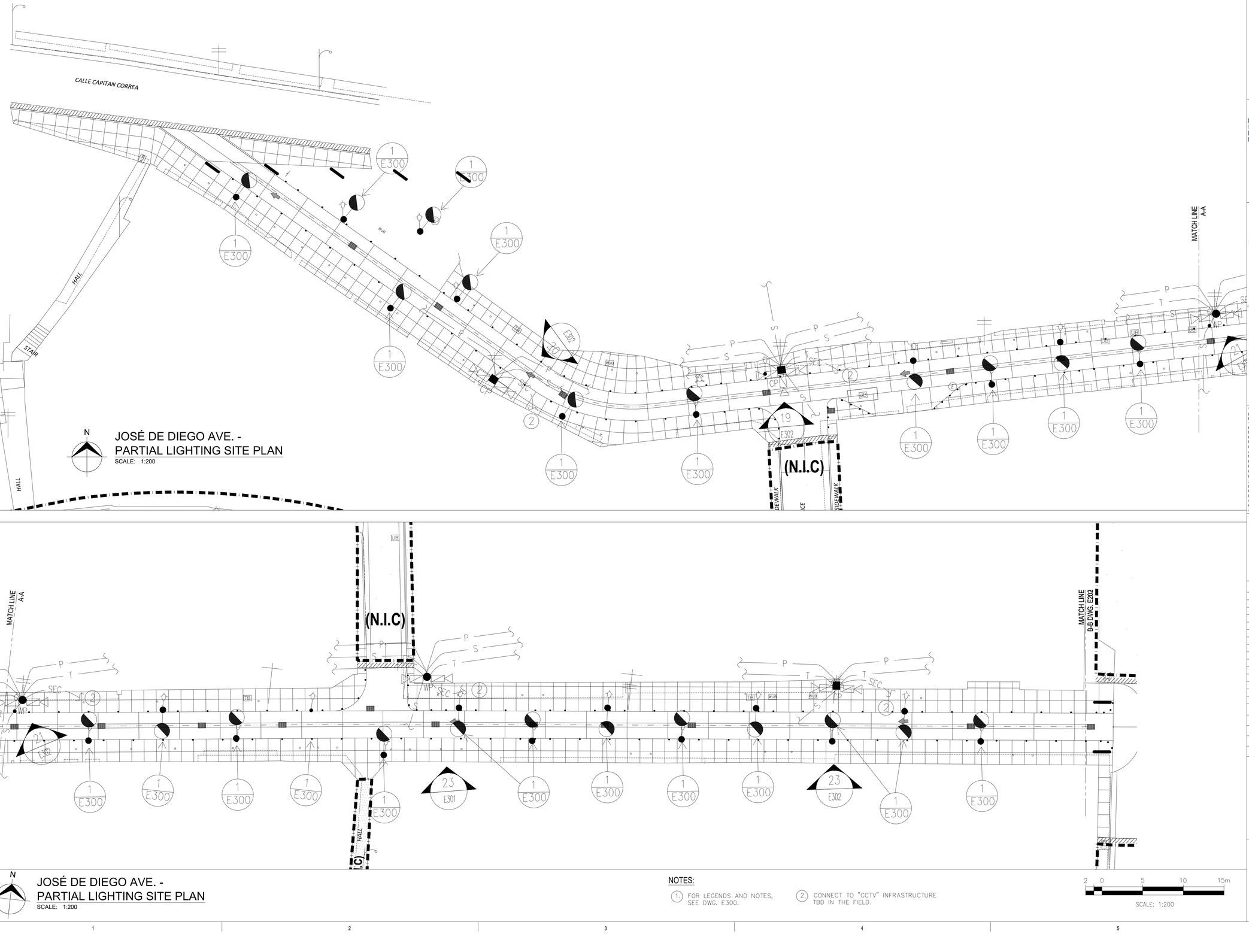
SHEET TITLE

ANTONIO ROMERO ST, - PARTIAL LIGHTING SITE PLAN

SHEET ID

E201

9/12/2024 10:45:53 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E200.dwg



NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. CONNECT TO "CCTV" INFRASTRUCTURE TBD IN THE FIELD.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.

Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA DGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/12/2024
REVIEWED BY:	RJR
DRAWN BY:	LMPD
DESIGNED BY:	LMPD
BRA PROJECT NUMBER:	24009

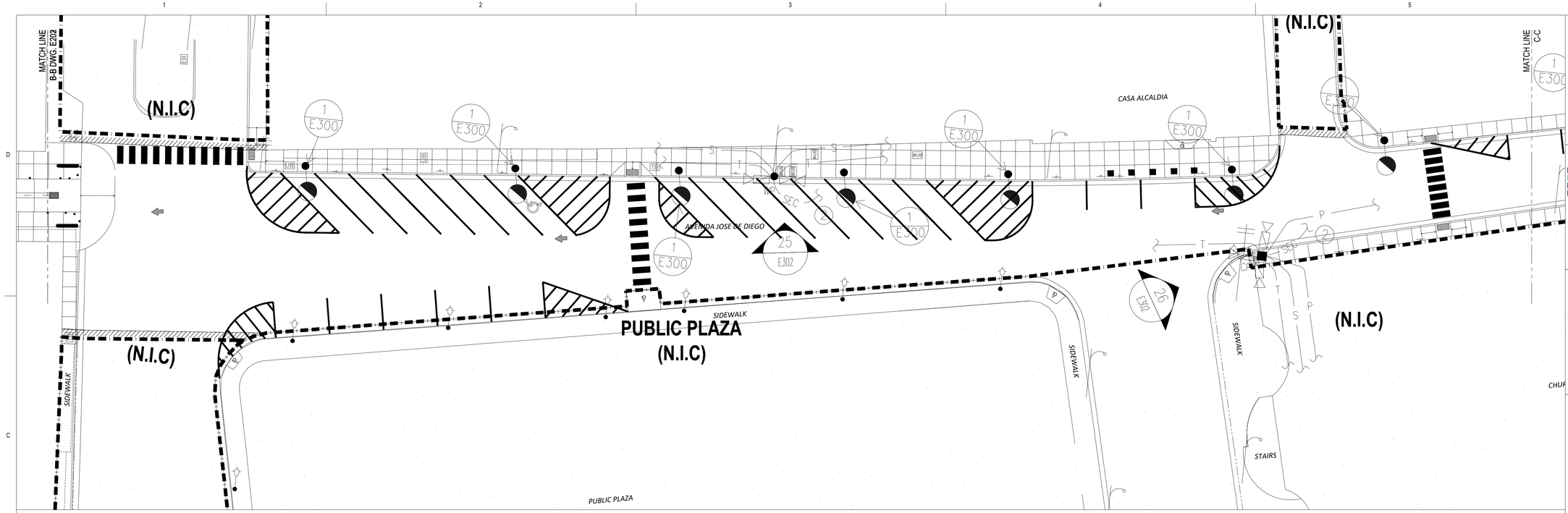
SHEET TITLE

JOSÉ DE DIEGO AVE. - PARTIAL LIGHTING SITE PLAN

SHEET ID

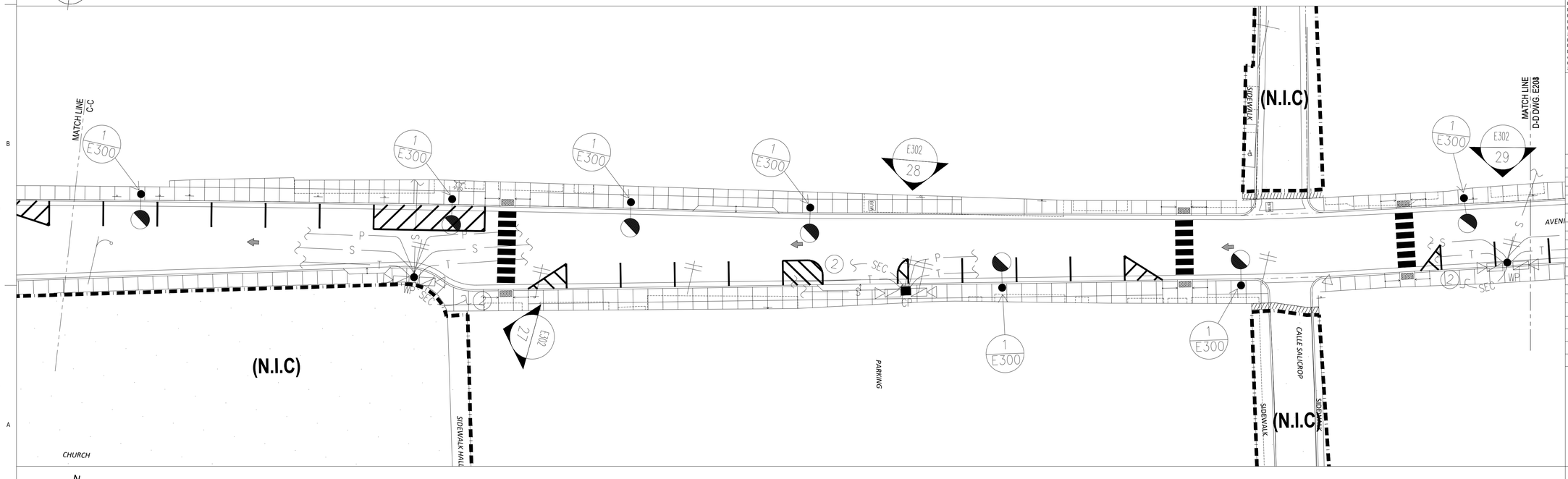
E202

9/12/2024 10:45:14 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E202-3-4.dwg



N

JOSÉ DE DIEGO AVE -
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200



N

JOSÉ DE DIEGO AVE -
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. CONNECT TO "CCTV" INFRASTRUCTURE TBD IN THE FIELD.

2 0 5 10 15m
SCALE: 1:200

9/12/2024 10:45:03 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E202-3-4.dwg

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

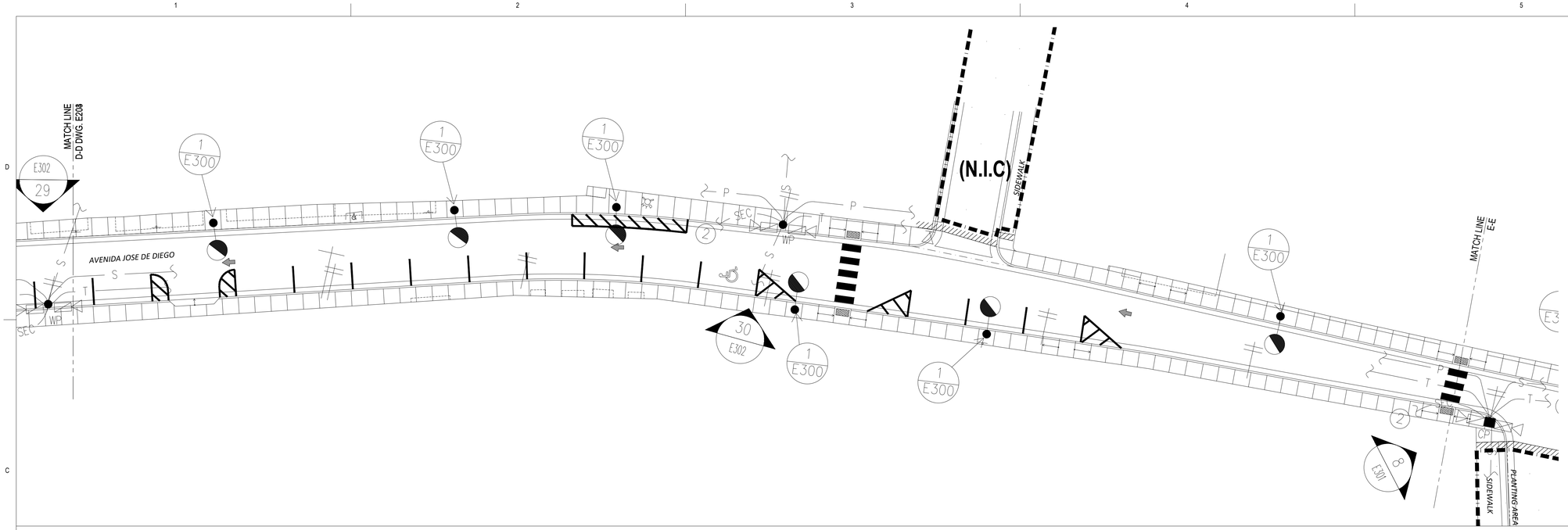
DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

SHEET TITLE

JOSÉ DE DIEGO AVE.
- PARTIAL LIGHTING
SITE PLAN

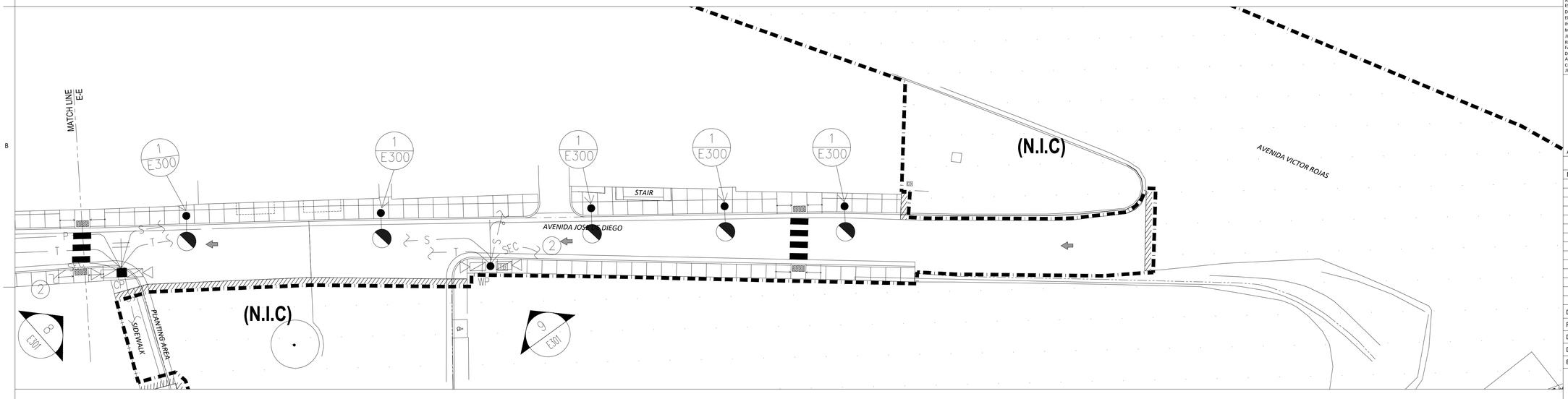
SHEET ID

E203



N

JOSÉ DE DIEGO AVE -
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200



N

JOSÉ DE DIEGO AVE -
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. CONNECT TO "CCTV" INFRASTRUCTURE TBD IN THE FIELD.

2 0 5 10 15m
SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

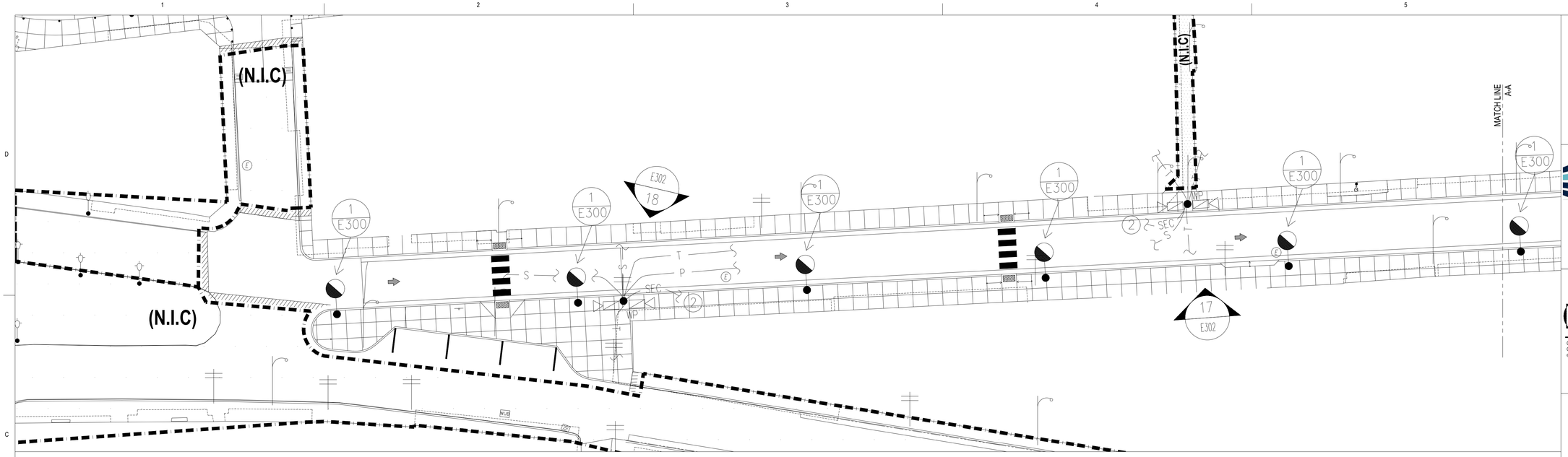
SHEET TITLE

JOSÉ DE DIEGO AVE.-
PARTIAL LIGHTING
SITE PLAN

SHEET ID

E204

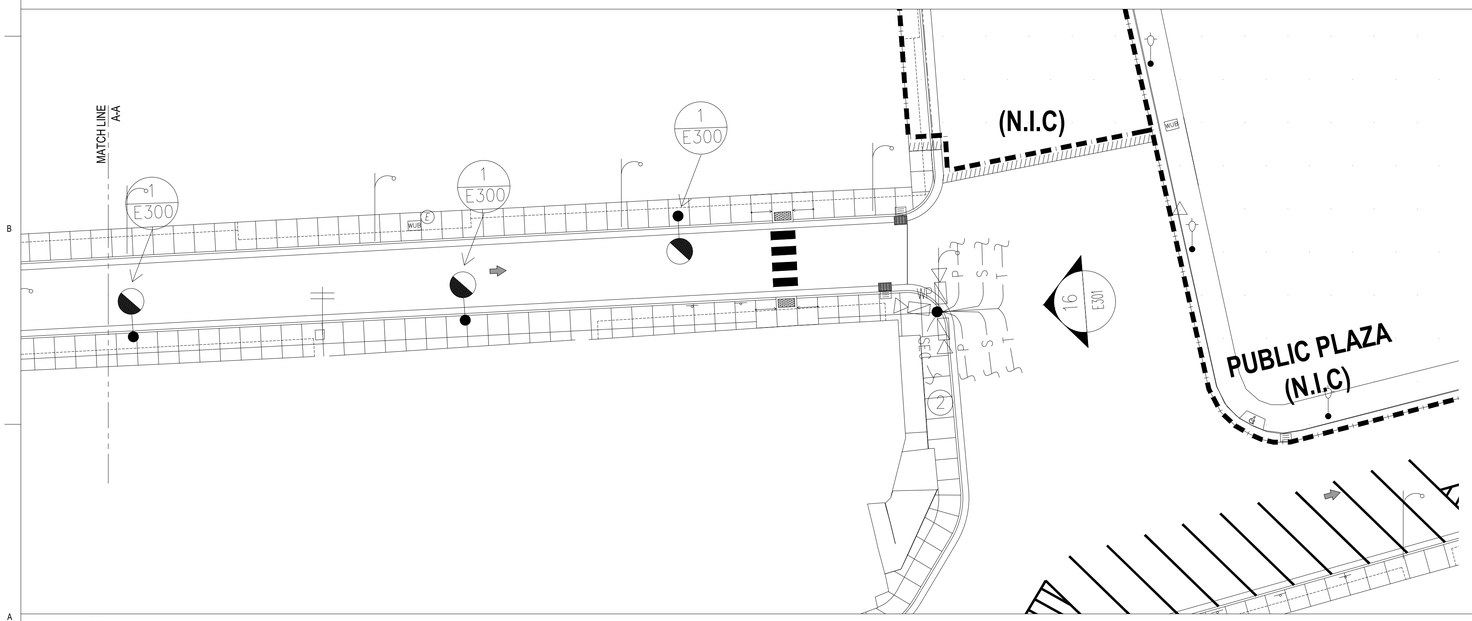
9/12/2024 10:44:49 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E202-3-4.dwg



N

RAMÓN E. BETANCES ST.
PARTIAL LIGHTING SITE PLAN

SCALE: 1:200



N

RAMÓN E.BETANCES ST.
PARTIAL LIGHTING SITE PLAN

SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. CONNECT TO "CCTV" INFRASTRUCTURE TBD IN THE FIELD.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO — PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

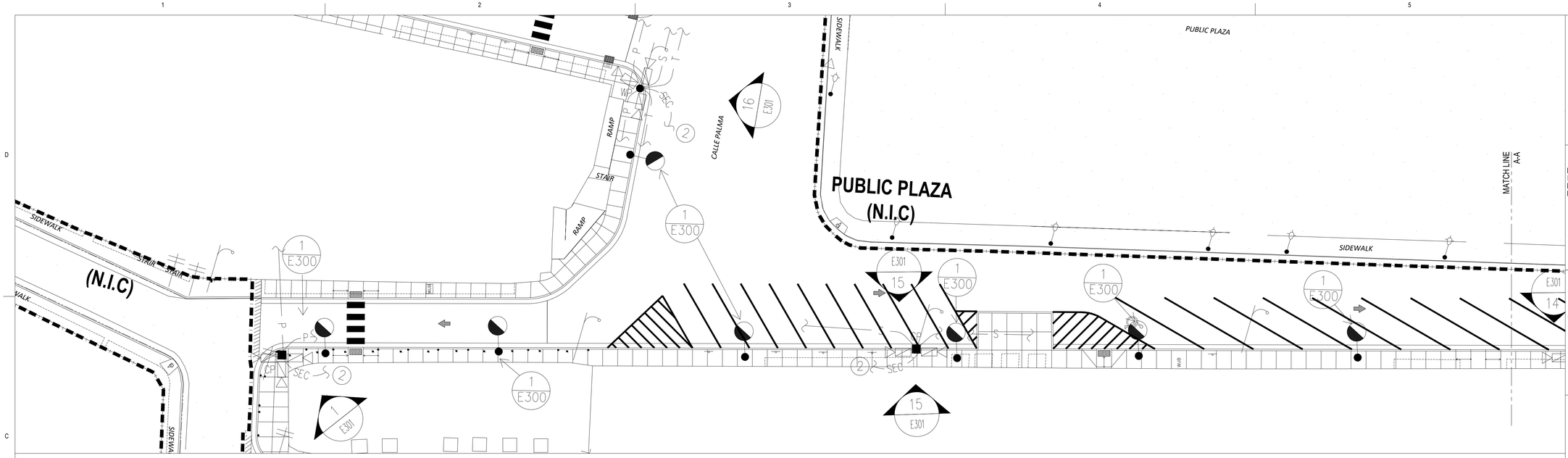
SHEET TITLE

RAMÓN E.BETANCES ST. - PARTIAL LIGHTING SITE PLAN

SHEET ID

E205

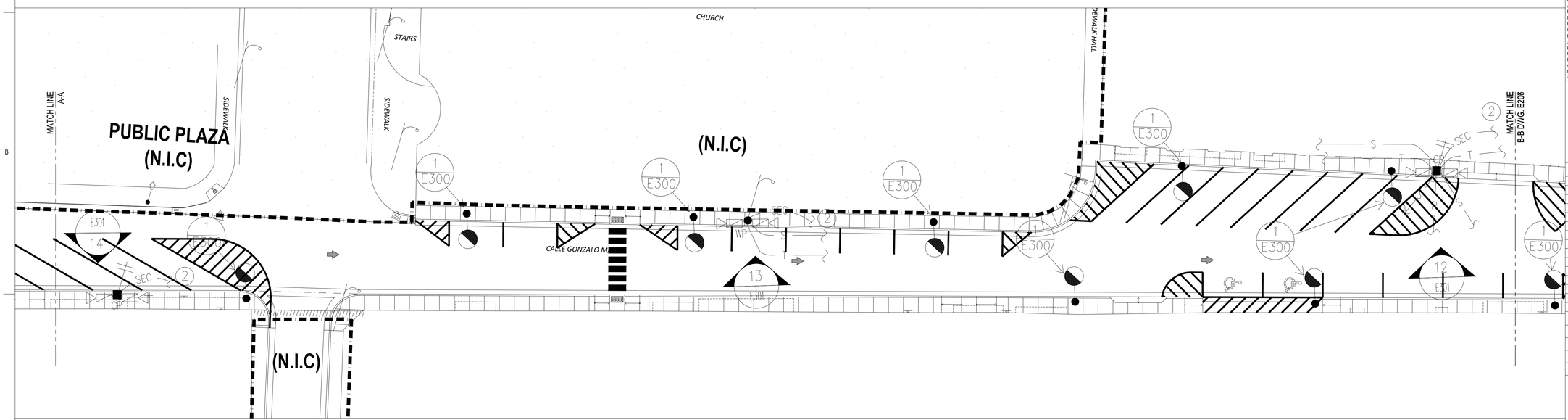
9/12/2024 10:44:26 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E205.dwg



N

GONZALÓ MARÍN ST. -
PARTIAL LIGHTING SITE PLAN

SCALE: 1:200



N

GONZALÓ MARÍN ST. -
PARTIAL LIGHTING SITE PLAN

SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. CONNECT TO "CCTV" INFRASTRUCTURE TBD IN THE FIELD.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.

Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

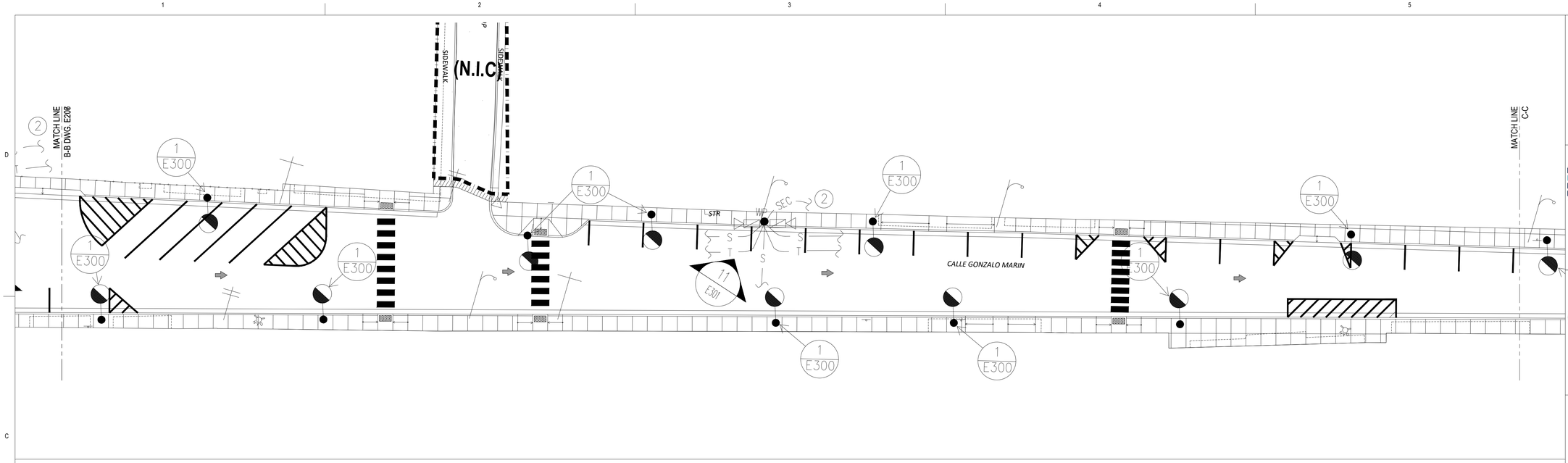
SHEET TITLE

GONZALÓ MARIN ST. -
PARTIAL LIGHTING
SITE PLAN

SHEET ID

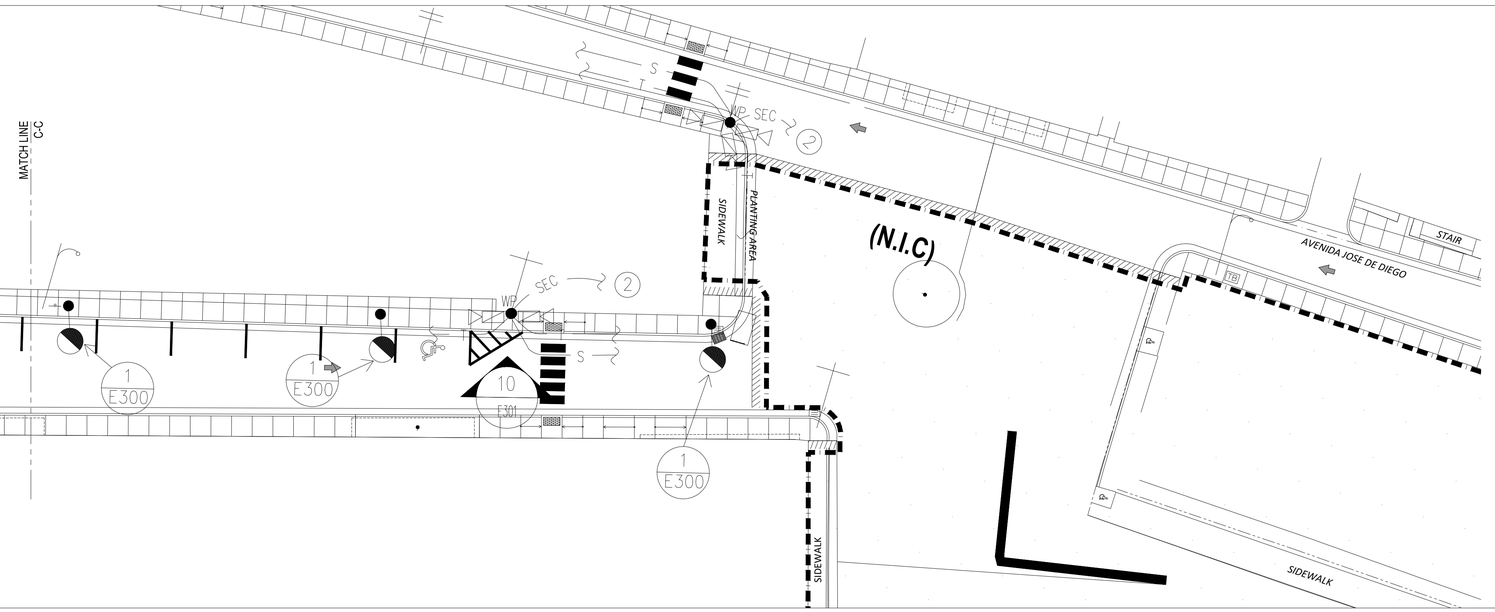
E206

9/12/2024 10:44:01 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E206-7.dwg



N

GONZALÓ MARÍN ST. -
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200



N

GONZALÓ MARÍN ST. -
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. CONNECT TO "CCTV" INFRASTRUCTURE TBD IN THE FIELD.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURSDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA DISPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

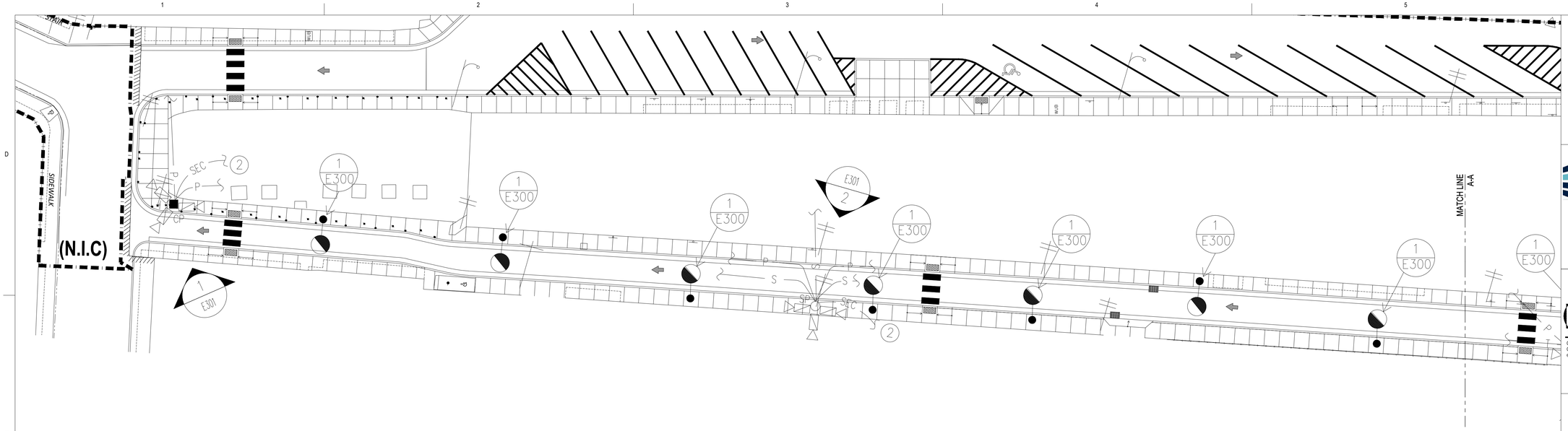
SHEET TITLE

GONZALÓ MARIN ST. -
PARTIAL LIGHTING
SITE PLAN

SHEET ID

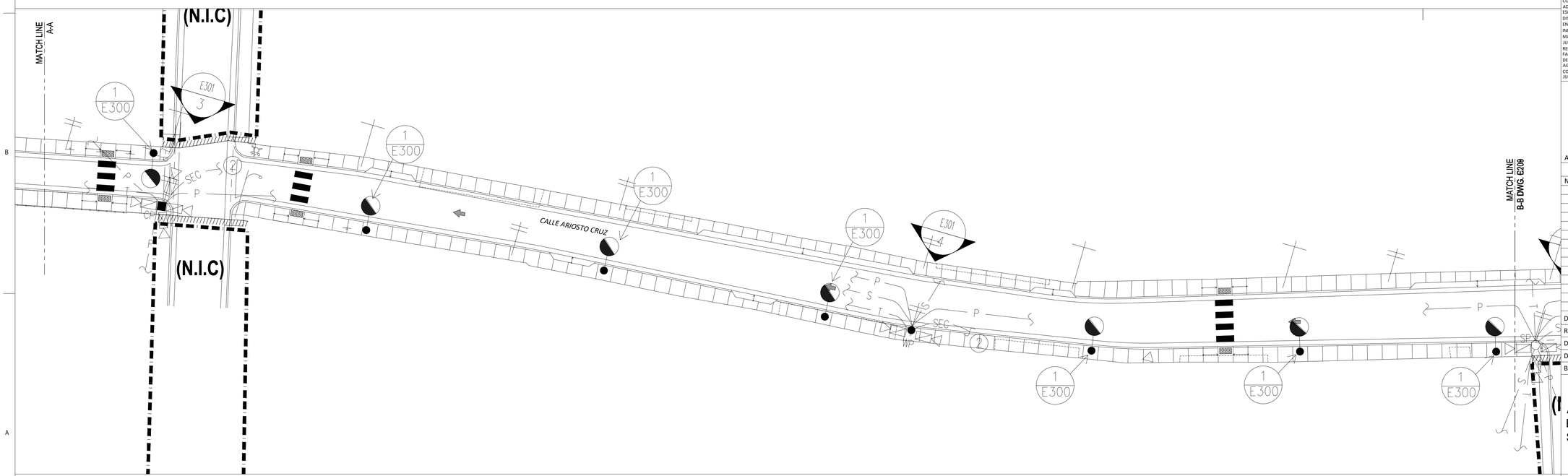
E207

9/12/2024 10:43:44 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E206-7.dwg



N

GONZALÓ MARÍN ST. -
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200



N

GONZALÓ MARÍN ST. -
PARTIAL LIGHTING SITE PLAN
SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. CONNECT TO "CCTV" INFRASTRUCTURE TBD IN THE FIELD.

2 0 5 10 15m
SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO — PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

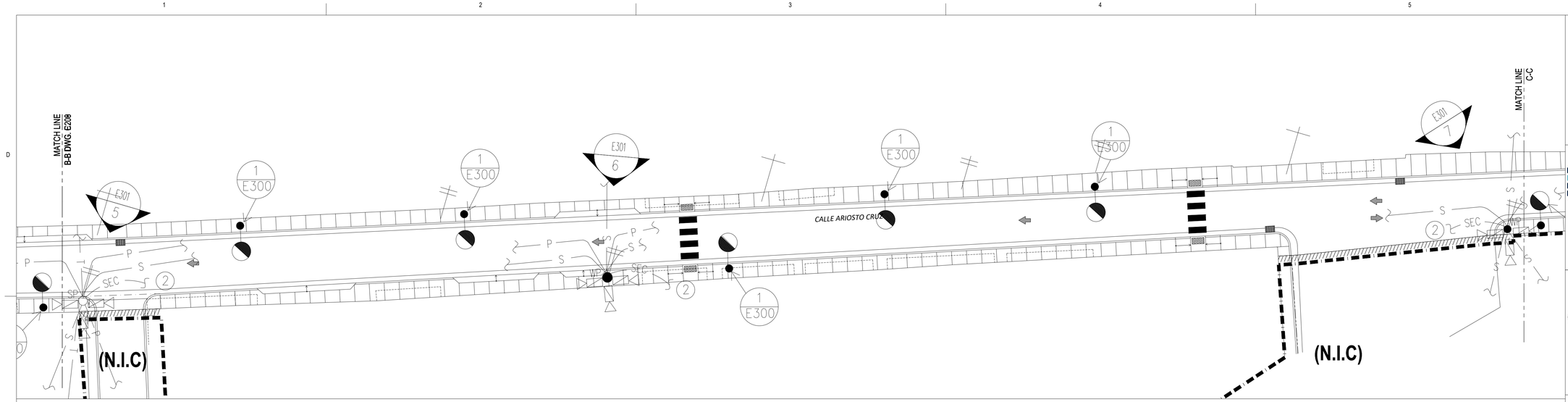
SHEET TITLE

ARIOSTO CRUZ ST. -
PARTIAL LIGHTING
SITE PLAN

SHEET ID

E208

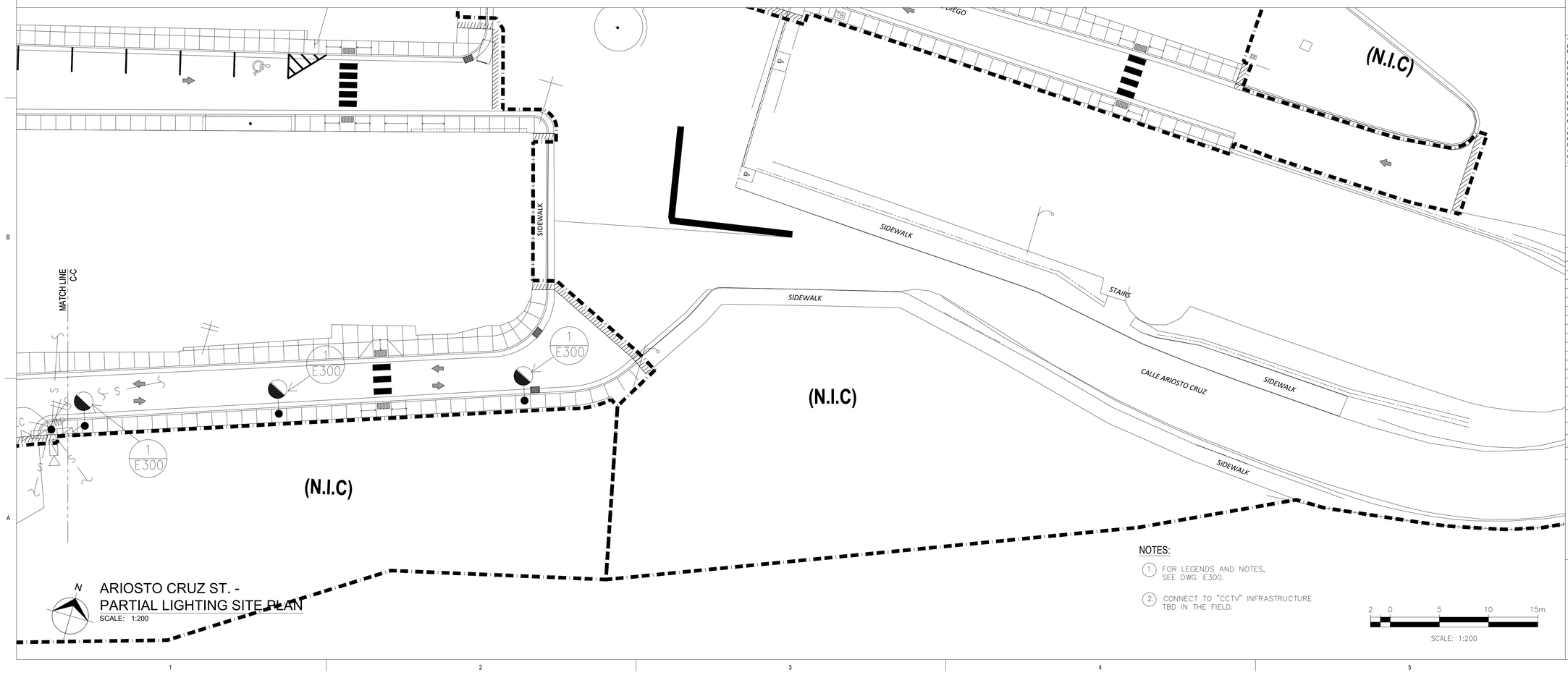
9/12/2024 10:43:16 PM C:\Users\Luis Perez\Documents\3). JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E208-9.dwg



N

ARIOSTO CRUZ ST. -
PARTIAL LIGHTING SITE PLAN

SCALE: 1:200



N

ARIOSTO CRUZ ST. -
PARTIAL LIGHTING SITE PLAN

SCALE: 1:200

NOTES:

1. FOR LEGENDS AND NOTES, SEE DWG. E300.
2. CONNECT TO "CCTV" INFRASTRUCTURE TBD IN THE FIELD.

2 0 5 10 15m

SCALE: 1:200

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO — PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

SHEET TITLE

ARIOSTO CRUZ ST. -
PARTIAL LIGHTING
SITE PLAN

SHEET ID

E209

9/12/2024 10:42:30 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E208-8.dwg

1 SOLAR POLE DETAILS

FIRSTLIGHT TECHNOLOGIES

BFL Series

SOLAR LED STREET & AREA LIGHT

Project:

Type: Quantity:

The BFL Series solar LED street light is a great fit for residential and collector street lighting as well as parking lot lighting applications. The self-contained, unobtrusive solar engine design integrates its solar power, battery and adaptive control capabilities into a compact and simple form. This, combined with an efficient LED fixture, makes the BFL Series an excellent fit where high performance, full cutoff and cost-effective lighting is required.

- With the latest solar, LED and lithium battery technology, the BFL series offers significant advantages:
- Cost-effective design ships fully assembled and installs in minutes
- Low installation cost and minimal site impact with no trenching or cabling
- Wireless control & communication with your light
- Minimal ongoing costs with no electrical bills
- Operates entirely independent from the grid and is immune to power outages
- A sustainable choice without recurring carbon emissions

WIRELESS CONTROL APP

All of our solar powered lights are enabled by our innovative Solar Lighting Controller (SLC). The controller in each light is "self-learning" and allows the lights to predictively adapt to their surroundings, providing an unsurpassed level of lighting performance and reliability.

TECHNICAL SPECIFICATIONS

Solar Module:
- High-efficiency monocrystalline cells
- Inconspicuously integrated into the low profile solar engine
- Used for daylight detection (no photocell required)

Solar Lighting Controller (SLC):
- High-efficiency, maximum power point tracking (MPPT)
- Microcontroller based technology
- Multiyear data logging
- Integrated into solar engine housing
- Designed to adaptively manage lighting performance based on environmental conditions and lighting requirements

Battery:
- High-performance lithium (LiFePO4)
- Exceptional 10+ year lifecycle
- High temperature tolerance
- Constained within solar engine housing
- Designed for easy battery changes

Mechanical:
- Solar engine housing formed from marine-grade, corrosion resistant, aluminum alloy
- Internal top of pole mount structure
- Toolless access
- Architectural grade, durable, TGIC powder coat

LEDs and Optics:
- 100,000 hour L70 lifetime LED
- Extra Warm White (2700K), Warm White (3000K), Neutral White (4000K), and Amber (589nm) LEDs available
- High-efficiency type 2S, 2M, 3S, 3M, 4, 5 optics
- Full cutoff optics and Dark-Sky approved at 3000K
- Typical lumen output of 6400 lumens
- Integrated weatherproof, high-efficiency, dimmable LED driver

Factory Set Lighting Profiles:
- Real-time based lighting profiles allow you to comply with the Model Lighting Ordinance, dimming after curfew, or during periods of low pedestrian conflict
- 11 standard dusk-to- dawn based lighting profiles available
- Lighting profiles are field configurable with app
- Visit our website for all options

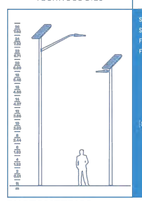
Wireless Controls:
- Easy-to-use interface via iOS smartphone app
- Configure and control lighting profiles
- Adjust dusk and dawn thresholds

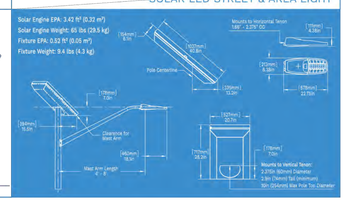
Pole Options:
- Various pole height and mast arm length options available
- Pre-drilled for seamless installation

FIRSTLIGHT TECHNOLOGIES

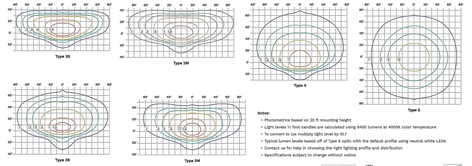
BFL Series

SOLAR LED STREET & AREA LIGHT





PHOTOMETRICS (IES files available on our website)



Notes:
- Photometrics based on 35 ft mounting height
- Light levels in foot candles are calculated using 8400 lumens at 4000K color temperature
- To convert to lux multiply light level by 10.7
- Typical lumen levels based off of Type 5 optic with the default profile using neutral white LEDs
- Contact us for help in choosing the right lighting profile and distribution
- Specifications subject to change without notice

ORDER MATRIX

		Solar Engines			Fixture				
Series	Mounting	Finish	Lighting Profiles (Contact us or visit our website for more options)	Mounting	Finish	Distribution	LED Colors	Options
BFL	TM - 3.375 Inch Tenon Mount	BK - Black	TM2300K000 - On at dusk > dim to 50% at 10:00pm > brighten to 100% at 6:00am > off at dawn (Default)	HT - Horizontal Tenon	BK - Black	T2S - Type 2S	XW - 2700K	BLS - Backlight Shield
		BZ - Bronze	00 - Dusk to dawn		BZ - Bronze	T2M - Type 2M	WW - 3000K	
		GY - Gray	02 - On at dusk > dim to 30% after 6 hours > off at dawn		GY - Gray	T3S - Type 3S	NW - 4000K	
		WH - White	09 - On at dusk > dim to 30% after 3 hours > brighten to 100% 1 hour before dawn > off at dawn		WH - White	T3M - Type 3M		
			T300003K000 - Twilead-time based lighting profile, 4+Choose G for cP, L for Low (30%) or M for Medium (50%) or B for Bright, 000=choose event time between 00:00 and 23:59. Second event optional.			T4 - Type 4		
						T5 - Type 5		

First Light Technologies Ltd. | www.firstlighttechnologies.com | info@firstlighttechnologies.com | 1.844.279.8754
BFL: 70-0047 January 2023 © First Light Technologies Ltd.

2 LUMINARY SCHEDULE:

LUMINARY TYPE	DESCRIPTION	MOUNTING	VOLTS	BALLAST TYPE	LAMPS SPECIFICATIONS			TOTAL WATTS	MANUFACTURER	CAT. NO.	REMARKS
					NO.	WATTS	TYPE				
L1	SOLAR LAMP	POLE	--	--	--	--	--	--	FIRST LIGHT	BFL SERIES	1
L2											
L3											

3 LUMINARY SCHEDULE REMARKS:

REMARK NO.	DESCRIPTION
1	PROVIDE A HIGH-PERFORMANCE LITHIUM (LIFEPO4) BATTERY
2	3000 GRADES
3	
4	

KEYED NOTES:

1. "SP" JUNCTION BOX 12" x 12" x 6" FLUSH MOUNTED, FINAL LOCATION TO BE COORDINATED WITH THE OWNER IN THE FIELD.

2 GENERAL NOTES:

1 – UNLESS OTHERWISE INDICATED ALL WIRES AND CABLES SHALL BE #12-AWG. UNLESS OTHERWISE INDICATED ALL WIRES AND CABLES SHALL BE COPPER. UP TO #10-AWG USE WIRE, ALL LARGES SIZES SHALL BE CABLE. CONTROL CABLES TO BE #14 AWG MIN. SIZES.

2 – ALL WIRES AND CABLES SHALL BE THWN/THHN-600V. INSULATION.

3 – UNLESS OTHERWISE INDICATED ALL WIRES AND CABLES SHALL BE COPPER.

4 – PROVIDE GROUND WIRE IN ALL THE CONDUITS.

5 – PROVIDE #12-AWG GREEN JUMPER BETWEEN RECEPTACLE GROUNDING SCREW AND OUTLET BOX GROUNDING SCREW.

6 – UNLESS OTHERWISE INDICATED ALL CONDUITS SHALL BE 3/4" IN DIAMETER MINIMUM.

7 – PROVIDE AN EXPANSION JOINT COUPLING OF THE REQUIRED TYPE AND SIZE WHENEVER A CONDUIT CROSSES AN EXPANSION JOINT.

8 – CONTRACTOR MUST MAKE SURE THAT THE ENTIRE ELECTRICAL SYSTEM HAS GROUND CONTINUITY.

9 – ALL THE ELECTRICAL INSTALLATION SHALL BE DONE IN A NEAT & WORKMANLIKE MANNER, ACCORDING TO THE LAST EDITION OF THE NATIONAL ELECTRICAL CODE, THE PUERTO RICO ELECTRIC POWER AUTHORITY LATEST STANDARDS & THE PUERTO RICO TELEPHONE CO. LATEST PRACTICES.

10 – THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME ACQUAINTED WITH THE EXISTING FIELD CONDITIONS. IT SHALL BE THE DIRECT RESPONSIBILITY OF THE CONTRACTOR TO BRING PROMPTLY TO THE ATTENTION OF THE ENGINEER ANY DISCREPANCIES BETWEEN THE EXISTING FIELD CONDITIONS AND THOSE THAT WERE USED FOR DESIGN PURPOSES. THIS SHALL BE DONE BEFORE THE CONTRACTOR SUBMITS HIS BID, SO THAT THE ENGINEER CAN RENDER A DECISION ON THE MATTER BEFORE THE BIDS ARE RECEIVED. THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTAND THROUGHLY AND COMPLETELY THE SCOPE OF THE WORK INVOLVED, HAS FAMILIARIZED HIMSELF WITH THE EXISTING FIELD CONDITIONS, AND HAS INCLUDED IN HIS BID ALL THE ITEMS NECESSARY TO PERFORM THE ELECTRICAL WORK. NO ALLOWANCE WILL BE PERMITTED ON THIS MATTER AFTER THE BIDS ARE RECEIVED.

11 – UNLESS OTHERWISE INDICATED ALL OUTLETS SHALL BE FLUSH MOUNTED AND SHALL HAVE THEIR OWN INDEPENDENT OUTLET BOXES. MINIMUM SIZE OF OUTLET BOX TO BE 4" SQUARE & 1-1/2" DEEP, EXACT SIZE OF OUTLET BOX SHALL BE DETERMINED ACCORDING TO THE MAXIMUM NUMBER OF CONDUCTORS IN THE BOX PER N.E.C. ARTICLE 314.16.

12 – ALL INDICATED HEIGHTS ARE FROM CENTER OF BOX TO FINISHED FLOOR.

13 – CONTRACTOR SHALL BALANCE ALL LOADS.

14 – ROUTE OF ALL CONDUITS SHOWN IN THE DRAWINGS IS SCHEMATIC AND INTENDED ONLY TO INDICATE INTERCONNECTIONS BETWEEN OUTLETS. EXACT CONDUIT ROUTING SHALL BE DETERMINED AT THE JOB SITE TO CONFORM WITH THE STRUCTURAL CONDITIONS AND SHALL BE SUBJECT TO THE FINAL APPROVAL OF THE ARCHITECT/ENGINEER.

15 – LEAVE A #12-AWG-TW FISHWIRE IN ALL EMPTY CONDUITS.

16 – ALL PANELBOARDS AND LOAD CENTERS SHALL BE PROVIDED WITH A FACTORY INSTALLED GROUND BUS FOR CONNECTING TO GROUND ALL THE GROUND WIRES OR CABLES ENTERING OR LEAVING THE PANELBOARD. THE GROUND BUS SHALL BE SIMILAR IN SIZE AND CHARACTERISTICS TO THE NEUTRAL BUS. ALL PANELBOARDS SHALL HAVE A MONOFLAT FRONT AND KEY LOCK.

17 – WHEN TWO OR MORE WIRING DEVICES ARE SHOWN TOGETHER IN ADJACENT POSITIONS AND AT THE SAME HEIGHT THEY SHALL BE INSTALLED IN A MULTIPLE GANG OUTLET BOX OF THE PROPER SIZE SO THAT ONLY ONE RAISED COVER PLATE OF THE REQUIRED TYPE AND SIZE ARE USED. 120V AND 277V OUTLETS SHALL BE INSTALLED ON SEPARATE BOXES.

18 – UNLESS OTHERWISE INDICATED, ALL WIRING DEVICES SHALL BE WHITE COLORED WITH 302 STAINLESS STEEL COVER PLATES, EXCEPT THE WEATHERPROOF OUTLETS WHICH SHALL HAVE THEIR STANDARD GRAY COVER PLATES.

19 – WHEN TWO OR MORE PANELBOARDS OR CABINETS ARE SHOWN TOGETHER IN ADJACENT LOCATIONS, THE TOP OF ALL PANELBOARDS OR CABINETS SHALL BE ALIGNED WITH THE TOP OF THE BIGGEST ONE SO THAT ALL THE TOPS ARE AT EXACTLY THE SAME HEIGHT FROM THE FINISHED FLOOR.

20 – IN CONDUIT RUNS, THE NUMBER OF ARROWS DESIGNATE THE NUMBER OF CIRCUITS IN THE CONDUIT (ONE POLE IN THE PANELBOARD PER EACH CIRCUIT), THE NUMBER OF LINES DESIGNATE THE NUMBER OF CONDUCTORS IN THE CONDUIT , THE LONGER LINE BEING A NEUTRAL CONDUCTOR AND "/" BEING THE GROUND CONDUCTOR.

21 – CI IN LIGHTING OUTLET, 'C1' INDICATES THE CIRCUIT NUMBER, 'L1' INDICATES THE LUMINARY L1 TYPE FROM THE LUMINARY SCHEDULE AND '1' INDICATES THE SWITCH CONTROLLING UNIT. 1
C3 IN RECEPTACLE OUTLET, 'C3' INDICATES THE CIRCUIT NUMBER.

22 – ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE.

23 – ALL THE SELF-STANDING AND SURFACE MOUNTED ELECTRICAL EQUIPMENT AS WELL AS THE LUMINARIES SHALL BE BRACED FOR SEISMIC SHOCK ACCORDING TO THE SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS. THE SAME APPLIES TO ALL THE CONDUIT WORK. THE DETAILS AND INSTALLATION METHODS IN SAID MANUAL SHALL BE MODIFIED AS REQUIRED TO FIT THE ELECTRICAL INSTALLATION OF THE PROJECT.

24 – FOR FINAL LOCATION OF MECHANICAL EQUIPMENT SEE CORRESPONDING MECHANICAL AND ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL RELOCATE ELECTRICAL ROUGH-IN ACCORDINGLY AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.

25 – CONDUIT WORK:

CONDUIT CONDITIONS						
CONDUIT TYPE	CONDUITS INSTALLED UNDERGROUND	EMBEDDED IN CONCRETE, WALL CONCRETE SLABS & FLOOR SLABS NO DIRECT CONTACT WITH THE EARTH	BETWEEN HUNG CEILING & CEILING SLABS OR GYPSOM WALLS METAL DECKS	EXPOSED IN INDOOR AREAS	EXPOSED IN OUTDOOR AREAS	FINAL CONNECTION TO MECH. EQUIP. AND/OR ELECT. EQUIPMENTS
EMT			●	●		
IMC						
PVC SCH. 40	●	●				
HEAVY WALL RIGID GALV. STEEL					●	
HEAVY WALL RIGID GALV. STEEL PVC COATED.						
LIQUIDTIGHT FLEXIBLE STEEL COND.						●

"ENT" CONDUIT IS NOT ALLOWED IN THIS PROJECT. • • •

26 – ALL WIRES AND CABLES SHALL BE #12-AWG, EXCEPT WHEN OTHERWISE INDICATED IN THE DRAWINGS OR AS INDICATED BELOW FOR 20 AMPS. CKTS. WIRE SIZING:

WIRE SIZE (AWG)	20 AMPS. @ 120V. CIRCUIT (MAX. DISTANCE)	MINIMUM CONDUIT SIZE			
		SINGLE CKT.	TWO CKTS.	THREE CKTS.	FOUR CKTS.
#12	0' TO 100'	3/4"	3/4"	3/4"	1"
#10	101' TO 200'	3/4"	3/4"	1"	1-1/4"
#8	201' TO 300'	3/4"	1"	1-1/4"	1-1/2"
#6	301' TO 400'	1"	1-1/4"	1-1/2"	N/A

27 – ALL PENDANT MOUNTED LUMINARIES SHALL BE INSTALLED USING STEMS, 2 STEMS PER EACH 4' LUMINARY. STEMS SHALL BE PAINTED OF THE COLOR REQUIRED BY THE ARCHITECT.

28 – THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL THE POWER AND CONTROL INTERCONNECTIONS AMONG ALL THE DIFFERENT PARTS OF THE AIR CONDITIONING SYSTEMS (FAN COILS/AHU'S, CONDENSING UNITS, THERMOSTATS, ETC.). THE CONTRACTOR SHALL ALSO PROVIDE ALL THE STARTING AND DISCONNECT EQUIPMENT FOR SAID SYSTEMS.

29 – ALL 15A OR 20A/1P-125V. RECEPTACLES LOCATED OUTDOORS SHALL BE PROVIDED WITH INTEGRAL GROUND FAULT PROTECTION (GFCI) AND WEATHERPROOF COVER PLATES.

30 – WIRES COLOR CODING:

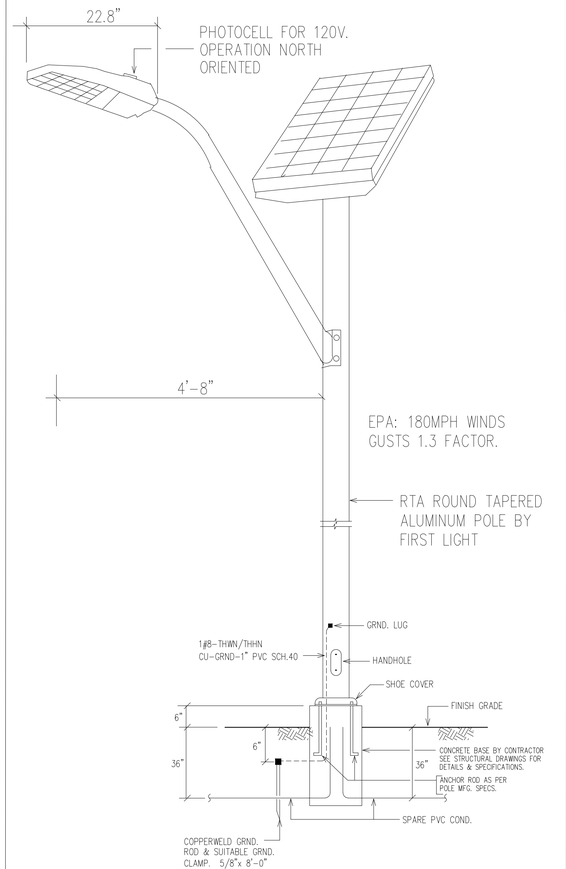
120/208V					277/480V				
#A	#B	#C	N	GROUND	#A	#B	#C	N	GROUND
BLACK	RED	BLUE	WHITE	GREEN	BROWN	ORANGE	YELLOW	LIGHT GRAY	GREEN

31 – ALL LIGHTING AND RECEPTACLE OUTLET SHALL BE IDENTIFIED WITH WHERE INDICATED PANEL AND CIRCUIT WHERE IS CONNECTED.

32 – ALL ELECTRICAL, FIRE ALARM, COMMUNICATION & SECURITY SYSTEM CONDUITS SHALL BE PAINTED WITH EPOXY TYPE ENAMEL PAINT AS PER 'BAXTER'COLOR CODING.

3 LEGEND:

- NEW SOLAR LED STREET POLE. SEE DETAIL #1.
- P — EXISTING AERIAL PRIMARY LINES, TO REMAIN.
- S — EXISTING AERIAL SECONDARY LINES, TO REMAIN.
- T — EXISTING AERIAL TELECOMMUNICATIONS LINES, TO REMAIN.
- SEC — SECURITY "CCTV" SERVICES LINES.
- 'CCTV' SYSTEM CAMERA POLE MOUNTED, EXACT LOCATION TO BE COORDINATED WITH SECURITY CONSULTANT.
- CP EXISTING CONCRETE POLE.
- WP EXISTING WOOD POLE.
- SP EXISTING STEEL POLE.



1 / E300 SOLAR POLE MTD. LUMINARY DETAIL
NOT TO SCALE

SECURITY SYSTEM VERY IMPORTANT NOTE:

1 – FOR TECHNICAL SPECIFICATION, ROUTING AND POINT OF CONNECTION OF THE SECURITY CAMERAS, SEE MUNICIPALITY SECURITY OFFICES FOR DETAILS & SPECIFICATIONS.

2 – SEE DWGS E301 & E302 FOR EXISTING CONDITIONS FOR EACH POLE WHERE THE SECURITY CAMERAS WIIL BE MOUNTED.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527DG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

SHEET TITLE

GENERAL NOTES, LEGEND AND DETAILS

SHEET ID

E300

9/13/2024 7:11:37 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E300.dwg

1 E301 PHOTO #1
GONZALO MARIN ST.

2 E301 PHOTO #2
ARIOSTO CRUZ ST.

3 E301 PHOTO #3
ARIOSTO CRUZ ST.

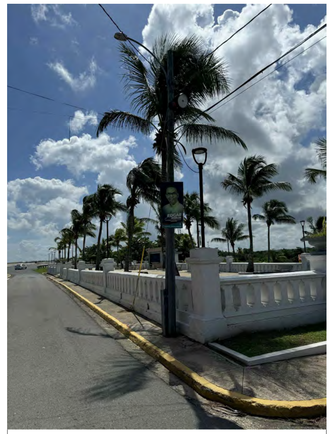
4 E301 PHOTO #4
ARIOSTO CRUZ ST.

5 E301 PHOTO #5
ARIOSTO CRUZ ST.

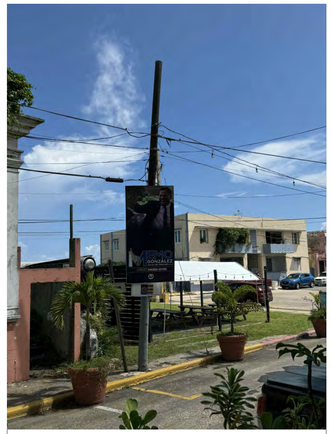
6 E301 PHOTO #6
ARIOSTO CRUZ ST.

7 E301 PHOTO #7
ARIOSTO CRUZ ST.

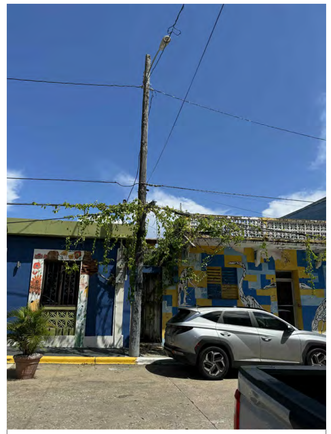
8 E301 PHOTO #8
JOSE DE DIEGO AVE.



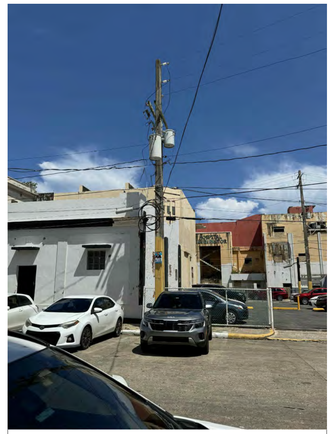
9 E301 PHOTO #9
JOSE DE DIEGO AVE.



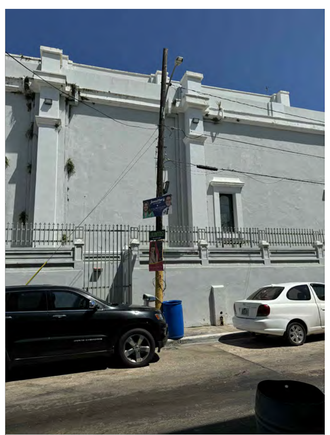
10 E301 PHOTO #10
GONZALO MARIN ST.



11 E301 PHOTO #11
GONZALO MARIN ST.



12 E301 PHOTO #12
GONZALO MARIN ST.

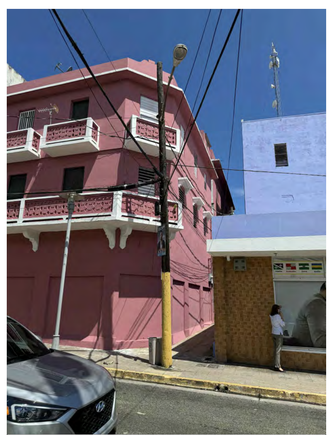


13 E301 PHOTO #13
GONZALO MARIN ST.

14 E301 PHOTO #14
GONZALO MARIN ST.

15 E301 PHOTO #15
GONZALO MARIN ST.

16 E301 PHOTO #16
PALMA ST.



17 E301 PHOTO #17
RAMÓN E. BETANCES ST.

18 E301 PHOTO #18
RAMÓN E. BETANCES ST.

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN
3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.
Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONÓ Y/O DISEÑÓ Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERCIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO — PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

SHEET TITLE

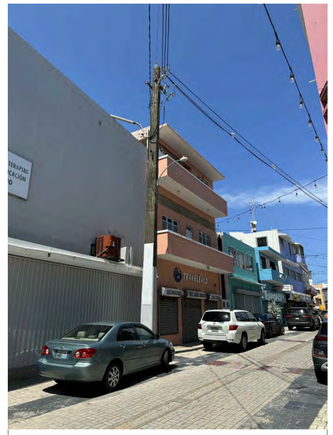
PHOTOS - EXISTING CONDITIONS SHEET #1

SHEET ID

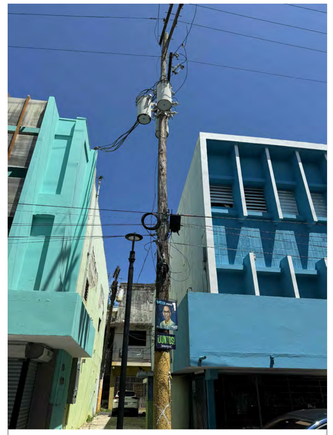
E301

9/12/2024 10:40:53 PM C:\Users\Luis Perez\Documents(3).JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E301.dwg

19 E302 PHOTO # 19
RAMÓN E. BETANCES ST.

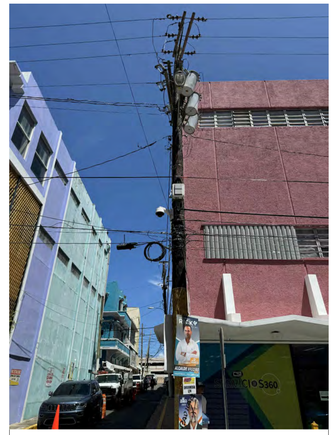


19 E302 PHOTO # 20
JOSÉ DE DIEGO AVE.



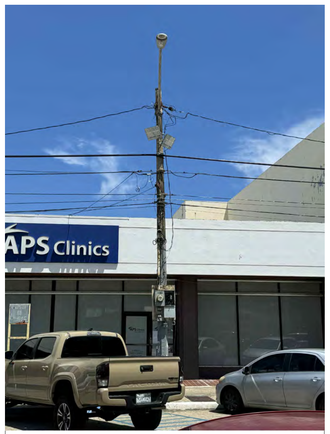
21 E302 PHOTO # 21
JOSÉ DE DIEGO AVE.

22 E302 PHOTO # 22
JOSÉ DE DIEGO AVE.

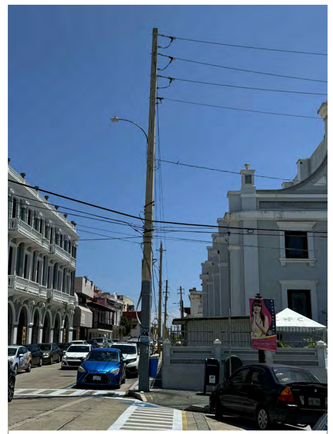


23 E302 PHOTO # 23
JOSÉ DE DIEGO AVE.

24 E302 PHOTO # 24
JOSÉ DE DIEGO AVE.

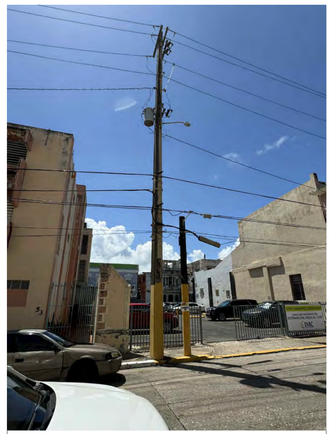


25 E302 PHOTO # 25
JOSÉ DE DIEGO AVE.



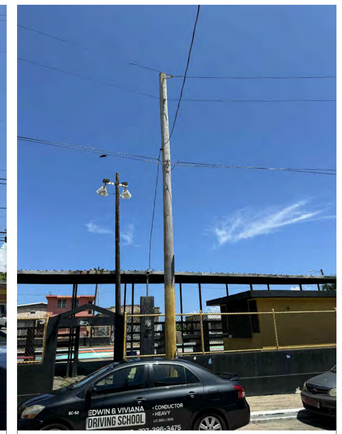
26 E302 PHOTO # 26
JOSÉ DE DIEGO AVE.

27 E302 PHOTO # 27
JOSÉ DE DIEGO AVE.



28 E302 PHOTO # 28
JOSÉ DE DIEGO AVE.

29 E302 PHOTO # 29
JOSÉ DE DIEGO AVE.



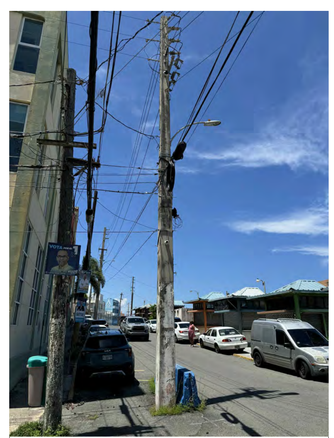
30 E302 PHOTO # 30
JOSÉ DE DIEGO AVE.

31 E302 PHOTO # 31
ANTONIO ROMERO ST.

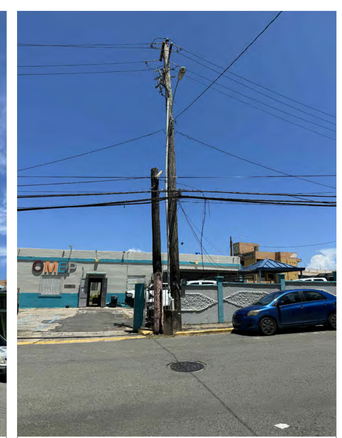
32 E302 PHOTO # 32
ANTONIO R. BARCELO ST.

33 E302 PHOTO # 33
ANTONIO ROMERO ST.

34 E302 PHOTO # 34
ANTONIO ROMERO ST.



35 E302 PHOTO # 35
ANTONIO ROMERO ST.



36 E302 PHOTO # 36
ANTONIO ROMERO ST.

9/12/2024 10:40:27 PM C:\Users\Luis Perez\Documents\3) JOBS\RJR-24-09 CALLES\DWGS 09.12.2024\E302.dwg

OWNER

Ave. Jose de Diego #100
Arecibo, P.R. 00613-1086
Office Telephone:
(787) 882-2770
https://arecibo.pr.gov

CONSULTANT

BR&A LLC
PROJECT MANAGEMENT • ENGINEERING • DESIGN

3100 Rd. 199 SUITE 203
SAN JUAN, P.R. 00926
Office Telephone:
(787) 707-1717
br@brapr.com

CONSULTANT

RJR ENGINEERING, P.S.C.
Ramón Javier Ramírez, P.E.

Calle 527OG-23 Country Club, Carolina, PR 00982
Cel. 787-636-4239
e-mail: rjr.engineering@gmail.com

SEAL

YO, RAMÓN J.RAMIREZ VARONA, LIC. 13069, CERTIFICO QUE SOY EL PROFESIONAL QUE CONFECCIONO Y/O DISEÑO Y/O PREPARÓ ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE CONSTRUCCIÓN VIGENTES DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY NÚM. 14 DEL 8 DE ENERO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA Y CON LA (LEY NÚM. 319 DEL 15 MAYO DE 1938 , SEGÚN ENMENDADA; LEY NÚM. 96 DEL 6 DE JULIO DE 1978, SEGÚN ENMENDADA; SEGÚN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIONES DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MÍ, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA OGPE.

PROJECT INFORMATION

PR-CRP-000768
URBAN STREETS AND
SIDEWALKS RESTORATION
MUNICIPALITY OF ARECIBO

ARECIBO PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE
1	30% DESIGN DRAWINGS	02/23/24
2	50% DESIGN DRAWINGS	03/21/24
3	75% DESIGN DRAWINGS	06/18/24
4	85% DESIGN DRAWINGS	08/22/24
5	90% DESIGN DRAWINGS	08/24/24
6	95% DESIGN DRAWINGS	09/12/24

DATE ISSUED:	09/13/2024
REVIEWED BY:	RJR
DRAWN BY:	LAPD
DESIGNED BY:	LAPD
BRA PROJECT NUMBER:	24-09

SHEET TITLE

PHOTOS - EXISTING CONDITIONS SHEET #2

SHEET ID

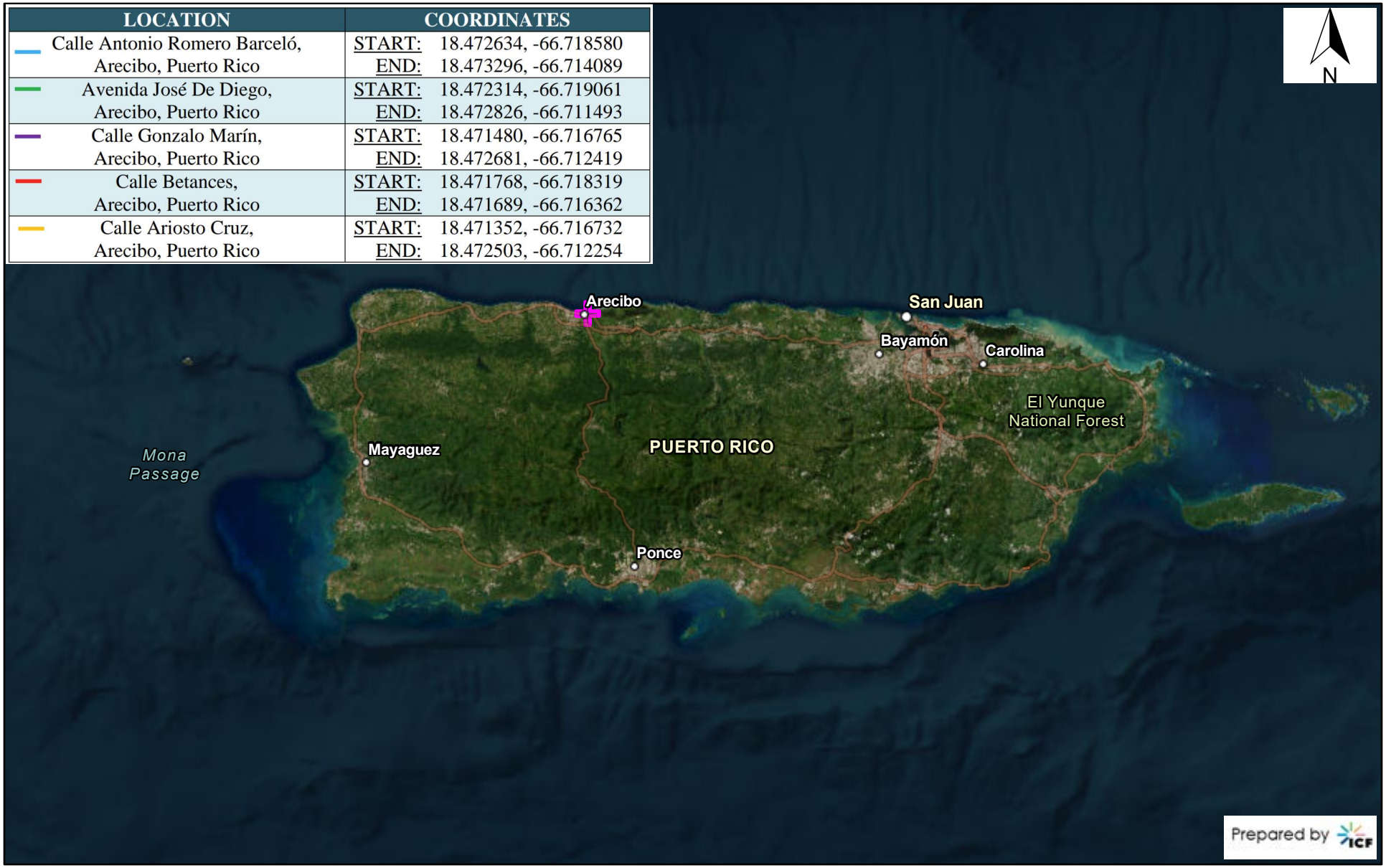
E302

Appendix N:
Sole Source Aquifers

PR-CRP-000768 Sole Source Aquifers Map

Address: Arecibo, PR 00612

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254



August 26, 2025

Project Location

Source: EPA NEPAssist

1:1,155,581

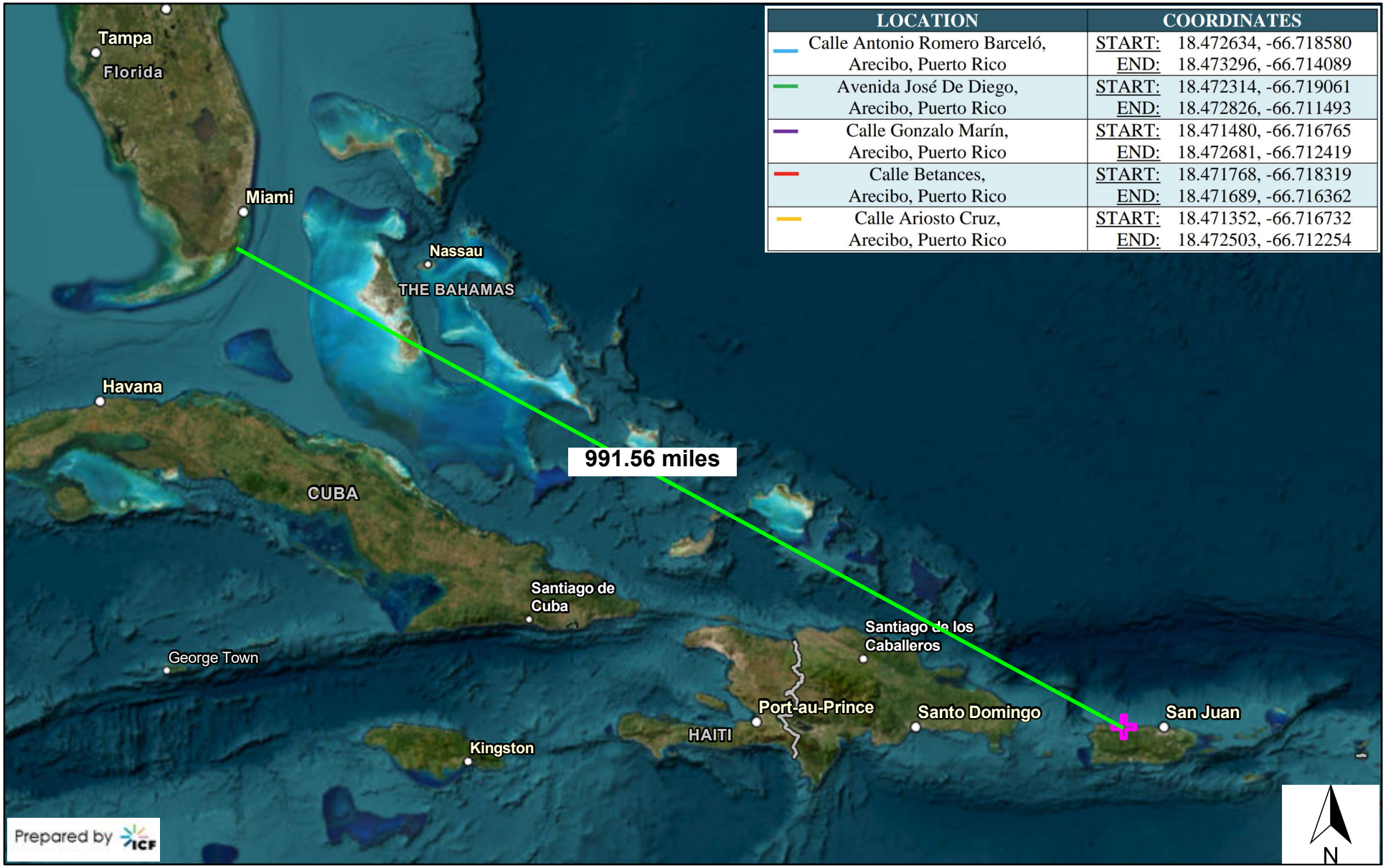
0 5 10 20 mi

0 15 30 60 km

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

PR-CRP-000768 Sole Source Aquifer Distance Map

Address: Arecibo, PR 00612



LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254

August 26, 2025

1:9,244,649

0 70 140 280 mi

0 115 230 460 km

Project Location

Source: EPA NEPAssist

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

*Please note that the Sole Source Aquifer layer is not visible at the extent required to display both the project location and the nearest sole source aquifer on the map

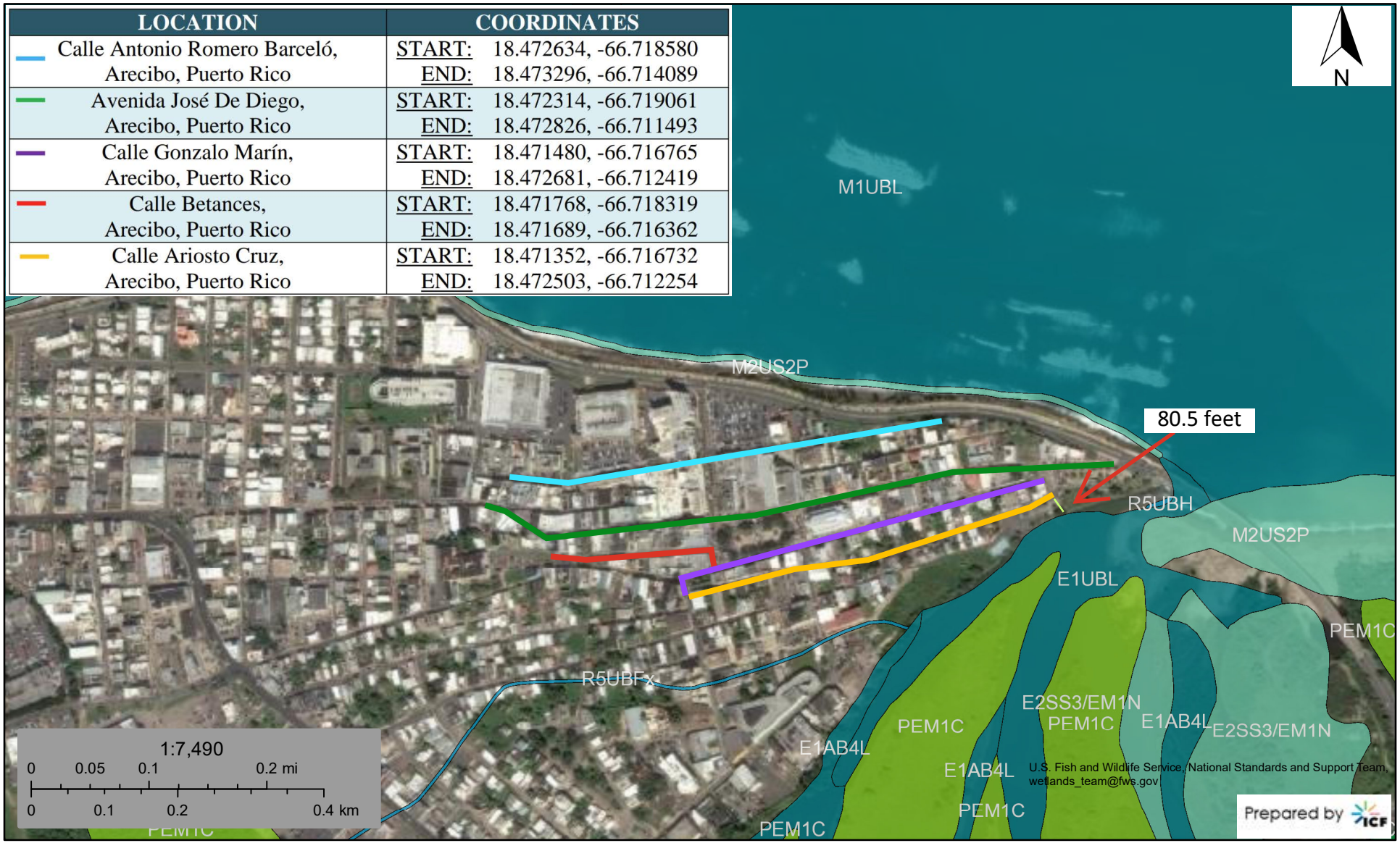
Appendix O:
Wetlands Protection

PR-CRP-000768 Wetlands Map

Address: Arecibo, PR 00612

U.S. Fish and Wildlife Service
National Wetlands Inventory

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254



August 26, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Appendix P:
Wild and Scenic Rivers

PR-CRP-000768 Wild and Scenic Rivers Map

Address: Arecibo, PR 00612

LOCATION	COORDINATES
Calle Antonio Romero Barceló, Arecibo, Puerto Rico	START: 18.472634, -66.718580 END: 18.473296, -66.714089
Avenida José De Diego, Arecibo, Puerto Rico	START: 18.472314, -66.719061 END: 18.472826, -66.711493
Calle Gonzalo Marín, Arecibo, Puerto Rico	START: 18.471480, -66.716765 END: 18.472681, -66.712419
Calle Betances, Arecibo, Puerto Rico	START: 18.471768, -66.718319 END: 18.471689, -66.716362
Calle Ariosto Cruz, Arecibo, Puerto Rico	START: 18.471352, -66.716732 END: 18.472503, -66.712254

August 27, 2025

Project Location

Wild and Scenic Rivers

Source: EPA NEPAssist

1:577,791

0 4.75 9.5 19 mi

0 5 10 20 km

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