

**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: Rotonda PR-865 int. Ave. Campanilla

Project ID: PR-CRP-000993

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

Grant Recipient: Municipality of Toa Baja

State/Local Identifier: Puerto Rico/Municipality of Toa Baja

Preparer: Eng. Armando González, Engineer in Training
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Certifying Officer Name and Title:

Juan Carlos Perez-Bofill -	Director, Disaster Recovery CDBG-DR
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Abdul Feliciano Plaza -	Permits and Environmental Compliance Specialist
Javier Mercado Barrera -	Permits and Environmental Compliance Specialist

Consultant: Metric Engineering of Puerto Rico, PSC

Direct Comments to: PR Department of Housing,
environmentcdbg@vivienda.pr.gov

Project Location: PR-865 intersection with Ave. Campanilla, Bo. Media Luna,
Toa Baja, Puerto Rico
Coordinates center of roundabout: 18.422301°, -66.231912°
Staging area coordinates: 18.425291°, -66.229143°
Cadaster Numbers: no cadaster exists for this road, staging
area 060-000-009-86-000

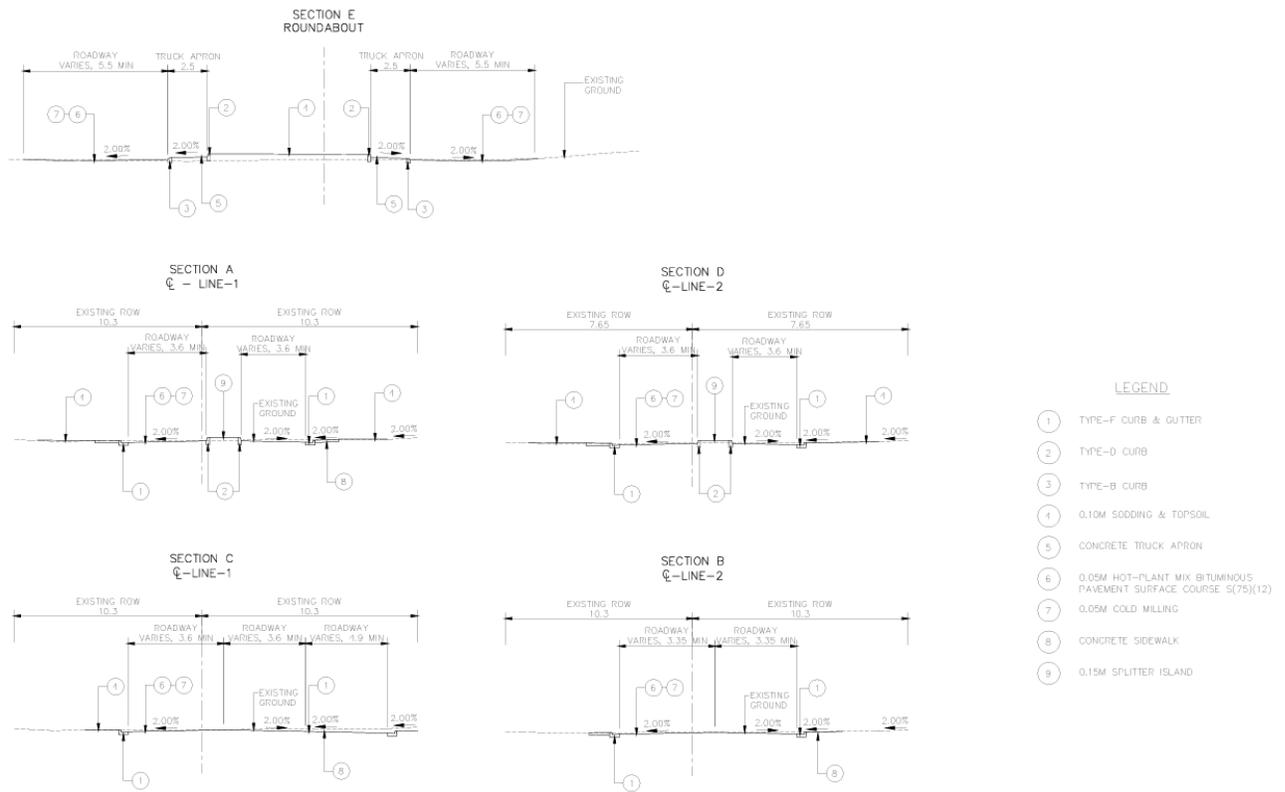


Figure 3: Proposed Cross Section PR-CRP-000993 (from drawing GR-5)



Figure 4: Conceptual image for roundabout

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

The Puerto Rico Department of Housing (PRDOH) is proposing the reconstruction of the unsignalized intersection on PR-865 at Campanilla Avenue and replacing it with a single lane roundabout. The primary goal of the road improvements is to improve mobility along the road, reduce vehicular point of conflict due to the entrance-exist of the residential developments provide safe, convenient, and attractive crossing for pedestrians and bicyclists, and improve connectivity and circulation between PR-865 and Campanilla Avenue area.

The project footprint will cover 5,217 square meters (approx. 1.3 acres) (Appendix A.1a). The project will be limited to existing roadways and right of way; therefore, ground disturbance as a result of construction activities will be minimal. The staging area will be limited to the machinery yard of the Public Works Department of the municipality of Toa Baja, located 0.19 miles northeast of the roundabout and measuring approximately 21,616 square meters (approx. 5.34 acres) (see image in Figure 1 and Appendix A.1b).

Roundabout Benefits:

- Saves lives:
 - Reduction in fatalities,
 - Reduction in injury crashes,
 - Reduction in pedestrian crashes,
 - Reduction in conflict points.
- Slower vehicle speed,
- Efficient traffic flow,

- Reduction in pollution and fuel use,
- Potential money saved,
- Improve Aesthetic landscaping.

Improvements will consist of:

1. Pavement preservation and/or reconstruction
 - a. Asphalt pavement rehabilitation by means of cold milling and resurfacing of existing asphalt pavement
 - b. 80 square meters of new pavement construction including excavation at a maximum of 3 feet in depth in undisturbed areas, and filling fill sub-base, base, and asphalt surface
2. Roundabout construction, measuring approximately 24.55 meters in diameter and a maximum subsurface depth of 20 centimeters
3. Sidewalk preservation and/or construction
 - a. Reconstructed sidewalk or construct them when it is required. New sidewalks will measure approximately 1.55 meters wide and 10 centimeters deep
 - b. Project will comply with ADA¹
4. Maintenance of Traffic (MOT)
5. Improvements to storm runoff system, repairing drains & sewer system
6. Replacement of pavement markings and use of retroreflective devices (raised pavement markers)
7. Speed reduction at pedestrian crossings
8. Solar lighting poles system, installed to a maximum subsurface depth of 40 centimeters and a maximum diameter of 25 centimeters
9. Installation of traffic signs
10. Urban landscape improvements
11. Evaluation of asphalt surfaces, crosswalks, and handicapped ramps, and electrical design improvements that comply with current codes and regulations

Funding Information

Grant Numbers	HUD Program	Funding Amount
B-17-DM-72-0001	Community Development Block Grant - Disaster Recovery (CDBG-DR)	\$11,938,162,230
B-18-DP-72-0001		
B-19-DP-78-0002		
B-18-DE-72-001		

Estimated Total HUD Funded Amount: \$713,453.50

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]:
 \$713,453.50 (only HUD funds will be used for the project development)

¹ ADA - Americans with Disabilities Act.

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

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

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The nearest civil airport, Fernando Luis Ribas Dominicci (SIG) is approximately 9.01 mi (approx. 47,573 feet) away and the nearest military airport, Luis Muñoz Marín (SJU) is approximately 14.57 mi (approx. 76,930 feet) away from the proposed project location. The project location is outside an Accident Potential Zone (APZ) or Runway Protection Zone/Clear Zone (RPZ/CZ), thus the proposed action is in compliance with Airport Hazards requirements. Refer to: Appendix A.2. Airport Hazard Map
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The closest resource units are located: <ul style="list-style-type: none"> • The Punta Salinas Unit PR 86-P (labelled as an Otherwise Protected Area) is located 3.86 miles (approx.. 20,381 ft) north of the project site. • The Punta Vacía Talega Unit PR-87P (labelled as an Otherwise Protected Area) and Unit PR-87 is located 16.26 miles (approx. 85,853 ft) east of the project site. The proposed project is not located within a Coastal Barrier Resources Unit. Therefore, this project has no potential to impact a CBRS Unit and is in compliance with the Coastal Barrier Resources Act. Refer to: Appendix A.3. Coastal Barrier Resources Map
Flood Insurance Flood Disaster Protection Act of 1973 and National	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	According to the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM), the project site is located in Zone of minimal flood hazard, or

<p>Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]</p>		<p>"Zone X." FIRM Map Quadrangle is 72000C0340H with effective date: 04/19/2005. Furthermore, the project does not involve activities that will change or modify the flood zone and the project does not include any structures that require Flood Insurance.</p> <p>Refer to:</p> <p>Appendix A.4. Flood Insurance Map</p>
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STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5

<p>Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93</p>	<p>Yes No <input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>According to the U.S. Environmental Protection Agency's (USEPA) Online Green Book (refer to Appendix E.1.EPA Green Book), Toa Baja, Sabana Seca Ward has been designated as "Non-attainment for Sulfur Dioxide (2010)" for 1-hour SO₂. This non-attainment zone is at least 0.73 miles from the proposed project (Appendix A.5). The sources of these emissions are: PREPA: 1) San Juan and 2) Palo Seco. This coincides with information from the US Environmental Protection Agency (EPA) that indicates that the largest source of sulfur dioxide comes fuel use from power plants and other industrial sources (https://www.epa.gov/so2-pollution/sulfur-dioxide-basics). Sulfur emissions may also be produced by heavy equipment in the road, or other vehicles that burn fuel with high sulfur content, which is not the case for individually owned cars or vehicles which mostly use low sulfur gasoline. Emissions associated with the proposed project are estimated to be well below the threshold when compared to the federal General Conformity Rule de minimis thresholds.</p> <p>Construction activities such as cleaning, grubbing, earth movement and the demolition of road structures produce particulates and conditions in which soil could be exposed to wind erosion and airborne particulates. During construction the proposed action could generate emissions (particulate material, hydrocarbons, nitrogen oxide, sulfur dioxide, among others) in addition to those produced during the operation of the existing roads of the area. For the most part those emissions would be produced by the operation of the heavy equipment and</p>
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		<p>machinery used during the construction process.</p> <p>Potential air quality impacts would be minor and temporary during the construction period. Implementation construction related air pollution controls (fugitive dust control and heavy equipment emissions controls) would reduce potential impacts. This temporary effect is not significant and would not have an adverse impact on the residential, institutional, and commercial properties located near the project area. The proposed project is not expected to have an adverse impact on the air quality and is not expected to result in non-attainment levels. In terms of vehicle emissions, the Department of Transportation indicates that, in general, roundabouts experience lower emission from vehicles due to less stop-and-go traffic patterns (https://safety.fhwa.dot.gov/intersection/roundabouts/fhwasa15071.pdf). Other sources point to similar determinations (https://www.sciencedirect.com/science/article/pii/S2352146517305057/pdf?md5=48bc0e79fce92e085de792cfe63ab7ca&pid=1-s2.0-S2352146517305057-main.pdf), which leads to the conclusion that the proposed roundabout will not adversely impact the air quality in the area but could improve it.</p> <p>The project is in compliance with the Clean Air Act. Refer to: Appendix A.5. Clean Air Act Map</p>
<p>Coastal Zone Management</p> <p>Coastal Zone Management Act, sections 307(c) & (d)</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project is located approximately 1.82 mi (approx. 9,610 feet) outside the Coastal Zone boundary. The proposed project does not affect a coastal zone as defined in the Coastal Zone Management Document. This project complies with the Coastal Zone Management Act without further evaluation.</p> <p>Refer to: Appendix A.6.Coastal Zone Management Act Map</p>
<p>Contamination and Toxic Substances</p>	<p>Yes No <input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>There are four EPA-regulated facilities located within the buffer zone (3000-ft) of the proposed project. The EPA-regulated facilities are:</p>

<p>24 CFR Part 50.3(i) & 58.5(i)(2)</p>		<p>1) Centro Camiones 2) United Parcel Service (UPS) 3) Environmental Management Services 4) Hill Construction Corp</p> <p>None of these facilities have an identified compliance violation. While sites 3 and 4 are not adjacent to the project, sites 1 and 2 are within the project buffer. The facilities will not be impacted, nor will the project development and intended use be impacted as a result of these facilities, as there will be no ground disturbance outside of existing roadways. The project does not propose development, construction, or rehabilitation that will increase residential densities. Thus, no further analysis is required.</p> <p>An environmental site inspection was conducted on 3/22/2023 by Metric Engineering. The environmental site inspection did not identify any visible contamination.</p> <p>The project consists of improvements to a roadway that will not result in permanent occupation of the project site. Therefore, an analysis of previous uses of the project site is not required, according to 24 CFR 50.3 (i)(2). The Lead and Asbestos analysis for the proposed project concluded that two metal guardrails contain Lead-Based Paint (LBP). No Asbestos-Containing Material (ACM) was detected on the project site. The guardrails with positive LBP measurements will be removed, replaced, and properly disposed of according to safety regulations.</p> <p>Evidence supports the determination that the identified hazard will not affect the health and safety of the project users or conflict with its intended use. This includes any required mitigation measures. Thus, the project is in compliance with 24 CFR Part 50.3(i) & 58.5(i)(2).</p> <p>Refer to: Appendix A.7 EPA Facility Map, Appendix E.2. Lead and Asbestos Reports, Appendix E.3. ECHO Reports.</p>
<p>Endangered Species</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>According to the US Fish and Wildlife Service's (USFWS) Information for Planning and Consulting (IPaC) tool, the following listed</p>

<p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>		<p>species may occur within or near the proposed project site: <u>Endangered:</u></p> <ul style="list-style-type: none"> • Puerto Rican Boa (<i>Chulabothrus Inornatus</i>) • <i>Daphnopsis helleriana</i> - Flowering Plant <p><u>Threatened:</u></p> <ul style="list-style-type: none"> • Palo De Rosa (<i>Ottoschulzia rhodoxylon</i>) <p>None of these species were found in the project area because it is located within the existing right-of-way and no vegetation will be impacted. 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 contractor shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa.</p> <p>There is a Critical Habitat for the Coqui Llanero near the project area (~2,320 ft/0.44 mi) and staging area, which will be limited to the machinery yard of the Public Works Department (~633 ft/0.12 mi) (Appendix A.8a and b). No adverse impacts are anticipated as the proposed project activities will be performed in the right of way and within the previously developed area.</p> <p>As such, the proposed project complies with criteria established in the US Fish and Wildlife Service's Blanket Clearance Letter (BCL) issued on January 14, 2013. A Self-Certification to fulfill requirements related to the Blanket Clearance Letter was prepared and submitted to comply with Section 7 of the Endangered Species Act (ESA) April 23, 2024. Based on the information provided, the agency determined that the proposed activities qualify for the blanket clearance letter. The USFWS indicates that if the project is modified the USFWS "should be contacted concerning the need for the initiation of consultation under Section 7 of ESA of 1973." With this document, the agency concurs that the project is not likely to adversely affect federally-listed species. Thus, the project is in compliance with the Endangered Species Act and further actions are needed.</p> <p>Refer to: Appendix B. USFWS Documentation Appendix A.8a. Project Location Critical Habitat Map</p>
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		Appendix A.8b. Staging Area Critical Habitat Map
<p>Explosive and Flammable Hazards</p> <p>24 CFR Part 51 Subpart C</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project does not involve the development, construction, or rehabilitation that will increase residential density or conversion. Examination of aerial views and street views show no above ground storage tanks within the acceptable separation distance that would not be blocked by intervening public infrastructure. Thus, the project is in compliance with explosive and flammable hazard requirements. It is important to note that the project would involve temporary tasks during construction that possibly require the use of a power generator, heavy machinery, and diesel tanks. During construction the project shall meet requirements for fuel management and spill containment.</p>
<p>Farmlands Protection</p> <p>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project does not involve any activities that could convert farmland to non-farmland use, such as new construction, acquisition of undeveloped land, or land conversion. According to data from the National Resources Conservation Service's Web Soil Survey, half of the proposed project is located within the classification of prime farmland and the other half is located in not prime farmland. However, according to the definitions at 7 CFR Part 658.2(a), "farmland" does not include land already in urban development (all such land with a density of 30 structures per 40-acre area). The site is already developed, consisting of an existing road, and is situated within an urban area. Therefore, there will be no impacts on prime farmlands, as the proposed project will remain within the existing footprint. Since the area is already being used as a roadway and not as farmland, no impacts will occur.</p> <p>According to the Land Use Plans, the project site soil is classified as urban/residential/light industrial. This supports the determination of no impacts to farmland areas. The project complies with the Farmland Protection Policy Act.</p> <p>Refer to: Appendix A.9. Farmlands Protection Policy Act Maps Appendix A.9.b. Land Use Plan Soil Classification Map Appendix A.9.c. Land Use Plan Soil Rating Map</p>
<p>Floodplain Management</p>	<p>Yes No</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>According to the Federal Emergency Management Agency's (FEMA) Advisory Base Flood Elevation (ABFE) map, the</p>

<p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p>project area is within the 1% Annual Chance of Flood (Zone A). Therefore, the decision-making process "8-step Analysis" of the direct and indirect impacts associated with the construction, occupancy, and modification of the floodplain was performed. An early notice was published in the Primera Hora newspaper on 3/11/2024, followed by a 15-day public comment period. A final notice was published in the Primera Hora newspaper on 6/17/2024, followed by a 7-day public comment period. No comments were received in response to the early or final public notices.</p> <p>Relocating the project was deemed impractical because 63% of Toa Baja is within flood zones, making relocation ineffective in achieving the municipality's goals of revitalization and increased resilience. Similarly, the no-action alternative was impractical as it would fail to improve the intersection's infrastructure, thus not contributing to a safer and more efficient community. The proposed project, despite being in Zone A, includes measures to mitigate floodplain impacts, such as allowing stormwater to percolate naturally and following the terrain's contours. The project does not increase population density or pose additional risks to human life; instead, it reduces vehicular conflict points by 75% and vehicular-to-pedestrian conflict points by 66.7%, improving connectivity and circulation between Campanilla Avenue, PR-867, and PR-865.</p> <p>The project will not modify the current floodplain footprint or adversely impact the base flood elevation, and it will not alter the area's hydraulic characteristics. Therefore, while the relocation and no-action alternatives are impracticable, the proposed project supports the municipality's efforts to create a more resilient and safer community without negatively impacting the floodplain's management. The project is in compliance with flood insurance requirements and the floodplain management regulations.</p> <p>Refer to: Appendix A.4. Flood Insurance Map,</p>
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		Appendix A.10. ABFE Map Appendix D.8. Step Documentation
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	Consultation with the Puerto Rico State Historic Preservation Office (SHPO) was submitted and, as per letter dated February 8, 2024, SHPO concurred with the determination of No Historic Properties Affected within the project's area of potential effects . Therefore, the proposed action is in compliance with Section 106 of the NHPA and no further actions need to be performed, unless project conditions change. The project complies with National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800. Refer to: Appendix C. Cultural Resources Documentation
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 <input type="checkbox"/> <input checked="" type="checkbox"/>	The proposed actions are not expected to result in a permanent increase in the noise level of the area. During construction, temporary increases in noise levels may occur due to the use of heavy machinery. However, these noise levels are not anticipated to be excessive or significantly disturb the surrounding environment. Noise levels will be incidental to construction and levels in the nearby residential neighborhood are not expected to increase following construction of the project because there is no anticipated increase of traffic density or other noise contributors. Noise assessment is required only if the project is for new construction or rehabilitation for residential use. Thus, no noise assessment is required for this project and the project is in compliance with the Noise Control Act.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	There are no EPA sole source aquifers in Puerto Rico. Furthermore, the project consists of activities that are unlikely to have an adverse impact on groundwater resources. The project is in compliance with Sole Source Aquifer requirements. Refer to: Appendix A.11. Sole Sources Aquifer Map
Wetlands Protection	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project site is not located within designated wetland units and is situated at least 303 feet from the nearest wetland. No

<p>Executive Order 11990, particularly sections 2 and 5</p>		<p>wetlands are mapped within the staging area, which will be limited to the machinery yard of the Public Works Department of the municipality of Toa Baja located 0.19 miles northeast of the roundabout. The nearest wetland to the staging area is 88 feet to the east. Consequently, the proposed actions are not expected to have any adverse impacts on nearby wetlands. Erosion and sediment control measures will be implemented to mitigate any potential adverse effects from stormwater. This project complies with Executive Order 11990.</p> <p>Refer to:</p> <p>Appendix A.12a. Project Location Wetland Map</p> <p>Appendix A.12b. Staging Area Wetland Map</p>
<p>Wild and Scenic Rivers</p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project is not located within or near any designated Wild and Scenic Rivers in Puerto Rico. Notably, Puerto Rico has only three designated Wild and Scenic Rivers—Río de la Mina, Río Icacos, and Río Mameyes—situated at least 31.8 miles east of the project site. While Puerto Rico has approximately 5,385 miles of rivers, only 8.9 miles are classified as wild and scenic, representing less than 0.2% of the island's river miles. Consequently, this project will not impact any designated Wild and Scenic Rivers and is in compliance with the Wild and Scenic Rivers Act.</p> <p>Refer to:</p> <p>Appendix A.13. Wild Scenic River Map</p>
<p>ENVIRONMENTAL JUSTICE</p>		
<p>Environmental Justice</p> <p>Executive Order 12898</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>According to information published by the Environmental Protection Agency (EPA), EJ Screen, within a one-mile radius of the project's roundabout center point, the socioeconomic indicators are slightly higher for percentages of people of color (100%), low-income people (73%), and unemployment (16%) when compared with the average island values of 97%, 70% and 14%, respectively. However, the project does not benefit any particular socioeconomic or minority group because the road will remain for public use and the activity will not significantly alter the ambient</p>

		<p>conditions for the community identified in the area.</p> <p>No adverse environmental impacts were identified in any other compliance review portion of this project that may disproportionately affect low-income and/or minority communities. Therefore, the project complies with Executive Order 12898.</p> <p>Refer to:</p> <p>Appendix G EJ Screen Community Report</p>
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Field Inspection (Date and completed by):
March 22, 2023, and completed by Ing. Wilfredo R. Cordero

Refer to: **Appendix F: Site Inspection** for details and photos.

Summary of Findings and Conclusions:

The proposed project involves road improvements in Toa Baja, Puerto Rico, and has been evaluated for compliance with relevant statutes, executive orders, and regulations. The staging area will be limited to the machinery yard of the Public Works Department of the municipality of Toa Baja located 0.19 miles northeast of the roundabout to avoid risk of impacts to nearby wetlands and critical habitat. The project is expected to yield several beneficial impacts, including improved traffic flow, enhanced safety, reduced vehicle emissions due to the implementation of a roundabout, and better stormwater management.

However, there will be minor, temporary impacts during construction, such as increased emissions from heavy machinery, fugitive dust, and a rise in noise levels. These impacts will be mitigated through best management practices such as dust, emissions and erosion and sedimentation control.

Mitigation measures will be needed to comply with regulations for the Puerto Rican Boa, floodplain management, and contamination and toxic substances. If a Puerto Rican Boa is found on-site, work will cease until the Boa moves off on its own, or the Puerto Rico Department of Natural and Environmental Resources will be contacted for relocation. Post-construction monitoring will assess ongoing impacts, and standard construction best management practices (BMPs) will control erosion and runoff. For contamination and toxics, the two metal guardrails with positive LBP measurements will be removed, replaced, and properly disposed of according to safety regulations.

The project does not have any adverse environmental effects and does not require further consultation with federal agencies. No additional formal compliance steps are needed. Overall, the project complies with applicable statutes, executive orders, and regulations, with necessary mitigations to avoid significant adverse impacts. The project will enhance mobility along the road, reduce vehicular conflict points at residential developments, provide safe and attractive crossings for pedestrians, cyclists, and other uses. It will also improve connectivity and circulation between PR-865 and the Campanilla Avenue area.

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

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

Law, Authority, or Factor	Mitigation Measure
Endangered Species	<i>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.</i>
Floodplain Management	<i>Stormwater best practices include allowing stormwater to percolate naturally and following the terrain's contours during construction (See Appendix D. 8 Step Documentation) for more details. Standard Construction BMPs would be used to Control Erosion and Runoff during Construction</i>
Contamination and Toxic Substances	<i>The guardrails with positive LBP measurements will be removed, replaced, and properly disposed of according to safety regulations. The project will involve temporary tasks during construction that may require the use of a power generator, heavy machinery, and diesel tanks. During construction, the project shall meet requirements for fuel management and spill containment.</i>
Clean Air	<i>Contractors will be required to implement best management practices (BMPs) during construction to reduce potential impacts related to air pollution from sources such as fugitive dust and heavy equipment/power generator emissions.</i>

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: Armando González **Date:** 08/30/2024
Armando González / Engineer in Training/ Metric Engineering of
Name/Title/Organization: Puerto Rico, PSC

Responsible Entity Agency Official Signature (Certifying Officer):
Santa O. Ramírez Lebrón **Date:** 9.17.2024
Name/Title: Santa Ramírez Lebrón / Permits and Environmental Compliance Specialist

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

List of attachments

Appendix A. Maps and Figures

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3. Coastal Barrier Resources Map
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5. Clean Air Act Map
6. Coastal Zone Management Act Map
7. EPA Facilities Map:
8. Critical Habitat Map
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9. Farmlands Protection Policy Act Maps
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 - b. Land Use Plan Soil Classification Map
 - c. Land Use Plan Soil Rating Map
10. Advisory Base Flood Elevation (ABFE) Map
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Appendix B. USFWS Documentation

Appendix C. Cultural Resources Documentation

Appendix D. 8 Step Documentation

Appendix E. Contamination and Toxic Substances

1. EPA Green Book
2. Lead and Asbestos Report
3. Summary Table EPA Facilities and ECHO Reports

Appendix F Site Visit Report

Appendix G EJ Screen Community Report

Appendix A: Maps and Figures

1. Location Map
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10. Advisory Base Flood Elevation (ABFE) Map
11. Sole Source Aquifers Map
12. Wetlands Protection Map
 - a. Project Location
 - b. Staging Area
13. Wild and Scenic Rivers Map

City Revitalization Program
PR-CRP-000993
Rotonda PR-865 int. Ave. Campanilla, Campanilla



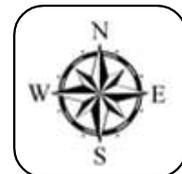
Google Earth

Location Map
&
Project Footprint

Legend

-  Project site
-  Project Footprint

Project Location:
Int. PR-865 at Ave.
Campanilla,
Bo. Media Luna,
Toa Baja, PR 00949
Latitude: 18.422301°
Longitude: -66.231948°



Source: Google Earth Image Landsat Copernicus Data SIO, NOAA, US, Navy, GEBCO Image date: 04/08/2016
Google Earth Url: <https://earth.google.com/web/@18.43933864,-66.21559787,3.3858443a,1000.00114247d,30y,0h,0i,0r/data=OgMKATA>

Appendix A.1b. Staging Area Map

PR-CRP-000993 Rotonda PR-865 int. Ave. Campanilla, Campanilla

Coord: 18.422301° -66.231948°

Address: Int. PR-865 at Ave. Campanilla, Bo. Media Luna, Toa Baja, PR 00949



Source: Google Earth (Spatial Reference: WGS84), accessed July 18, 2024 at URL <https://earth.google.com/>

City Revitalization Program
 PR-CRP-000993
 Rotonda PR-865 int. Ave. Campanilla, Campanilla



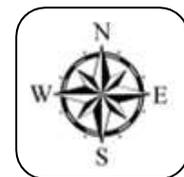
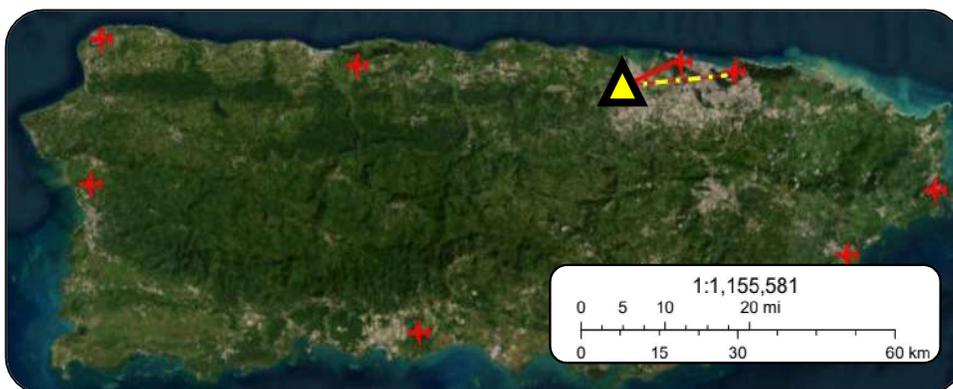
Airport Map

Legend

-  Project site
-  Luis Muñoz Marín Airport
-  Fernando Luis Ribas Dominicci (SIG)
-  Airport



Project Location:
 Int. PR-865 at Ave.
 Campanilla,
 Bo. Sabana Seca,
 Toa Baja, PR 00949
 Latitude: 18.422301°
 Longitude: -66.231948°



Source: NEPAssist, Esri, HERE, Garmin, Foursquare, SafeGraph, METI/NASA, USGS, NPS, EPA OEI
 NEPAssist Url: <https://nepassisttool.epa.gov/nepassist/nepamap.aspx?wherestr=Toa+Baja>

City Revitalization Program
 PR-CRP-000993
 Rotonda PR-865 int. Ave. Campanilla, Campanilla



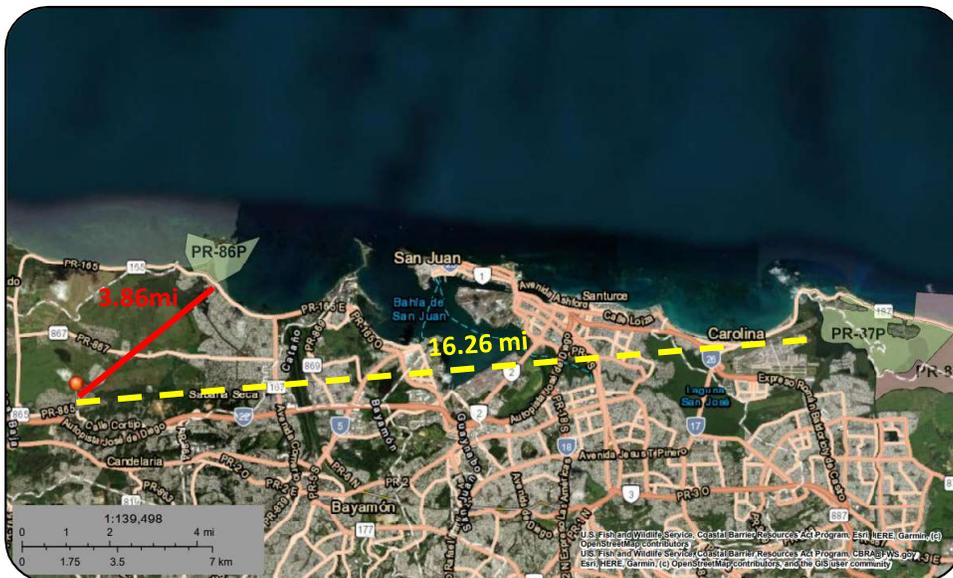
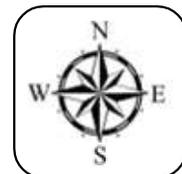
USFWS
 Coastal Barrier System
 Unit Map

LEGEND

CBRS Units

-  Project site
-  CBRS Buffer Zone
-  CBRS Prohibitions
-  Otherwise Protected Area
-  System Unit

Project Location:
 Int. PR-865 at Ave. Campanilla,
 Bo. Media Luna,
 Toa Baja, PR 00949
 Latitude: 18.422301°
 Longitude: -66.231948°



Source: Mapper v2 <https://fwsprimary.wim.usgs.gov/CBRSMapper-v2/>

City Revitalization Program
 PR-CRP-000993
 Rotonda PR-865 int. Ave. Campanilla, Campanilla



FEMA
FIRMette Map

National Flood Hazard Layer FIRMette



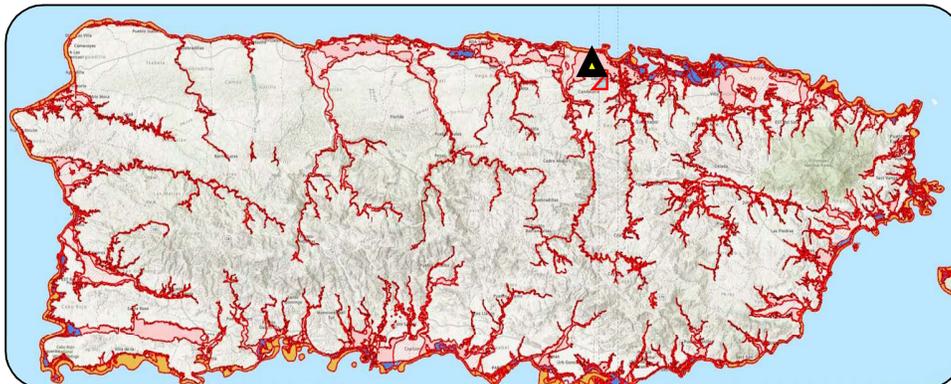
Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

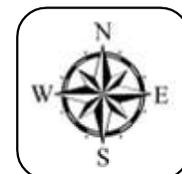
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, X, AE9
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of 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
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

Project site

Project Location:
 Int. PR-865 at Ave. Campanilla,
 Bo. Media Luna,
 Toa Baja, PR 00949
 Latitude: 18.422301°
 Longitude: -66.231948°



Source: FEMA Flood Map Service <https://msc.fema.gov/portal/search?AddressQuery=-66.030570%C2%80%2C%2018.235075%C2%80>



City Revitalization Program
 PR-CRP-000993
 Rotonda PR-865 int. Ave. Campanilla, Campanilla



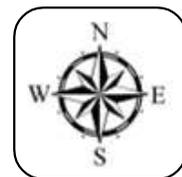
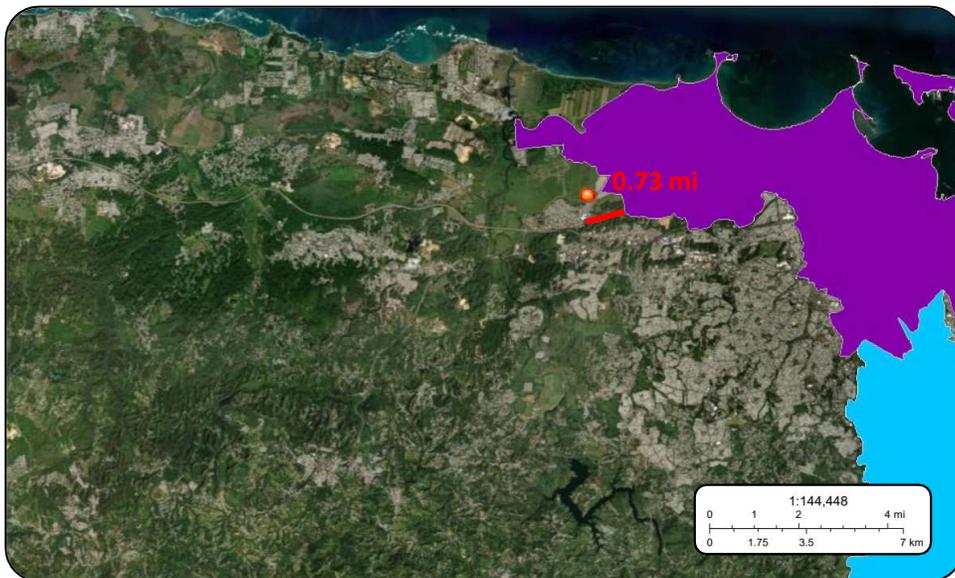
Nonattainment, attainment, and maintenance Map

Legend

-  Project site
-  SO₂ (2010 Standard) Nonattainment
-  PM₁₀ (1987 Standard) Maintenance
-  Lead (2008 Standard) Nonattainment

Project Location:

Int. PR-865 at Ave. Campanilla,
 Bo. Media Luna,
 Toa Baja, PR 00949
 Latitude: 18.422301°
 Longitude: -66.231948°



Source: NEPAssist, Esri, HERE, Garmin, Foursquare, SafeGraph, METI/NASA, USGS, NPS, EPA OEI
 NEPAssist Url: <https://nepassisttool.epa.gov/nepassist/nepamap.aspx?wherestr=Toa+Baja>

City Revitalization Program
 PR-CRP-000993
 Rotonda PR-865 int. Ave. Campanilla, Campanilla



Programa de Manejo de la Zona Costanera
 Coastal Zone Management Program

**Coastal Zones Inland
 Boundary Map**

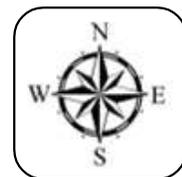
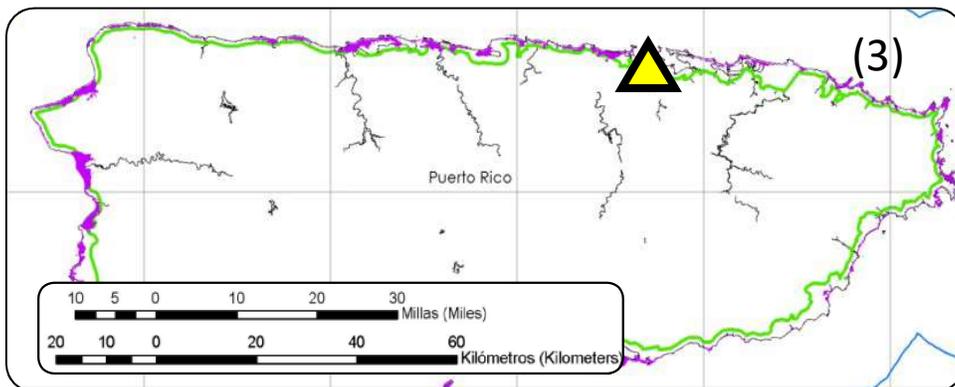
Legend: Map (1)&(2)

-  Project site
-  CZMA Boundary
-  Project Footprint

Legend: Map (3)

-  Project site
-  Límite de Zona Costanera
Tierra adentro – Coastal
Zone Inland Boundary
-  Zona de Riesgo a
Tsunamis – Tsunami
Hazard Zones

Project Location:
 Int. PR-865 at Ave.
 Campanilla,
 Bo. Media Luna,
 Toa Baja, PR 00949
 Latitude: 18.422301°
 Longitude: -66.231948°



Source: US National Oceanic and Atmospheric Administration <https://koordinates.com/layer/20522-us-coastal-zone-management-act-boundary/>

City Revitalization Program
PR-CRP-000993
Rotonda PR-865 int. Ave. Campanilla, Campanilla



EPA Facilities Map

Legend: Map (1)&(2)

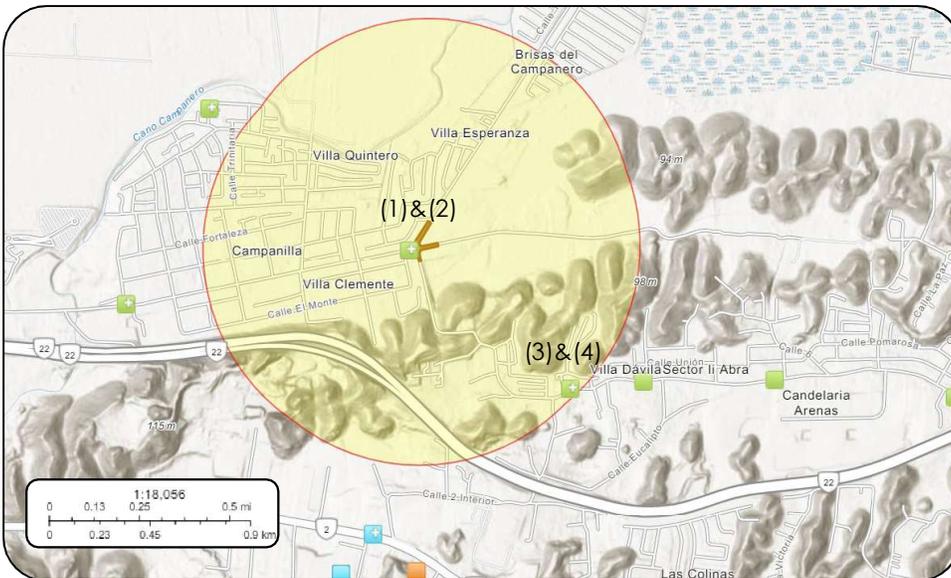
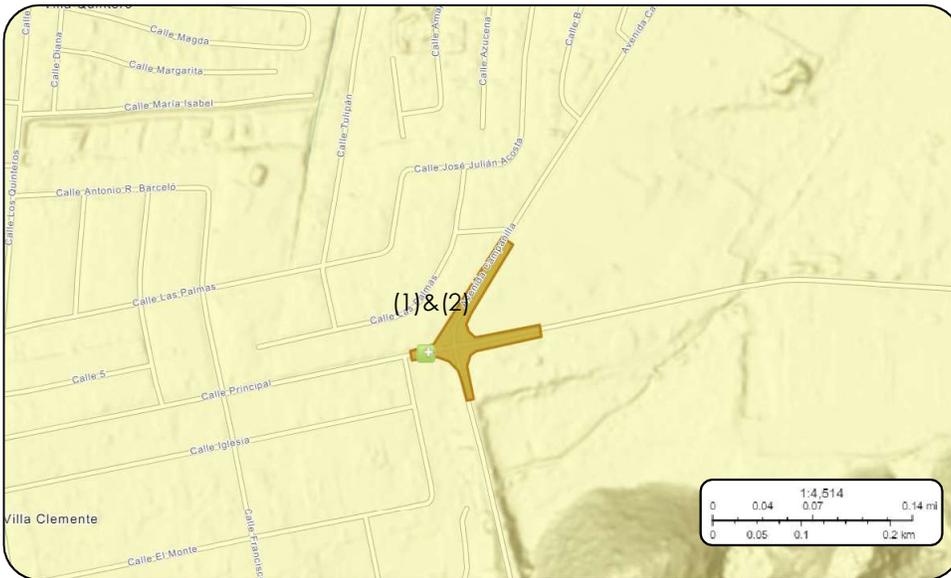
-  Project site
-  3000-FT Project Buffer
-  Hazardous Waste (RCRA)
-  Water Discharge (NPDES)

EPA Facilities:

- (1) Centro Camiones
- (2) United Parcel Services
- (3) Environmental Management Services
- (4) Hill Construction Corp

Project Location:

Int. PR-865 at Ave. Campanilla,
Bo. Media Luna,
Toa Baja, PR 00949
Latitude: 18.422301°
Longitude: -66.231948°



Source: NEPAassist, Esri, HERE, Garmin, Foursquare, SafeGraph, METI/NASA, USGS, NPS, EPA OEI
NEPAassist Url: <https://nepassisttool.epa.gov/nepassist/nepamap.aspx?wherestr=Toa+Baia>

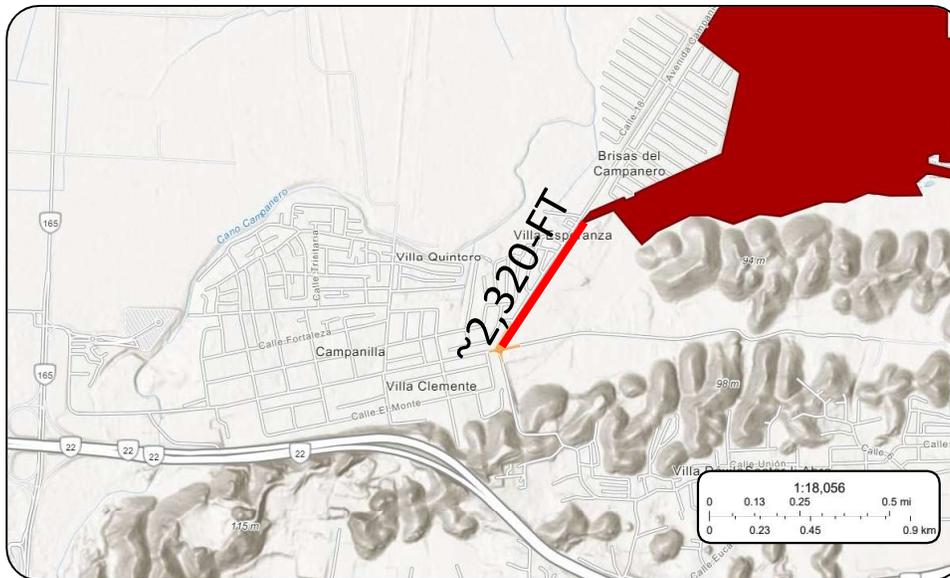
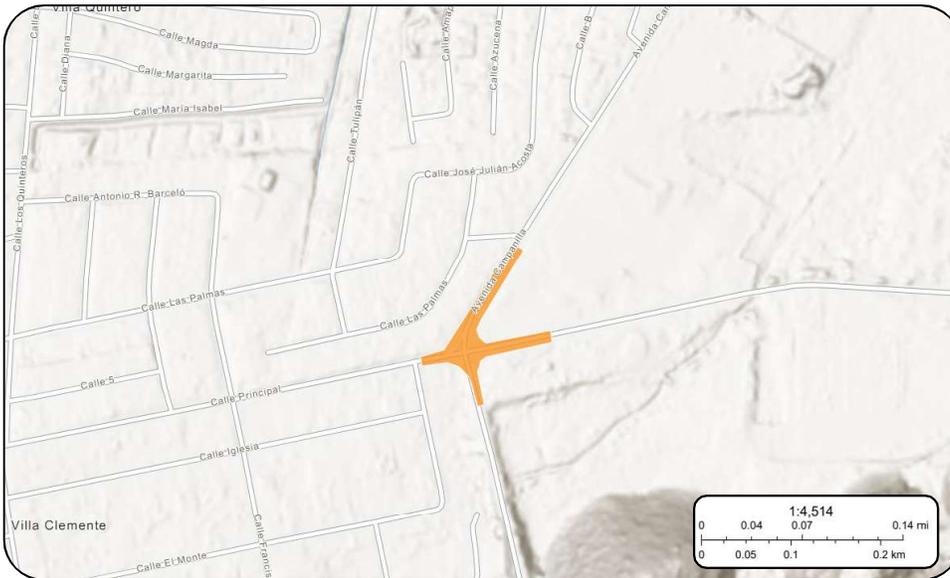
City Revitalization Program
 PR-CRP-000993
 Rotonda PR-865 int. Ave. Campanilla, Campanilla



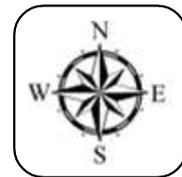
Critical Habitat Map

Legend

-  Project site
-  Critical Habitat- Coqui Llanero
-  ~2,320-FT from the Project



Project Location:
 Int. PR-865 at Ave.
 Campanilla,
 Bo. Media Luna,
 Toa Baja, PR 00949
 Latitude: 18.422301°
 Longitude: -66.231948°



Source: NEPAassist, Esri, HERE, Garmin, Foursquare, SafeGraph, METI/NASA, USGS, NPS, EPA OEI
 NEPAassist Url: <https://nepassistool.epa.gov/nepassist/nepamap.aspx?wherestr=Toa+Baja>

Appendix A.8a. Project Critical Habitat Map

Appendix A.8b. Staging Area Critical Habitat Map

PR-CRP-000993 Rotonda PR-865 int. Ave. Campanilla, Campanilla

Coord: 18.422301° -66.231948°

Address: Int. PR-865 at Ave. Campanilla, Bo. Media Luna, Toa Baja, PR 00949



Source: EPA NEPassist (Spatial Reference: GRS80), accessed July 18, 2024 at URL <https://nepassisttool.epa.gov/nepassist/nepamap.aspx>

City Revitalization Program
PR-CRP-000993
Rotonda PR-865 int. Ave. Campanilla, Campanilla



Land Use Plan Soil
Classification Map

Legend: Map (1)&(2)

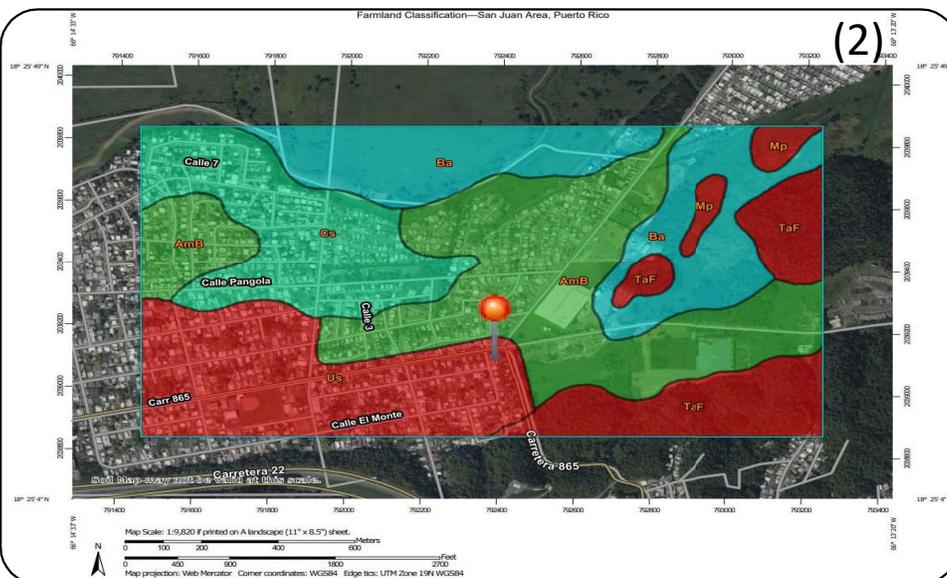
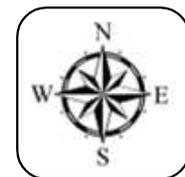
Project site

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

Project Location:
Int. PR-865 at Ave.
Campanilla,
Bo. Media Luna,
Toa Baja, PR 00949
Latitude: 18.422301°
Longitude: -66.231948°

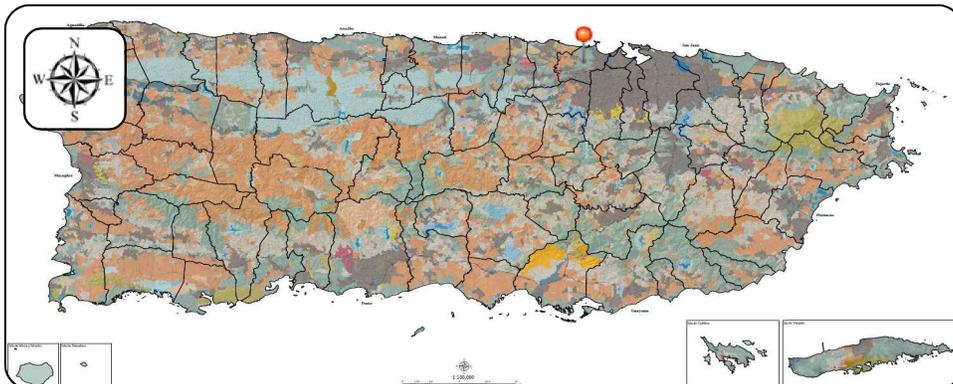
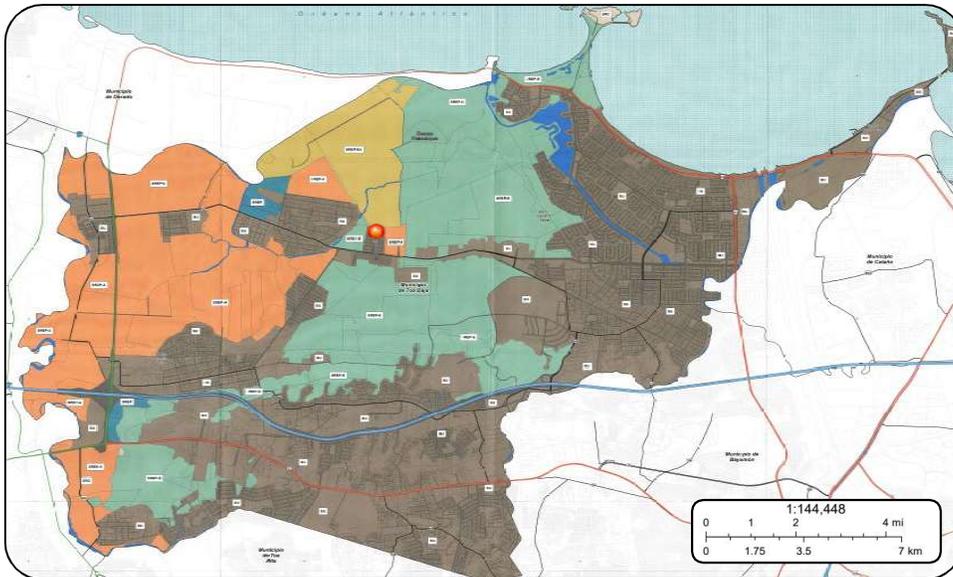
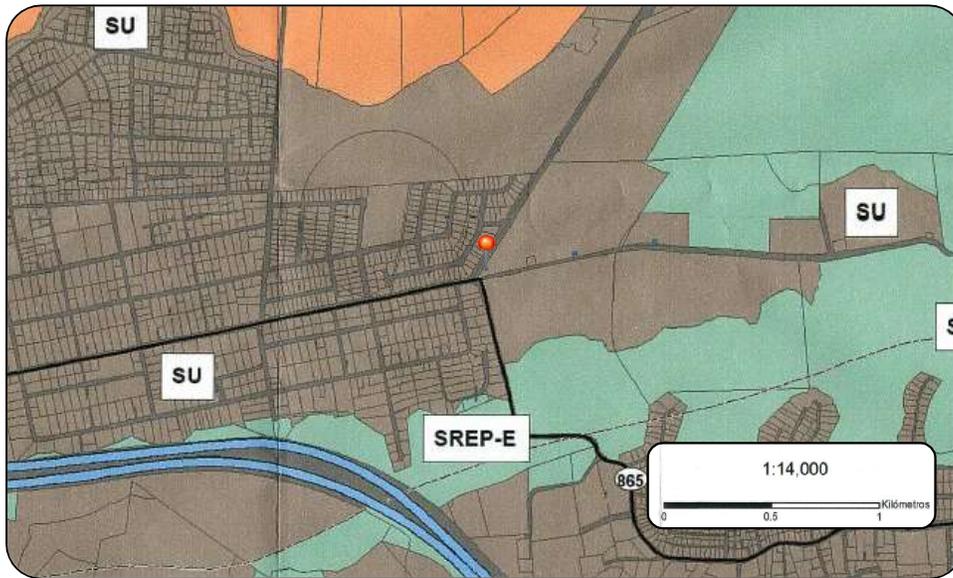


Source: Web Soil Survey <https://websoilsurvey.nrcs.usda.gov/app/>

City Revitalization Program
 PR-CRP-000993
 Rotonda PR-865 int. Ave. Campanilla, Campanilla



Land Use Plan Soil Classification Map



Clasificación

Suelo Rústico Especialmente

- Protegido-Ecológico
- Protegido
- Protegido-Agrícola
- Protegido-Ecológico/Agrícola
- Suelo Urbano
- Suelo Rústico Común

Elemento geográfico

- Sistema Vial
- Cuerpo de Agua

Red Vial

- Autopista
- Red Primaria
- Red Pimaria Urbana
- Red Secundaria
- Red Terciaria

- Limite de Municipio
- Limite de Barrio

- Project Site

Project Location:
 Int. PR-865 at Ave.
 Campanilla,
 Bo. Media Luna,
 Toa Baja, PR 00949
 Latitude: 18.422301°
 Longitude: -66.231948°

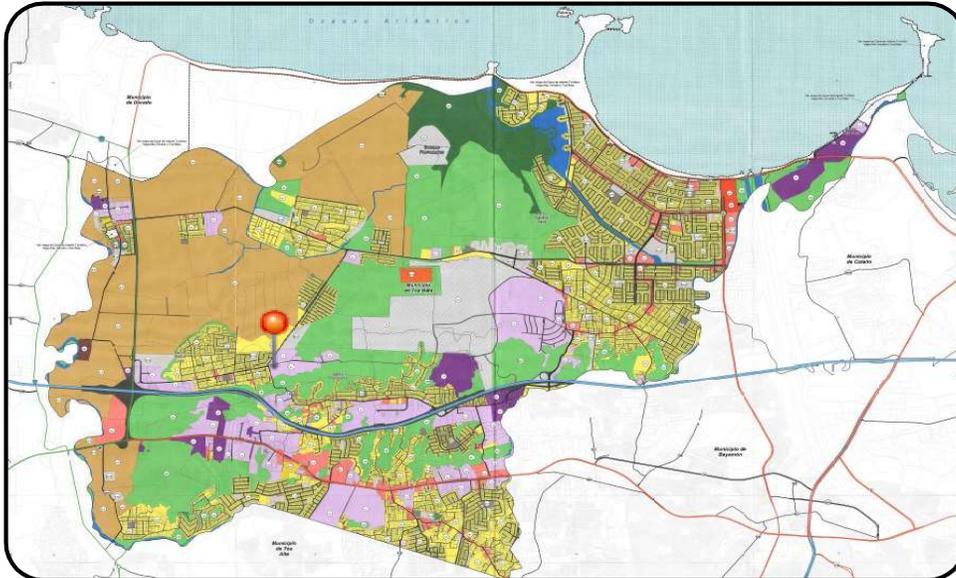
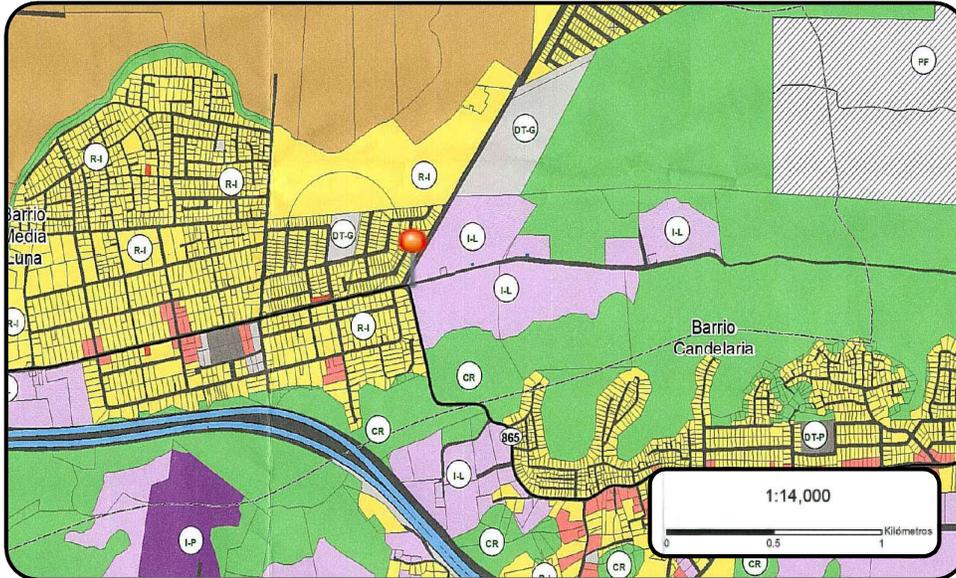


Source: Junta de Planificación <https://jp.pr.gov/plan-de-usos-de-terrenos/>

City Revitalization Program
PR-CRP-000993
Rotonda PR-865 int. Ave. Campanilla, Campanilla



Land Use Plan Soil Rating Map



Calificación

- A-P: Agrícola Productivo
- C-I: Comercial Intermedio
- C-L: Comercial Liviano
- CRH: Conservación y Restauración
- CR: Conservación de Recursos
- DT-G: Dotacional General
- DT-P: Dotacional Parque
- I-L: Industrial Liviano
- I-P: Industrial Pesado
- PF: Propiedad Federal
- PP: Playas Públicas
- PR: Preservación de Recursos
- R-A: Residencial de Alta Densidad
- R-I: Residencial Intermedio
- RC-E: Recreación Comercial Extensa
- RC-M: Residencial Comercial Mixto
- SH: Sitio Histórico

Elemento geográfico

- Cuerpo de Agua
- Sistema Vial

Red Vial

- Autopista
- Red Primaria
- Red Primaria Urbana
- Red Secundaria
- Red Terciaria
- Límite de Municipio
- Límite de Barrio
- Límite de ZIT

Project Site



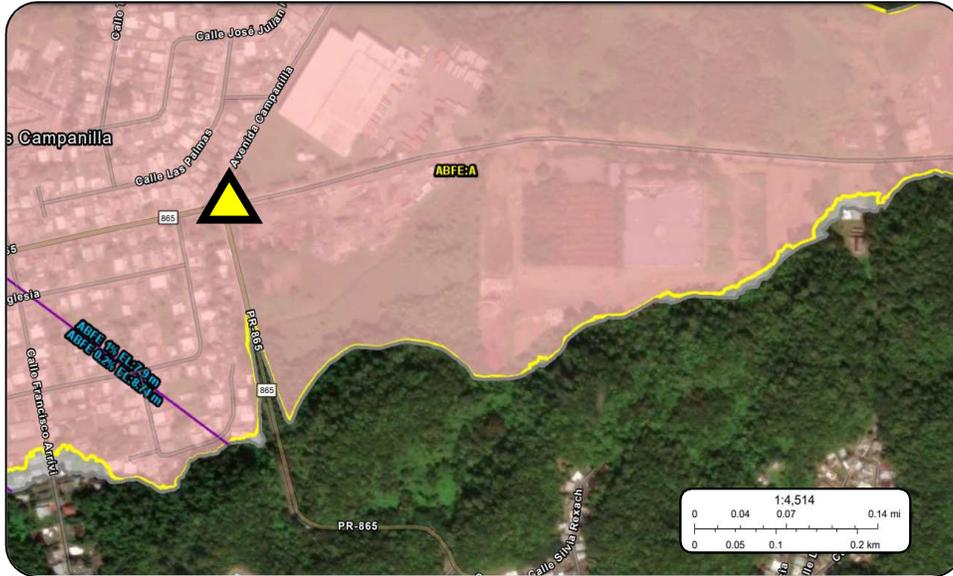
Source: Junta de Planificación <https://jp.pr.gov/plan-de-usos-de-terrenos/>

City Revitalization Program
 PR-CRP-000993
 Rotonda PR-865 int. Ave. Campanilla, Campanilla



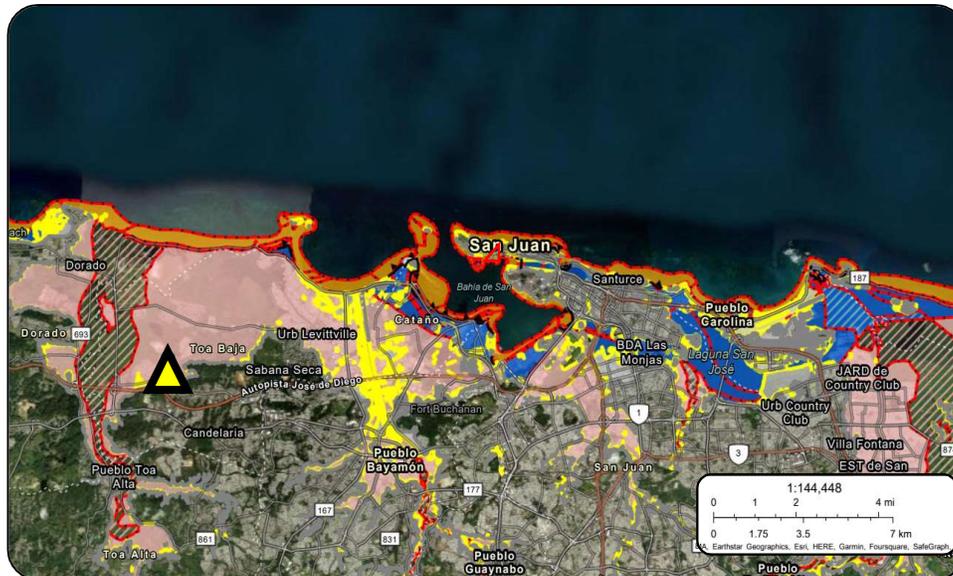
FEMA

Advisory Base Flood Elevations (ABFE's)



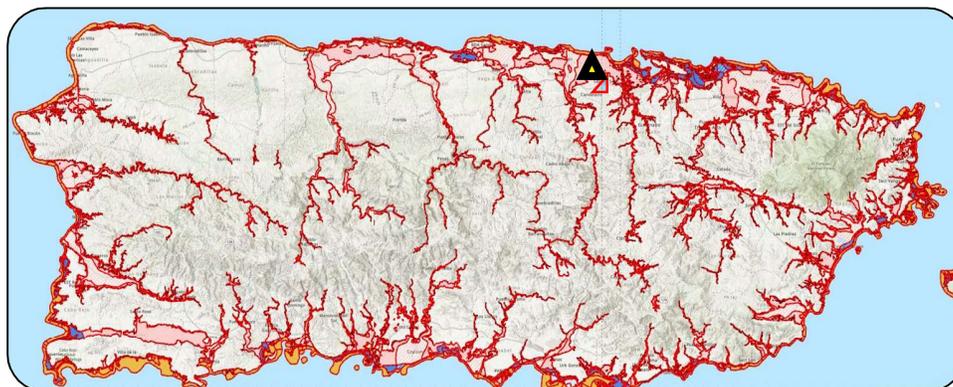
Puerto Rico ABFE 1PCT

- Streamline (zoom in to make visible)
- Advisory Base Flood Elevation (zoom in to make visible)
- Flood Hazard Boundary (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



Project Site

Project Location:
 Int. PR-865 at Ave. Campanilla,
 Bo. Media Luna,
 Toa Baja, PR 00949
 Latitude: 18.422301°
 Longitude: -66.231948°

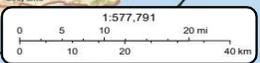
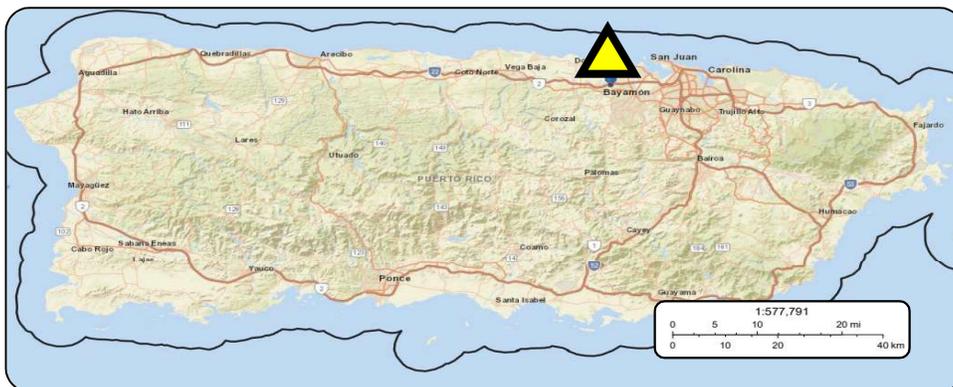
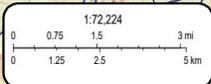
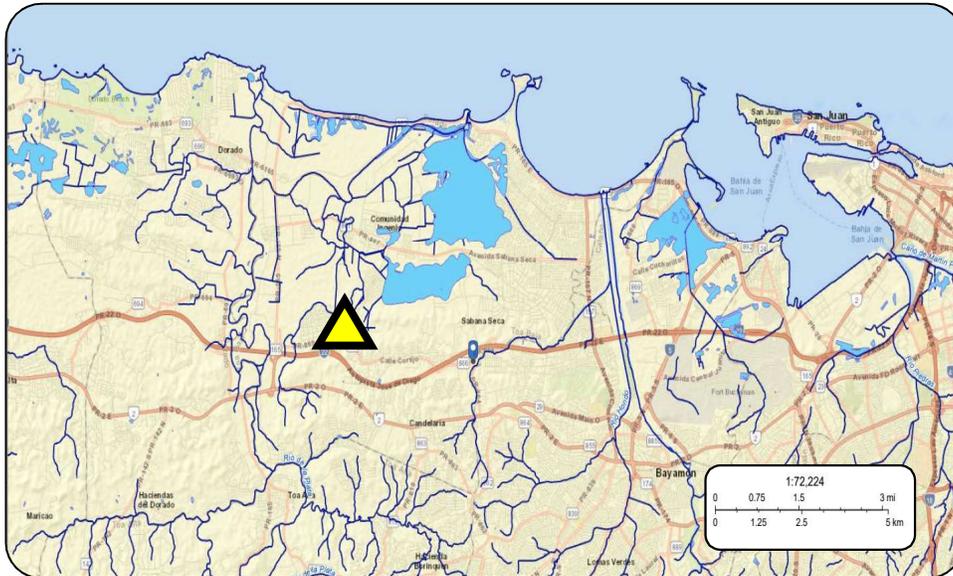
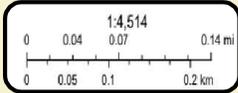


Source: Advisory Base Flood Elevation: <https://gis-2-fema.hub.arcgis.com/apps/FEMA:puerto-rico-advisory-base-flood-elevations-ables/explore>

City Revitalization Program
PR-CRP-000993
Rotonda PR-865 int. Ave. Campanilla, Campanilla



Sole Source Aquifer Map



- Sole_Source_Aquifers**
- Counties**
- Flowlines**
- Surface Water Features**
- Waterbodies**
- NHD Waterbody FTYPE Codes**
- NHD Flowline FTYPE codes**

Project Site

Project Location:
Int. PR-865 at Ave. Campanilla,
Bo. Media Luna,
Toa Baja, PR 00949
Latitude: 18.422301°
Longitude: -66.231948°



Source: NEPAstist, Esri, HERE, Garmin, Foursquare, SafeGraph, METI/NASA, USGS, NPS, EPA OEI
NEPAstist Url: <https://nepastistool.epa.gov/nepastist/nepamap.aspx?wherestr=Toa+Baja>

Appendix A.11. Sole Source Aquifer Map

City Revitalization Program
 PR-CRP-000993
 Rotonda PR-865 int. Ave. Campanilla, Campanilla

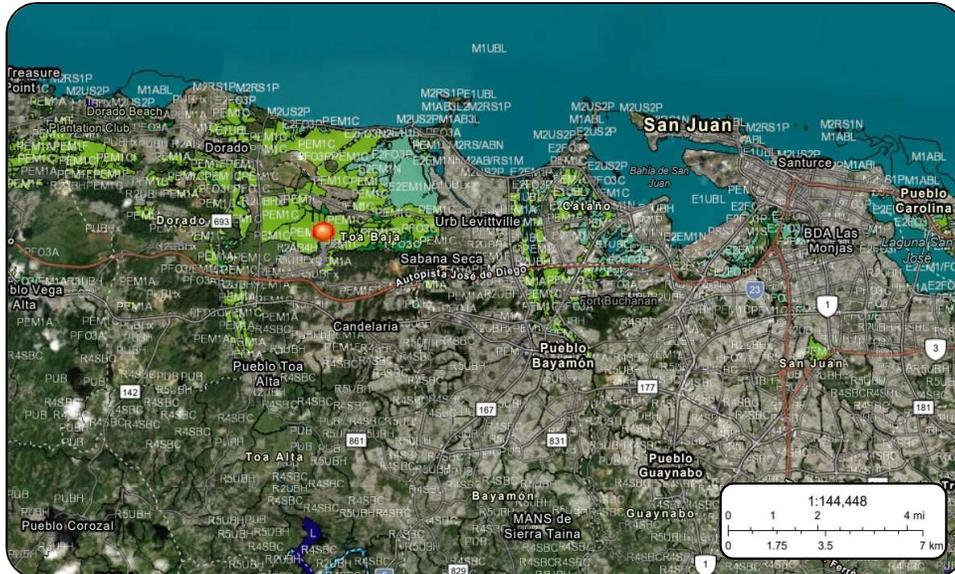


Wetland Map

Legend:

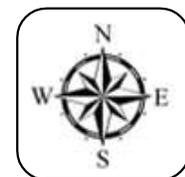
Wetlands

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland
-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond
-  Lake
-  Other
-  Riverine
-  Project Footprint
-  Project Site



Project Location:

Int. PR-865 at Ave. Campanilla,
 Bo. Media Luna,
 Toa Baja, PR 00949
 Latitude: 18.422301°
 Longitude: -66.231948°



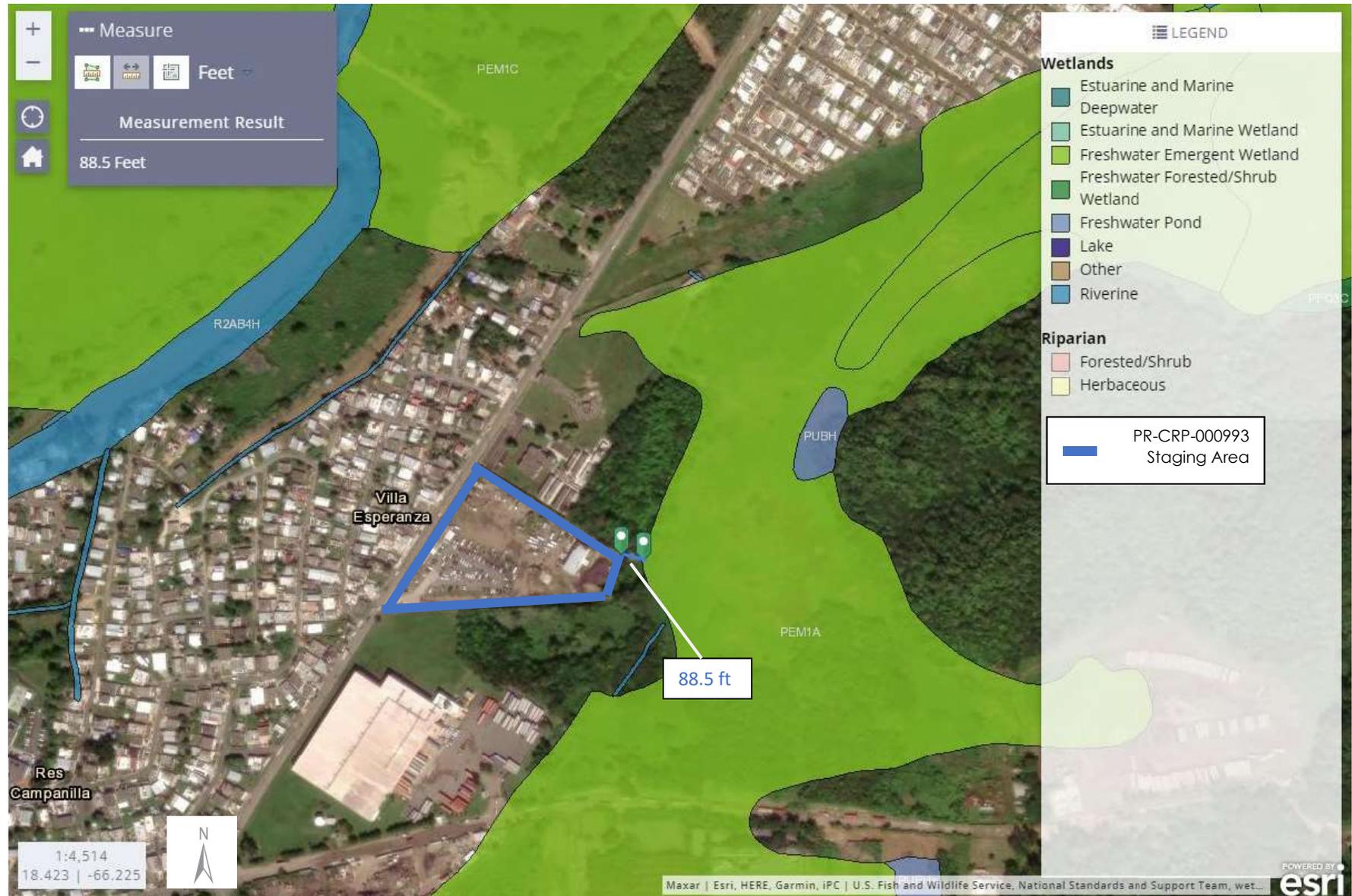
Source: NEPAssist, Esri, HERE, Garmin, Foursquare, SafeGraph, METI/NASA, USGS, NPS, EPA OEI
 NEPAssist Uri: <https://nepassistool.epa.gov/nepassist/nepamap.aspx?wherestr=Toa+Baja>

Appendix A.12b. Staging Area Wetland Map

PR-CRP-000993 Rotonda PR-865 int. Ave. Campanilla, Campanilla

Coord: 18.422301° -66.231948°

Address: Int. PR-865 at Ave. Campanilla, Bo. Media Luna, Toa Baja, PR 00949



Source: USFWS National Wetlands Inventory (NWI) (Spatial Reference: WGS84), accessed July 18, 2024 at URL <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>

City Revitalization Program
 PR-CRP-000993
 Rotonda PR-865 int. Ave. Campanilla, Campanilla

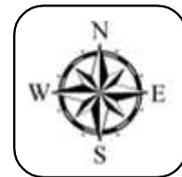
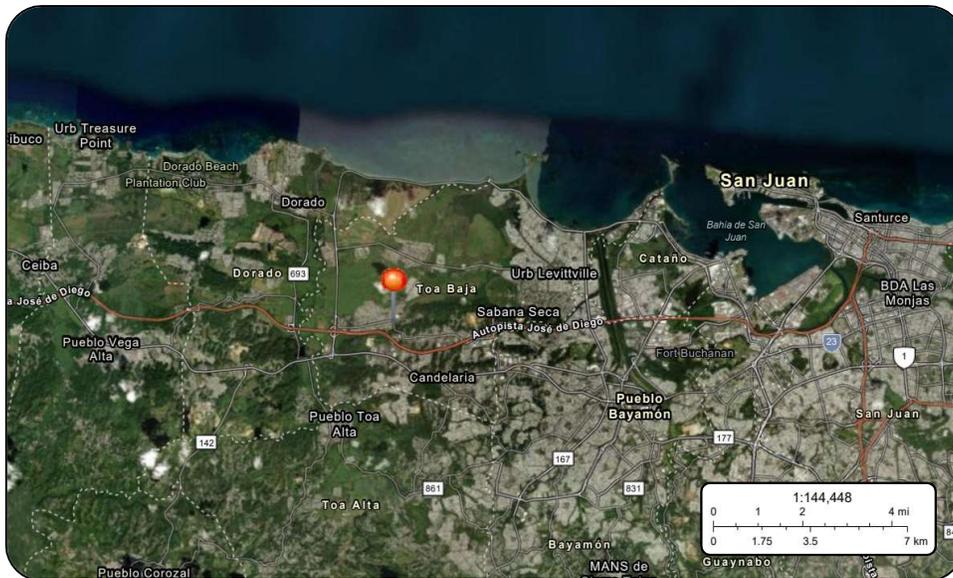


**Wild and Scenic River
 Map**

Legend

-  Project site
-  Wild and Scenic River
-  ~31.8 miles from the Project

Project Location:
 Int. PR-865 at Ave.
 Campanilla,
 Bo. Media Luna,
 Toa Baja, PR 00949
 Latitude: 18.422301°
 Longitude: -66.231948°



Source: NEPAassist, Esri, HERE, Garmin, Foursquare, SafeGraph, METI/NASA, USGS, NPS, EPA OEI
 NEPAassist Url: <https://nepassisttool.epa.gov/nepassist/nepamap.aspx?wherestr=Toa+Baja>

Appendix B: USFWS Documentation

1. USFWS Concurrence Letter
2. Blanket Clearance Letter
3. Location Map
4. Critical Habitat Map
5. Photo Template
6. IPaC Report



Transmittal Letter

April 23, 2024

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



Based on the information provided, we determined the project proposed qualifies for the blanket clearance letter. Nevertheless, if the project is modified this office should be contacted concerning the need for the initiation of consultation under section 7 of Endangered Species Act of 1973.

Reviewer **DAMARIS ROMAN RUIZ** Digitally signed by DAMARIS ROMAN RUIZ Date: 2024.04.24 14:29:43 -04'00'

ROBERT TAWES Digitally signed by ROBERT TAWES Date: 2024.04.29 06:57:02 -04'00'
Acting Caribbean ES Field Supervisor

Subject: USFWS Endangered Species Act Certifications – April 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-000009	Ponce – Urban Aesthetic Project
PR-CRP-000337	Rehabilitación de Aceras y Mejoras a Calles en Casco Urbano y Comunidades Aledañas
PR-CRP-000759 / PR-CRP-001153	Renovations to Plaza del Mercado in Santa Isabel Urban Center / Santa Isabel Multipurpose Building Francisco Robledo
PR-CRP-000991	Rotonda PR-867 entradas Urbs. Campanillas y Pabellones, Sabana Seca
PR-CRP-000993	Rotonda PR-865 int. Ave. Campanilla, Campanilla
PR-CRP-001001	Estacionamiento y áreas circundantes a la Plaza del Mercado
PR-CRP-001072	Plaza Recreacional en el Casco Urbano (Plaza del Obrero)

For more information, please contact the Permits and Environmental Compliance Division at environmentcdbg@vivienda.pr.gov or at (787)274.2527 ext. 4320.

Sincerely,

Permits and Environmental Compliance Division
Office of Disaster Recovery



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Caribbean Ecological Services

Field Office

P.O. Box 491

Boqueron, PR 00622

JAN 14 2013

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

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

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

Dear Mr. Maldonado:

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

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

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

Project Criteria

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

Determination:

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

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

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

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

Water Crossing Structures:

1. Use of bottomless culverts or single span bridges instead of traditional box or RCP culverts or any other water crossing structure that impacts the stream bottom, particularly in streams which support native fish. The use of bottomless culverts or a short span bridge would provide a more stable crossing and would not alter the stream habitat. However, if bottomless structures or bridges are not feasible due to cost or engineering constraints, we recommend the following criteria be used to maintain good habitat in the streams:
 - a. The stream should not be widened to fit the bridge since this can lead to sedimentation during low flows and possible bank erosion during high flows. Rather, the bridge should be designed to fit the stream channel at the point of crossing. Culverts should be sized to carry natural bank full flow. Additional flow can be capture by culverts placed at a higher elevation so as not to impact bank full flows.
 - b. Bridge abutments, wing walls or any other structures should not intrude into the active stream channel.
 - c. All culvert footings must be countersunk into the stream channel at both the invert and outlet ends at a minimum of 10% of the culvert height. This will align the water crossing structure with the slope of the stream.
 - d. Waterways must not be blocked as to impede the free movement of water and fish. Materials moved during construction, such as grubbing, earth fills, and earth cut materials must not be piled where they can fall back into the stream and block the drainage courses.
 - e. Appropriate erosion and/or sedimentation controls measures are to be undertaken to protect water quality until riverbanks are re-vegetated. It has been our experience that appropriate erosion and/or sedimentation control measures are not implemented properly by project contractors. In order to function properly, silt fences need to be buried 6" (proper depth is marked by a line on the silt fence) and supported at regular intervals by wood stakes. For that reason we are recommending that

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

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

Limitations:

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

The Service reserves the right to revoke or modify this BCL if:

1. New information reveals that the categories of work covered in this BCL may affect listed or designated critical habitat in a manner, or to an extent, not previously considered.
2. The categories of work included in this BCL are subsequently modified to include activities not considered in this review.
3. New species are listed or critical habitat designated that may be affected.

It is our mission to work with others, to conserve, protect and enhance fish wildlife and plants and their habitats for the continuing benefit of our people.

To obtain additional information on threatened and endangered species, you may visit our website <http://www.fws.gov/caribbean/ES> where you will also find the Map of the Species by Municipality and the Map of Critical Habitat. The USFWS has also developed a web based tool called IPac. Please visit <http://www.ecos.fws.gov/ipac> and familiarize yourself with the features we offer. We encourage you to begin your project planning process by requesting an **Official Species List** for your individual project that will include all species that may occur in the vicinity of the action area and includes a map of the action area. The site will also identify designated critical habitat, or other natural resources of concern that may be affected by your proposed project. At this time, best management practices or conservation measures are not available at the site but we expect the site to continue growing in its offering.

These maps provide information on the species/habitat relations within a municipality and could provide the applicants an insight if the proposed action is covered under this BCL or may affect a species, thus requiring individual review.

If you have any additional question regarding this BCL, please do not hesitate to contact Marelisa Rivera, Deputy Field Supervisor, at 787-851-7297 extension 206.

Sincerely yours,



Edwin E. Muñiz
Field Supervisor

Enclosures (Fact Sheets)

cc: OCAM, San Juan
Office of Federal Funds, 78 Municipalities of Puerto Rico
AAA
PRFAA
DNER



Ecological Services in the Caribbean

Caribbean Field Office

Project evaluation



Our mission is to conserve, protect and enhance fish and wildlife and their habitats through consultation, cooperation and communication for the continuing benefit of the American people.

Legal authorities:

- Endangered Species Act (ESA)
- Fish and Wildlife Coordination Act
- Migratory Bird Treaty Act
- Coastal Barriers Act

Roles and Responsibilities:

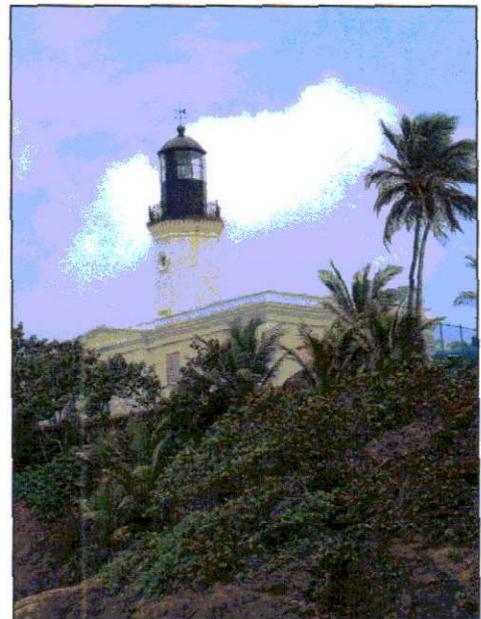
- Provide technical assistance to Federal and Commonwealth agencies to minimize possible impacts of land and water projects to our trust resources
 - *Wetlands and other aquatic habitats
 - *Endangered Species and their habitats
 - *Migratory Birds
 - *Critical Wildlife Areas
 - *Coastal Barriers
- Assist with ESA Section 7 compliance through informal and formal consultation processes

How do we assist others?

- Determine presence / absence of wetland resources, threatened and endangered species habitat, coastal barriers, important wildlife areas within the action area
- Evaluate possible direct, indirect and cumulative impacts
- Provide conservation recommendations to avoid, minimize and/or mitigate impacts
- General recommendations for habitat enhancement

Minimum requirements for the evaluation of projects:

- An 8.5 by 11 inch copy of the specific site location on a USGS topographic map (1:20,000) marked with an arrow (➡)
- Project description
- Aerial photo of the project site
- Latitude and Longitude (degrees, minutes and seconds or decimal degrees)
- Environmental Documents (EA and EIS)
- Specific studies (by qualified personnel)



For more information:

US Fish and Wildlife Service
Caribbean Field Office
Raod 301, Km. 5.1
Bo. Corozo
Boquerón, PR 00622

<http://www.fws.gov>

<http://www.fws.gov/caribbean/es>



Endangered Species Lists Using Web-based Tools

The U.S. Fish and Wildlife Service's Caribbean Ecological Services Field Office (CESFO) provides technical assistance to private individuals and organizations, as well as Federal, state, and local agencies pursuant to the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.). To assist project sponsors or applicants with the process of determining whether a Federally-listed species and/or "critical habitat" may occur within their proposed project area, we have developed Web-based tools. These tools were developed primarily to assist Federal agencies that are consulting with us under Section 7(a)(2) of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

IPaC. The US Fish & Wildlife Service (USFWS) has a tool named IPaC. IPaC stands for Information, Planning, and Conservation. This system is designed for easy, public access to the natural resources information for which the USFWS has trust or regulatory responsibility. Examples include Threatened and Endangered species, migratory birds, National Refuge lands, Coastal Barrier Resource Units, and the management of invasive species. One of the primary goals of the IPaC system is to provide information in a manner that assists individuals in planning their activities within the context of natural resource conservation. The IPaC system also assists people through the various regulatory consultation, permitting and approval processes administered by the USFWS, helping achieve more effective and efficient results for both the project proponents and natural resources. Through IPaC, you can get a preliminary USFWS species list in addition to links to species life history information, the USFWS Migratory Bird program, and more. You can access IPaC at: <http://ecos.fws.gov/ipac>

CESFO List of Threatened & Endangered Species and Critical Habitat Designations: CESFO has developed another tool (Species Map) that can be used as a quick reference to find out where the Federally-listed species



are known to occur, as well as those likely to occur, in any given municipality in Puerto Rico and island in the

U.S. Virgin islands. It identifies general areas where the species may be located. However, it does not represent the absolute distribution of the species and does not constitute a recommendation or comment issued by our agency in reference to a proposed project. This list represents the best available information regarding known or likely occurrences of Federally-listed species and is subject to change as new information becomes available. You can access this database at <http://www.fws.gov/caribbean/es/PDF/Map/pdf>



Be aware that Section 9 of the ESA prohibits unauthorized taking of listed species and applies to Federal and non-Federal activities. Under the Act, it is illegal for any person subject to the jurisdiction of the United States to take (includes harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect; or to attempt any of these), import or export, ship in interstate or foreign commerce in the course of commercial activity, or sell or offer for sale in interstate or foreign commerce any endangered fish or wildlife species and most threatened fish and wildlife species. It is also illegal to possess, sell, deliver, carry, transport, or ship any such wildlife that has been taken illegally. "Harm" includes any act which actually kills or injures fish or wildlife, and case law has clarified that such acts may include significant habitat modification or degradation that significantly impairs

essential behavioral patterns of fish or wildlife. For projects not authorized, funded, or carried out by a Federal agency, consultation with the Service pursuant to Section 7(a)(2) of the ESA is not required. However, no person is authorized to "take" any listed species without appropriate authorizations from the Service. Therefore, we provide technical assistance to individuals and agencies to assist with project planning to avoid the potential for "take," or when appropriate, to provide assistance with their application for an incidental take permit pursuant to Section 10(a)(1)(B) of the ESA.

If the project is within the distribution of the species, additional information may be needed to determine the presence of habitat. In some cases, specialized surveys may be needed to determine the presence or absence of the species in a particular area.

For additional information on fish and wildlife resources or State-listed species, we suggest contacting the Puerto Rico Department of Natural and Environmental Resources and the U.S. Virgin Islands Department of Planning and Natural Resources.

For further assistance, please feel free to contact us at (787) 851-7297 or visit our Web page at www.fws.gov/caribbean/es if you need further assistance.

For further information visit our national websites at:

<http://www.fws.gov>

<http://ecos.fws.gov>



U.S. Fish & Wildlife Service

Consultations with Federal Agencies

Section 7 of the Endangered Species Act

The purposes of the Endangered Species Act are to provide a means for conserving the ecosystems upon which endangered and threatened species depend and a program for the conservation of such species. The ESA directs all Federal agencies to participate in conserving these species. Specifically, section 7 (a)(1) of the ESA charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies to ensure that their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats.

How does the consultation process support the recovery of species and their ecosystems?

The Endangered Species Program of the U.S. Fish and Wildlife Service uses section 7 tools in partnership with other Service programs and other Federal agencies to collaboratively solve conservation challenges, as well as create opportunities, using section 7 consultations, to recover the ecosystems of listed species. Consultations also provide ways to implement recovery tasks by addressing threats to listed species that may result from Federal agency programs and activities.

What is the consultation process that occurs under section 7(a)(2)?

The provision under section 7 that is most often associated with the Service and other Federal agencies is section 7(a)(2). It requires Federal agencies to consult with the Service to ensure that actions they fund, authorize, permit, or otherwise carry out will not jeopardize the continued existence of any listed species or adversely modify designated critical habitats. The



Photo Credit: USGS - Sirenia Project

USGS

In response to requests for consultations from the U. S. Coast Guard with regard to manatees and sea turtles, the South Florida Office of the U. S. Fish and Wildlife Service has provided guidance about events such as firework displays, regattas, boat parades and races, and fishing tournaments.

Service issued regulations in 1986 detailing the consultation process, and we have since completed a handbook describing the process in detail. The handbook is available on our web site at http://www.fws.gov/endangered/esa-library/pdf/esa_section7_handbook.pdf.

What is the Service doing to facilitate the consultation process?

Designing projects in ways that are compatible with the conservation needs of listed species and their ecosystems is among the most effective methods of ensuring a more rapid and efficient section 7 consultation process, as well as species' recovery. The Information, Planning, and Conservation System is an emerging tool for action agencies, their applicants, and other project proponents to use

during the initial phases of project development and assessment. The system will allow for more effective integration of listed resource conservation needs and the eventual streamlining of section 7(a)(2) consultation.

How does a consultation get started?

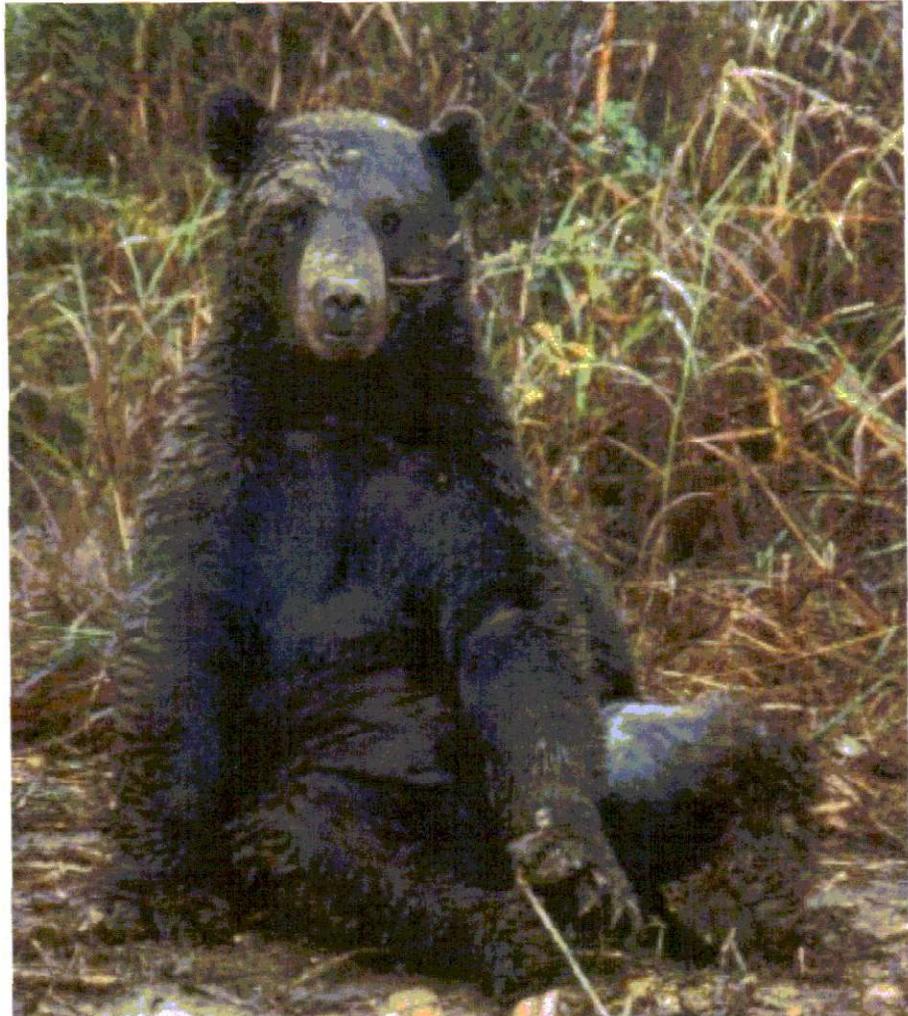
Early coordination is one of the most effective methods of (1) streamlining section 7 consultation, (2) reducing the need to make project modifications during the consultation process, and (3) improving the ability of section 7 to fulfill its role as a recovery tool. Federal agencies, applicants, and the Service engage in early coordination to develop methods of integrating proposed activities with the conservation needs of listed resources before the proposed actions are fully designed.

Before initiating an action, the Federal agency or its non-Federal permit applicant should coordinate with the Service as to the species that may be within their action area. If a listed species is present, the Federal agency must determine whether the project may affect it. If so, consultation may be required. If the action agency determines (and the Service agrees) that the project is not likely to adversely affect a listed species or designated critical habitat, and the Service concurs in writing, then the consultation (informal to this point) is concluded.

What happens if a Federal project may adversely affect a listed species?

If the Federal agency determines that a project is likely to adversely affect a listed species or designated critical habitat, the agency initiates formal consultation by providing information with regard to the nature of the anticipated effects. The ESA requires that consultation be completed within 90 days, and the regulations allow an additional 45 days for the Service to prepare a *biological opinion*. The analysis of whether or not the proposed action is likely to jeopardize the continued existence of the species or adversely modify designated critical habitat is contained in a biological opinion. If a jeopardy or adverse modification determination is made, the biological opinion must identify any reasonable and prudent alternatives that could allow the project to move forward.

The Service must anticipate any incidental take that may result from the proposed project and, provided that such take will not jeopardize the continued existence of the listed species, authorize that take in an incidental take statement. The latter contains clear terms and conditions designed to reduce the impact of the anticipated take to the species involved. The authorization of incidental take is contingent upon the Federal agency carrying out the terms and conditions. If the Service issues either a non-jeopardy opinion or a jeopardy opinion that contains reasonable and prudent alternatives, it may include an incidental take statement.



Dan Anderson/USFWS

This Louisiana black bear was one of the largest ever captured on Tensas River National Wildlife Refuge, weighing in at over 400 pounds. The bear was trapped using a leg-hold cable snare that does not injure the animal. The biological information obtained, including weight, sex, a tooth for aging, and other measurements, is part of the Service's ongoing research efforts to aid in the recovery of this threatened subspecies. Afterwards, the bear was released on site.

What is the consultation workload?

In Fiscal Year 2010, the Service assisted Federal agencies in carrying out their responsibilities under section 7 on more than 30,000 occasions. The vast majority of the workload was technical assistance to Federal agencies and informal consultations on actions that were not likely to adversely affect listed species or their designated critical habitat. A large percentage of projects, as initially planned, would have had adverse impacts to listed species, but were dealt with through informal consultation. In these situations, the Federal agency made changes to the project design so that adverse impacts to listed species were avoided.

What type of guidance is available for other Federal agencies?

Guidance is available on our section 7 web site at <http://www.fws.gov/endangered/what-we-do/consultations-overview.html>. Please call us at 703-358-2171 if you have any questions, or see our Endangered Species Program Contacts at <http://www.fws.gov/endangered/regions/index.html> to locate a Service office in your area.

**U. S. Fish and Wildlife Service
Endangered Species Program
4401 N. Fairfax Drive, Room 420
Arlington, VA 22203
703-358-2171
<http://www.fws.gov/endangered/>**

April 2011



Self-Certification

<http://www.fws.gov/caribbean/ES/Index.html>

Endangered Species Act Certification

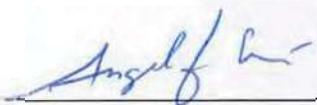
The U.S. Fish and Wildlife Service, Caribbean Ecological Services Field Office developed a Blanket Clearance Letter in compliance with Endangered Species Act of 1973, as amended, and the Fish and Wildlife Coordination Act for federally funded projects.

The Service determined that projects in compliance with the following criteria are not likely to adversely affect federally-listed species.

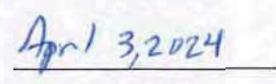
The Puerto Rico Department of Housing (PRDOH) certifies that the following project "**Rotonda PR-865 int. Ave. Campanilla, Campanilla**" (PR-CRP-00993), with a footprint of 5,217 square meters (m2) consisting of: 1) Pavement preservation and/or reconstruction, a) Asphalt pavement rehabilitation by means of cold milling and resurfacing of existing asphalt pavement; 2) Roundabout construction; 3) Sidewalk preservation and/or construction, a) Reconstructed sidewalk or construct them when it is required; 4) Maintenance of Traffic (MOT); 5) Improvements to storm runoff system, repairing drains & sewer system, 6) Replacement of pavement markings and use of retroreflective devices (raised pavement markers; 7) Speed reduction at pedestrian crossings, 8) Solar lighting poles system, 9) Installation of traffic signs, 10) Urban landscape improvements, 11) Evaluation of asphalt surfaces, crosswalks, and handicapped ramps, and electrical design improvements that comply with current codes and regulations, located at the intersection of PR-865 with Campanilla Avenue in Luna Ward in the Municipality of Toa Baja (18.422301, -66.231912), complies with:

Check	Project Criteria
<input checked="" type="checkbox"/>	1. Street resurfacing.
<input checked="" type="checkbox"/>	2. Construction of gutters and sidewalks along existing roads.
<input type="checkbox"/>	3. Reconstruction or emergency repairs of existing buildings, facilities and homes.
<input type="checkbox"/>	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.

<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	11. Construction of houses, buildings or acquiring lands in urban areas covered by grass for relocation of low-income families and/or facilities that have been affected by weather conditions.



Ángel G. López-Guzmán
Deputy Director
Permits and Environmental Compliance Division



Date

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

USFWS Self-Certification
Rotonda PR-865 int. Ave. Campanilla, Campanilla
PR-CRP-000993

Attachments

- I. **Aerial/ Location Map with the Footprint**
- II. **Critical Habitat Map**
- III. **Wetland Map**
- IV. **Photo Template**
- V. **IPaC report**

City Revitalization Program

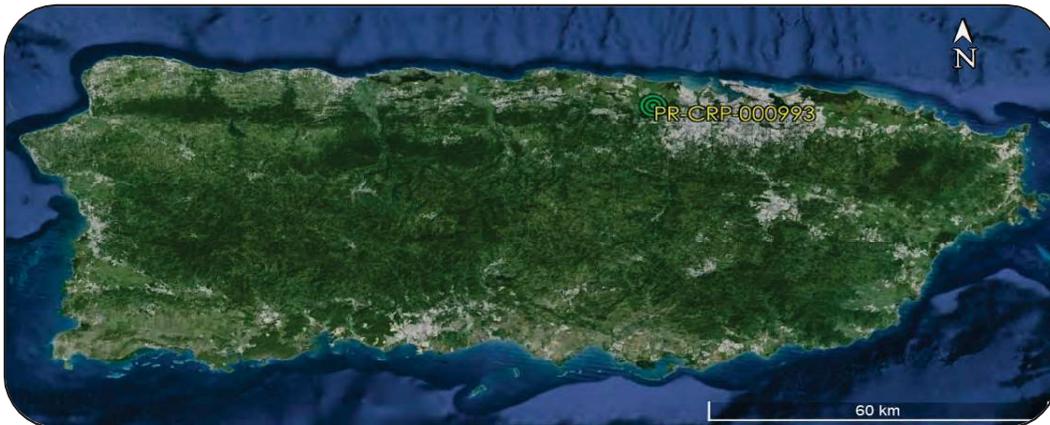
PR-CRP-000993

Rotonda PR-865 int. Ave. Campanilla, Campanilla
Autonomous Municipality of Toa Baja, Puerto Rico



Google Earth

Location Map



Project Location:

Int. PR-865 at Ave. Campanilla,
Bo. Media Luna,
Toa Baja, PR 00949
Latitude: 18.422301°
Longitude: -66.231948°



City Revitalization Program

PR-CRP-000993

Rotonda PR-865 int. Ave. Campanilla, Campanilla
Autonomous Municipality of Toa Baja, Puerto Rico



This map displays Critical Habitat near the project areas.

Legend:

- Critical Habitat - Polygon Features - Proposed
- Critical Habitat - Polygon Features - Final
- PR-CRP-000993
- Project Site



Project Location:

Int. PR-865 at Ave. Campanilla,
Bo. Media Luna,
Toa Baja, PR 00949
Latitude: 18.422301°
Longitude: -66.231948°



City Revitalization Program
PR-CRP-000993

Rotonda PR-865 int. Ave. Campanilla, Campanilla
Autonomous Municipality of Toa Baja, Puerto Rico



Wetland Map

Legend:

- Wetlands
-  Estuarine and Marine Deepwater
 -  Estuarine and Marine Wetland
 -  Freshwater Emergent Wetland
 -  Freshwater Forested/Shrub Wetland
 -  Freshwater Pond
 -  Lake
 -  Other
 -  Riverine
 -  Project Site



Project Location:

Int. PR-865 at Ave. Campanilla,
Bo. Media Luna,
Toa Baja, PR 00949
Latitude: 18.422301°
Longitude: -66.231948°



Source: NEPAAssist, Esri, HERE, Garmin, Foursquare, SafeGraph, METI/NASA, USGS, NPS, EPA OEI

Photo: PR-CRP-000993





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.

Project information

NAME

PR CRP 000993

LOCATION

Toa Baja County, Puerto Rico



DESCRIPTION

None

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. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. Click REQUEST SPECIES LIST.

Listed species¹ 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 Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

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

2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

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

Reptiles

NAME	STATUS
Puerto Rican Boa <i>Chilabothrus inornatus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6628	Endangered

Flowering Plants

NAME	STATUS
Daphnopsis helleriana Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6802	Endangered
Palo De Rosa <i>Ottoschulzia rhodoxylon</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/5741	Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

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

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds
<https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide conservation measures for birds
<https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

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

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

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

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

There are no migratory birds of conservation concern expected to occur at this location.

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 to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or 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.

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.

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](#).

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 tubercid 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

Appendix C: Cultural Resource Documentation



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

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

February 8, 2024

Lauren Bair Poche

HORNE- Architectural Historian Manager
10000 Perkins Rowe, Suite 610 Bldg G
Baton Rouge, LA 70810

SHPO: CF-02-07-24-04 – PR-CRP-000993: ROTONDA PR - 865 INT. AVE. CAMPANILLAS
CAMPANILLA PROJECT, TOA BAJA, PUERTO RICO

Dear Ms. Poche,

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

Our records support your finding of **no historic properties affected** within the project's area of potential effects.

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

Sincerely,

Carlos A. Rubio-Cancela
State Historic Preservation Officer
CARC/GMO/OEDJR





October 20, 2022

Arch. Carlos A. Rubio Cancela

Executive Director

State Historic Preservation Officer

Cuartel de Ballajá Bldg.

San Juan, Puerto Rico

Re: Authorization to Submit Documents

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 registry review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

In line 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,

A handwritten signature in blue ink, appearing to be 'JB', is written over the printed name of the signatory.

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT

February 7, 2024

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

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program

Section 106 NHPA Effect Determination Submittal for PR-CRP-000993: Rotonda PR-865 int. Ave. Campanillas, Campanilla Project, Toa Baja, Puerto Rico – *No Historic Properties Affected*

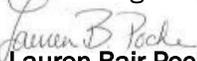
Dear Architect Rubio Cancela,

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

On behalf of PRDOH and the subrecipient, the Municipality of Toa Baja, we are submitting documentation for the proposed Rotonda PR-865 int. Ave. Campanillas, Campanilla Project, part of the City Revitalization Program. The proposed project will consist of the conversion of an intersection into a roundabout, southeast of the National Register of Historic Places eligible Toa Baja Traditional Urban Center. Activities for the project consist of the construction of one roundabout, sidewalks improvements that comply with ADA Guidelines, planting areas, utility work (PRASA, PREPA, communications, etc.) and maintenance of traffic (MOT) plans to minimize congestion levels during construction. The full scope of the project is described in detail within the submitted documentation, which includes mapping, photographs, and 30% design plans. Based on the provided documentation, the Program requests a concurrence with a determination that **no historic properties affected** is appropriate for this undertaking.

Please contact me with any questions or concerns by email at lauren.poche@horne.com or phone at 225-405-7676.

Kindest regards,


Lauren Bair Poche. M.A.

Architectural Historian, EHP Senior Manager
Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination <input type="checkbox"/>	
Subrecipient: Toa Baja Municipality <input type="checkbox"/>	
Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla <input type="checkbox"/>	
Project Number: PR-CRP-000993	

Project Location: Campanilla Avenue and PR-865 Km 2.4, Media Luna ward	
Project Coordinates: 18.422301 -66.231912, 18.426325 -66.228731	
TPID (Número de Catastro): N/A	
Type of Undertaking: <input checked="" type="checkbox"/> Substantial Repair <input type="checkbox"/> New Construction	
Construction Date (AH est.): ca. n/a	Property Size (acres): 13.01

SOI-Qualified Architect/Architectural Historian:
Date Reviewed:
SOI-Qualified Archaeologist: Jaqueline López Meléndez
Date Reviewed: July 31, 2023, October 10, 2023-REVISED

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

Project Description (PR-CRP-000993 Undertaking)

The proposed improvement will consist of the transformation of an intersection into a roundabout. The intersection is located on the Avenida Campanilla intersecting with the PR-865 Km. 2.4. The purpose of changing the intersection to a roundabout is to optimize the vehicular traffic and all necessary movements for vehicles, lower the vehicular speed of vehicles that cross the PR-865 and Avenida Campanilla, and enhance the experience for both pedestrians and cyclists that attend the intersection of the nearby urbanizations. The project will also include sidewalks improvements that comply with ADA Guidelines, planting areas, utilities work (PRASA, PREPA, communications, etc.) and maintenance of traffic (MOT) plans to minimize congestion levels during construction. To carry out the improvement project, it will be necessary to impact the potable water, stormwater, and sewer, power and communications infrastructure located in the sector. The proposed project is located outside the traditional urban area delimitation of Toa Baja at approximately 1.80 miles east.

The project activities:

1. Pavement Rehabilitation
 - a. Cold Milling
 - b. Asphalt Resurfacing

The repaving will match the existing depth of the asphalt roadway and will not require excavations below the current base.



Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993

2. New Pavement Construction Section (80 SQ. M.)
 - a. Excavation in the undisturbed area maximum 3-FT of excavation depending on geotechnical study
 - b. Fill undisturbed area with Sub-base, base, and asphalt surface,
3. Improvements in road signs,
 - a. Remove and replace damaged road signs,
 - b. New Installation of Signs related to roundabout intersection and pedestrian crossing
4. Pavement marking
 - a. Remove and replace damaged pavement marking,
 - b. New Installation related to the roundabout and crosswalk compliance,
 - c. Installation of retroreflective devices
5. Transition of signalized intersection to roundabout
6. Pedestrian improvements replacing existing sidewalks and crossing,
 - a. Installation of handicapped curb ramps
 - b. Raised crosswalk

The new sidewalks will be approximately 1.55 meters wide and 0.10 centimeters deep.
7. Construction and Modification of medians
 - a. New Installation of medians due to the roundabout geometry,
 - b. Modification of existing medians
8. Improvements and/or installation of new curbs and curbs & gutter where there is drainage problem and to address new geometry. The curbs will have a maximum width of approximately 0.45 centimeters and will be deepened by 0.20 centimeters.
9. Improves road light feature to solar features. The new poles to be installed will have a maximum diameter of 25 centimeters and a maximum subsurface depth of 40 centimeters.
10. Maintenance of Traffic (MOT)
11. Construction of a roundabout. The roundabout will have a diameter of approximately 24.55 meters and a maximum depth of 20 cm below surface.

The project area covers an area of 1.31 acres. A site has been identified for use as a staging area. This property is located 0.19 miles northeast of the roundabout. It is 11.7 acres in size.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Toa Baja Municipality	
Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla	
Project Number: PR-CRP-000993	

The staging area is divided into two areas: to the north is the Toa Baja municipal mausoleum and to the south is the machinery yard of the Public Works Department of the municipality of Toa Baja. In the mausoleum area there is an empty lot to the north and in the Public Works lot there is a section at the southern end that could be used as a staging area.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is the area where the roundabout is to be built, the staging area and the visual APE is the viewshed of the proposed project (Figures 1-2). The area where the rotunda will be built is a wide intersection with housing structures to the east of Campanilla Avenue and government-use properties to the northeast and southeast. Structures in the area are not eligible for the National Register of Historic Places.

Identification of Historic Properties-Archaeology

The earliest image we have of the project area is the 1941 topographic quadrangle. In this image we can see the road marked as a main highway coming from the northeast from the coast of Toa Baja very close to the Bayamón River, passing through Sabana Seca, passing through the project area and heading westward past Colonia Campanilla (Figure 5). Colonia Campanilla consists of a few structures located mostly north of PR-865. To the northeast of the project what is now Campanillas Avenue is observed as a path.

In 1952, the PR-865 road runs east of the project area; however, the alignment of the road is different today (Figure 6). In the same year, an unidentified road is observed that runs south where PR-865 is located today. In the 1957 topographic survey, this road to the south is identified as PR-865 (Figure 7). By this year, Colonia Campanillas appears as a community with several streets and a considerable number of housing structures located mostly to the south of PR-865 (Figure 7).

In the 1994 aerial photo, the Campanillas community has grown mostly to the north of PR-865. In this year we can also see the PR-22 highway located to the south of the community, which may have impeded the growth of the community to the south. Campanillas Avenue is still seen in this year as a road with a different alignment to the west than the one that exists today (Figure 8).

It was in 2004 that the staging area was developed. Towards the south of the property, the use of the area as a storage area for machinery of the Public Works Department is evident. In 2004 (Figure 9) the impact with earth movement in the staging area is notorious and the

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Toa Baja Municipality	
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Project Number: PR-CRP-000993	

construction of Brisas de Campanillas to the northeast is possibly the reason for the development and creation of Campanillas Avenue.

The area that now occupies the municipality of Toa Baja has been populated since before the European colonization. Near twenty-nine (29) pre-Columbian sites have been reported within this municipality.

The town of Toa Baja was officially organized in 1745. The Toa Baja Traditional Urban Center is 2.10 miles west of the proposed project area. Historically, this region was dedicated to the cultivation and processing of sugar cane, and cattle.

Within the 0.25 miles radius where the roundabout will be constructed there are no reported archaeological resources (Figures 3-4).

Four (4) archaeological surveys have been conducted within a 0.25-miles distance from the proposed project area, two of them with positive results (see table). Rodríguez and Pagán (1998) and Solís and Rodríguez (1999) conducted two archaeological studies with positive results reporting archaeological sites located more than 0.25 miles from the project area.

Within the 0.25 miles radius of the staging area we have one (1) reported site: the historic site known as Hacienda Providencia (SHPO: TB0200031) located 0.02 miles west (Figures 3-4). This site was a 19th century hacienda that is identified in the Land Registry. In the area where this hacienda was located today there are several housing structures.

Within the 0.25 miles radius we have five (5) archaeological surveys, two of which yielded positive results. These are the studies conducted by Rodríguez and Pagán (1998) and Solís and Rodríguez (1999) described above.

The archaeological potential for pre-Columbian and historic archaeological resources in the project area is low. The widening of the road, the installation of public services for the residences and businesses located along Campanilla Avenue and PR-865 such as storm drains, electrical and sanitary plumbing, cable TV, and electric lighting, among others, make the potential for finding any cultural resources under the road low.

The archaeological potential for Pre-Columbian and historic archaeological resources in the staging area is low. The earliest images we have of the area do not show anything in the area. It is currently used as a municipal mausoleum and the southern part is a machinery depot. In any case, this area will only be used to deposit equipment and materials. No excavations will be carried out in the area.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	 <small>GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING</small>
Subrecipient: Toa Baja Municipality	
Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla	
Project Number: PR-CRP-000993	

DETERMINATION

The archaeological potential of the proposed project area is low. No archaeological sites have been reported within the 0.25-miles radius of the PR-CRP-000993 project. A historic site known as Hacienda Providencia was documented within 0.25 miles of the staging area and located 0.02 miles west. It is very likely that this site does not exist and was destroyed when housing was built in the area. In any case, no excavations will be conducted in the staging area.

Four (4) archaeological surveys have been conducted within the 0.25-miles radius, two with positive results. Investigations conducted by Rodríguez and Pagán (1998) and Solís and Rodríguez (1999) yielded positive results for archaeological resources located more than 0.25 miles away.

The project area presents diverse impacts due to the construction of structures and utilities that are needed in an urban area in development and continuous change. In the area we observed lighting poles, electricity cable poles, all types of manholes, storm drains, sidewalks, etc. We can assume that the potential for finding resources with integrity within the project area is low.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Toa Baja Municipality	
Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla	
Project Number: PR-CRP-000993	

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):
- Adverse Effect
 Proposed Resolution (if applicable)

This Section is to be Completed by SHPO Staff Only

The Puerto Rico State Historic Preservation Office has reviewed the above information and: <input type="checkbox"/> Concurs with the information provided. <input type="checkbox"/> 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 (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Toa Baja Municipality	
Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla	
Project Number: PR-CRP-000993	

Table of archaeological sites, historic properties and historic districts located within the project area or within a 0.25-miles radius

Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
None		-	-	-	-

Table of cultural resources surveys conducted within the project area or within a 0.25-miles radius.

Author	Phase/Title	Year	SHPO / IPRC code	Results	Distance/Direction
Jaime Vélez	IA-IB/ Reciclaje y Composta	1995	ICP/CAT-TB-95-03-05	Negative	0.01 mi NE
Jaime Vélez	IA-IB/ Planta de Vidrio	1998	ICP/CAT-TB-98-05-04	Negative	0.20 mi NE
Miguel Rodríguez y Jaime Pagán	IA-IB/ Dorado Regional Facilities Wastewater Master Plan Alternativa A, Planta de Tratamiento Sector La Monserrate, Bo. Sabana Seca, Toa Alta y Land Outfall, Bo Mameyal, Dorado	1998	SHPO: 01-21-99-21	Positive. Historic (train track), located more than 0.25 miles away.	Within
Carlos Solís y Miguel Rodríguez	IB/ North Coast Superaqueduct Project	1999	SHPO: 06-16-95-09	Positive. Archaeological sites located more than 0.25 miles away	Within

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Toa Baja Municipality	
Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla	
Project Number: PR-CRP-000993	

Table of archaeological sites, historic properties and historic districts located within the staging area or within a 0.25-miles radius

Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
Hacienda Providencia	TB0200031	-	0.02 mi W	19th Century Hacienda/Central	No data

Table of cultural resources surveys conducted within the staging area or within a 0.25-miles radius.

Author	Phase/Title	Year	SHPO / IPRC code	Results	Distance/Direction
Antonio Daubón	IA-IB/ Urb. Brisas de Campanero	1997	ICP/CAT-TB-97-05-01, SHPO: 10-21-97-08	Negative	0.01 mi NW
Miguel Rodríguez y Jaime Pagán	IA-IB/ Dorado Regional Facilities Wastewater Master Plan Alternativa A, Planta de Tratamiento Sector La Monserrate, Bo. Sabana Seca, Toa Alta y Land Outfall, Bo Mameyal, Dorado	1998	SHPO: 01-21-99-21	Positive. Historic (train track), located more than 0.25 miles away.	0.23 mi S
Carlos Solís y Miguel Rodríguez	IB/ North Coast Superaqueduct Project	1999	SHPO: 06-16-95-09	Positive. Archaeological sites located more than 0.25 miles away	0.23 mi S
Jaime Vélez	IA-IB/ Reciclaje y Composta	1995	ICP/CAT-TB-95-03-05	Negative	0.02 mi S
Jaime Vélez	IA-IB/ Planta de Vidrio	1998	ICP/CAT-TB-98-05-04	Negative	0.08 mi SE

Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993

**Figure 1. Project (Parcel) Location - Aerial Photo,
Coordinates 18.422301 -66.231912, 18.426325 -66.228731
Photo: Google Earth, Metric**

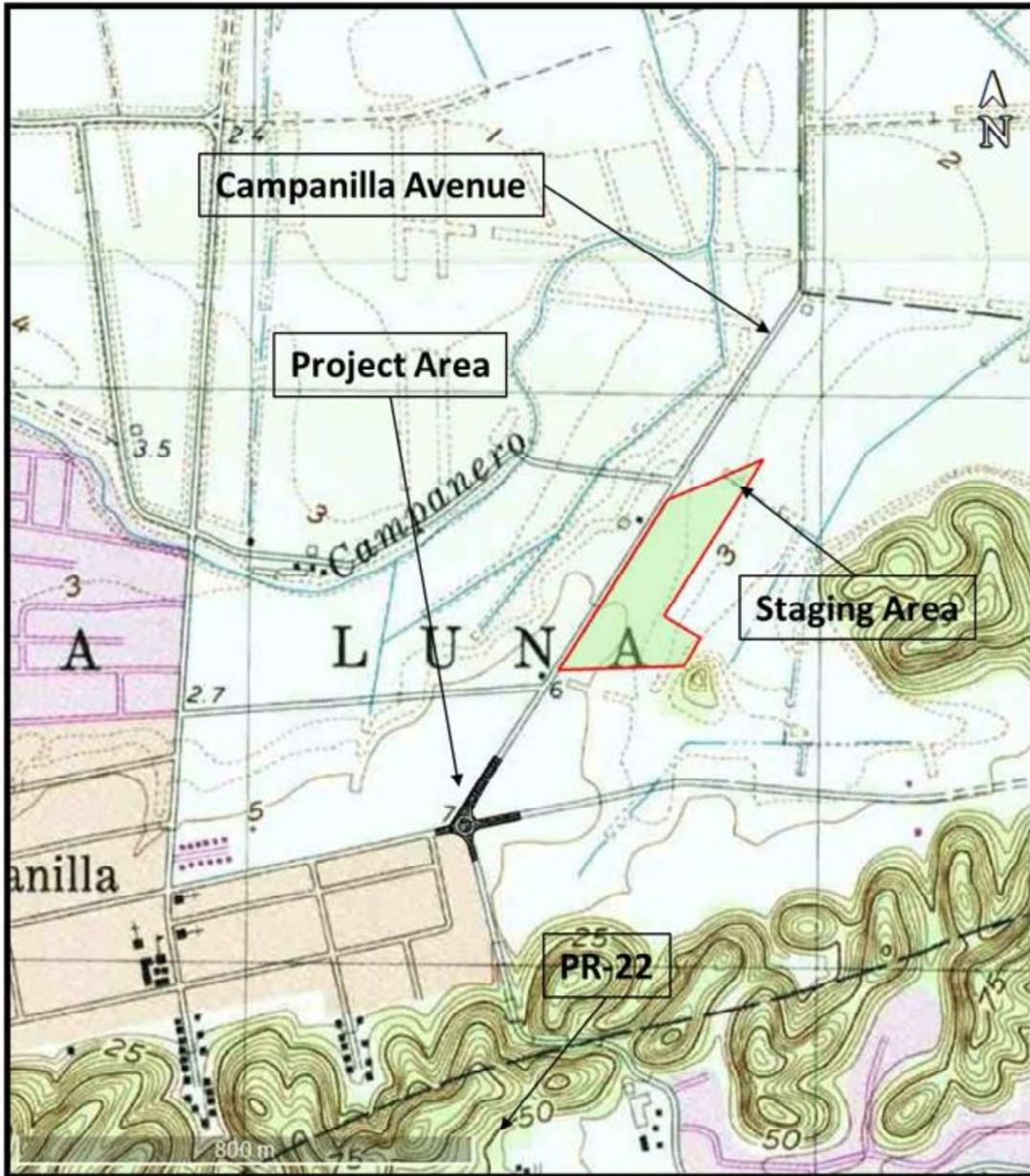


Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993

Figure 2. Project (Parcel) Location - USGS Topographic Map
Coordinates 18.422301 -66.231912, 18.426325 -66.228731
Source: Topoview, Metric

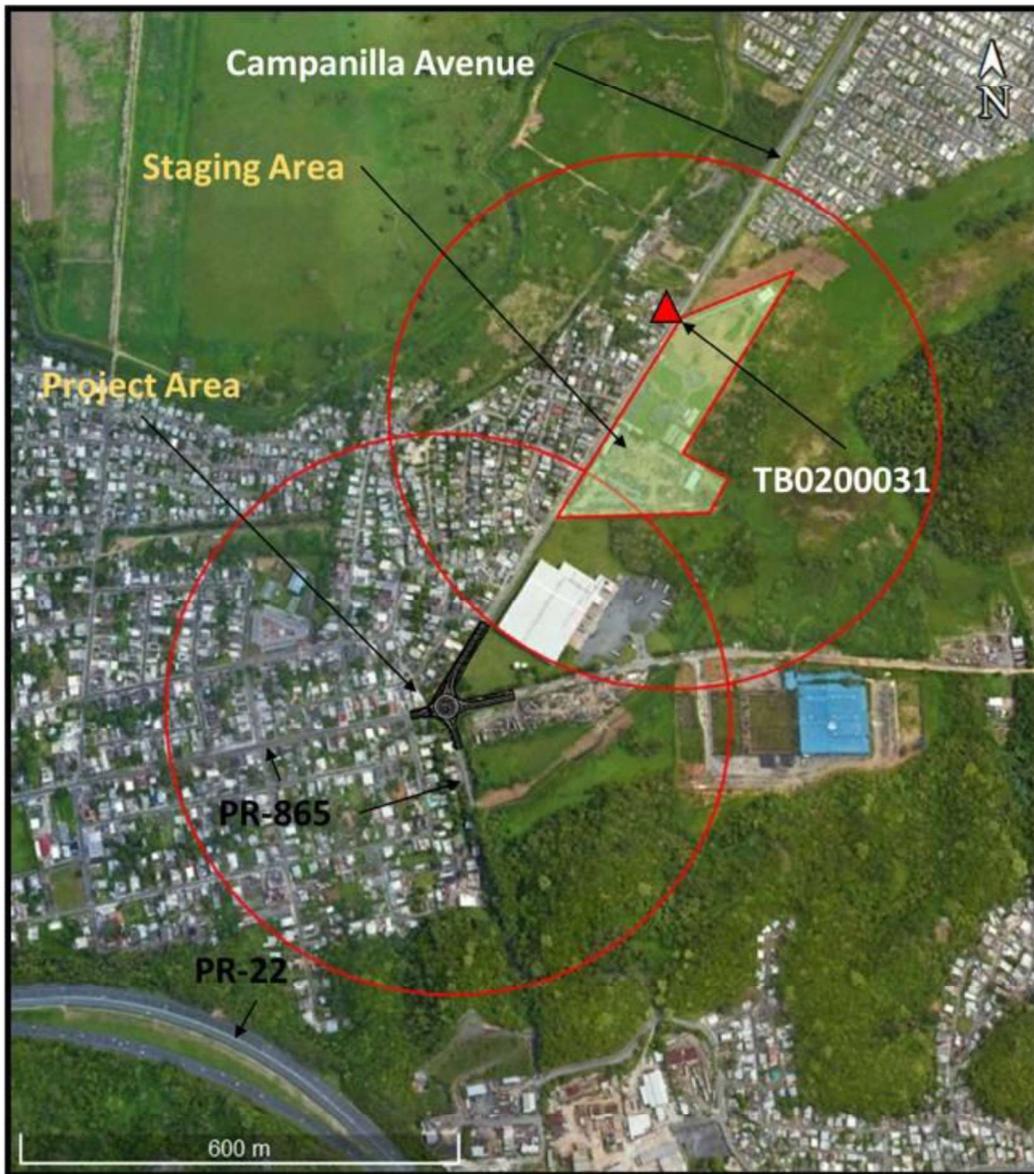


Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993

**Figure 3. Project (Parcel) Location with Previously Recorded Cultural Resources 0.25 mi radius-
Coordinates 18.422301 -66.231912, 18.426325 -66.228731
Source: Google Earth - Aerial Photo, Metric**

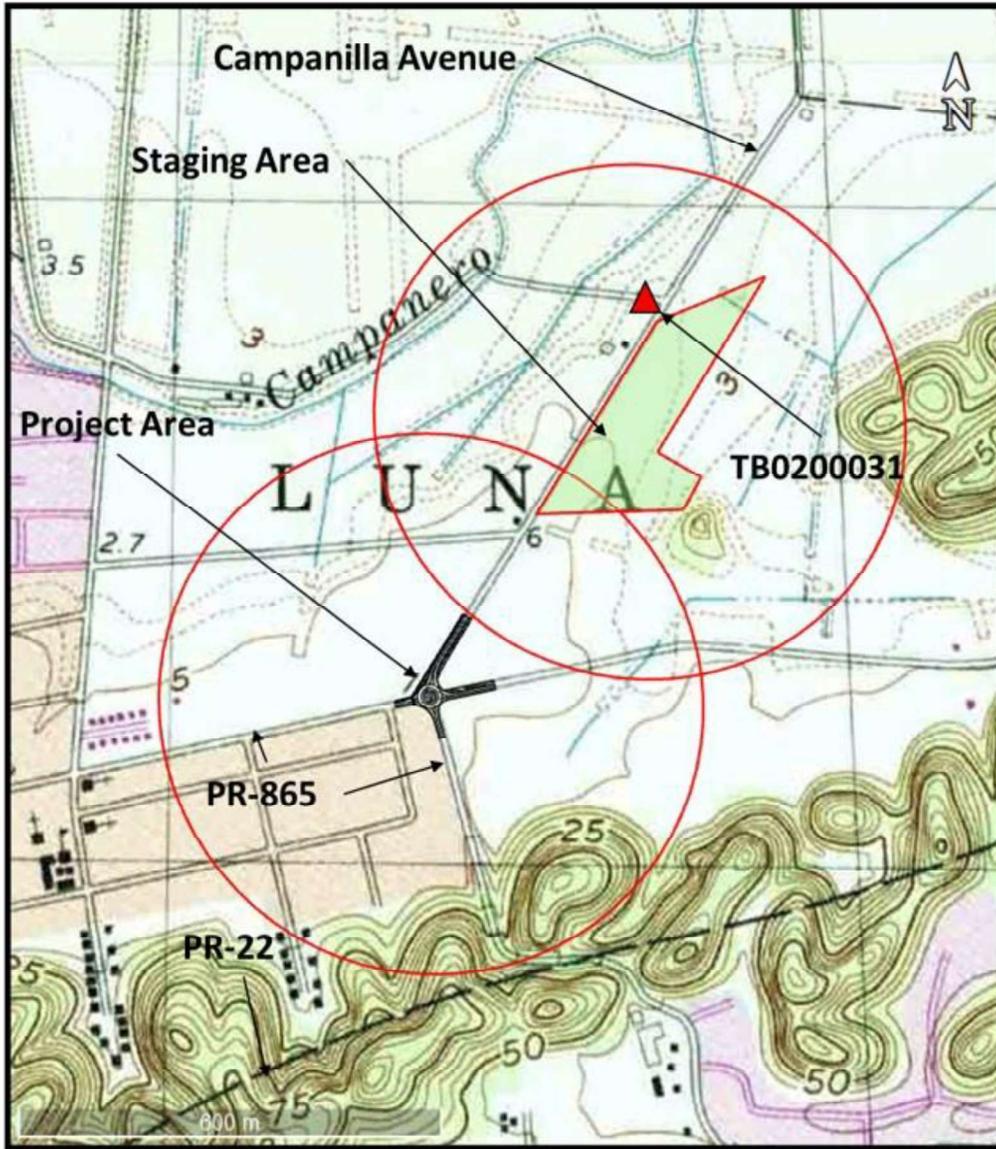


Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993

**Figure 4. Project (Parcel) Location with Previously Recorded Cultural Resources 0.25 mi radius-
Coordinates 18.422301 -66.231912, 18.426325 -66.228731
Source: Topoview - USGS Topographic Map, Metric**

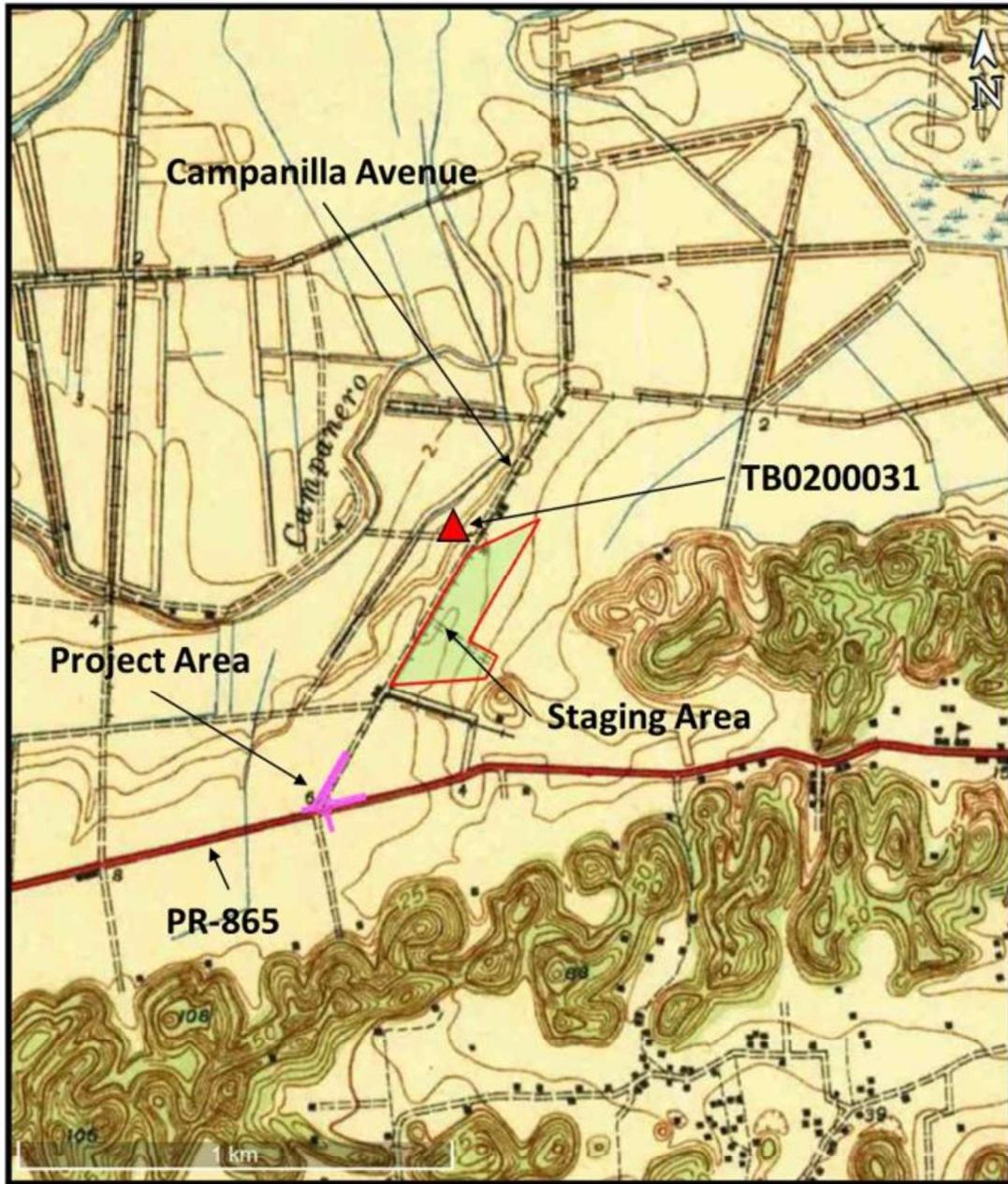


Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993

Figure 5. Project (Parcel) Location - USGS Topographic Map 1941
Coordinates 18.422301 -66.231912, 18.426325 -66.228731
Source: Topoview, Metric

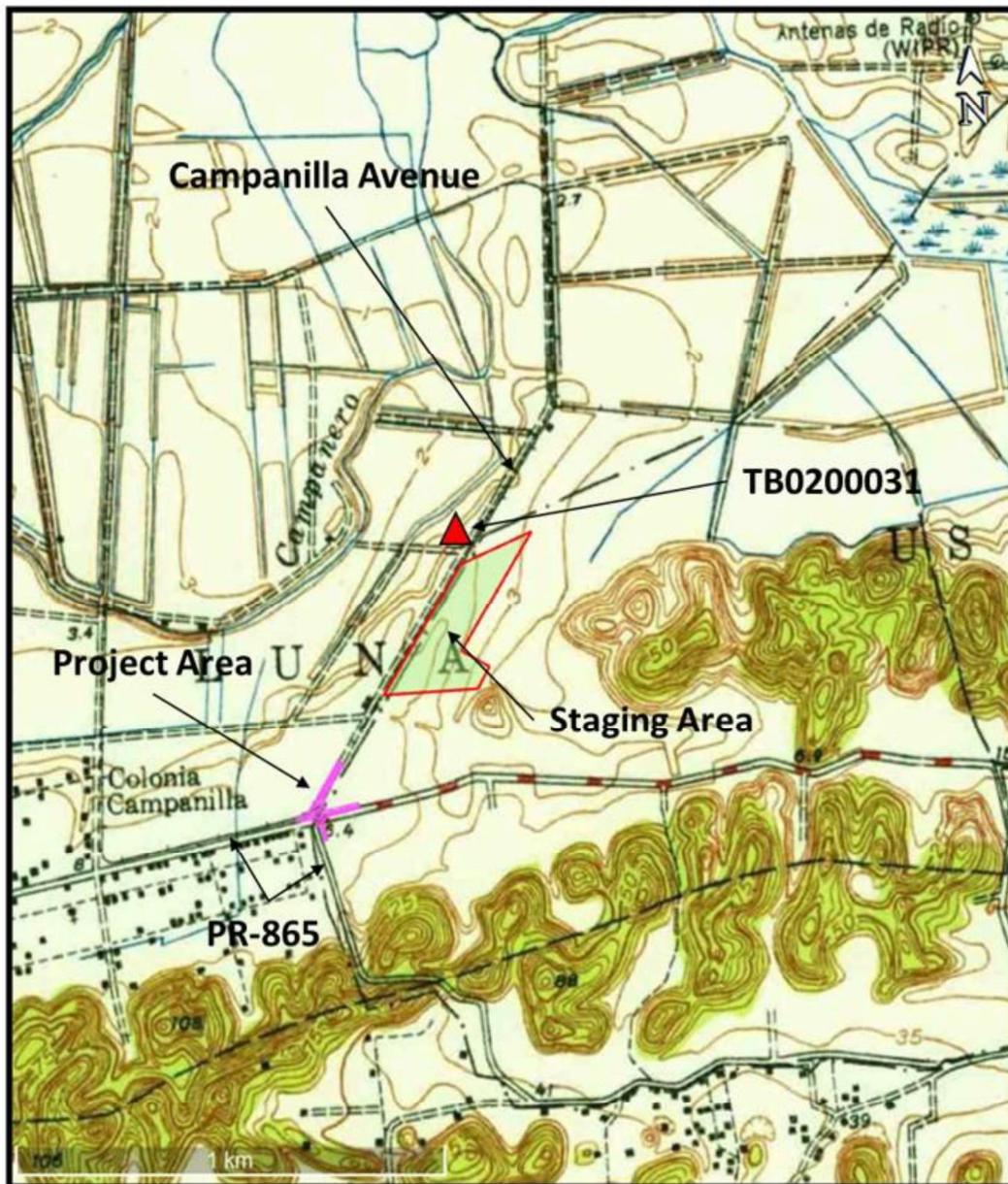


Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993

Figure 6. Project (Parcel) Location - USGS Topographic Map 1947 ed. 1952
Coordinates 18.422301 -66.231912, 18.426325 -66.228731
Source: Topoview, Metric

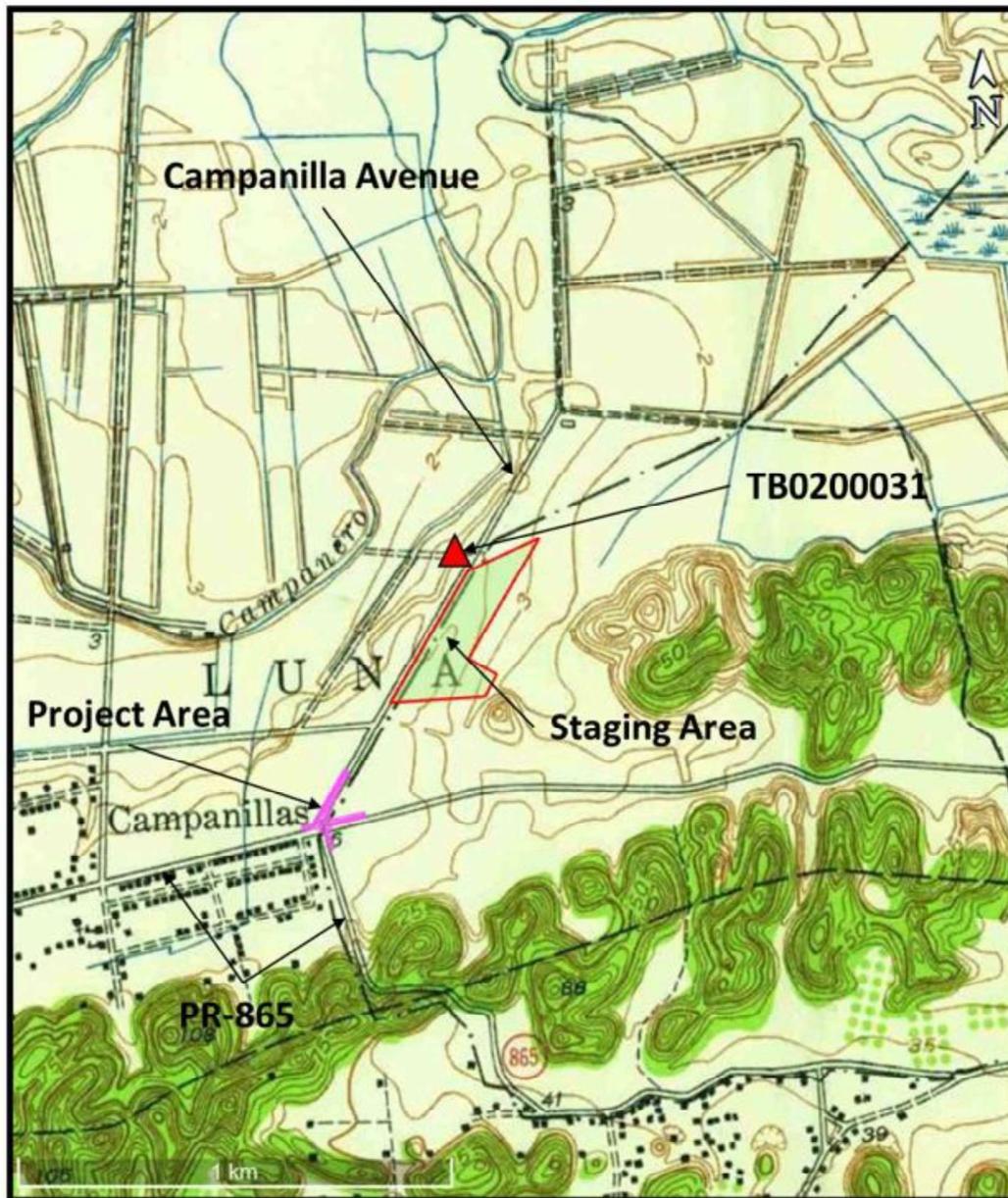


Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993

Figure 7. Project (Parcel) Location - USGS Topographic Map 1957
Coordinates 18.422301 -66.231912, 18.426325 -66.228731
Source: Topoview, Metric

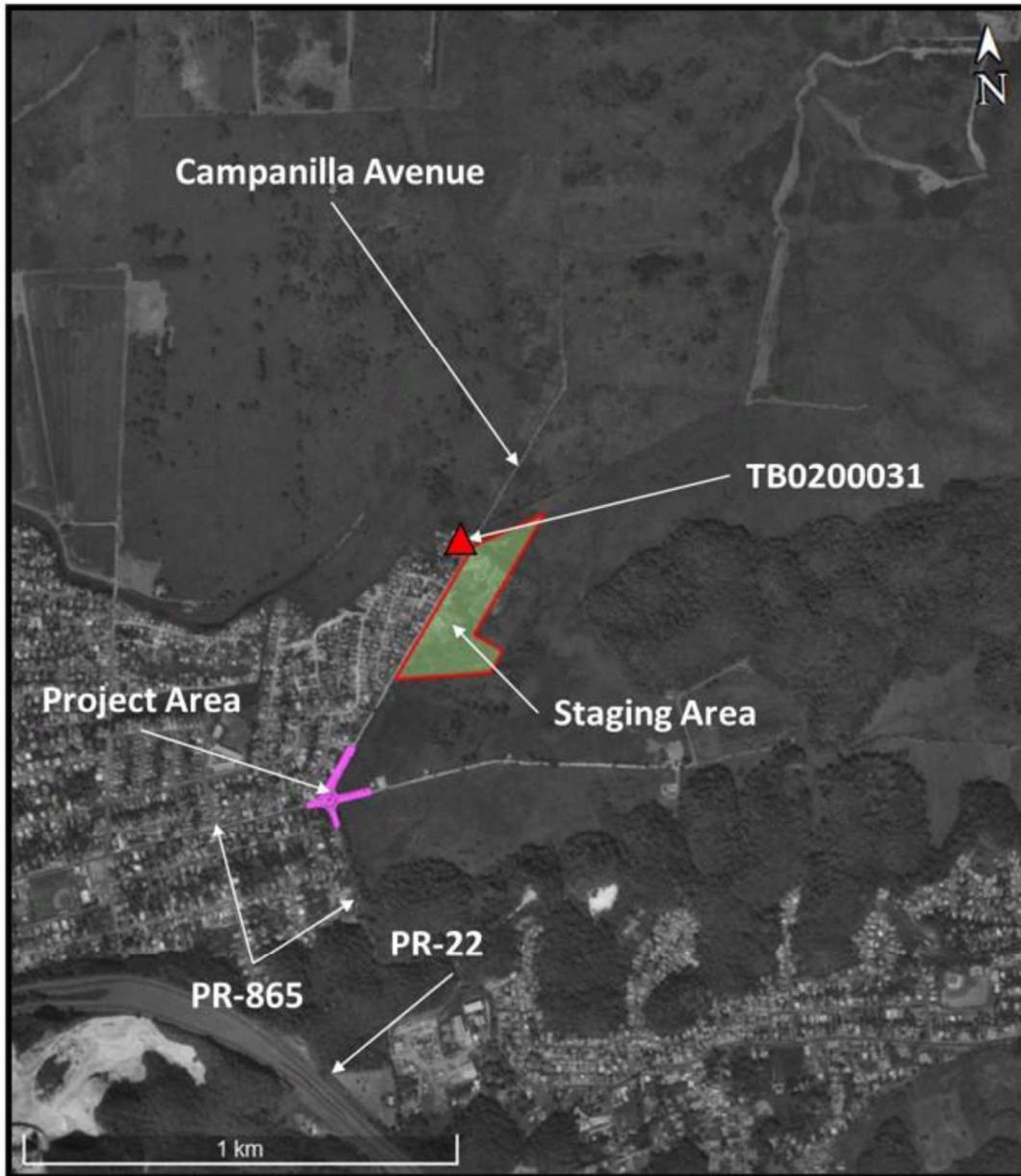


Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993

**Figure 8. Project (Parcel) Location - Aerial Photo 1994,
Coordinates 18.422301 -66.231912, 18.426325 -66.228731
Photo: Google Earth, Metric**



Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993

**Figure 9. Project (Parcel) Location - Aerial Photo January 2004,
Coordinates 18.422301 -66.231912, 18.426325 -66.228731
Photo: Google Earth, Metric**



Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993

Figure 10. Photography Key Project Area
Coordinates 18.422301 -66.231912, 18.426325 -66.228731
Source: Google Earth, Metric



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



Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993



Photo #: 1

Description (include direction): Area where the roundabout will be built, looking northwest.

Date: August 21, 2023



Photo #: 2

Description (include direction): Area where the roundabout will be built, looking west.

Date: August 21, 2023

Subrecipient: Toa Baja Municipality

Project Name: Rotonda PR-865 int. Ave. Campanillas, Campanilla

Project Number: PR-CRP-000993



Photo #: 3

Description (include direction): Staging area to the north of the mausoleum, looking northeast.

Date: August 21, 2023



Photo #: 4

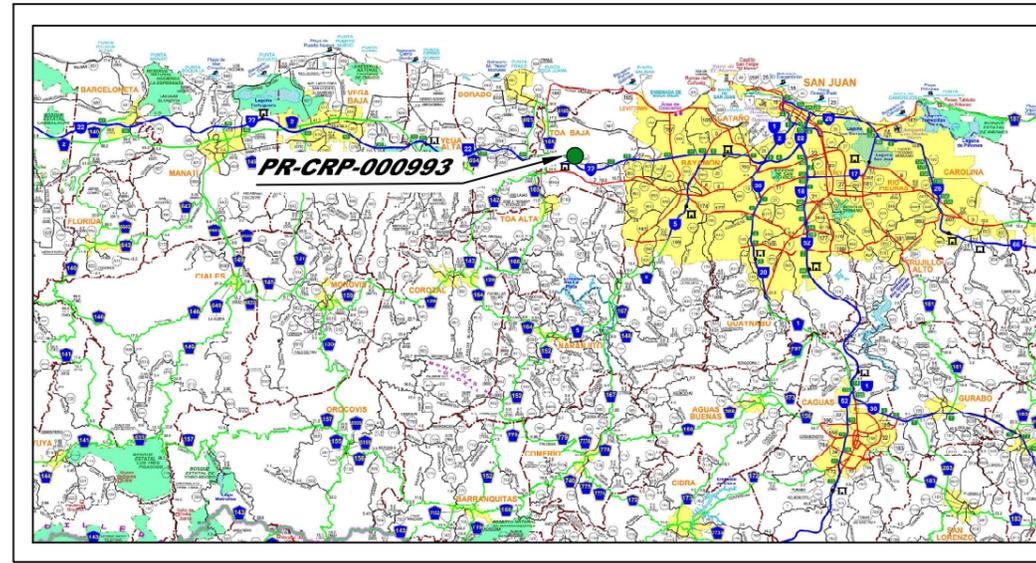
Description (include direction): Staging area to the south of Obras Públicas of Toa Baja, looking east.

Date: August 21, 2023

HIGHWAY PR	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PR-865	TOA BAJA	PR	2022	1	14

SCHEDULE OF DRAWINGS

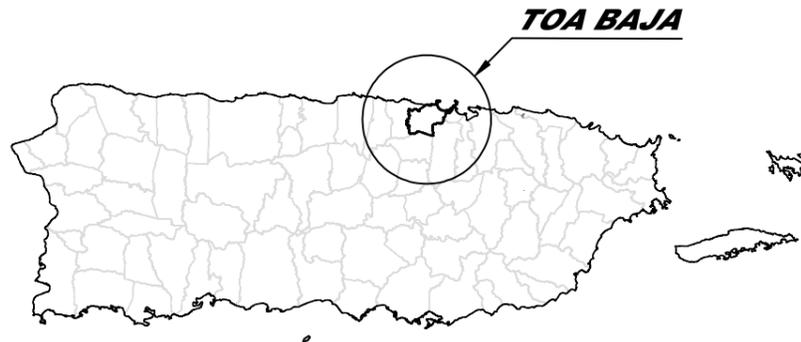
SHEET NO.	DESCRIPTION	DWG. NO.
1	TITLE SHEET	GR/1
2	GENERAL NOTES AND LEGEND	GR/2
3	KEY PLAN	GR/3
4	TYPICAL SECTION – EXISTING	GR/4
5	TYPICAL SECTION – PROPOSED	GR/5
6	CENTER LINE, VERTEX DATA AND SURVEY TIES TABLES	GR/6
7	EXISTING CONDITION	GR/7
8 – 9	SOIL EROSION AND SEDIMENT CONTROL PLAN	EC/1 – EC/2
10	PLAN	PP/1
11	P.R.A.S.A. UTILITIES PLANS	UTW/1
12	P.R.E.P.A. UTILITIES PLANS	UTE/1
13	TELECOMMUNICATION PLANS	UTT/1
14	TREE INVENTORY PLANS	RD/1



LOCATION PLAN
SCALE.....1: 20,000

GENERAL DESIGN CRITERIA

- PR-865**
- HIGHWAY DESIGN CODE – PR HIGHWAY DESIGN DIRECTIVES.2012/ PRHTA STANDARD DRAWINGS LAST EDITION
 - AASHTO-A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (2011)
 - STRUCTURES DESIGN CODE – AASHTO LRFD BRIDGE SPECIFICATIONS, 9TH ED/2020
 - DESIGN CLASS CODE (PRHTA GENERAL DESIGN STANDARDS) – RE-3
 - FUNCTIONAL HIGHWAY CLASSIFICATION (AASHTO) – RURAL EXPRESSWAY
 - FUNCTIONAL HIGHWAY CLASSIFICATION (PRHTA) – MINOR ARTERIAL ROAD
 - CONTROL OF ACCESS (FULL, PARTIAL, NONE) – NONE
 - AVERAGE DAILY TRAFFIC (ACTUAL) – 9,400 (2023)
 - AVERAGE DAILY TRAFFIC (FUTURE, YEAR) – 11,500 (2043)
 - DESIGN HOURLY VOLUME (DHV) – 1,150
 - DIRECTIONAL DISTRIBUTION (D) – 50/50
 - PERCENT OF TRUCK (T) – NOT AVAILABLE
 - DESIGN SPEED (V) – 35MPH
 - MAXIMUM GRADE – 3%
 - TYPE OF TERRAIN (LEVEL, ROLLING, MOUNTAINOUS) – LEVEL
 - MINIMUM CURVE RADIUS – 140M
 - MAXIMUM SUPERELEVATION – 8%
 - DESIGN LOAD FOR STRUCTURES – HL-93



NOTE :

"ALL WORK ON THIS PROJECT SHALL BE PERFORMED AND ALL MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND GENERAL PROVISIONS APPROVED BY THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY IN 2005 AND SUBSEQUENT AMENDMENTS, THE MUTCD LATEST EDITION AND THE PRHTA STANDARD DRAWINGS IN EFFECT AT THE TIME OF BIDDING, WITH THE STANDARD DRAWINGS, WITH THESE PLANS AND WITH ALL SPECIAL PROVISIONS AND INSTRUCTIONS INCLUDED IN THE CONTRACT BOOK"

30% Submittal
07/31/2023

PREPARED BY:



1250 AVENIDA PONCE DE LEON
SAN JOSE BUILDING, SUITE 809
HATO REY, PUERTO RICO
00907 Tel: (939)-545-1510

ENG. FELIPE LUYANDA-ANDINO
NO. 14344

PE.

DATE

EXCEPTIONS	APPROVAL DATE BY PRHTA
1	
2	
3	

PROJECTS
PR-CRP-000993

ROADWAY IMPROVEMENTS
HIGHWAY PR-865

ROUNDABOUTS

MUNICIPALITY OF TOA BAJA, PUERTO RICO

WORK BY DATE
 DESIGN ###
 DRAWING ###
 TRACED ###
 CHECK ###
 FINAL CHECK ###
 FILE NAME: I:\PROJECTS\16.5001-TOA BAJA ROUNDABOUT\CAD DRAWINGS\1. GR\SITE C 000993\GR-1.DWG; PLOT DATE: Monday, July 31, 2023 7:30:40 PM

ABBREVIATIONS

ABUT.	ABUTMENT	L.P.	LIGHT POLE
AGG.	AGGREGATE	M.B.	MAIL BOX
AH.	AHEAD	M.L.	MAIN LINE
AL.	ALUMINUM	M.H.	MANHOLE
ASB.	ASBESTOS	MAX.	MAXIMUM
ASPH.	ASPHALT	M.H.W.	MEAN HIGH WATER
BK.	BACK	M.S.L.	MEAN SEA LEVEL
B.L.	BASE LINE	MIN.	MINIMUM
B.W.F.	BARBED WIRE FENCE	MON.	MONUMENT
B.V.	BEARING VALUE	O.C.	ON CENTERS
B & S	BELL AND SPIGOT	O.D.	OUTSIDE DIAMETER
B.M.	BENCH MARK	O. TO O.	OUTSIDE TO OUTSIDE
BIT.	BITUMINOUS	PVMT.	PAVEMENT
CONC.	CONCRETE	PCC.	POINT OF COMPOUND CURVATURE
B.C.C.M.P.	BITUMINOUS COATED CORRUGATED METAL PIPE	PC.	POINT OF CURVATURE
BLDG.	BUILDING	PI.	POINT OF INTERSECTION
C.I.	CAST IRON	PRC.	POINT OF REVERSE CURVE
C.I.P.	CAST IRON PIPE	PT.	POINT OF TANGENCY
C.B.	CATCH BASIN	P.C.C.	PORTLAND CEMENT
C.L.	CENTER LINE	PWR.	CONCRETE POWER
C. TO C.	CENTER TO CENTER	P.P.	POWER POLE
CTD.	COA TED	P.L.	PROPERTY LINE
COL.	COLUMN	PROP.	PROPOSED
COM.	COMMUNICATIONS	P.G.	PROPOSED GRADE
CONC.	CONCRETE	P.V.I.	POINT OF VERTICAL INTERSECTION
C.O.A.	CONTROL OF ACCESS	R	RADIUS OF CURVATURE
COORD.	COORDINATES	RR.	RAILROAD
C.M.	CORRUGATED METAL	R.C.P.	REINFORCED CONCRETE PIPE
C.M.P.	CORRUGATED METAL PIPE	RET.	RETAINING
CU.P.	CUBIC METER	RT	RIGHT
CULV.	CULVERT	R.O.W.	RIGHT OF WAY
CS. C.	CURVE TO SPIRAL CUT	RD.	ROAD
DEG.	DEGREE	RDWAY.	ROADWAY
DIA.	DIAMETER	SAN.S	SANITARY SEWER
DIM.	DIMENSION	S.M.H.	SANITARY SEWER MANHOLES
DWG.	DRAWING	SHDR.	SHOULDER
DWY.	DRIVEWAY	SW.	SIDEWALK
ELEV.	ELEVATION	SC.	SPIRAL TO CURVE
E. TO E.	END TO END	ST.	SPIRAL TO TANGENT
ENGR.	ENGINEER	SQ.M.	SQUARE METER
EST.	ESTIMATE	STA.	STATION
EXC.	EXCAVATION	S.S.	STORM SEWER
EXIST.	EXISTING	STR.	STRUCTURE
E.G.	EXISTING GROUND	S.G.	SUBGRADE
EXP.	EXPANSION	S.L.	SURVEY LINE
EXT.	EXTERNAL	T	TANGENT DISTANCE OF CURVE
E	EXTERNAL DISTANCE	TS.	TANGENT TO SPIRAL
E.H.W.	EXTREME HIGH WATER	TEL	TELEPHONE
F. TO F.	FACE TO FACE	T.P.	TELEPHONE POLE
FA.	FEDERAL AID	T.E.	TOP ELEVATION
FAP	FEDERAL AID PRIMARY	T.G.	TOP OF GRATE
F.A.S.	FEDERAL AID SECONDARY	UG.	UNDERGROUND
F.	FILL	V.C.	VERTICAL CURVE
F.L.	FLOW LINE	VERT.	VERTICAL
FWD.	FORWARD	W.M.	WATER MAIN
G.I.	GALVANIZED IRON	W.MTR.	WATER METER
G.	GAS	W.V.	WATER VALVE
G.V.	GAS VALVE	W.W.	WING WALL
GRAV.	GRAVEL	W.M.F.	WIRE MESH FENCE
GRD.	GROUND	W.I.	WROUGHT IRON
H.W.	HIGH WATER		
HOR	HORIZONTAL		
HYD. INV.	HYDRANT		
I.E.	INVERT		
J.B.	INVERT ELEVATION		
LT.	JUNCTION BOX		
L.	LEFT		
	LENGTH OF CURVE		

STANDARD SYMBOLS

FEATURE	S Y M B O L	
	PROPOSED	EXISTING
CENTER LINE	---	---
SURVEY MONUMENT		△
SPOT ELEVATION		134.25
BENCH MARK		B.M. X NO.3
HORIZONTAL P.I.		△ V-3
NORTH ARROW		⊕
CONTOUR LINES		
PAVEMENT		
GUARD RAIL		
BARRIER		
BARRICADE		
CONS. PARAPETS		
FENCE	-X-X-	-X-X-
PROPERTY LINE		-PL-PL-
R.O.W. LINE & MON.		
WATER LINE	-WS-WS-	-WS-WS-
STORM LINE	-STM-STM-	-STM-STM-
SANITARY LINE	-S-	-S-
TELEPHONE LINE	-TEL-TEL-	-TEL-TEL-
ELECTRIC LINE	-E-	-E-
T/E LINE	-TEL/E-	-TEL/E-
GUY CABLE		
WATER MANHOLE		⊙
STORM MANHOLE		⊙
SANITARY MANHOLE		⊙
TELEPHONE MANHOLE		⊙
ELECTRIC MANHOLE		⊙
INLETS		
HEADWALLS		
WATER COURSE		
PAVED DITCH		
WATER METER		⊙
WATER VALVE		⊙
FIRE HYDRANT		⊙
UTILITY POLE		⊙ U
TELEPHONE POLE		⊙ T
WOODEN POWER POLE		⊙
WOODEN LIGHT POLE		⊙
CONC. LIGHT POLE		⊙
CONC. POWER POLE		⊙
CABLE TV BOX		⊙
TELEPHONE BOOTH		⊙
ELECTRIC BOX		⊙
RIP RAP PAVING		
EARTH		
ROCK		
BUILDING		
BLDG. TO DEMOLISH		
SIGNS, GROUND, MTD.		
TREES		

GENERAL NOTES

- METRIC SYSTEM HAS BEEN USED THROUGHOUT THE PROJECT UNLESS OTHERWISE SPECIFIED.
- ALL ELEVATIONS ARE REFERRED TO MEAN SEA LEVEL AND SHOWN IN METERS.
- ALL COORDINATES USED ARE LAMBERT SYSTEM.
- NORTH INDICATOR POINTS TO THE TRUE NORTH.
- ARROW ON CULVERTS, DITCHES AND STREAMS SHOW THE DIRECTION OF FLOW.
- FLATTENING OF SLOPES SHALL BE PERFORMED WHEREVER POSSIBLE AS DIRECTED BY THE ENGINEER.
- NEW CONSTRUCTION WORK SHALL MATCH EXISTING HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING FACILITIES.
- STANDARD DRAWINGS SHALL FOLLOW THE LATEST DRAWINGS ADOPTED BY THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY.
- ANY DAMAGE TO EXISTING PAVEMENT AS CONSEQUENCES OF CONSTRUCTION WORKS SHALL BE REPAIRED BY THE CONTRACTOR AS A SUBSIDIARY OBLIGATION UNDER SPECIFICATION 401 AND ITS PAY ITEMS.
- EXISTING PIPES AND DRAINAGE STRUCTURES TO REMAIN SHALL BE CLEANED. ANY DRAINAGE STRUCTURE THAT REQUIRES AN ADJUSTMENT TO MEET THE PROPOSED ELEVATION SHALL BE A SUBSIDIARY OBLIGATION UNDER SPECIFICATION 603 AND ITS PAY ITEMS.
- CONSTRUCTION WORK RELATED TO EXCAVATION AND STRUCTURES SHALL BE PERFORMED UNDER THE INSPECTION OF A GEOTECHNICAL ENGINEER OR AS INSTRUCTED BY THE SOIL ENGINEERING OFFICE OF THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY.
- THE CONTRACTOR SHALL BE CAREFUL NOT TO AFFECT EXISTING UTILITIES TO REMAIN AND SHALL COORDINATE WITH UTILITY OWNERS THE LOCATION OF ANY UTILITY WITHIN PROJECT LIMITS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION WORKS.

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

FILE NAME: \\PROJECTS\16.5001-TOA BAJA ROUNDABOUT\CAD DRAWINGS\1. GR\SITE C 000993\GR-3.DWG; PLOT DATE: Monday, July 31, 2023 7:30:45 PM

AUTONOMOUS MUNICIPALITY OF TOA BAJA



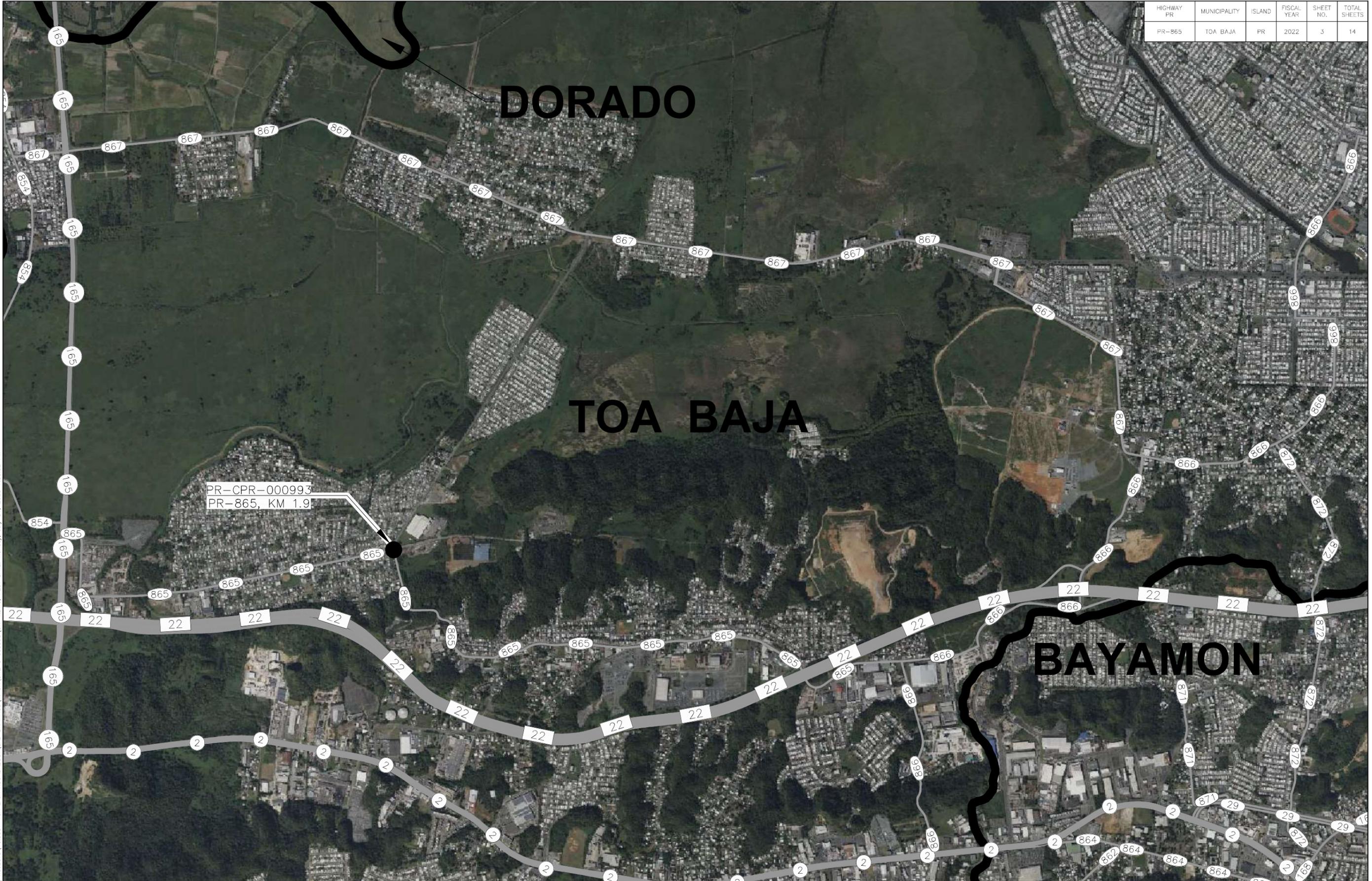
PR-CRP-000993 ROUNDABOUT
ROADWAY IMPROVEMENTS PR-865 AND AVE. CAMPANILLA
AUTONOMOUS MUNICIPALITY OF TOA BAJA, PUERTO RICO

DATE	REVISIONS

NOT TO SCALE

GENERAL NOTES, LEGEND AND SYMBOLS

HIGHWAY PR	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PR-865	TOA BAJA	PR	2022	3	14



PR-CPR-000993
PR-865, KM 1.9

WORK	BY	DATE
DESIGN	##	##
DRAWING	##	##
TRACED	##	##
CHECK	##	##
FINAL CHECK	##	##

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AUTONOMOUS MUNICIPALITY OF TOA BAJA



PR-CRP-000993 ROUNDABOUT
ROADWAY IMPROVEMENTS PR-865 AND AVE. CAMPANILLA
AUTONOMOUS MUNICIPALITY OF TOA BAJA, PUERTO RICO

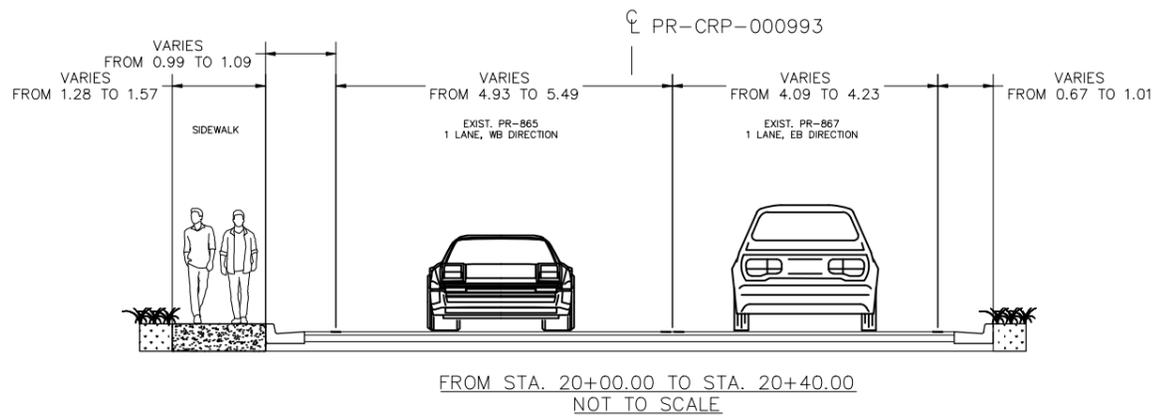
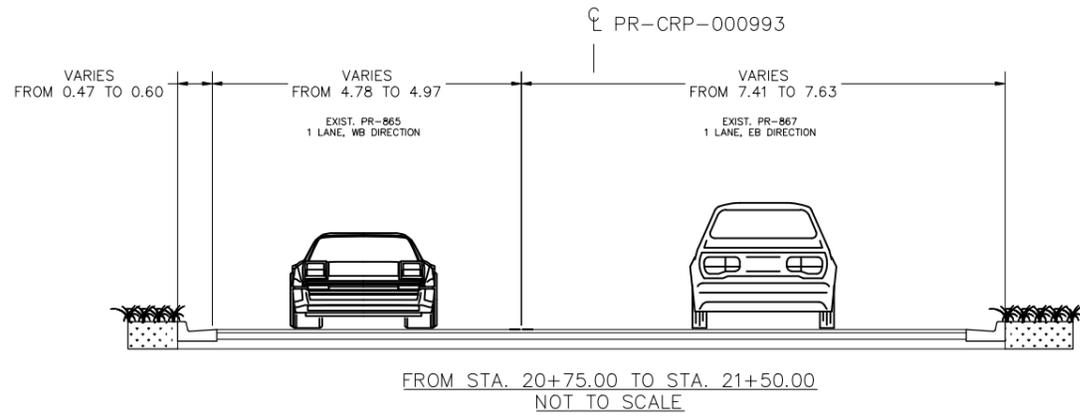
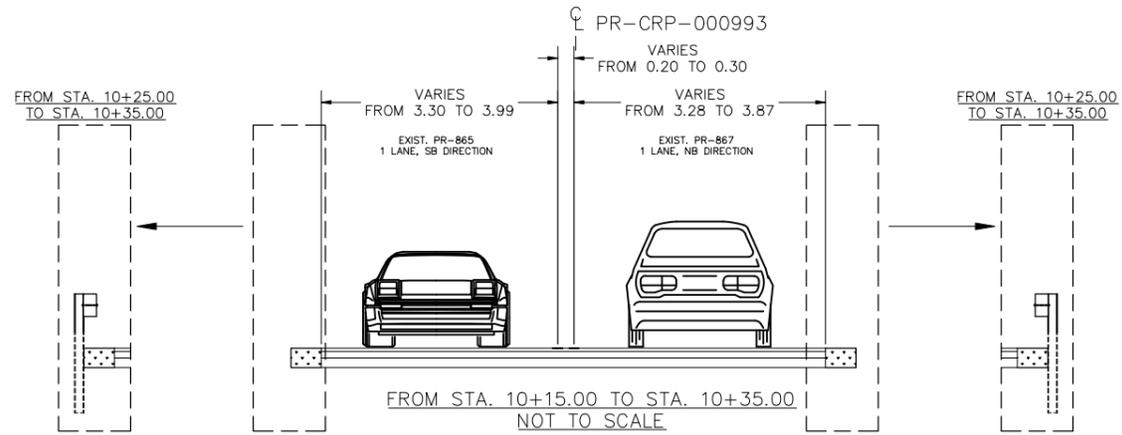
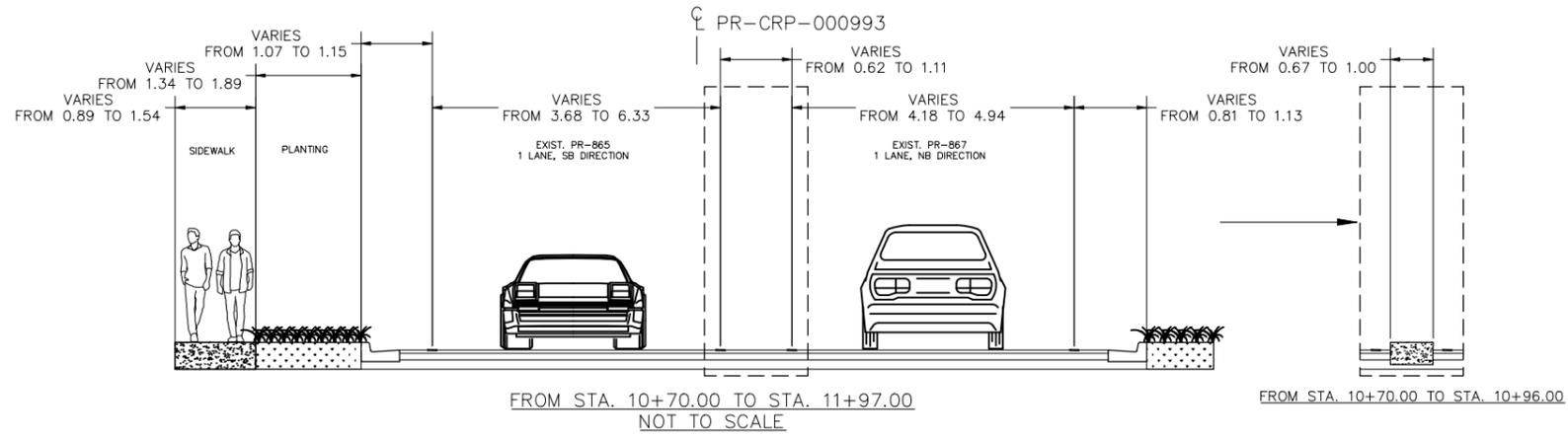
DATE	REVISIONS



KEY PLAN

GR
3

HIGHWAY PR	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PR-865	TOA BAJA	PR	2022	4	14



WORK BY DATE
 DESIGN ## ##
 DRAWING ## ##
 TRACED ## ##
 CHECK ## ##
 FINAL CHECK ## ##
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AUTONOMOUS MUNICIPALITY OF TOA BAJA



PR-CRP-000993 ROUNDABOUT
ROADWAY IMPROVEMENTS PR-865 AND AVE. CAMPANILLA
AUTONOMOUS MUNICIPALITY OF TOA BAJA, PUERTO RICO

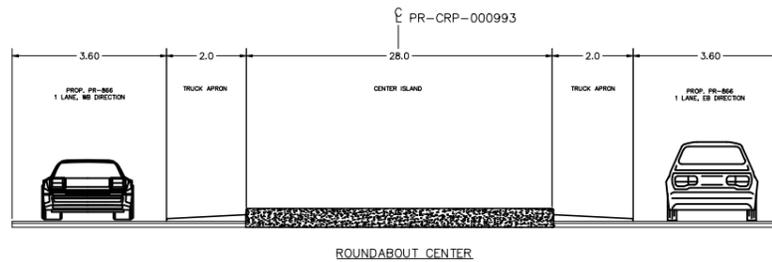
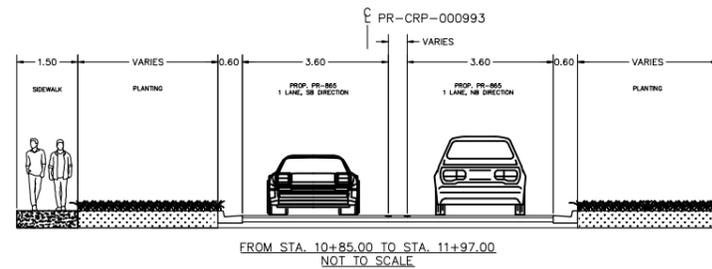
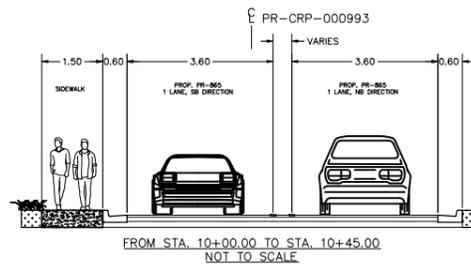
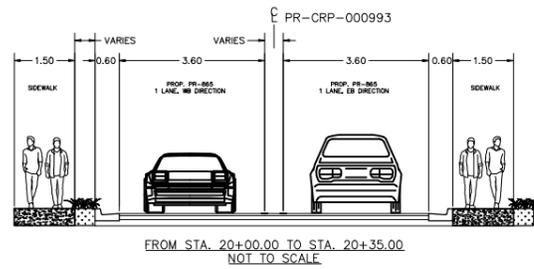
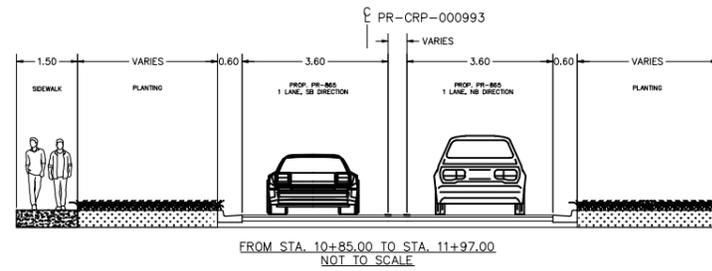
DATE	REVISIONS

NOT TO SCALE

TYPICAL SECTION - EXISTING

GR
4

HIGHWAY PR	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PR-865	TOA BAJA	PR	2022	5	14



WORK BY DATE
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AUTONOMOUS MUNICIPALITY OF TOA BAJA



PR-CRP-000993 ROUNDABOUT
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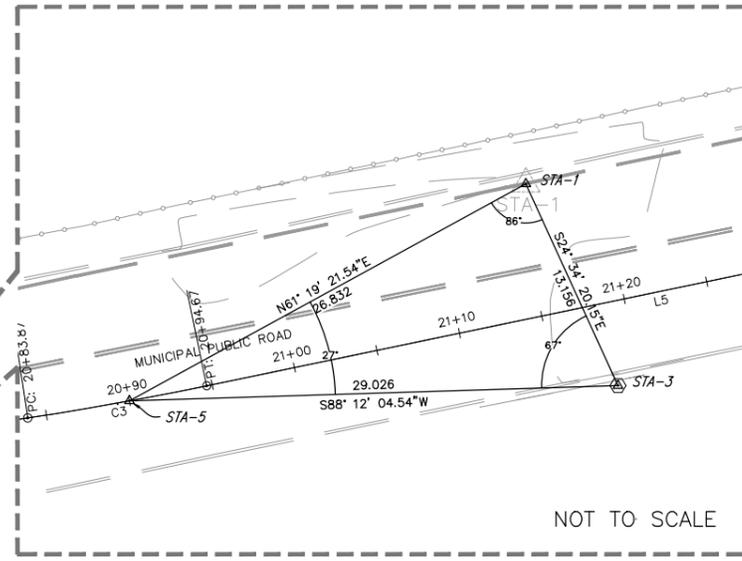
DATE	REVISIONS

NOT TO SCALE

TYPICAL SECTION - PROPOSED

GR
5

HIGHWAY PR	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PR-865	TOA BAJA	PR	2022	6	14



LEGEND:

- T TELEPHONE POLE
- POWER LINE
- △ CONTROL POINTS

SURVEYOR POINT TABLE
PR-865, KM 1.9

POINT	EASTING	NORTHING	ELEVATION	DESCRIPTION
1	221338.6590	265215.8720	6.2660	STA. 1
2	221303.3170	265209.1650	6.6110	STA. 2

HORIZONTAL & VERTICAL CONTROL POINT TABLE PR-865, KM 1.9

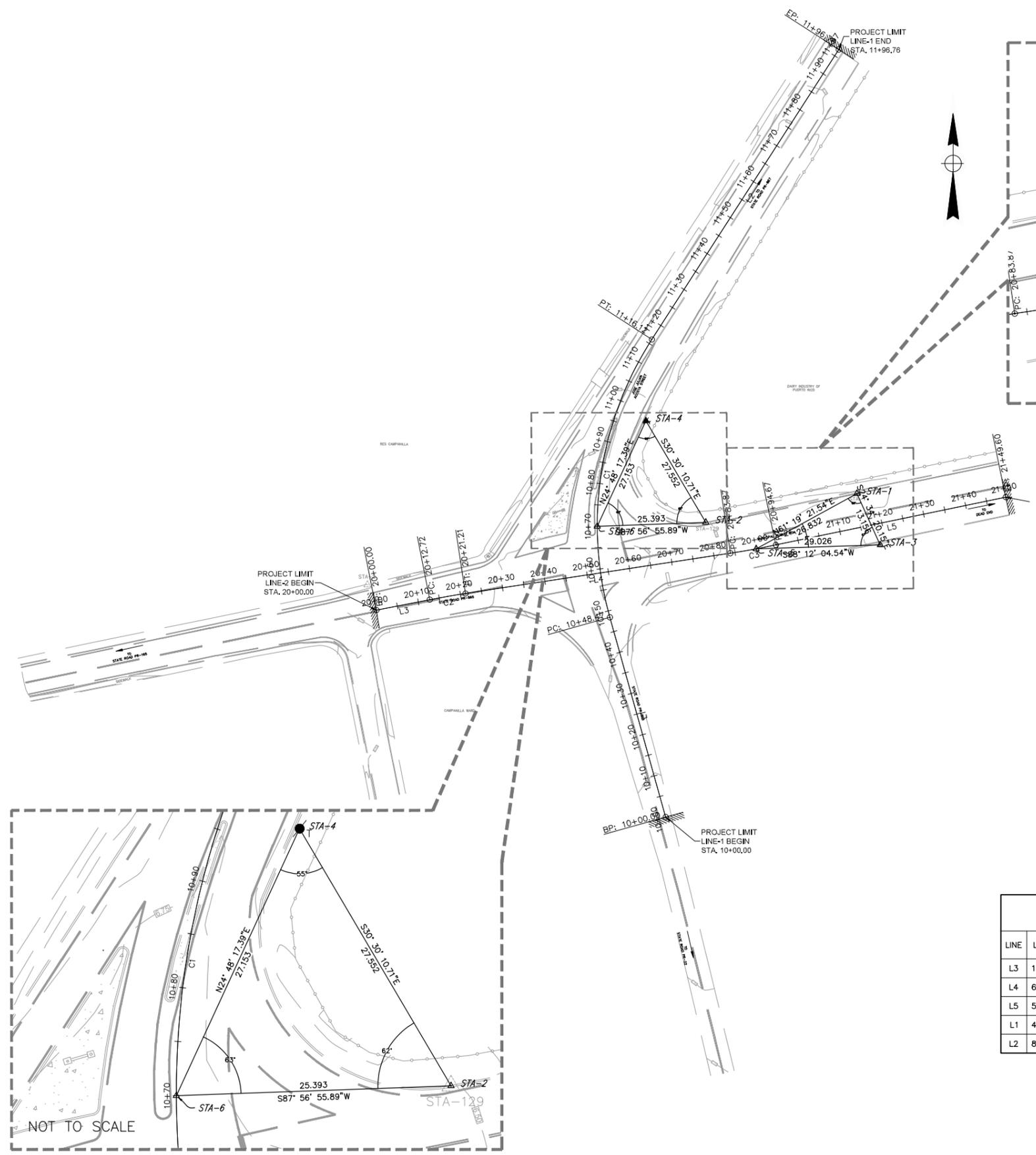
POINT	EASTING	NORTHING	ELEVATION	DESCRIPTION
1	221277.9406	265208.2562	6.7803	STA. 10+70
2	221315.1182	265202.9959	6.4172	STA. 20+90
3	221289.3320	265232.9040	6.5740	TELEPHONE POLE
4	221344.1300	265203.9070	6.6640	POWER POLE
5	221303.3170	265209.1650	6.6110	STA. 2
6	221338.6590	265215.8720	6.2660	STA. 1

LINE DATA TABLE
PR-865, KM 1.9

LINE	LENGTH	BEARING	START POINT		END POINT	
			(X)	(Y)	(X)	(Y)
L3	12.7195	N78° 55' 13.82"E	(221226.2786 ,	265188.6609)	(221238.7610 ,	265191.1052)
L4	62.6680	N81° 21' 06.45"E	(221247.1217 ,	265192.5590)	(221309.0772 ,	265201.9822)
L5	54.9226	N78° 15' 27.46"E	(221319.7060 ,	265203.8937)	(221373.4793 ,	265215.0711)
L1	48.4670	N15° 37' 35.30"W	(221293.9523 ,	265140.3171)	(221280.8970 ,	265186.9927)
L2	80.6362	N32° 49' 34.85"E	(221290.7147 ,	265251.9094)	(221334.4271 ,	265319.6695)

CURVE DATA TABLE
PR-865, KM 1.9

CURVE	RADIUS	LENGHT	CHORD DIRECTION	DELTA	TANGENT
C2	200.0000	8.4868	N80° 08' 10.14"E	2.4313	4.2440
C3	200.0000	10.8007	N79° 48' 16.96"E	3.0942	5.4016
C1	80.0000	67.6529	N8° 35' 59.78"E	48.4528	35.9978



WORK	BY	DATE
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TRACED	##	##
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FINAL CHECK	##	##

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AUTONOMOUS MUNICIPALITY OF TOA BAJA



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AUTONOMOUS MUNICIPALITY OF TOA BAJA, PUERTO RICO

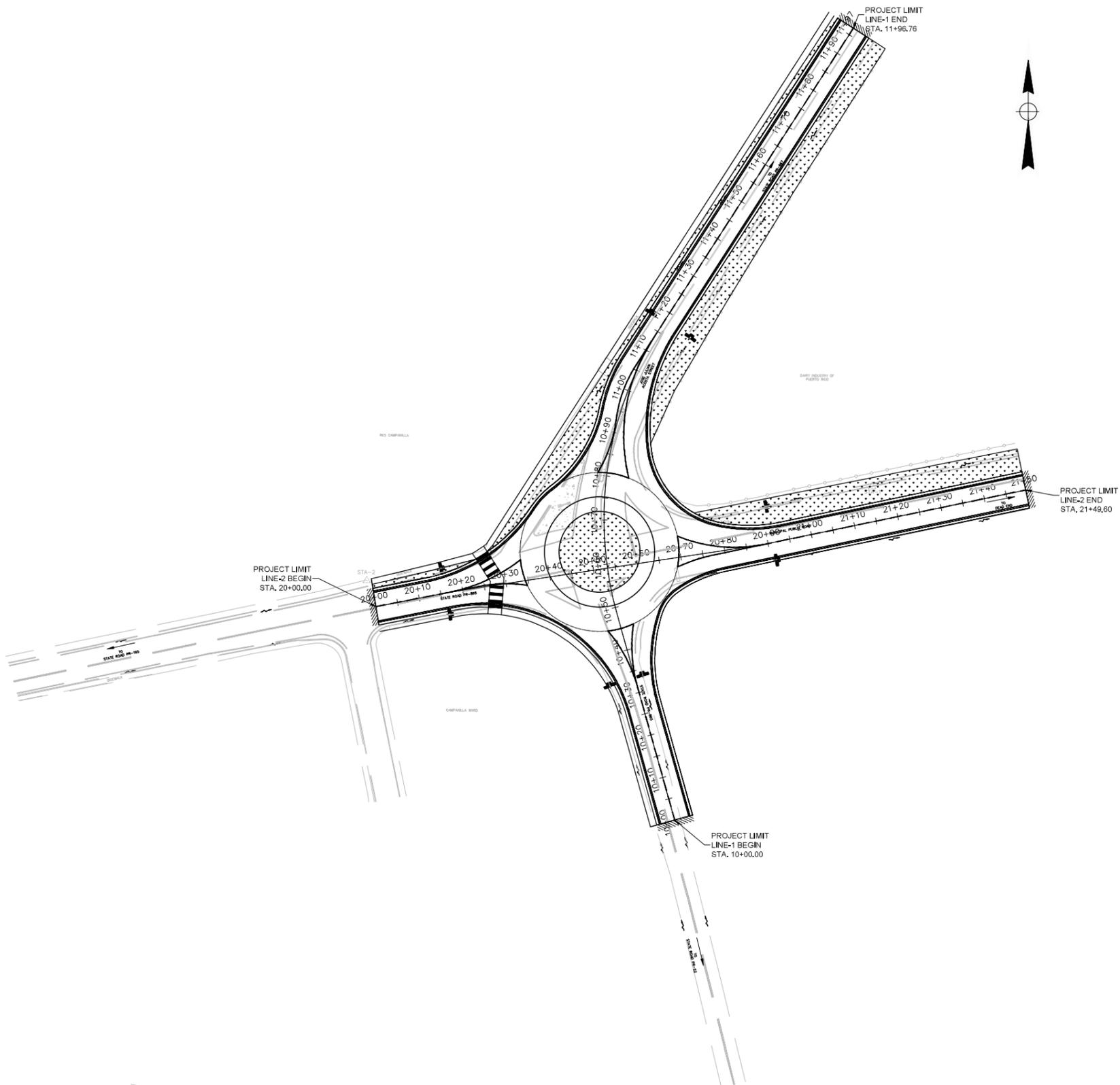
DATE	REVISIONS



CENTER LINE, VERTEX DATA AND SURVEY TIES
TABLE

GR
7

HIGHWAY PR	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PR-865	TOA BAJA	PR	2022	8	14



LEGEND:

	STRAW BALE
	WATER FLOW DIRECTION
	SILT FENCE

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 CONSTRUCTION IS COMPLETED.
2. ALL DISTURBED AREAS SHALL BE PROTECTED BY THE GENERAL CONSOLIDATED PERMIT MEASURES EVEN THOUGH CONSTRUCTION ONLY INCLUDES PART OF THE PARCEL.
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 ESTABLISHED CONSTRUCTION ENTRANCE AS DETAILED ON DWG. EC-2.
5. THE CONTRACTOR SHALL MAINTAIN A WATER TANK TRUCK TO SPRAY THE WORKING AREAS WHEN NEEDED OR WHEN THE PROJECT INSPECTOR REQUIRES IT. A WATER HOSE SHALL BE INSTALLED NEAR ESTABLISHED CONSTRUCTION ENTRANCE TO WASH THE CONSTRUCTION VEHICLES WHEELS.
6. THE CONTRACTOR SHALL STRICTLY FOLLOW THE GUIDELINES STATED IN THE GENERAL CONSOLIDATED PERMIT 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 POSSIBLE OR AS INSTRUCTED BY THE PROJECT INSPECTOR.
9. ANY MODIFICATION PROPOSAL TO THE GENERAL CONSOLIDATED PERMIT 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. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN THE CONSOLIDATED GENERAL PERMIT IN ACCORDANCE WITH THE DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
- 12.

WORK	BY	DATE
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AUTONOMOUS MUNICIPALITY OF TOA BAJA



PR-CRP-000993 ROUNDABOUT
ROADWAY IMPROVEMENTS PR-865 AND AVE. CAMPANILLA
AUTONOMOUS MUNICIPALITY OF TOA BAJA, PUERTO RICO

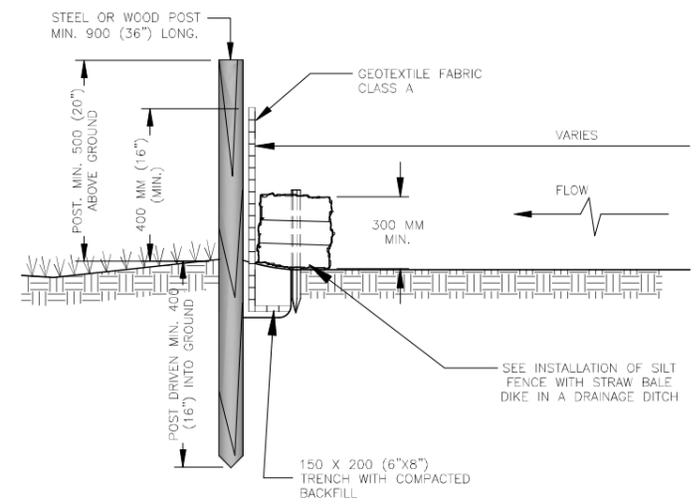
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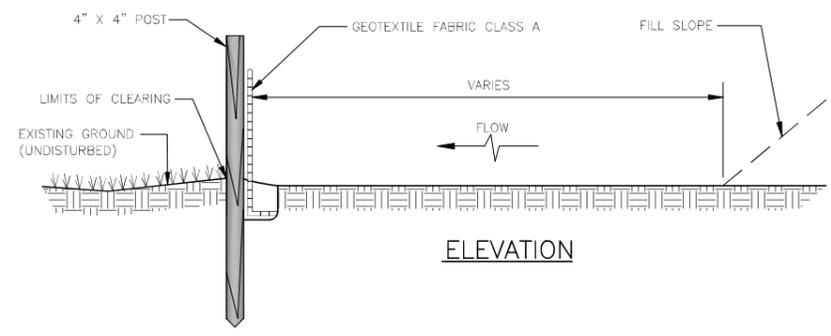
EROSION CONTROL PLAN

EC
1

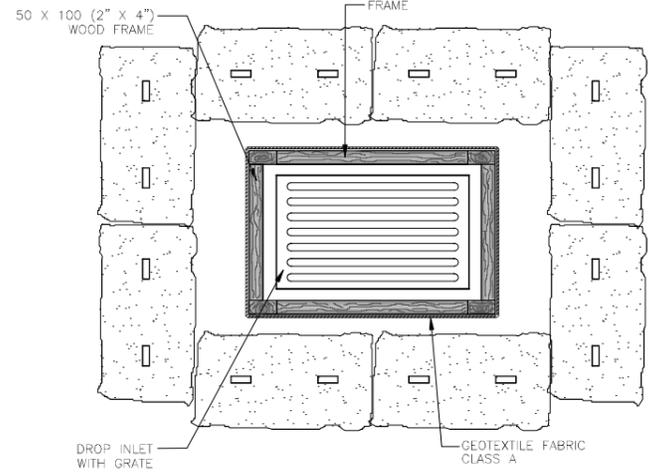
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PR-865	TOA BAJA	PR	2022	9	14



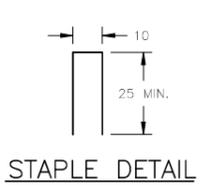
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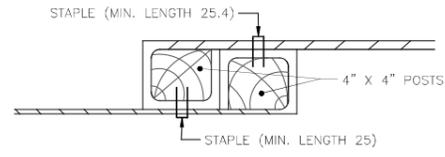
ELEVATION



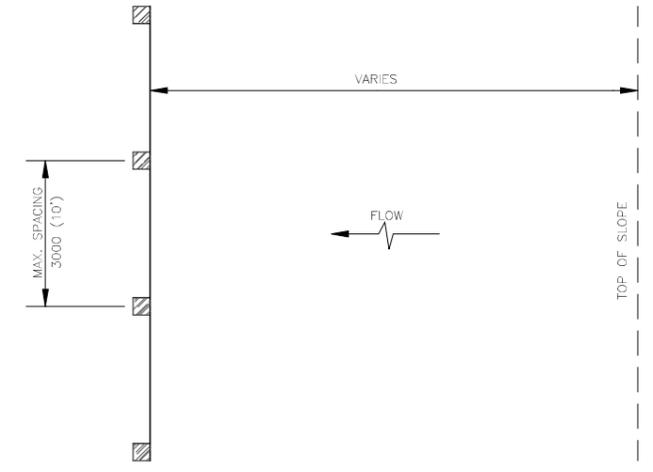
TOP VIEW



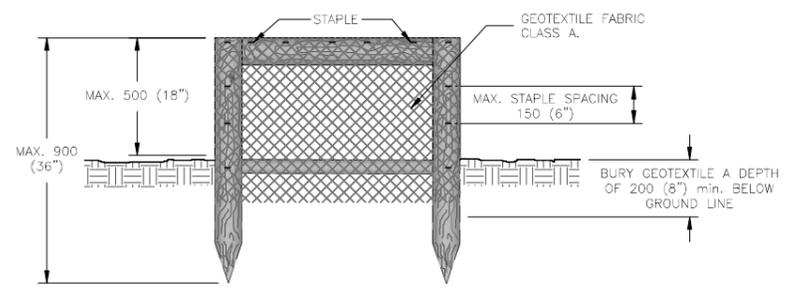
STAPLE DETAIL



TOP VIEW

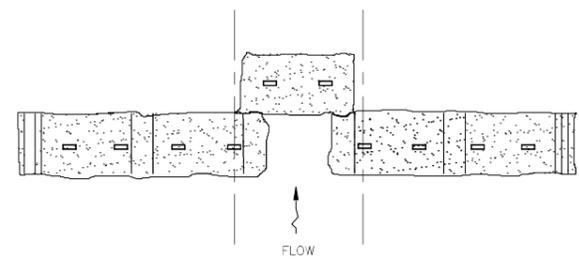


INSTALLATION OF SILT FENCE AT TOE OF FILL

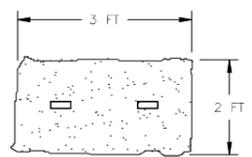


FRONT VIEW

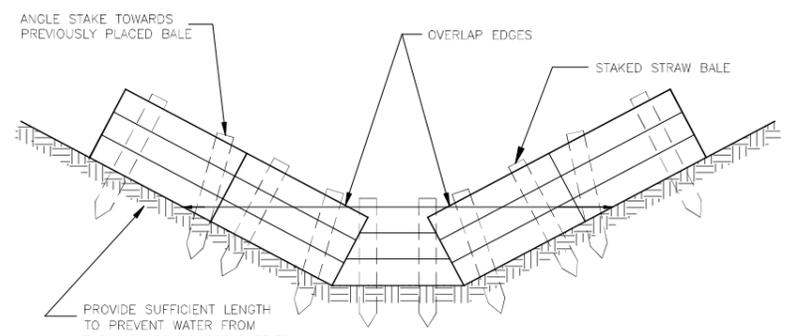
DROP INLET PROTECTION



PLAN

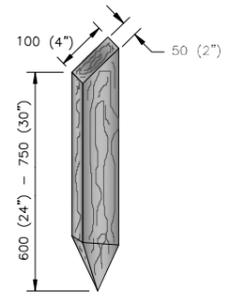


STRAW BALE DETAIL



ELEVATION

INSTALLATION OF SILT FENCE WITH STRAW BALE DIKE IN A DRAINAGE DITCH



WOOD STAKE DETAIL

NOTES:

- SILT FENCES SHALL BE CONSTRUCTED AT THE LOCATION INDICATED IN THE EROSION CONTROL PLAN SHEET (EC-1).
- ALTERNATE PRE-ASSEMBLED SILT FENCE OPTIONS WILL BE ALLOWED AS LONG AS SPECIFIED MINIMUMS ARE SATISFIED. FOLLOW MANUFACTURER'S INFORMATION FOR INSTALLATION PROCEDURES.
- EXCAVATION, BACKFILL, STAPLES AND POSTS ARE SUBSIDIARY OBLIGATIONS.
- THE SILT FENCE GEOTEXTILE FABRIC SHALL COMPLY WITH AASHTO M266.
- SILT FENCE SHALL BE INSPECTED FOR DAMAGE WEEKLY. AFTER RAINFALL ANY DAMAGE FENCE SHALL BE REPAIRED IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAINFALL EVENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH MAINTENANCE WORK.
- WHEN THE DISTRIBUTED AREA HAVE BEEN PROPERLY STABILIZED THE FENCE MAY BE REMOVED AND ANY REMAINING AREAS STABILIZED. THIS WORK WILL BE PERFORMED AS DIRECTED BY THE ENGINEER AS A SUBSIDIARY OBLIGATION.
- 'TOP VIEW' AND 'STAPLE DETAIL' APPLY TO ALL APPLICATIONS SHOWN IN THIS SHEET.
- FOR ALL APPLICATIONS, THE MAXIMUM STAPLE SPACING SHALL BE 6 FT (1.83M)
- ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

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AUTONOMOUS MUNICIPALITY OF TOA BAJA



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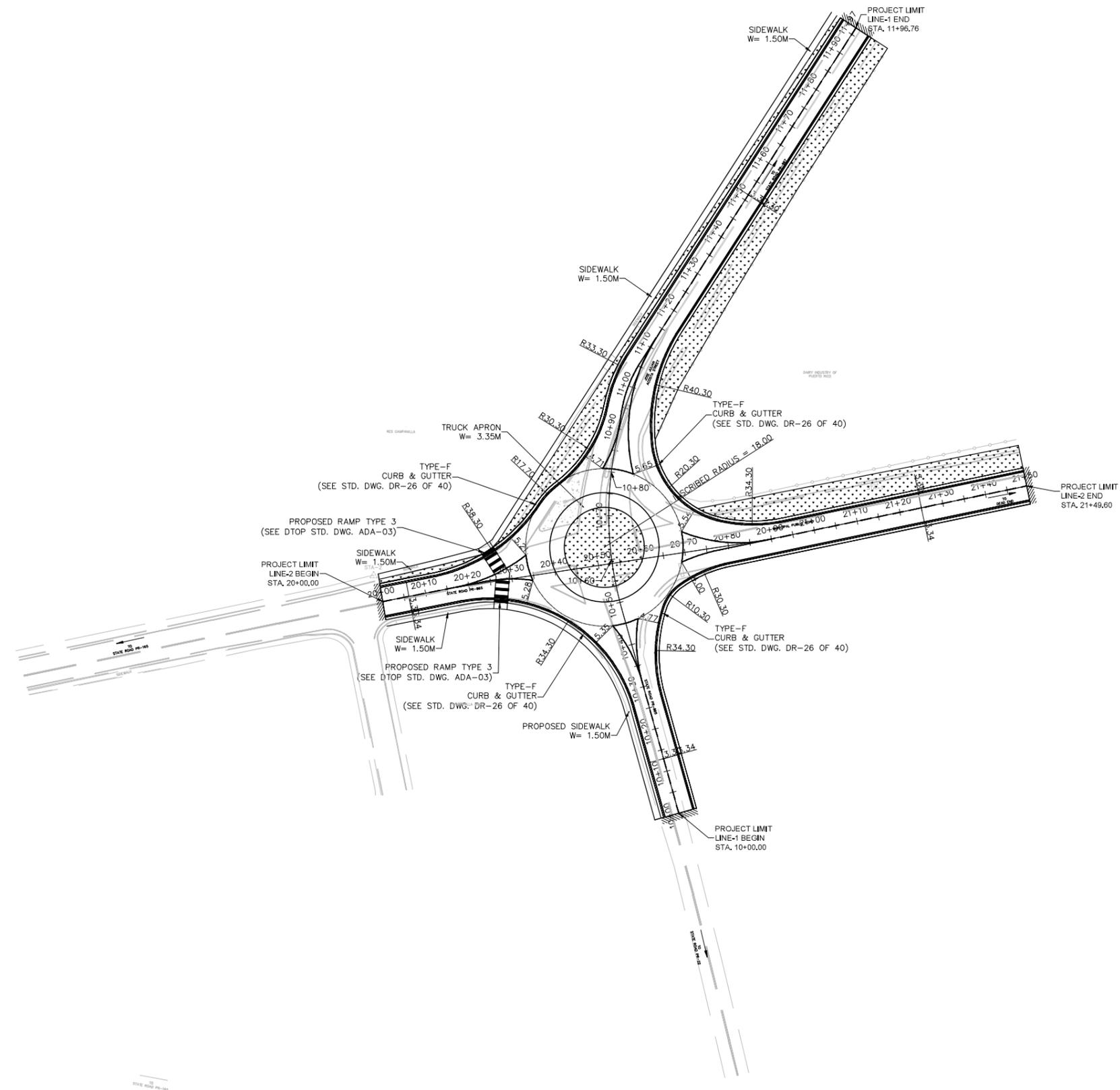
DATE	REVISIONS

NOT TO SCALE

EROSION CONTROL DETAILS

EC
2

HIGHWAY PR	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PR-865	TOA BAJA	PR	2022	10	14



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AUTONOMOUS MUNICIPALITY OF TOA BAJA



PR-CRP-000993 ROUNDABOUT
ROADWAY IMPROVEMENTS PR-865 AND AVE. CAMPANILLA
AUTONOMOUS MUNICIPALITY OF TOA BAJA, PUERTO RICO

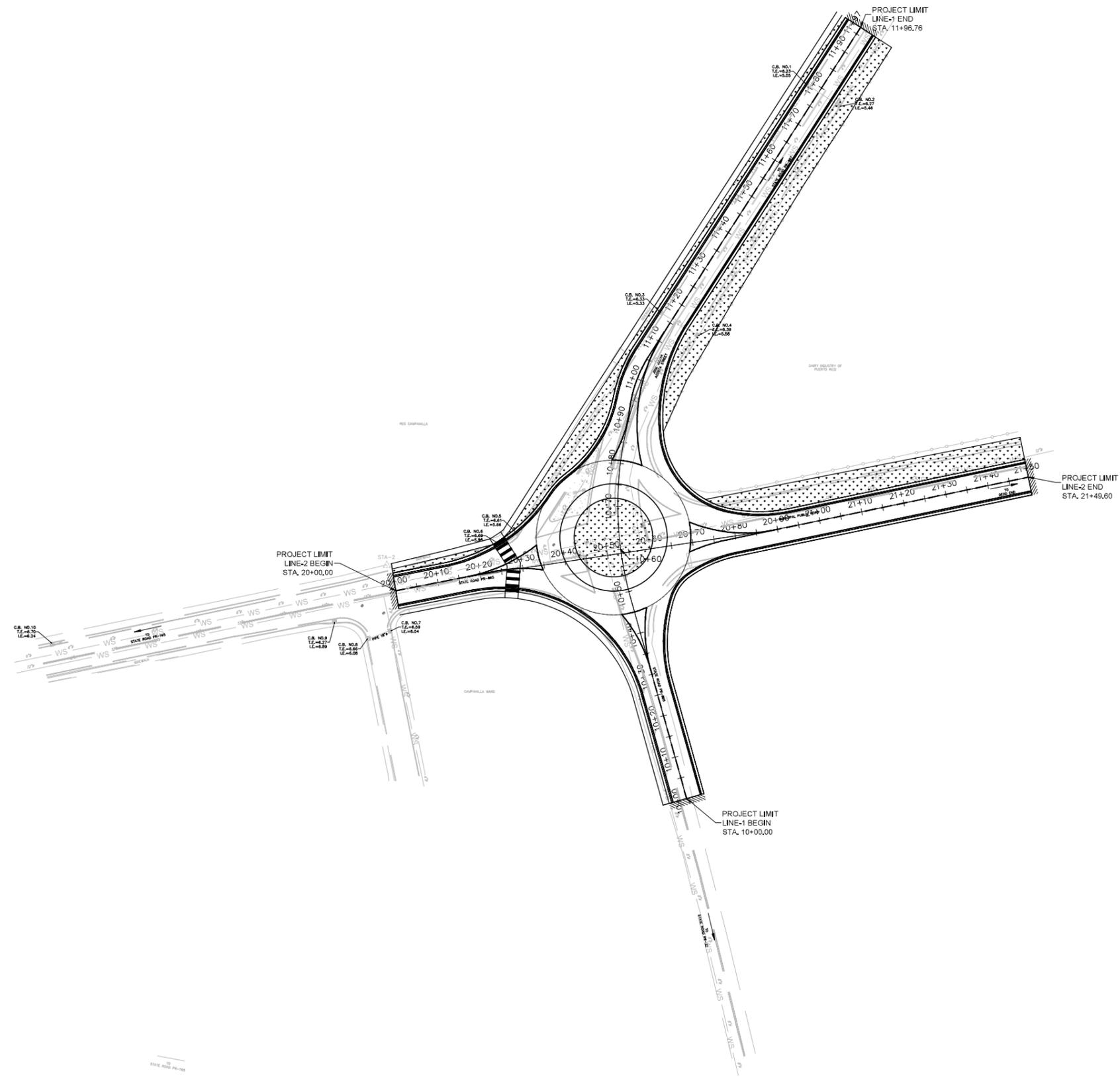
DATE	REVISIONS



PLAN

PP
1

HIGHWAY PR	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PR-865	TOA BAJA	PR	2022	11	14



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AUTONOMOUS MUNICIPALITY OF TOA BAJA



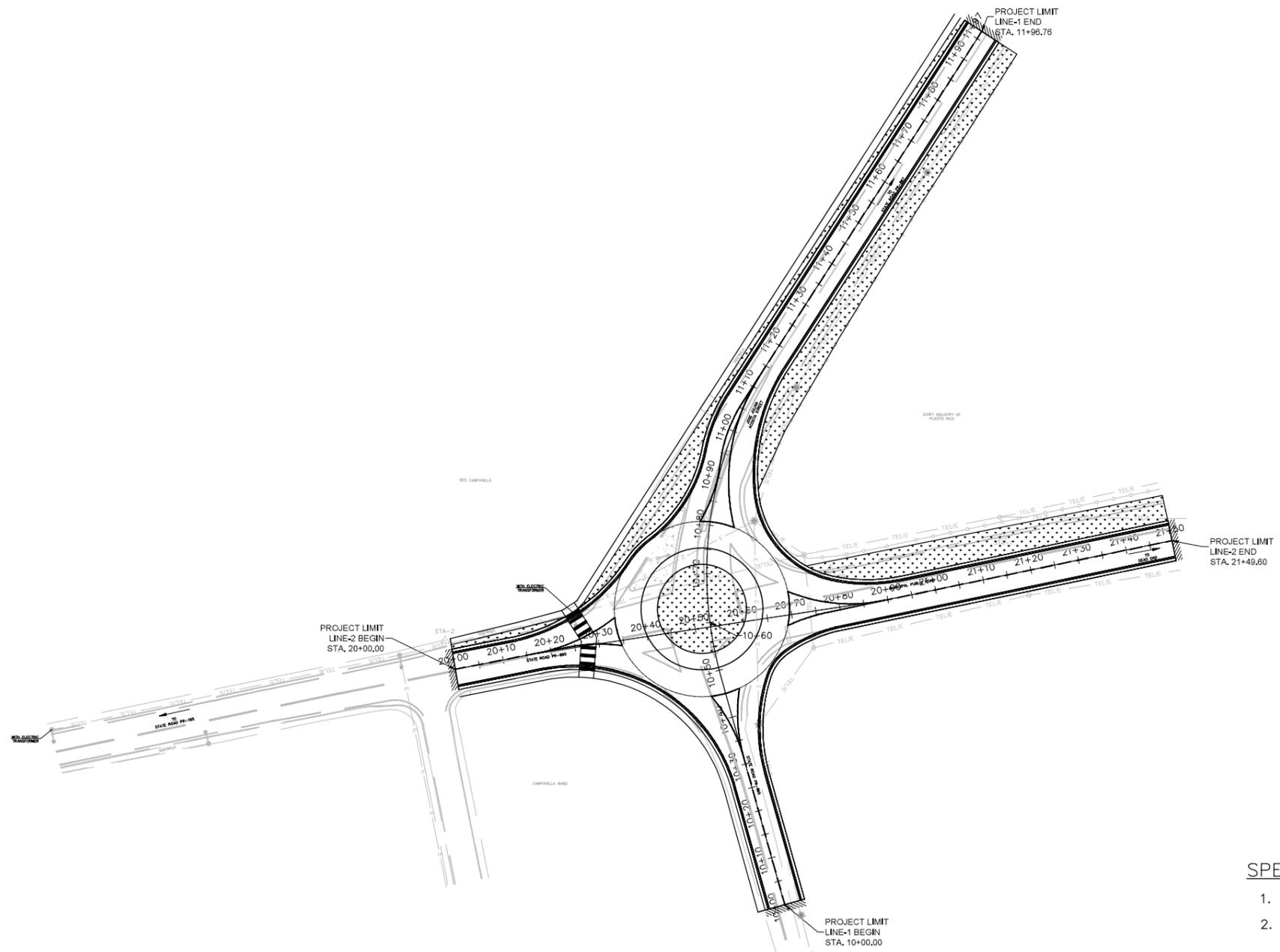
PR-CRP-000993 ROUNDABOUT
ROADWAY IMPROVEMENTS PR-865 AND AVE. CAMPANILLA
AUTONOMOUS MUNICIPALITY OF TOA BAJA, PUERTO RICO

DATE	REVISIONS



EXISTING P.R.A.S.A UTILITY PLAN

HIGHWAY PR	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PR-865	TOA BAJA	PR	2022	12	14



SPECIAL UTILITIES NOTE TO CONTRACTOR:

1. THIS SHEET IS FOR INFORMATION ONLY.
2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXISTING P.R.E.P.A.'S UTILITIES AND COORDINATE WITH THE P.R.E.P.A.'S REGIONAL OFFICE TO AVOID ANY DAMAGE TO EXISTING INFRASTRUCTURE.
3. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED AT HIS OWN COST AT NO EXPENSE TO THE P.R.H.T.A. THIS WORK SHALL BE CONSIDERED SUBSIDIARY OBLIGATION OF THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH P.R.E.P.A.'S REGIONAL OFFICE AS NECESSARY.

FOR INFORMATION ONLY

WORK	BY	DATE
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DRAWING	##	##
TRACED	##	##
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FINAL CHECK	##	##

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AUTONOMOUS MUNICIPALITY OF TOA BAJA



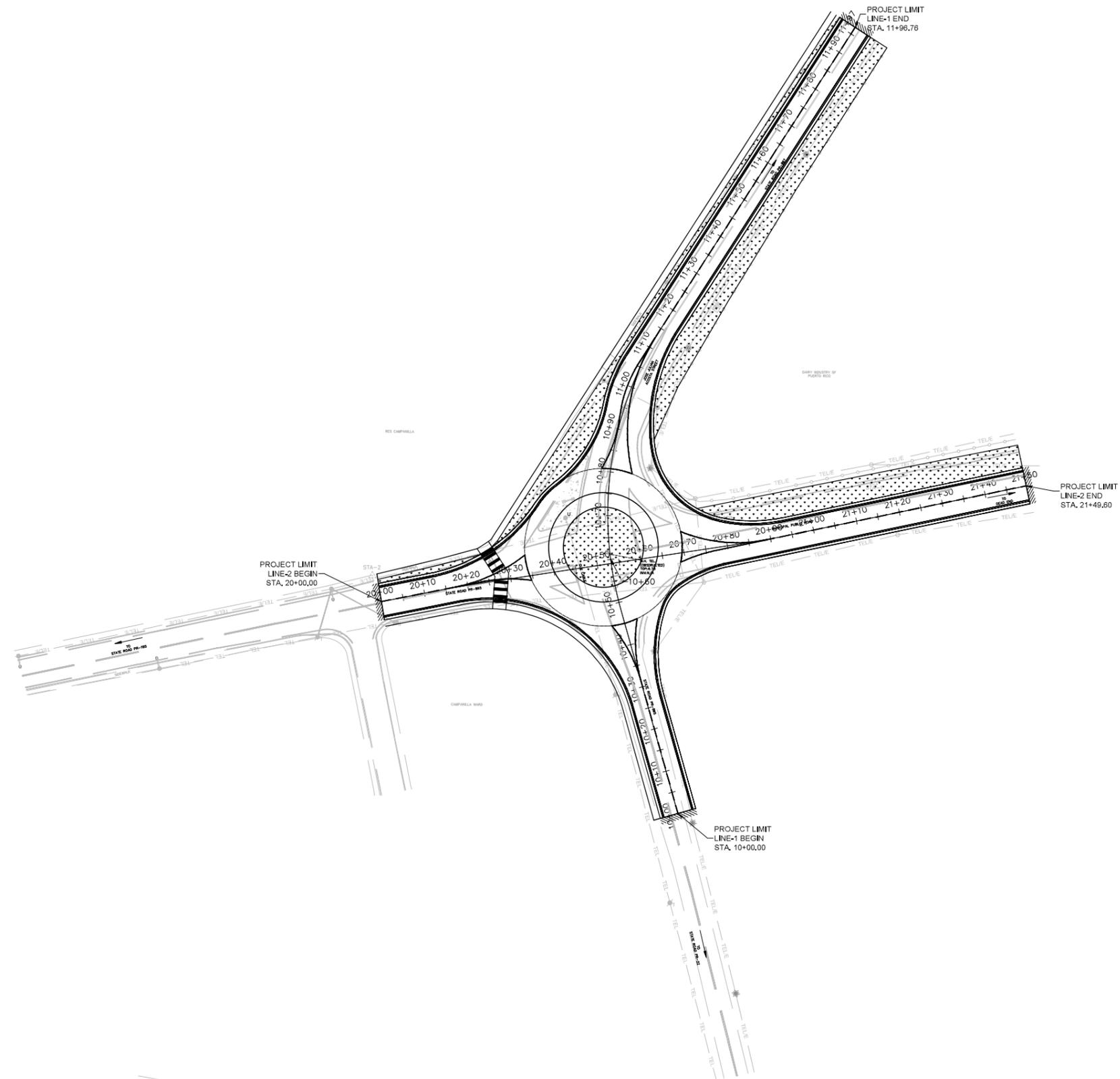
PR-CRP-000993 ROUNDABOUT ROADWAY IMPROVEMENTS PR-865 AND AVE. CAMPANILLA AUTONOMOUS MUNICIPALITY OF TOA BAJA, PUERTO RICO

DATE	REVISIONS



EXISTING P.R.E.P.A UTILITY PLAN

HIGHWAY PR	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PR-865	TOA BAJA	PR	2022	13	14



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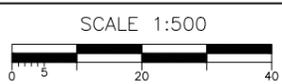
FOR INFORMATION ONLY

AUTONOMOUS MUNICIPALITY OF TOA BAJA



PR-CRP-000993 ROUNDABOUT
ROADWAY IMPROVEMENTS PR-865 AND AVE. CAMPANILLA
AUTONOMOUS MUNICIPALITY OF TOA BAJA, PUERTO RICO

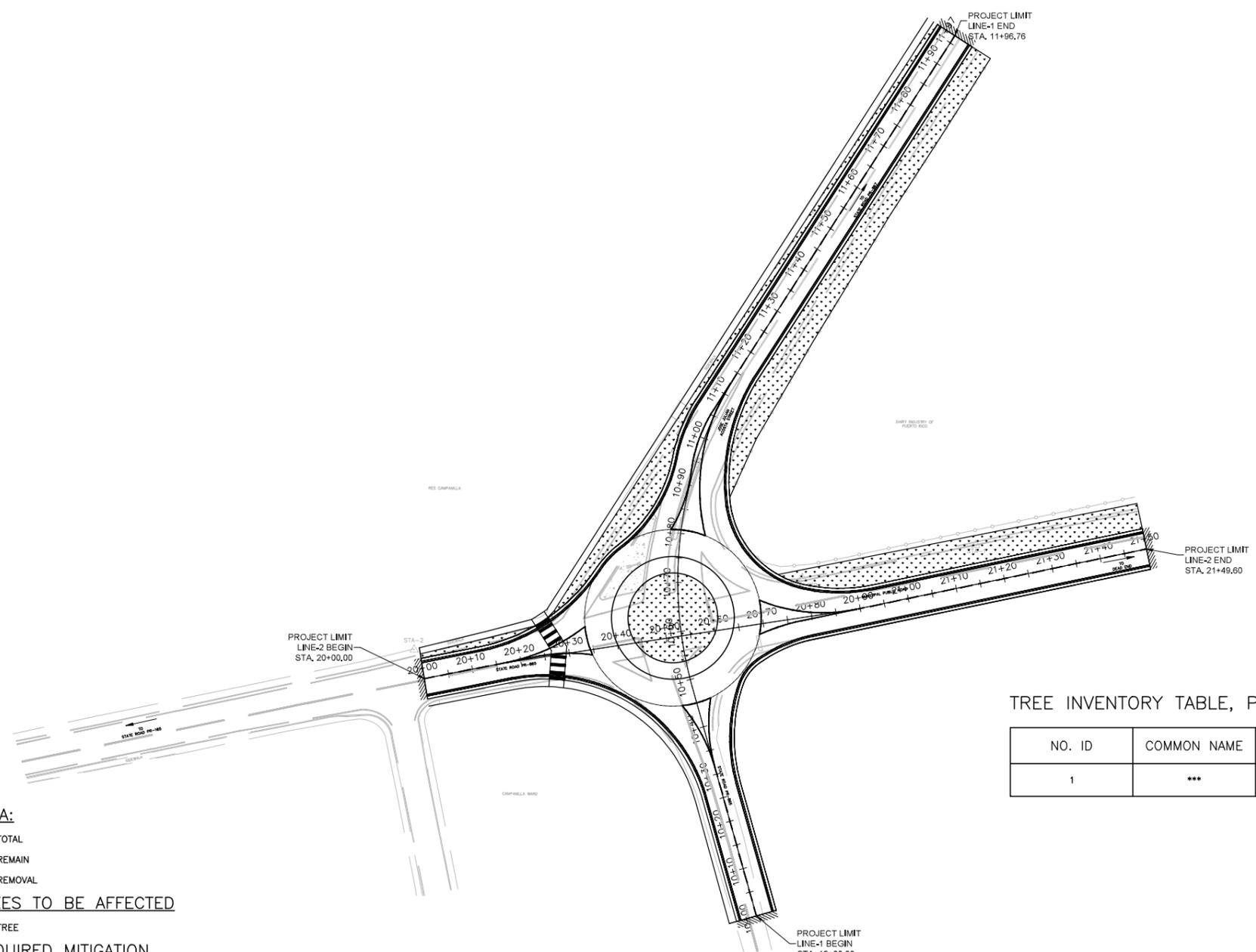
DATE	REVISIONS



EXISTING TELECOMMUNICATION PLAN

UTT
1

HIGHWAY PR	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PR-865	TOA BAJA	PR	2022	14	14



TREE INVENTORY TABLE, PR-865, KM-1.9

NO. ID	COMMON NAME	SCIENTIFIC NAME	DBH (IN.)	APPROX. HEIGHT (FT)	CONDITION	RECOMMENDATION	MITIGATION RATE
1	***	***	***	***	***	***	***

DATA:

- 0 TOTAL
- 0 REMAIN
- 0 REMOVAL

TREES TO BE AFFECTED

- 0 TREE

REQUIRED MITIGATION

- PER "DRNA" AND "ACT" AGREEMENT 2023-000079 MONETARY COMPENSATION OF \$65 WILL ALWAYS BE PROVIDED FOR EACH AFFECTED TREE (TREE MITIGATION OF 2:1) NO MATTER THE DIAMETER AT BREST HEIGHT OF THE AFFECTED TREE.

- TOTAL = 0 TREES

PROPOSED PLANTING

- -- TREES (PROJECT)

COMPENSATORY MITIGATION:

- TREES X \$65 = \$ 000.00

TREE CONDITION RATING:

- 1- VERY POOR
- 2- POOR
- 3- FAIR
- 4- GOOD
- 5- EXCELLENT

NOTES:

1. SURVEY INFORMATION AS PROVIDED BY PROJECT LAND SURVEYOR.
2. THE INVENTORY DATA WAS COLLECTED ON ***** 2023.
3. FOR EXISTING TREES DESCRIPTION AND RECOMMENDATION SEE TREE INVENTORY TABLE ON SHEET SHEET.
4. TREES LOCATION IS APPROXIMATED.
5. ALL ELEVATIONS ARE EXPRESSED IN METERS AND ARE REFERRED TO MEAN SEA LEVEL INDICATED ON THE TOPOGRAPHIC PLAN.

CERTIFICATION:

I CERTIFY THAT THIS INVENTORY HAS BEEN ADEQUATELY PREPARED.

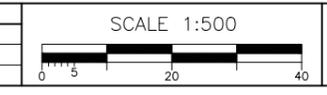
NAME:*****

OGPE AUTHORIZED PLANTING AND REFORESTATION INSPECTOR (*****-ISF-*****)

LEGEND:



1 EXISTING TREE



WORK	BY	DATE
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AUTONOMOUS MUNICIPALITY OF TOA BAJA



PR-CRP-000993 ROUNDABOUT ROADWAY IMPROVEMENTS PR-865 AND AVE. CAMPANILLA AUTONOMOUS MUNICIPALITY OF TOA BAJA, PUERTO RICO

DATE	REVISIONS

TREE INVENTORY PLAN

RD 1

Appendix D: 8 Step Documentation

1. Project Description
2. Step 1 Determine whether the action is located in a 100-year floodplain.
3. Step 2 Involve Public in Decision-Making Process (First Public Notice).
4. Step 3 Determine if there is a Practicable Alternative.
5. Step 4 Identify Adverse and Beneficial Impacts Associated with Floodplain.
6. Step 5 Where practicable, design or modify the proposed action to minimize the potential adverse impacts to lives, property, and natural values within the floodplain and to restore, and preserve the values of the floodplain.
7. Step 6 Reevaluate the Alternatives
8. Step 7 Determination of No Practicable Alternative (Final Public Notice)
9. Step 8 Implement the Proposed Action

8 STEP PROCESS DOCUMENTATION

CDBG-DR PROGRAM

CITY REVITALIZATION PROGRAM

PR-CRP-000993

Rotonda PR-865 int. Ave. Campanilla, Toa Baja

City Revitalization Program
Rotonda PR-865 int. Ave. Campanilla, Toa Baja

**PUERTO RICO DEPARTMENT OF HOUSING
CDBG-DR PROGRAM - CITY REVITALIZATION PROGRAM
8 STEP PROCESS DOCUMENTATION**

Project Information

Project Name: Rotonda PR-865 int. Ave. Campanilla, Toa Baja

Project ID: PR-CRP-000993

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

Grant Recipient: Municipality of Toa Baja

State/Local Identifier: Puerto Rico

Preparer: Eng. Marvic Carmona De Jesus, Engineer in Training Metric Engineering of Puerto Rico, PSC
marvic.carmona@metricpr.com

Project Location: PR-865 intersection with Ave. Campanilla,
Bo. Media Luna, Toa Baja Puerto Rico 00949
Latitude: 18.422301°, Longitude: -66.231912°
Refer to Figure 1 and Figure 2.

Introduction:

The responsible entity¹ is working on the restoration, reconstruction, and the implementation of future vision of their communities that were adversely affected by Hurricane Irma and Maria. The responsible entity is proposing road improvement of multiple roads and intersections through the City Revitalization Program (CRP) of the Puerto Rico Department of Housing (PRDOH) that will reinvigorate, connect, and integrate communities with each other. The proposed actions will dynamically integrate vehicle users with pedestrians by reconstructing intersections and making them safer and users friendly to the nearby communities. As part of the federal funded project, these proposed actions are required to comply with all environmental and historic preservation laws. In this case, we will be evaluating the Executive Orders 11988 which is directed to Floodplain Management through the U.S. Department of Housing and Urban Development (HUD).

The application of Executive Order 11988 will consist in assessing the FEMA Flood Insurance Rate Map (FIRM) and the Advisory Base Flood Elevation (ABFE) maps for Puerto Rico to determine if the project is within the flood-prone areas. The ABFE for this review was recently updated by FEMA on December 11, 2018, after the major hurricanes Irma and Maria hit Puerto Rico.

This documents serves to record the Decision-Making Process² also known as the 8-Steps Process as a consequence of the possible long and short-term adverse impact with the floodplain in Toa Baja. In the future, this report will provide a complete review of the 8-Step Process that will include the analysis of multiple alternatives for the proposed projects and review of their benefits and impacts to the floodplain and the communities.

Project Description:

The responsible entity is proposing the reconstruction of an intersection and replacing it with a roundabout. The project identified as PR-CRP-000993, is an unsignalized intersection on PR-865 at Campanilla Avenue in Media Luna Ward. The primary goal of the road improvements is to improve the mobility and safety of the road users by providing safer speed and safer roads. The roundabout will reduce the vehicular conflict points from 32 to 8, representing a reduction of 75%. Also, the roundabout will provide a reduction of vehicular-to-pedestrian conflict points from 24 to 8, representing a reduction of 66.7%. Overall, the roundabout will improve the connectivity and circulation between Campanilla Avenue, PR-867, PR-865 areas.

The project will have a footprint of 5,217.2 square meters and will remain within the pre-existing footprint of the right of way of the roads and intersection.

Roundabout Benefits:

- Saves lives:
 - Reduction in fatalities,
 - Reduction in injury crashes,
 - Reduction in pedestrian crashes,
 - Reduction in conflict points.
- Slower vehicle speed,
- Efficient traffic flow,
- Reduction in pollution and fuel use,
- Potential money saved,
- Improve Aesthetic landscaping.
- Does not require energy source.

¹ Responsible entity is Puerto Rico Department of Housing (PRDOH)

² 24 CFR Part 55 Floodplain Management and Protection of Wetlands- required the Decision-Making Process to actions that have the potential to impact the floodplain and modification of the wetlands. (<https://www.law.cornell.edu/cfr/text/24/part-55>)

Generally, road improvements will consist of:

1. Pavement preservation and/or reconstruction,
 - a. Asphalt pavement rehabilitation by means of cold milling and resurfacing of existing asphalt pavement,
2. Roundabout construction
3. Sidewalk preservation and/or construction
 - a. Reconstructed sidewalk or construct them when it is required,
 - b. Project will meet with ADA codes,
4. Maintenance of Traffic (MOT),
5. Improvements to storm runoff system, repairing drains & sewer system,
6. Replacement of pavement markings and use of retroreflective devices (raised pavement markers,
7. Speed reduction at pedestrian crossings,
8. Solar lighting poles system,
9. Installation of traffic signs,
10. Urban landscape improvements,
11. Evaluation of asphalt surfaces, crosswalks, and handicapped ramps, and electrical design improvements that comply with current codes and regulations.

Studies:

The following studies were conducted in order to evaluate road conditions:

- Evaluation of Cultural Resources (Archeological Study), Environmental Evaluation, Title Clearance, Geotechnical study, Survey to determine the presence of asbestos and lead, Tree inventory and mitigation planting plan.

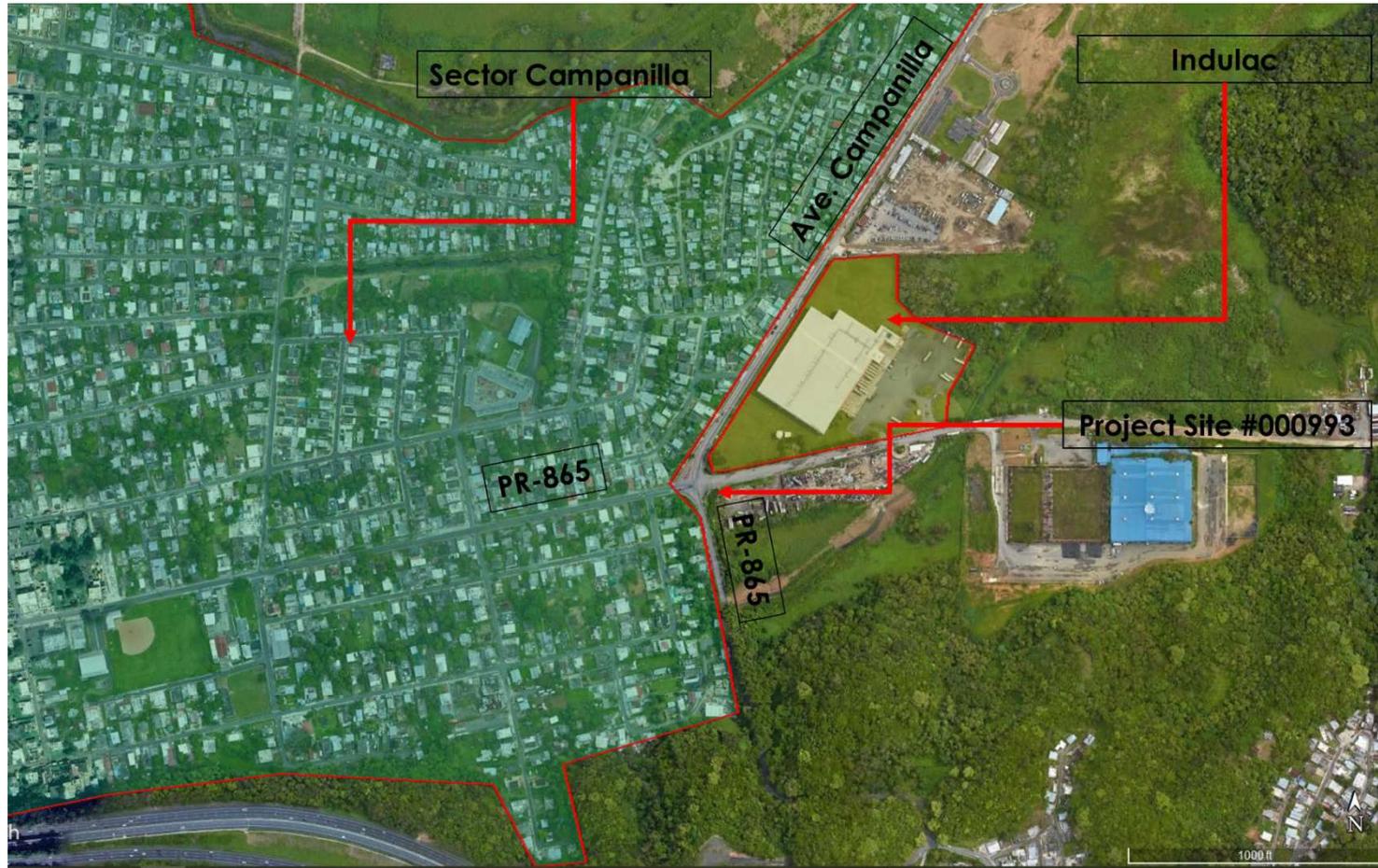


Figure 1. Project Location PR-CRP-000993 - Existing Conditions – Aerial Photo. GPS Coordinates: 18.422301°,-66.231912°.Photo: Google Earth - Image Date: 04/08/2016.

City Revitalization Program
 PR-CRP-000993 Rotonda PR-865 int. Ave. Campanilla, Toa Baja



Figure 2. Project Location PR-CRP-000993 – Overlays of the existing conditions (light gray layer) and the proposed project (yellow and green layers)– Aerial Photo. GPS Coordinates: 18.4222301°,-66.231912°. Photo: Google Earth - Image Date 04/08/2016

City Revitalization Program
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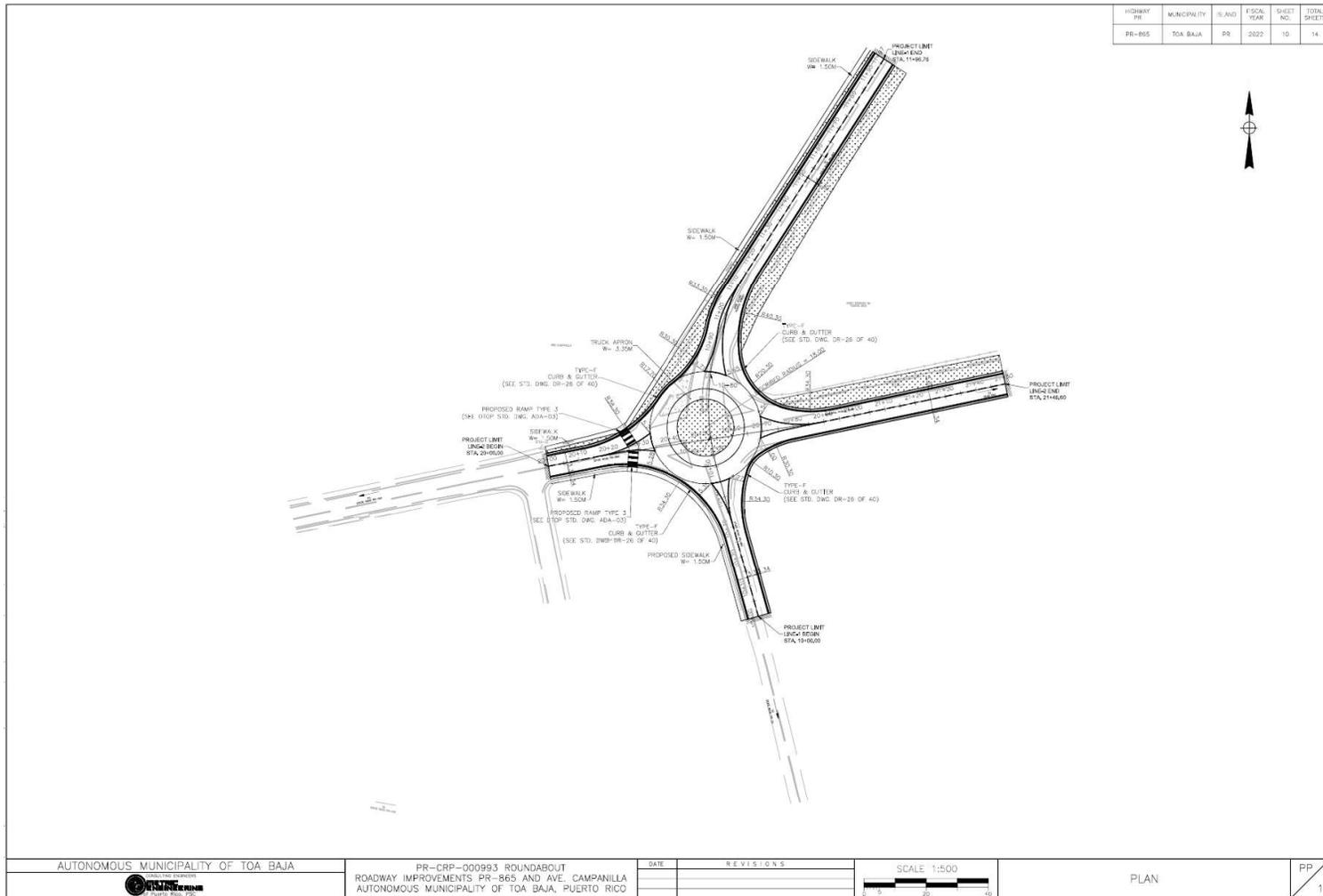


Figure 3. Proposed Project Plan PR-CRP-000993 – Conceptual Model 30%. GPS Coordinates: 18.422301°,-66.231912°



Figure 4. Proposed Project PR-CRP-000993– Rendering View. GPS Coordinates: 18.422301°,-66.231912°.

Step 1: Determine whether the action is located in a 100-year floodplain or in Wetland

The Municipality of Toa Baja is known as “La Ciudad Bajo Agua” (the underwater city³). Most of their lands are prone to high flood risk, 63% of them are within the floodplain³. Toa Baja is a low coastal plain town between the two river mouths, Rio Bayamon and the longest river in Puerto Rico, Rio Grande de la Plata, which born 60.5 miles in the Municipality of Guayama. The coastal zone, low plain, and the river mouths made Toa Baja high risk flood-prone area (see Figure 5). The Figure 5 shows that the proposed project PR-CRP-000993 seems to be within the floodplain the but in accordance with the FIRM map (see Figure 6) the project is outside the floodplain. The Figure 5 and Figure 6 are based on the Flood Insurance Rate Map⁴ (FIRM). Panel 72000C0340H (panel 340 of the 2160, effective date 04/19/2005) for project PR-CRP-000993.

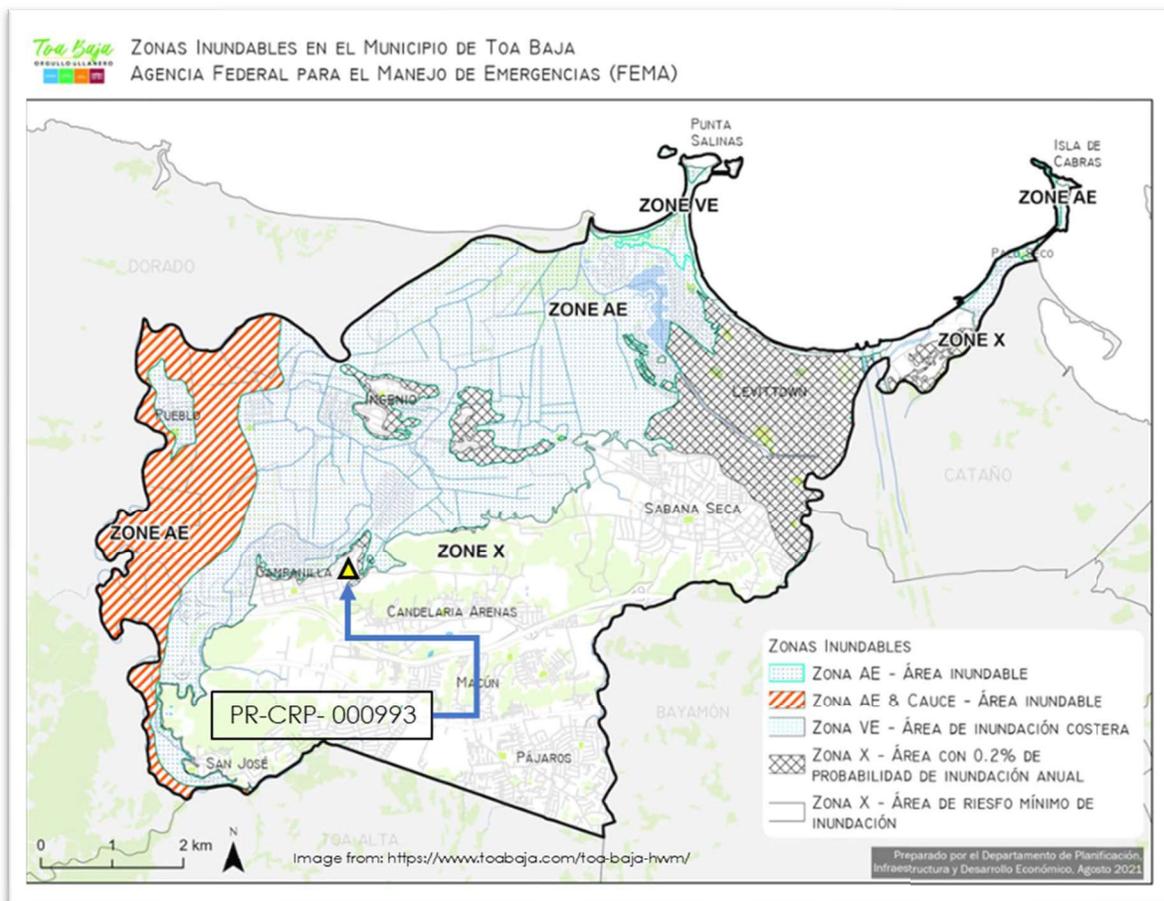


Figure 5. Floodplain of the Municipality of Toa Baja.

According with the FIRM maps, the proposed action, PR-CRP-000993, is outside of the flood-prone areas of Toa Baja (see Figure 6). This visual determination is based on the FIRM map where most of these maps were reviewed decades ago and possibly does not collect the updated information related to the floodplain. Therefore, we will be using the FEMA Advisory Base Flood

³ NASA funded research (<https://develop.larc.nasa.gov/2020/spring/ToaBajaDisasters.html>)

⁴ FIRM maps were obtained from FEMA portal (<https://msc.fema.gov/portal/home>)

Elevation⁵ (ABFE) to compare them with the FIRM map, which is a more precise and accurate tools to determine the flood-prone area because integrate new methods and updated information after a major disaster.

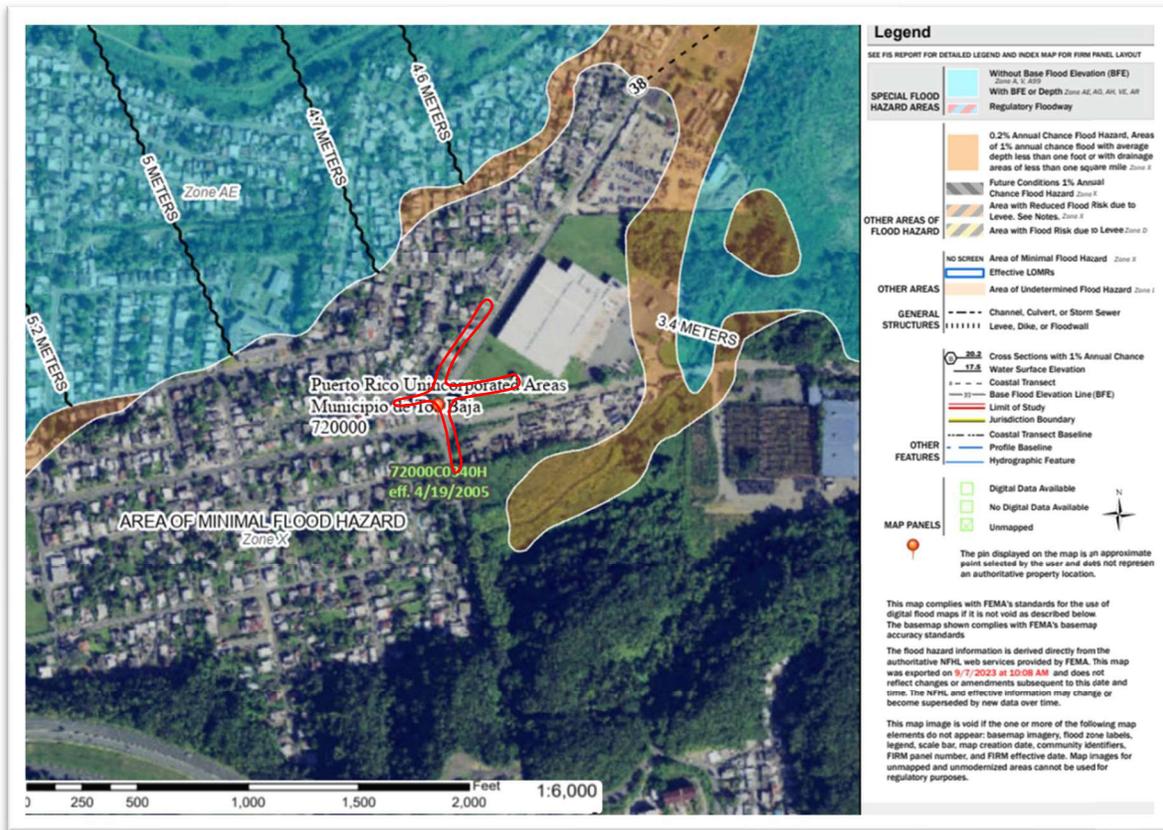


Figure 6. Flood Insurance Rate Map for the proposed project, PR-CRP-000993

Generally, the ABFE maps (from December 11, 2018) shows an increase in the floodplain of Toa Baja (Figure 7 and Figure 8). On the contrary of the FIRM maps, the ABFE indicates that project PR-CRP-000993 is within the SFHA which represented the inundated areas of 100-year event. This additional information changes the determination for the floodplain in this project. But being conservative, this report adopts the rigorous indication which in this case is provided by the ABFE. It should be noted that this is not always the case. Sometimes the FIRM maps include areas that are not covered by the ABFE. On those cases, it is recommended to use the FIRM maps.

⁵ Advisory Base Flood Elevation maps were obtained from (<https://gis-r2-fema.hub.arcgis.com/apps/31d415671944086b54b55bfc03344d7/explore>.)

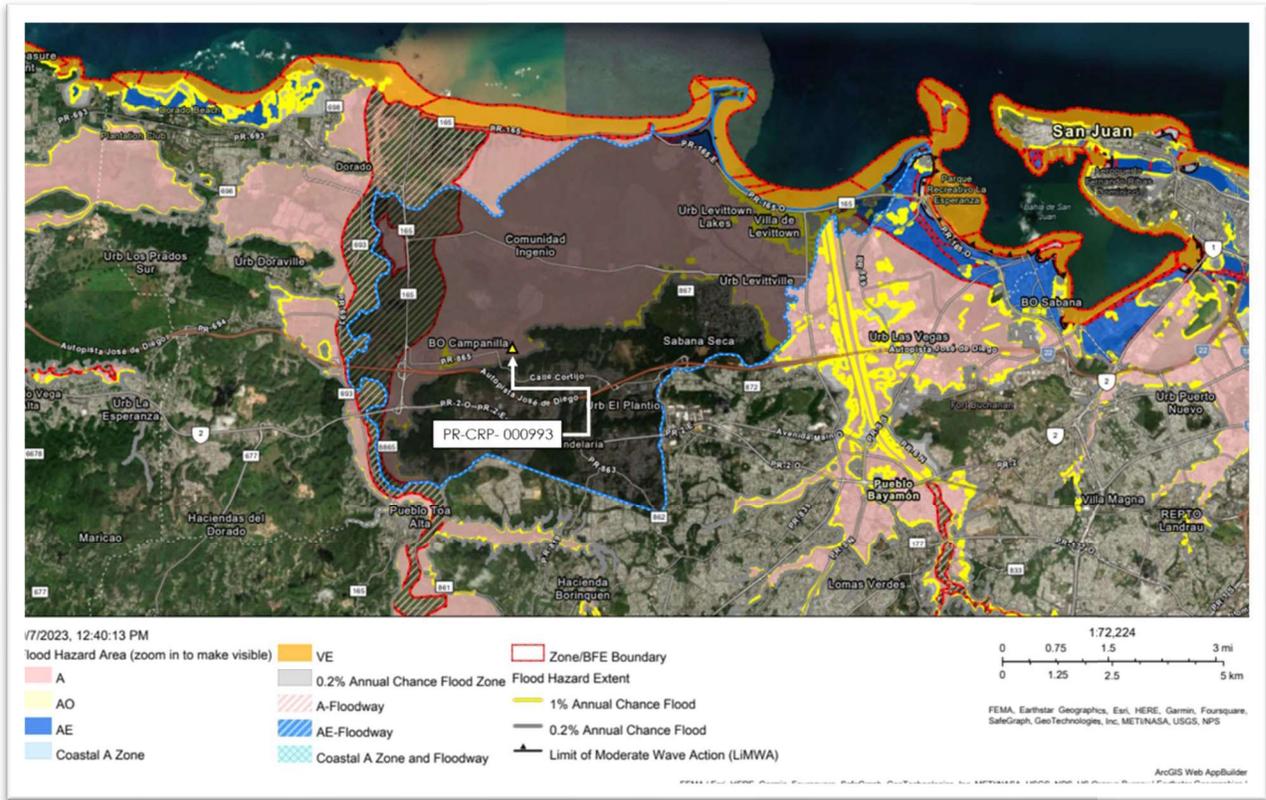


Figure 7. The FEMA Advisory Base Flood Elevation for the region

Another information gathered by the ABFE maps is the Base Flood Elevation⁶ (BFE) which is shown in the Figure 8 with a magenta line. The BFE related to the project is summarized on the Table 1. To obtain the BFE average of the project we ratio the BFEs with the distance between BFE lines to the project. The BFEs is 5.49 meter for PR-CRP-000993 (see Table 1).

Table 1. Base Flood Elevation Information of the project sites.

Project ID	GPS Coordinates	Area of project (s.q. m.)	ABFE (m)
(3)PR-CRP-000993	18.422301°,-66.231912°	5217.2	BFE: 5.49m

⁶ Base Flood Elevation - The elevation of surface water resulting from a flood that has a 1% chance of equalling or exceeding that level in any given year. The BFE is shown on the Flood Insurance Rate Map (FIRM) for zones AE, AH, A1-A30, AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO, V1-V30 and VE. (<https://www.fema.gov/node/404233>)

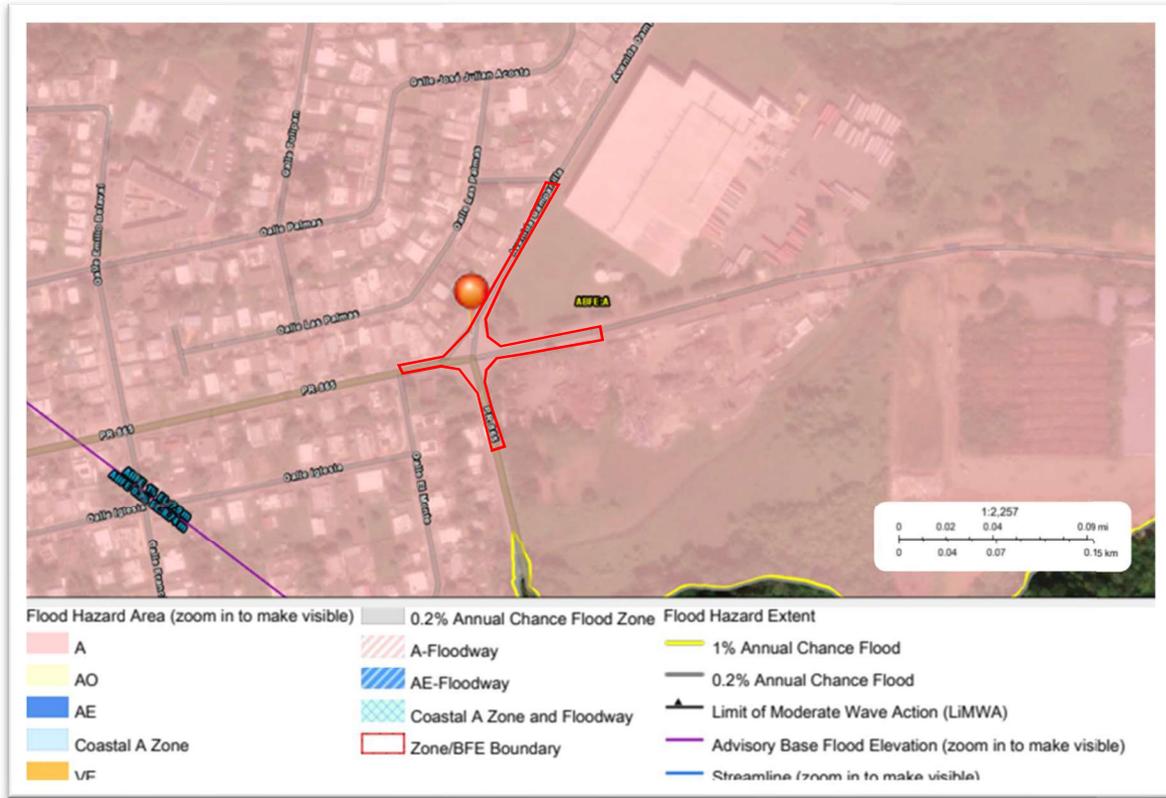


Figure 8. Advisory Base Flood Elevation Maps showing project area, PR-CRP-000993

Floodplain Determination:

According to the current Advisory Base Flood Elevation, three out of four projects are within the 1% Annual Change of Flood, Zone A, which is PR-CRP-000993 (Figure 8). Therefore, the project is under the 24 CFR 55.12(c)(1) and therefore require the decision-making process "8-step Analysis" of the direct and indirect impacts associated with the construction, occupancy, and modification of the floodplain Executives Orders 11988.

The nearest wetland to the project's footprint is some 120 feet to the southern portion. Thus, the project is outside of areas mapped as wetlands. The activity will include best management practices to avoid any indirect impact to wetlands.

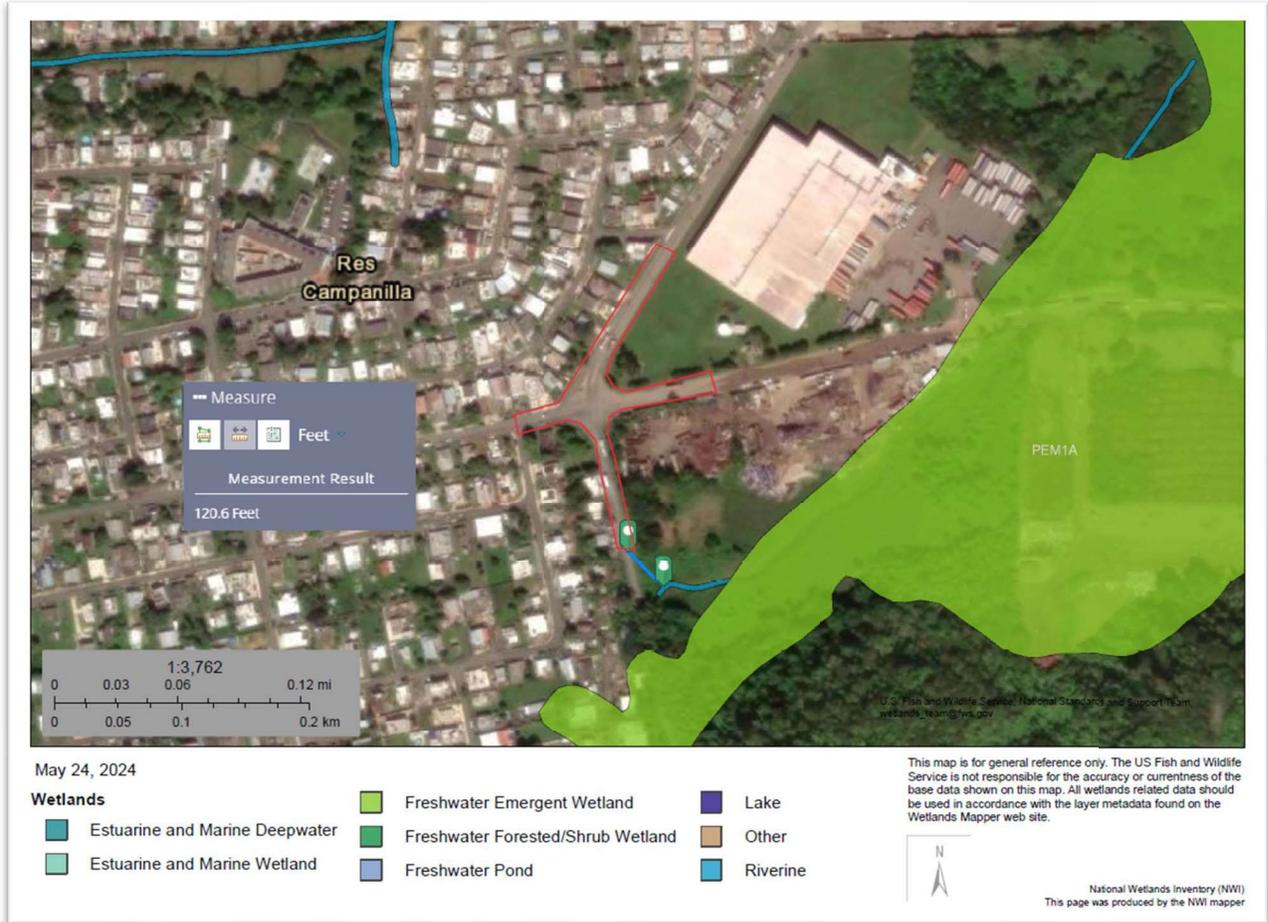


Figure 9. Wetland map with project footprint.

Step 2: Involve Public in Decision-Making Process (First Public Notice).

A public notice was published in the March 11, 2024, newspaper on Primera Hora. This newspaper has circulation throughout the entire island of Puerto Rico. The ad was directed at interested agencies, groups and individuals and was published in Spanish and English. The notice also included the name, proposed location, a brief description of the activity, and the responsible entity's contact information, which in this instance in Puerto Rico Department of Housing. The notice also included the location at which a full description of the proposed action could be viewed. A copy of the published notification is attached to this document (see attachment 1).

The required 15 calendar days were allowed for public comment, thus the comment period ended on March 26, 2024. An additional day was reserved to allow comments to come through in the event they were sent via regular mail. At the end of the waiting period, no comments were received.

Step 3: Determine if there is a Practicable Alternative.

The Municipality of Toa Baja has evaluated important criteria for the development of this project, which comprised the road improvements and the reconstruction of roundabout in floodplain area. An important criterion for developing this project in floodplain will consist of evaluating the adverse and beneficial effects of the different alternatives. This step will consist if there is a practicable alternative to avoid or mitigate the possible adversely impact to the flood zones.

In the evaluation of the alternatives, the following were considered:

I. Re-locate the project outside the floodplain (Alternative I).

Alternative I consist of relocating the project outside the floodplain.

Given that 63% of the Municipality of Toa Baja lies within the floodplain, relocating the project would entail several steps. Firstly, it would require identifying a new location outside the floodplain, assessing its feasibility, and planning the relocation process. Additionally, social impact assessments would need to be conducted to understand the implications for the community. However, this relocation may not effectively serve the same community that the project is intended to benefit. Moreover, relocating the project to a new area would not address the current traffic and floodplain conditions faced at this intersection. Therefore, the feasibility of relocating the project appears questionable, as it would involve extensive planning and may not achieve the desired outcomes.

II. Locate the project within the floodplain (Alternative II).

Alternative II will consist in the reconstruction of the intersection as discussed above in the project description.

The proposed project aims to enhance the existing conditions within the Municipality of Toa Baja, an area already impacted by the current road infrastructure. The suggested action involves converting the intersection into a roundabout. The primary objective of these improvements is to boost mobility along the road, reduce vehicular conflict points, provide safe, convenient, and visually pleasing crossings for pedestrians and bicyclists, and improve connectivity and circulation among different sectors in Toa Baja and additionally to help shape and implement the future vision of communities that were affected by Hurricanes Irma and María to undertake a variety of recovery activities aimed at reinvigorating downtown areas, urban centers, and key community corridors. This project will promote the redevelopment, re-greening and restoration of Toa Baja, and further incentivize private investments in restored nearby urban areas.

Despite the proposed project improvements being within the floodplain, they are anticipated to bring substantial benefits to the sector this project will serve. Moreover, it's important to note that the road improvements do not intend to alter the floodplain characteristics of the areas. Therefore, we expect that these activities will not have an adverse impact on the floodplain. This alignment with the CRP-CBBR program's goals ensures that the project contributes positively to the recovery and resilience efforts in the affected communities.

III. No action (Alternative III)

Alternative III is the "No action Alternative".

Alternative III, referred to as the 'No-action Alternative,' would result in the applicant not receiving funding, thus impeding their ability to modernize the intersection. This lack of funding would prevent the integration of communities along these routes, providing no tangible benefits to the local community. Consequently, the project sites would remain unchanged, with no foreseeable

City Revitalization Program
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improvements. The anticipated impacts outlined in this document would not materialize, and positive outcomes, such as enhancing community integration through modernized intersections and providing a safer street crossing for pedestrians, would not be achieved. It is currently uncertain whether another development offering similar benefits for both area residents and visitors will emerge in the future.

Step 4: Identify Adverse and Beneficial Impacts Associated with Floodplain.

The Municipality of Toa Baja has conducted a thorough evaluation of essential criteria for the development of this project, encompassing road improvements and the construction of a roundabout in a flood-prone area. An integral aspect of this project in the floodplain involves assessing both the adverse and beneficial effects of the chosen alternative in the floodplain. The analysis of beneficial impacts will center on improved traffic flow, reduced emissions, and enhanced safety for pedestrians and bicyclists. The HUD-funded CRP program is for projects that contribute to economic revitalization throughout Puerto Rico. PRDOHs regulations limit what actions can be considered under the CRP program, including prohibition of any construction in the floodway. Descriptions of the potential impacts from the proposed actions are below:

I. Alternative I - Re-locate the project outside the floodplain.

The proposal to relocate the proposed infrastructures outside the floodplain implies that the current intersection will remain unchanged. As a result, the local community and traffic, which rely on this intersection for transit and commute, may not experience the potential benefits of a roundabout.

The main goal of these improvements is to enhance mobility along the road, minimize vehicular conflict points, ensure safe, convenient, and aesthetically pleasing crossings for pedestrians and bicyclists, and improve connectivity and circulation among the various sectors commuting along this route in Toa Baja. These objectives are best achieved by implementing the roundabout at the current intersection, as originally planned.

Furthermore, relocating the projects to a new location will not ameliorate the current conditions of the floodplain at this intersection. The issues related to flood risk and safety will persist regardless of the project's location within the floodplain. Therefore, it is crucial to proceed with the planned improvements at the current intersection to fulfill the project's intended benefits and address the needs of the community and traffic flow effectively. intersection.

II. Alternative II - Locate the project within the floodplain.

The proposed modification of the intersection to a roundabout will seamlessly fit within the existing road footprint. Consequently, there will be no increase in impervious surfaces; instead, the roundabout will introduce new green areas that aid in managing low-frequency rainfall. While this may not lead to a significant decrease in flood effects in the areas, it will certainly not contribute to an increase or creation of additional flood-prone areas. The proposed projects will be constructed within the existing road infrastructure's footprint.

Roundabouts offer an excellent solution for integrating pedestrians and bicyclists into the traffic flow. Unlike traditional intersections, roundabouts provide designated crosswalks and pathways for pedestrians and cyclists, enhancing safety and convenience. Pedestrians can utilize marked crosswalks at the entry and exit points of the roundabout, with refuge islands in the center for safer crossings. Bicyclists have the option to ride with the flow of traffic or use designated bike lanes, promoting a smoother and more organized flow for all road users. This integration not only improves safety but also encourages more sustainable modes of transportation. Additionally, the slower speeds within roundabouts create a safer environment for pedestrians and cyclists, reducing the likelihood of severe accidents. Overall, roundabouts are an effective way to enhance mobility and safety for all road users, including pedestrians and bicyclists.

Roundabouts offer numerous advantages, primarily centered around safety, efficiency, cost-effectiveness, and space utilization. Studies consistently demonstrate that roundabouts

significantly reduce accidents and injuries compared to traditional intersections. This is achieved through lower travel speeds, continuous traffic flow, and one-way travel that eliminates hazardous collision types. Moreover, roundabouts enhance traffic flow by reducing delays and vehicle stops, evidenced by a 20% reduction in delays after installation. While roundabouts are initially comparable in cost to traffic signals, their long-term maintenance costs are notably lower due to the absence of hardware and electrical expenses. They also perform effectively during power outages without requiring police direction.

Furthermore, although roundabouts may require more space within the intersection, they generally occupy less space on approaching streets due to needing fewer lanes. Engineers meticulously consider factors such as accident history, intersection operation, types of vehicles, and costs when determining suitable locations for roundabouts. In conclusion, roundabouts provide a comprehensive solution to intersection challenges, offering safer, more efficient, and cost-effective traffic management while optimizing space utilization.

III. Alternative III – No Action

This "No Action" alternative, while maintaining the status quo of the road infrastructure, falls short of addressing the critical issues faced by the community. By choosing this alternative, the opportunity to enhance the resilience and sustainability of the area is missed, hindering the overall progress and recovery efforts after the devastation of Hurricanes Irma and María. Additionally, the absence of action means the Municipality will not receive the necessary funding to revitalize and improve the city of Toa Baja, impacting its long-term growth and development. Therefore, it is imperative to consider the proposed project's potential benefits and its alignment with the goals of the City Revitalization Program to ensure the continued progress and prosperity of the community.

Environmental Factor Analysis:

(1) Natural environment (topography, habitat, hazards);

The proposed project that comprises the change from a traditional intersection to a roundabout within the right of way can indeed impact various aspects of the natural environment. Here's how:

Topography:

The proposed activity will necessitate minimal terrain modifications, such as leveling or grading the land to accommodate the circular layout. It's important to note that in this project, there are no planned changes in elevation or land alterations that could potentially impact water drainage patterns or soil stability.

Habitat:

The proposed project will have minimal impact on flora and fauna habitat because the activity will take place in and along a developed road and within its exiting right-of-way. Also, there are no areas that serve as critical habitat or that may host other than species that are accustomed to urban areas. Activities such as clearing vegetation or disrupting ecosystems are not contemplated during the project construction phase. Therefore, the project will not alter any natural habitats.

Hazards:

To minimize the environmental impact of transitioning to a roundabout, the proposed project shall include:

Implement erosion control measures and best management practices during construction to protect soil and water quality.

Incorporate landscaping and habitat enhancements into the roundabout design to promote biodiversity and ecological connectivity.

Monitor the site post-construction to assess any ongoing impacts and implement mitigation measures as needed.

Due to the topography at the project site, the activity will not create a landslide hazard.

By considering the natural environment throughout the planning and implementation process, it's possible to create roundabouts that not only improve traffic flow and safety but also enhance the overall environmental quality of the area.

(2) Social concerns (aesthetics, historic and cultural values, land use patterns);

Switching an intersection to a roundabout within the existing right of way can indeed have various social implications, particularly concerning aesthetics, historic and cultural values, and land use patterns.

Aesthetics:

Roundabouts can often be aesthetically pleasing compared to traditional intersections. They can incorporate landscaping, sculptures, or other features that enhance the visual appeal of the area.

However, some people may have concerns about the initial disruption during construction or potential ongoing maintenance issues that could affect the appearance of the roundabout.

Historic and Cultural Values:

The intersection is not in a historically or culturally significant area, the change to a roundabout will not impact the character of the surroundings.

Land Use Patterns:

Roundabouts have the potential to reshape land use patterns by modifying traffic flow and enhancing accessibility. This redesigned infrastructure, along with surrounding development, is poised to stimulate diverse forms of development and enhance property values along these road corridors, thereby attracting economic growth to the area.

Businesses or residents adjacent to the intersection may initially have concerns about how the change will impact their accessibility or visibility, given the importance of these factors to their economic viability. However, with this thoughtful design and effective communication, the new roundabout can enhance accessibility and visibility, ultimately bolstering economic opportunities for these stakeholders.

Addressing these concerns requires thoughtful planning and engagement with stakeholders. Conducting community meetings, soliciting feedback, and collaborating with locals can help ensure that the proposed roundabout respects the area's social fabric and enhances its overall livability. Public participation is being encouraged through the publications for the 8-step process.

Additionally, integrating design elements that reflect the area's heritage or cultural identity can help mitigate any perceived loss of historical or cultural values.

(3) Economic aspects (costs of construction, transportation, and relocation); and

Proposing a change from a traditional intersection to a roundabout can indeed have significant economic implications. Here are some key factors to consider:

Construction Costs:

Constructing the roundabout will involve substantial investment, encompassing expenses such as excavation, paving, landscaping, signage, and lighting. However, approval of these costs under the CRP promises to deliver the community significant benefits through the implementation of a roundabout.

While roundabouts generally demand less maintenance compared to traditional intersections with traffic lights or stop signs, ongoing upkeep remains necessary, particularly concerning landscaping, signage, and occasional repairs. It's important for the Municipality to factor in these maintenance expenses during economic analysis when budgeting for the upkeep of the new intersection.

Transportation Efficiency:

The roundabouts can improve traffic flow and reduce congestion compared to traditional intersections. This can result in economic benefits such as reduced travel time for users, lower fuel consumption, and decreased vehicle emissions. These potential savings should be weighed against the initial construction and maintenance costs.

Relocation Costs:

The proposed roundabout may be relocating utilities, property boundaries, or other infrastructure. Relocation costs can vary greatly depending on the extent of the required changes and any potential disruptions to existing services.

Safety Benefits:

Roundabouts are often associated with improved safety outcomes compared to traditional intersections, as they reduce the potential for high-speed, right-angle collisions. There is an economic value of these safety benefits, such as reduced healthcare costs and property damage.

In summary, while converting an intersection to a roundabout can involve significant upfront costs, it may also offer long-term economic benefits such as improved transportation efficiency and safety.

(4) Legal considerations (deeds, leases).

Property Rights within the Right of Way:

The proposed project will occur entirely within the right-of-way of the current intersection and does not encroach upon any additional land.

Leases and Easements:

The project will be developed within the public right-of-way and no property acquisition or property leases will be required. As such, there will be no additional costs associated with these activities.

Government Regulations and Permits:

Legal considerations related to government regulations and permits remain important. 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.

Public Consultation and Participation:

While the physical footprint of the construction may not extend beyond the existing intersection, stakeholders such as nearby residents, businesses, and community organizations may still have concerns or interests that need to be addressed. The 8-Step process allows dissemination of information and allows stakeholders to participate in the planning phase of the project.

Overall, while the legal considerations may be somewhat simplified if the roundabout construction remains within the current intersection footprint, it's still essential to conduct thorough due diligence.

Step 5: Where practicable, design or modify the proposed action to minimize the potential adverse impacts to lives, property, and natural values within the floodplain and to restore, and preserve the values of the floodplain.

(a) **Preserving Lives:** The proposed actions do not entail a direct increase in population density in the area. Consequently, in the event of a flood, the infrastructure modifications are unlikely to pose a significant threat to human life or may only pose minimal risk. Additionally, one of the primary objectives of the project is to enhance safety at the intersection for both residents and visitors.

(b) **Preserving Property:** Given the nature of the project and its need to withstand climate events, floodproofing, elevation adjustments, or obtaining insurance for project elements are unnecessary. The project will take place on a state road that does not require flood insurance. Moreover, the adjacent structures are not anticipated to be adversely affected by the project's implementation, as the stormwater management infrastructure in the area will remain unchanged.

(c) **Preserving Natural Values and Minimizing Impacts:** The project aims to improve existing infrastructure while minimizing impacts on natural, undeveloped areas. To achieve this, erosion and sedimentation controls will be implemented during construction, and efforts will be made to avoid exposed soil during the operation phase. Impact on water resources will be minimal, as all areas will incorporate elements allowing percolation and limiting erosion. Landscaping practices will prioritize the use of native vegetation resilient to climate events, contributing to soil erosion prevention.

(d) **Restore and Preserve the Values of the Floodplain:** While the proposed action may not restore floodplain values, the design is intended to preserve them. This preservation will be partly achieved through the renovation and utilization of existing facilities such as roads, sidewalks, and green areas, which will reduce the creation of impermeable surfaces. The design does not include new structures that might impede floodwater movement. Furthermore, the design aims to maximize water percolation by incorporating permeable surfaces and enhancing existing vegetation with new landscaping. The area's topography will remain unchanged.

Step 6. Reevaluate the Alternatives

Alternative I (Re-locate the project outside the floodplain) and alternative III (No Action) would involve making no improvements to the facility. Therefore, these options would not contribute to the Municipality's efforts to revitalize and provide for a more resilient community. These options were not considered an acceptable alternative. Therefore, there are no practicable alternatives to the proposed project. The project's intention is to provide a resilience, safer and more efficient intersection. The relocation and no action alternatives are impracticable because it will not satisfy the need to provide a more efficient intersection on PR-865 intersection with Ave. Campanilla at Toa Baja.

Despite the Alternative II being in a floodplain, measures will be taken to preserve the floodplain values. Stormwaters will be allowed to percolate naturally, following the terrain's contours. Moreover, the project does not pose an additional risk to human life as it does not involve an increase in population density, such as that of a housing project by the contrary the modification of the intersection will reduce the vehicular conflict points from 32 to 8, representing a reduction of 75%. Also, the roundabout will provide a reduction of vehicular-to-pedestrian conflict points from 24 to 8, representing a reduction of 66.7%. Overall, the roundabout will improve the connectivity and circulation between Campanilla Avenue, PR-867, PR-865 areas and will create a safer intersection. The project will not modify the current floodplain footprint. Therefore, is it no expected an adverse impact in the base flood elevation.

Step 7: Determination of No Practicable Alternative

It is our determination that there is no practicable alternative to locating the project in the floodplain. This decision is based on several factors:

- 1) The project is entirely situated within the 100-year floodplain, and 63% of the Municipality of Toa Baja falls within this floodplain zone.
- 2) There is a strong desire to revitalize the Municipality of Toa Baja through the CRP program, which necessitates locating the project within the floodplain.
- 3) The activity can be effectively mitigated to minimize impacts on human health, public property, and natural floodplain values.
- 4) The proposed actions will not expand the infrastructure footprint, and therefore, are not expected to modify the base flood elevation or alter the natural environment.

A final notice detailing the reasons why the modified project must be located in the floodplain was published on **June 17, 2024**, and posted in accordance with prior notices. This notice outlines the rationale for siting the modified project in the floodplain, provides a list of alternatives considered at various stages, and describes the mitigation measures identified to minimize adverse impacts and preserve the natural floodplain values.

The attached publication notice indicates that no concerns were expressed by the public regarding the final notice.

Step 8: Implement the Proposed Action

The municipality and PRODH are committed to implementing the plan outlined above to manage and mitigate impacts on the floodplain to the greatest extent possible. These activities will be carried out as described, and the necessary language will be included in all agreements with participating parties. Additionally, the city will take an active role in monitoring the construction process to prevent any unnecessary impacts and avoid taking unnecessary risks. This proactive approach will ensure that the project is executed in a manner that safeguards the floodplain while achieving its intended objectives.

City Revitalization Program
PR-CRP-000993 Rotonda PR-865 int. Ave. Campanilla, Toa Baja

**Attachment 1 – Early Notice Publication (Step 2) and “no comment”
Confirmation Letter**

Andrea Curbelo-Marty

From: environmentcdbg <environmentcdbg@vivienda.pr.gov>
Sent: Monday, March 11, 2024 2:35 PM
To: Jose.A.CedenoMaldonado@hud.gov; Mahon, Donna M; Caribbean_es@fws.gov; Tawes, Robert; Rodriguez.elias@epa.gov; Guerrero.carmen@epa.gov; PublicMail.CESAJ-CC@usace.army.mil; Rich.Okulski@noaa.gov; Noah.Silverman@noaa.gov; nmfs.ser.esa.consultations@noaa.gov; FEMA-R4EHP@fema.dhs.gov; carubio@prshpo.pr.gov; comunicaciones@ddec.pr.gov; secretario@ddec.pr.gov; jannira.colon@ddec.pr.gov; Rivera_r1@jp.pr.gov; comentarios@jp.pr.gov; pmzc@drna.pr.gov; eortega@drna.pr.gov; ayudaciudadano@drna.pr.gov; anais.rodriguez@drna.pr.gov
Subject: Public Notice – Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain_PRDOH Case PR-CRP-000993
Attachments: Early Notice_Primer Hora_PR-CRP-000993.pdf

Concerned agencies,

Enclosed please find a **Public Notice – Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain** the Puerto Rico Department of Housing (as the Responsible Entity) published as part of HUD's requirements for the release of CDBG-DR funds to undertake the project *Rotonda PR-865 int. Ave. Campanilla, Campanilla* (PR-CRP-000993). The Early Notice was published in the *Primera Hora* newspaper of Puerto Rico on March 11, 2024.

Respectfully,

Permits and Environmental Compliance Division

Disaster Recovery Office

environmentcdbg@vivienda.pr.gov | 787.274.2527

Visit us: recuperacion.pr.gov

Contact us: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA
VIVIENDA



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avisos y subastas



PUBLIC NOTICE
GENERAL SERVICES ADMINISTRATION

Regulations for the Oversight and Compliance of the General Services Administration

The General Services Administration ("ASG") in accordance with Section 2.1 of Act No. 38-2017, known as the "Uniform Administrative Procedure Act of the Government of Puerto Rico," publishes this announcement to promulgate the Regulations for the Oversight and Compliance of the General Services Administration.

The legal basis for repealing the before mentioned regulation also arises under Act No. 73-2019, Article 22, known as the "General Services Administration Act for Centralization of Purchases of the Government of Puerto Rico of 2019", which provides that the ASG may adopt, amend and repeal regulations to ensure compliance with the provisions of this law and any other applicable laws.

The purpose of these Regulations is to establish the rules and procedures regarding the exercise of the powers conferred on the ASG to: interpret, apply and enforce the provisions of Act 73-2019 and its regulations; oversee and investigate compliance with public policy, laws and regulations under its jurisdiction; establish procedures to identify violations thereof; channeling the power of investigation and oversight through the Office of Special Investigations (OIE); establish the procedural rules and guarantees for sanctioning by fine violators of Act 73-2019, or the regulations adopted thereunder; and establish the procedural guarantees for offenders and the processes for challenging fines imposed by the ASG.

Those interested in issuing written comments may do so, within thirty (30) days following the publication of this notice as follows: (a) personally, during business days from 8:00 am to 11:30am and 12:30 pm to 4:00 pm, at the Minillas Government Center, in the North Tower, 12th Floor, Office of Legal Affairs San Juan, Puerto Rico; (b) to the following email: reglamentos@asg.pr.gov; (c) by mail to the following address: Office of Legal Affairs, General Services Administration, PO Box 41249 San Juan, P.R. 00940. Any citizen who is interested in holding a public hearing on the proposed regulation must submit a written and substantiated request to the ASG within a term of 30 days from the publication on this notice.

This notice, as well as the proposed regulation can be obtained by accessing the website www.asg.pr.gov.

Karla G. Mercado Rivera, Esq.
Administrator & Chief Procurement Officer
Of Puerto Rico Government

AUTORIZADO POR LA OFICINA DEL
CONTRALOR ELECTORAL OCE-SA-2024-05163

aviso público

Aviso Preliminar y Revisión Pública de una Actividad Propuesta en un valle inundable de 100 años

Rotonda PR-865 int. Ave. Campanilla, Campanilla
PR-CRP-000993

Para: Todas las partes interesadas, grupos e individuos

Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (Vivienda, en adelante) ha determinado que la siguiente acción propuesta bajo el Programa de Revitalización de la Ciudad, Subvención en Bloque para el Desarrollo Comunitario - Recuperación ante Desastres (CDBG-DR), número de subvención B-17-DM-72-0001, B-18-DP-72-0001 y B-19-DP-78-0002, se encuentra parcialmente en un valle inundable de 100 años. Vivienda está evaluando e identificando alternativas prácticas para realizar la acción propuesta y el impacto potencial en el valle inundable debido a la acción propuesta, según establecido por la Orden Ejecutiva 11988, de acuerdo con las regulaciones de HUD en 24 CFR 55.20 Subparte C - Procedimientos para tomar determinaciones sobre el manejo de llanuras aluviales y la protección de humedales. El proyecto propuesto, **PR-CRP-000993**, está localizado en la intersección de la avenida Campanilla y la carretera PR-867, Toa Baja, PR 00949; coordenadas 18.422301, -66.231912. El proyecto consiste en la construcción de una rotonda, mejoras geométricas de la intersección, mejoras al sistema pluvial, reparación y construcción de rampas, instalación de luminarias energéticamente eficientes y postes de señales de tránsito, medidas de reducción de velocidad, mejoras del paisaje urbano, y pavimentación de calles. El proyecto también incluirá mejoras en las aceras para cumplir con los códigos de la Ley para americanos con Discapacidades (ADA, por sus siglas en inglés). La rotonda optimizará el tráfico vehicular y disminuirá la velocidad vehicular en el cruce de la PR-867. El proyecto contribuirá a los valores recreativos al proporcionar aceras nuevas y reconstruidas, lo que permitirá caminar y andar en bicicleta de manera segura. La huella total del proyecto es de 5,277 metros cuadrados (1.3 acres). La actividad propuesta está ubicada en un valle inundable de 100 años, zona de inundación A, y se encuentra en el mapa de niveles de inundación base (ABFE, por sus siglas en inglés), como se indica en el Nivel de Inundación Base Recomendado de FEMA Puerto Rico en Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (argcis.com).

Este aviso tiene tres propósitos principales. En primer lugar, las personas que puedan verse afectadas por las actividades en el valle inundable y aquellos que tengan interés en la protección del ambiente natural deben tener la oportunidad de expresar sus inquietudes y proveer información sobre estas áreas. Se exhorta a la comunidad a ofrecer ubicaciones alternas fuera del valle inundable, métodos alternos para cumplir el mismo propósito del proyecto y métodos para minimizar y mitigar los impactos. Segundo, un programa adecuado de avisos públicos puede ser una herramienta importante para la educación pública. La divulgación de información sobre los valles inundables puede facilitar y mejorar los esfuerzos federales por reducir los riesgos e impactos asociados con la ocupación y alteración de estas zonas especiales. Tercero, como materia de justicia, cuando el gobierno federal determine participar en acciones ubicadas en el valle inundable, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o similar al presente.

Vivienda considerará todos los comentarios recibidos en o antes de 26 de marzo de 2024. Pueden enviar los comentarios de forma impresa a la siguiente dirección: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918-8461, Atención: Santa D. Ramírez-Lebrón, Especialista en Permisos y Cumplimiento Ambiental. Una descripción completa del proyecto está disponible al público para revisión de 8:30 a.m. a 4:00 p.m. en el Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918. El número para obtener información es (787)214-2527 ext. 4320. Como alternativa, también pueden enviar los comentarios a Vivienda por medio electrónico a environmentcdbg@vivienda.pr.gov.

Fecha: 11 de marzo de 2024

Lcdo. William O. Rodríguez Rodríguez
Secretario del Departamento de la Vivienda

[primerahora#communicationscdbg@vivienda.pr.gov](https://twitter.com/primerahora#communicationscdbg@vivienda.pr.gov)

Autorizado por la Oficina del Contralor
Electoral OCE-SA-2023-00076

public notice

Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain

Rotonda PR-865 int. Ave. Campanilla, Campanilla
PR-CRP-000993

To: All Interested Parties, Groups & Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has determined that the following proposed actions under the Community Development Block Grant - Disaster Recovery (CDBG-DR), City Revitalization Program, Grant number B-17-DM-72-0001, B-18-DP-72-0001 and B-19-DP-78-0002, are partially located in a 100-year floodplain. PRDOH will be identifying and evaluating practicable alternatives to locate the action in the floodplain and the potential impacts on the floodplain from the proposed actions, as required by Executive Order 11988, in accordance with HUD regulations at 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management and Protection of Wetlands. The proposed project, **PR-CRP-000993**, is located at the intersection between the Campanilla Avenue and the PR-865 Road, Toa Baja, PR 00949; coordinates 18.422301, -66.231912. The project consists of the construction of a roundabout, carrying out geometric improvements to the intersection, stormwater system improvements, repair and construction of ramps, installation of energy-efficient lighting and traffic signal posts, speed reduction measures, streetscape improvements, and street paving. The project will also include sidewalk improvements to meet Americans with Disabilities Act (ADA) codes. The roundabout will optimize vehicular traffic and reduce vehicular speed at the PR-867 intersection. The project will contribute to recreational values by providing new and reconstructed sidewalks, allowing for safe walking, and cycling. The project will have a total footprint of 5,277 square meters (1.3 acres). The proposed activity is situated in a 100-year floodplain, flood zone A, and can be found at the Advisory Base Flood Elevation Map (ARFE), as indicated on the FEMA Advisory Base Flood Elevation for Puerto Rico at Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (argcis.com).

There are three primary purposes for this notice. First, people who may be affected by activities in the floodplain and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Commenters are encouraged to offer alternative sites outside of the floodplain, alternative methods to serve the same project purpose, and methods to minimize and mitigate impacts. Second, an adequate public notice program can be an important public educational tool. The dissemination of information and request for public comment about the floodplains can facilitate and enhance Federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in the floodplain, it must inform those who may be put at greater or continued risk.

PRDOH will consider all comments received on or before March 26, 2024. Written comments can be sent to the following address: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918-8461, Attention: Santa D. Ramírez-Lebrón, Permits and Environmental Compliance Specialist. A complete description of the project is available to the public for review from 8:30 am to 4:00 pm at the Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918. The number to get information is (787)214-2527 ext. 4320. In the alternative, comments may also be sent to PRDOH by email at environmentcdbg@vivienda.pr.gov.

Date: March 11, 2024

William O. Rodríguez Rodríguez, Esq.
Secretary of the Department of Housing

Authorized by the Office of the Electoral
Comptroller OCE-SA-2023-00076



Validation Letter

April 1, 2024

To whom it may concern,

This letter is to validate that no comments were received in the Permits and Environmental Compliance Division e-mail: environmentcdbg@vivienda.pr.gov, for the project *Rotonda PR-865 int. Ave. Campanilla, Campanilla (PR-CRP-000993)*, as part of the CDBG-DR City Revitalization Program. The Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain was published in the *Primera Hora* newspaper of Puerto Rico on March 11, 2024, with a comment period that concluded on March 26, 2024.

Cordially,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527 ext. 4320

Andrea Curbelo-Marty

From: Kenneth M. Garcia-De Leon
Sent: Monday, April 1, 2024 2:22 PM
To: environmentcdbg
Subject: RE: Comentarios - Aviso Preliminar PR-CRP-000993

Saludos:

Por correo postal no llegaron comentarios para mencionado proyecto.

Atentamente,

Kenneth M. García De León

Especialista en Control de Documentos / Operaciones

Oficina Recuperación de Desastres

kgarcia@vivienda.pr.gov | 787.274.2527 Ext. 4013

Visítanos: recuperacion.pr.gov

Contactanos: infocdbg@vivienda.pr.gov

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From: environmentcdbg <environmentcdbg@vivienda.pr.gov>
Sent: Monday, April 1, 2024 2:13 PM
To: Kenneth M. Garcia-De Leon <kgarcia@vivienda.pr.gov>
Subject: Comentarios - Aviso Preliminar PR-CRP-000993

Saludos Kenneth,

Con respecto a la publicación del Aviso Preliminar y Revisión Pública de una Actividad Propuesta en un valle inundable de 100 años (Paso 2) para el proyecto **Rotonda PR-865 int. Ave. Campanilla, Campanilla (PR-CRP-000993)**, ¿habrá llegado algún comentario a través del correo postal? De ser así, por favor nos lo hace llegar.

Cordialmente,

Permits and Environmental Compliance Division

Disaster Recovery Office

environmentcdbg@vivienda.pr.gov | 787.274.2527

Visit us: recuperacion.pr.gov

Contact us: infocdbg@vivienda.pr.gov

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City Revitalization Program
PR-CRP-000993 Rotonda PR-865 int. Ave. Campanilla, Toa Baja

**Attachment 2 – Final Notice Publication (Step 7) and “no comment”
Confirmation Letter**

From: environmentcdbg
To: Jose.A.CedenoMaldonado@hud.gov; [Mahon_Donna M](mailto:Mahon_Donna_M); Caribbean_es@fws.gov; Tawes_Robert; Rodriguez.elias@epa.gov; Guerrero.carmen@epa.gov; PublicMail.CESAJ-CC@usace.army.mil; Rich.Okulski@noaa.gov; Noah.Silverman@noaa.gov; nmfs.ser.esa.consultations@noaa.gov; FEMA-R4EHP@fema.dhs.gov; carubio@prshpo.pr.gov; comunicaciones@ddec.pr.gov; secretario@ddec.pr.gov; jannira.colon@ddec.pr.gov; Rivera_r1@jp.pr.gov; comentarios@jp.pr.gov; pmzc@drna.pr.gov; eortega@drna.pr.gov; ayudaciudadano@drna.pr.gov; anais.rodriquez@drna.pr.gov
Subject: Public Notice – Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain _PRDOH Case PR-CRP-000993
Date: Monday, June 17, 2024 4:00:00 PM
Attachments: [Final Notice Primera Hora PR-CRP-000993.pdf](#)
[image001.png](#)

Concerned agencies,

Enclosed please find a **Public Notice – Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain** the Puerto Rico Department of Housing (as the Responsible Entity) published as part of HUD's requirements for the release of CDBG-DR funds to undertake the project *Rotonda PR-865 int. Ave. Campanilla, Toa Baja* (PR-CRP-000993). The Final Notice was published in the *Primera Hora* newspaper of Puerto Rico on June 17, 2024.

Respectfully,

Permits and Environmental Compliance Division

Disaster Recovery Office

environmentcdbg@vivienda.pr.gov | 787.274.2527

Visit us: recuperacion.pr.gov

Contact us: infocdbg@vivienda.pr.gov

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avisos y subastas



AVISO DE SUBASTA PÚBLICA SUBASTA 08-2023-2024 ADQUISICIÓN DE VEHÍCULOS PARA EL MUNICIPIO AUTÓNOMO DE AIBONITO

El Municipio Autónomo de Aibonito, busca empresas interesadas en participar en el proceso de licitación relacionado con la Adquisición de Vehículos para el Municipio Autónomo de Aibonito.

Los vehículos que se estarán adquiriendo son:

- (2) Pickup 1500
- (1) Pickup 3500 con tumba
- (1) Camión grúa con caja ganchera y grapper

Se recibirán las propuestas de las personas o entidades jurídicas interesadas y deben entregar los Pliegos y Condiciones de la **Subasta con su Oferta** junto a los documentos requeridos, en sobres sellados hasta las **10:00am del 28 de junio de 2024**, en la Oficina de la Secretaría Municipal en la Casa Alcaldía; la apertura de los mismos será a las 10:10am.

Los Pliegos de Subasta con las especificaciones podrán obtenerse en la Oficina de Secretaría Municipal o solicitándolas a través del correo electrónico aibonitubastas@gmail.com, a partir de la publicación de este aviso hasta el **28 de junio de 2024, a las 9:00am**, el mismo no tendrá costo para los proponentes.

Todo licitador será responsable de someter adjunto a la licitación, todos los documentos debidamente cumplimentados, según se indican en los pliegos y especificaciones de la Subasta.

La Junta de Subastas del Municipio Autónomo de Aibonito se reserva el derecho de aceptar o rechazar todas o cualesquiera de las propuestas y de adjudicar la buena pro en beneficio de los mejores intereses del Municipio, tomando en consideración otros factores que no sean los del precio solamente, igualmente se reserva el derecho de adjudicar total o parcialmente la subasta, según lo establecido en la Ley Núm. 107 del 14 de agosto de 2020, "Código Municipal de Puerto Rico.

De tener alguna duda o necesitar mayor información, puede comunicarse al 787-735-8181 ext. 7025 o escribiendo al correo electrónico aibonitubastas@gmail.com

Plan Angélica M. Camacho González
Presidenta de la Junta de Subastas
Municipio Autónomo de Aibonito

Aprobado a la Oficina del Contralor Electoral
OCE-SA-2024-08389



aviso público

Aviso Final y Explicación Pública de una Actividad Propuesta en un valle inundable de 100 años

Rotonda PR-865 int. Ave. Campanilla, Toa Baja
PR-CRP-000993

Para: Todas las partes interesadas, grupos e individuos

Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (Vivienda, en adelante) completó una evaluación según establece la Orden Ejecutiva 11988, de acuerdo con los reglamentos de HUD en 24 CFR 55.20 Subparte C - Procedimientos para hacer determinaciones sobre el manejo del valle inundable y la protección de humedales. La actividad está subvencionada con fondos del Programa de Revitalización de la Ciudad, Subvención en Bloque para el Desarrollo Comunitario - Recuperación ante Desastres (CDBG-DR), número de subvención B-17-DM-72-0001, B-18-DP-72-0001 y B-19-DP-78-0002. El proyecto propuesto, **PR-CRP-000993**, está localizado en la intersección de la avenida Campanillas y la carretera PR-865, barrio Media Luna, Toa Baja, PR 00949; coordenadas 18.422301, -66.231912. El proyecto consiste en la construcción de una rotonda, mejoras geométricas a la intersección, mejoras al sistema pluvial, reparación y construcción de rampas, instalación de luminarias energéticamente eficientes y postes de señalización de tránsito, medidas de reducción de velocidad, mejoras del paisaje urbano, y pavimentación de calles. Además, incluirá mejoras en las aceras para cumplir con los códigos de la Ley para estadounidenses con discapacidades (ADA, por sus siglas en inglés). La rotonda optimizará el tráfico vehicular y disminuirá la velocidad vehicular en la intersección. El proyecto contribuirá a los valores recreativos al proporcionar aceras nuevas y reconstruidas, lo que permitirá caminar y andar en bicicleta de manera segura. La huella total del proyecto es de 5,217.2 metros cuadrados (1.3 acres). La actividad propuesta está ubicada en un valle inundable de 100 años, zona de inundación A y el área del proyecto se puede encontrar en el mapa de niveles de inundación base (ABFE, por sus siglas en inglés), cómo se indica en el Nivel de Inundación Base Recomendado de FEMA para Puerto Rico en Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (arcgis.com).

Vivienda ha considerado las siguientes alternativas y medidas de mitigación para minimizar los impactos adversos y restaurar y preservar los valores naturales y beneficiosos: (1) ubicar el proyecto dentro del valle inundable, (2) ubicar el proyecto fuera del valle inundable, y (3) no tomar ninguna acción. Las alternativas 2 y 3 no son factibles ya que el proyecto es necesario para crear una intersección más segura, preservará los valores del valle inundable, no representa un riesgo adicional para la vida humana ya que no implica un aumento en la densidad de población, y no modificará la huella actual del valle inundable. La ubicación del proyecto en el valle inundable es esencial para abordar las deficiencias de la intersección existente. Durante la construcción se implementarán medidas de control de erosión y sedimentación y cumplirá con las regulaciones estatales y locales sobre los valles inundables.

Vivienda reevaluó las alternativas para construir en el valle inundable y determinó que no cuenta con alternativas prácticas. La documentación ambiental que evidencia el cumplimiento de los pasos 3 a 6 de la Orden Ejecutiva 11988, está disponible para inspección, revisión y reproducción de parte del público, de ser solicitado, en el horario y lugar indicado en el último párrafo sobre recibo de comentarios de este aviso.

Este aviso tiene tres propósitos principales. Primero, las personas que pueden verse afectadas por actividades en el valle inundable y aquellos que tengan interés en la protección del ambiente natural deben recibir la oportunidad de expresar sus inquietudes y proveer información sobre estas áreas. Segundo, un programa adecuado de avisos públicos puede ser una importante herramienta de educación pública. La divulgación de información y solicitud de comentarios sobre los valles inundables puede facilitar y mejorar los esfuerzos federales para reducir los riesgos e impactos asociados con la ocupación y alteración de estas áreas especiales. Tercero, como materia de justicia, cuando el gobierno federal determine participar en acciones ubicadas en el valle inundable, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o similar al presente.

Vivienda considerará todos los comentarios recibidos en o antes del 24 de junio de 2024. Pueden enviar los comentarios de forma impresa a la siguiente dirección: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918-8461, Atención: Santa D. Ramírez-Lebrón, Especialista en Permisos y Cumplimiento Ambiental. Una descripción completa del proyecto está disponible al público para revisión de 8:30 a.m. a 4:00 p.m. en el Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918. El número para obtener información es (787)274-2527 ext. 4320. Como alternativa, también pueden enviar los comentarios a Vivienda por medio electrónico a environmentcdbg@vivienda.pr.gov.

Fecha: 17 de junio de 2024

Lcdo. William O. Rodríguez Rodríguez
Secretario del Departamento de la Vivienda

Autorizado por la Oficina del Contralor
Electoral OCE-SA-2023-00076



public notice

Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain

Rotonda PR-865 int. Ave. Campanilla, Toa Baja
PR-CRP-000993

To: All Interested Parties, Groups & Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has conducted an evaluation as required by the Executive Order 11988, in accordance with HUD regulations at 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management and Wetlands Protection. The activity is funded under the City Revitalization Program, Community Development Block Grant - Disaster Recovery (CDRG-DR), Grant number B-17-DM-72-0001, B-18-DP-72-0001 and B-19-DP-78-0002. The proposed project, **PR-CRP-000993**, is situated at the intersection of Campanillas Avenue and PR-867 Road, Media Luna Ward, Toa Baja, PR 00949; coordinates 18.422301, -66.231912. The project consists of the construction of a roundabout, geometric enhancements to the intersection, stormwater system improvements, repair and reconstruction of ramps, installation of energy-efficient lighting and traffic signal posts, speed reduction measures, streetscape improvements, and street paving. Additionally, sidewalk improvements will be made to meet Americans with Disabilities Act (ADA) codes. The roundabout aims to optimize vehicular traffic flow and reduce speed at the intersection. Furthermore, the project will enhance recreational values by providing new and reconstructed sidewalks for safe walking and cycling. The total footprint of the project covers 5,217.2 square meters (1.3 acres). The proposed activity is located in a 100-year floodplain, flood zone A and the project area can be found at the Advisory Base Flood Elevation Map (ABFE), as indicated on the FEMA Advisory Base Flood Elevation for Puerto Rico at Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (arcgis.com).

PRDOH has considered the following alternatives and mitigation measures to be taken to minimize adverse impacts and to restore and preserve natural and beneficial values: (1) locate the project within the floodplain, (2) locate the project outside of the floodplain, and (3) take no action. Alternatives 2 and 3 are not feasible as the project is necessary to create a safer intersection, will preserve the floodplain values, does not pose an additional risk to human life as it does not involve an increase in population density, and will not modify the current floodplain footprint. The project's location in the floodplain is essential to address the existing intersection's deficiencies. Erosion and sedimentation control measures will be implemented during construction and will adhere to state and local floodplain regulations.

PRDOH has reevaluated the alternatives to building in the floodplain and has determined that it has no practicable alternative. Environmental files that document compliance with steps 3 through 6 of Executive Order 11988 are available for public inspection, review and copying upon request at the times and location delineated in the last paragraph of this notice for receipt of comments.

There are three primary purposes for this notice. First, people who may be affected by activities in the floodplain and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Second, an adequate public notice program can be an important public education tool. The dissemination of information and request for public comment about floodplains can facilitate and enhance Federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in the floodplain, it must inform those who may be put at greater or continued risk.

PRDOH will consider all comments received on or before June 24, 2024. Written comments can be sent to the following address: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918-8461, Attention: Santa D. Ramírez-Lebrón, Permits and Environmental Compliance Specialist. A complete description of the project is available to the public for review from 8:30 am to 4:00 pm at the Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918. The number to get information is (787)274-2527 ext. 4320. In the alternative, comments may also be sent to PRDOH by email at environmentcdbg@vivienda.pr.gov.

Date: June 17, 2024

William O. Rodríguez Rodríguez, Esq.
Secretary of the Department of Housing

Authorized by the Office of the Electoral
Comptroller OCE-SA-2023-00076

From: [Kenneth M. Garcia-De Leon](#)
To: [environmentcdbg](#)
Subject: RE: Comentarios - Aviso Final PR-CRP-000993
Date: Tuesday, June 25, 2024 3:04:02 PM
Attachments: [image002.png](#)
[image003.png](#)

Saludos:

Por correo postal no llegaron comentarios para mencionado proyecto.

Cordialmente,

Kenneth M. García De León

Especialista en Control de Documentos / Operaciones

Oficina Recuperación de Desastres

kgarcia@vivienda.pr.gov | [787.274.2527](tel:787.274.2527) Ext. 4013

Visítanos: recuperacion.pr.gov

Contactanos: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA
VIVIENDA



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From: environmentcdbg <environmentcdbg@vivienda.pr.gov>

Sent: Tuesday, June 25, 2024 2:58 PM

To: Kenneth M. Garcia-De Leon <kgarcia@vivienda.pr.gov>

Subject: Comentarios - Aviso Final PR-CRP-000993

Saludos Kenneth,

Con respecto a la publicación del Aviso Final y Explicación Pública de una Actividad Propuesta en un valle inundable de 100 años (Paso 7) para el proyecto **Rotonda PR-865 int. Ave. Campanilla, Toa Baja (PR-CRP-000993)**, ¿habrá llegado algún comentario a través del correo postal? De ser así, por favor nos lo hace llegar.

Cordialmente,

Permits and Environmental Compliance Division

Disaster Recovery Office

environmentcdbg@vivienda.pr.gov | 787.274.2527

Visit us: recuperacion.pr.gov

Contact us: infocdbg@vivienda.pr.gov

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Validation Letter

June 25, 2024

To whom it may concern,

This letter is to validate that no comments were received in the Permits and Environmental Compliance Division e-mail: environmentcdbg@vivienda.pr.gov, for the project **Rotonda PR-865 int. Ave. Campanilla, Toa Baja (PR-CRP-000993)**, as part of the CDBG-DR City Revitalization Program. The Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain was published in the *Primera Hora* newspaper of Puerto Rico on June 17, 2024, with a comment period that concluded on June 24, 2024.

Cordially,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527 ext. 4320

Appendix E: Contamination and Toxic Substances

1. EPA Green Book
2. Lead and Asbestos Report
3. Summary Table EPA Facilities and ECHO Reports



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

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

Data is current as of May 31, 2024

Listed by County, NAAQS, Area. The 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.

* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/m³) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

Change the State:

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)	Count
PUERTO RICO								
Arecibo Municipio	Lead (2008)	Arecibo, PR	11 12 13 14 15 16 17 18 19 20 21 22 23 24	//		Part	32,185	7
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Part	22,921	7
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Whole	28,140	7
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	929394959697989900010203040506070809	02/11/2010	Moderate	Part	90,470	7
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Part	23,802	7
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	18 19 20 21 22 23 24	//		Part	23,401	7
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Part	147,963	7
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Part	52,441	7

Important Notes

Discover.

Connect.

Ask.

Follow.

2024-05-31



**ENVIRONMENTAL SURVEY
FOR
LEAD BASED PAINT (LBP)
AND
ASBESTOS CONTAINING MATERIALS (ACM)
FOR
ROAD PR-865 INTERSECTION WITH AVE. CAMPANILLA,
CAMPANILLA (PR-CRP-000993), TOA BAJA, PR**

Prepared For:
Metric Engineering of PR

July 2023

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



LEAD



TABLE OF CONTENTS

I. SUMMARY

1.0 INTRODUCTION

2.0 TESTING PROCEDURES

3.0 LEAD BASED PAINT TESTING METHODOLOGY

4.0 RESULTS

5.0 CONCLUSIONS

6.0 REPORT CERTIFICATION

APPENDIX I - AESI Credentials

APPENDIX II - PCS Information

APPENDIX III - XRF Data

APPENDIX IV - Selective Photos

I. SUMMARY

A survey for Lead Based Painted (LBP) components was conducted by Analytical Environmental Services International (AES International), Inc. for road PR-865 intersection with Ave. Campanilla, Campanilla, Toa Baja, PR (Case # PR-CRP-000993), (Lat: 18.422301°, Lon: -66.231948°) as part of three (3) roundabout intervention projects.

The results of the areas investigated are presented herein. The investigation was conducted on July 20, 2023 by Elme Rivera, an DRNA/EPA certified lead risk assessor. The following components were found to be painted with LBP:

PR-CRP-000993

PR-865 Int. Ave. Campanilla, Sabana Seca, Toa Baja

Guardrail Right	Metal	Yellow	100 sq.ft
Guardrail Left	Metal	Yellow	380 sq.ft

If remodeling/demolition activities will be conducted in the nearest future, it is mandatory to remove all LBP from the components to be affected by such activities.

1.0 INTRODUCTION

AES International performed an LBP survey for road PR-865 intersection with Ave. Campanilla, Campanilla, Toa Baja, PR (Case # PR-CRP-000993), (Lat: 18.422301°, Lon: -66.231948°) as part of three (3) roundabout intervention projects. Components inspected include floor lines, curbs, handicap ramp, and metal guardrails (refer to Appendix IV for photos). The purpose of this activity is to reduce environmental liabilities and comply with NESHAP and DRNA regulations prior to bridge repairs.

The investigation was conducted on July 20, 2023 by Elme Rivera, an DRNA/EPA certified lead risk assessor. The credentials of AESI are attached in Appendix I. The survey, performed with an X-Ray Fluorescence (XRF) instrument manufactured by Heuresis, Model Pb200i (serial # 2385), was conducted using U.S. Department of Housing and Urban Development (HUD) protocol of 1997, revised in 2012. The results are presented herein.

2.0 TESTING PROCEDURES

The testing was performed with an XRF instrument manufactured by Heuresis, Model Pb200i. Performance characteristic sheet (PCS) is attached in Appendix II. The selected mode allows reference to the abatement level set at 1.0 mg/cm². The results are reported at 95% confidence levels.

3.0 LEAD BASED PAINT TESTING METHODOLOGY

The hazard level of lead in paint has been determined by the Department of Housing & Urban Development (HUD) as 1.0 mg/cm², as measured by XRF, or AAS (Atomic Absorption Spectroscopy), or 0.5% by weight (or 5000 ppm) as measured by AAS, or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X.

The only lead based paint testing protocol officially available at this time was published by HUD initially in 1990, revised in 1991 and finalized in 1995 (see above HUD reference). A revised chapter 7 was published in 1997 and 2012.

AES International personnel classify each XRF lead reading as positive, negative, or inconclusive. This classification is based on manufacturer XRF performance characteristic sheet (PCS), for each substrate. Samples and/or additional readings are taken from inconclusive areas. Calibration verification of the instrument was performed prior to beginning of daily task, when the instrument was turned on, and at the end of the day. The verification was conducted on a NIST standard of 1.0 mg/cm². Acceptance criteria used was ± 0.3 mg/cm². The data for initial calibration verification is attached in Appendix III, presented in Case # PR-CRP-000991 XRF data.

At the completion of the testing, ten (10) surfaces were retested as to assess precision of the testing. Retesting and final calibration data is presented in Appendix III, Case # PR-CRP-000994 report. Statistical calculations performed on test-retest results suggest that the results are within the tolerance limits and therefore acceptable.

4.0 RESULTS

All the areas were visually inspected for components such as side barriers, guardrails, and floor lines. Twenty seven (27) XRF readings were collected. The results of the tested components are shown in Appendix III. Selective photos of LBP components are shown in Appendix IV. LBP components were found and presented herein (see summary Table 1).

5.0 CONCLUSIONS

An LBP survey was conducted for road PR-865 intersection with Ave. Campanilla, Campanilla, Toa Baja, PR (Case # PR-CRP-000993), (Lat: 18.422301°, Lon: -66.231948°) as part of three (3) roundabout intervention projects. LBP findings were presented herein.

Some painted surfaces may contain levels of lead below 1.0 mg/cm², which could create lead dust, or lead contaminated soil hazards if the paint is turned into dust by abrasion, scraping, or sanding. Reported results are valid for the day of testing indicated in the reports. According to DNRA the LBP study is valid for a period of five years.

The LBP survey relates to surfaces accessible and not covered by rigid barriers. Should any hidden painted surfaces or components be present, they must be assumed as LBP.

6.0 REPORT CERTIFICATION

This report was done in conformance with the protocols listed in Chapter 7 of the HUD guidelines, 2012.



Elme Rivera, PRDNER Lead Inspector
Lic#: LBPRA-21020-102

Appendix I





AIHA Laboratory Accreditation Programs, LLC
acknowledges that
Analytical Environmental Services International, Inc.
611 Monserrate St. Suite 2 Santurce, PR 00907
Laboratory ID: LAP-102702

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

LABORATORY ACCREDITATION PROGRAMS

<input checked="" type="checkbox"/>	INDUSTRIAL HYGIENE	Accreditation Expires: July 01, 2025
<input checked="" type="checkbox"/>	ENVIRONMENTAL LEAD	Accreditation Expires: July 01, 2025
<input type="checkbox"/>	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires:
<input type="checkbox"/>	FOOD	Accreditation Expires:
<input type="checkbox"/>	UNIQUE SCOPES	Accreditation Expires:
<input type="checkbox"/>	BERYLLIUM FIELD/MOBILE	Accreditation Expires:

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

A handwritten signature in cursive script that reads 'Cheryl O. Morton'.

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



GOBIERNO DE PUERTO RICO

Departamento de Recursos Naturales y Ambientales

Este certificado es otorgado a:

Analytical Environmental Services International (AESI)

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

Número de Certificado

LBPF-07323-012

Fecha de emisión: Abril 6, 2023

Fecha de Expiración: Abril 5, 2024



José Roque Juliá
Jefe
División Desperdicios Tóxicos

Lead Risk Assessor Credentials



Lic#: LBPRA-21223-234



GOBIERNO DE PUERTO RICO

Departamento de Recursos Naturales y Ambientales

División Desperdicios Tóxicos

Requisitos para Radicar una Solicitud de Certificación de Individuos

(Evaluador de Riesgos)

Hoja de cotejo

#Carnet nuevo

LBPRA-21223-234

1. Información del Solicitante		
Nombre Elme Rivera Pérez		
Empresa para la cual trabaja AES International		
Núm. de Teléfono 787-722-0220	Núm. de Fax	Correo Electrónico rivieraelme19@gmail.com
2. Documentos incluidos con la solicitud		Cotejo de documentos recibidos por la JCA
1. Presentar evidencia de que satisface o excede los siguientes requisitos de educación o experiencia: a) grado universitario de bachiller y un (1) año de experiencia en un campo relacionado incluyendo pero sin limitarse a, plomo, asbestos, trabajos de remediación ambiental o construcción; o b) grado asociado y dos (2) años de experiencia en un campo relacionado, incluyendo, pero sin limitarse a, plomo, asbestos o trabajos de remediación ambiental o construcción, o c) certificación como higienista industrial, ingeniero profesional, arquitecto registrado y/o una certificación en campos relacionados con la ingeniería, salud y el ambiente, incluyendo, pero sin limitarse a, profesional de la salud y/o científico ambiental; o, d) diploma de escuela superior (o su equivalente) y un mínimo de tres (3) años de experiencia en campos relacionados, incluyendo, pero sin limitarse a, plomo, asbestos, trabajos de remediación ambiental o construcción.		RENOV.
2. Presentar una solicitud de certificación completada en los formularios provistos por la DRNA (Rev 2019), acompañada de dos (2) fotos originales.		/
3. Presentar un certificado original y copia de terminación del curso en la disciplinas de inspector y evaluador de riesgos. En la alternativa, se someterá una carta original y copia del programa de adiestramiento que confirme que el solicitante terminó dicho curso de adiestramiento, en papel timbrado del programa.		/
4. Presentar original y copia de la carta confirmando aprobación del examen estatal de parte de la entidad administradora del examen correspondiente en las disciplinas de inspector y evaluador de riesgos.		
6. Someter cuota de radicación de veinticinco dólares (\$25) y una cuota de certificación por la suma de ciento veinticinco dólares (\$125) mediante cheque certificado o giro postal pagadero al Secretario de Hacienda. La cuota de radicación no será reembolsable.		\$150.00 chk
Para Uso Exclusivo del Area. Certifico que he recibido y cotejado los documentos que arriba se detallan y así lo hago constar con mi firma en el espacio provisto.		
Cantidad del cheque \$150.00	Núm. cheque 23983	Fecha Recibido 7/13/23
Certificado por:		Núm de Control PB-07-23-266
Para uso de Pagaduría		
Recibido por	Núm. de Recibo	Fecha:

Rev 2019



Appendix II



Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2015

MANUFACTURER AND MODEL:

Make: *Heuresis*
Models: *Model Pb200i*
Source: *⁵⁷Co, 5 mCi (nominal – new source)*

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

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/cm²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

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/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² 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/cm² 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/cm² 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/cm². 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.

For each substrate type (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1\text{st} + 2\text{nd} + 3\text{rd} + 4\text{th} + 5\text{th} + 6\text{th Reading})/6 - 1.02 \text{ mg/cm}^2$$

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/cm². 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/cm²)	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/cm²), 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.

Appendix III



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Metric Engineering PR
Project Name: LBP Survey for PR-865 Intersection with Ave. Campanilla, Campanilla (PR-CRP-000993)
Address: Toa Baja, Puerto Rico

Date: 7/20/23
Inspector: Elme Rivera
XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm ²)	Laboratory Result (% or mg/cm ²)
1					Calibration		
2					Calibration		
3					Calibration		
4	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Asphalt	White	Floor Line Left	0.1	
5	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Concrete	Yellow	Curb Left	0.2	
6	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Asphalt	Yellow	Floor Line Center	0.1	
7	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Concrete	Yellow	Center Island Curb	0.4	
8	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Asphalt	White	Floor Line Right to Exit	0.1	
9	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Asphalt	Yellow	Floor Line Right to Exit	0.2	
10	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Asphalt	White	Floor Line Right to Exit	0.1	
11	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Concrete	Yellow	Island Exit Curb	0.2	
12	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Concrete	Brown	Island Exit Curb Top	0.3	
13	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Wood	Green	Lower Light Post	0.1	

Date: 7/20/23

Approved by: Ady Padan, Ph.D.

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

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Address: Toa Baja, Puerto Rico

Date: 7/20/23
Inspector: Elme Rivera
XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm ²)	Laboratory Result (% or mg/cm ²)
14	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Wood	Yellow	Upper Light Post	0.2	
15	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Concrete	Brown	Handicap Ramp Right	0.1	
16	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Concrete	Yellow	Curb Right	0.3	
17	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Concrete	Yellow	Curb Right	0.3	
18	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Asphalt	White	Floor Line Right	0.3	
19	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Asphalt	White	Floor Line Left	0.1	
20	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Concrete	Yellow	Curb Left	0.2	
21	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Concrete	Yellow	Curb Right	0.1	
22	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Metal	Yellow	Guardrail Right	3.9	
23	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Asphalt	White	Floor Line Right	0.1	
24	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Asphalt	White	Floor Line Left	0.2	
25	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Metal	Yellow	Guardrail Left	5.6	

Date: 7/20/23

Approved by: Ady Padan, Ph.D.

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
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Client Name: Metric Engineering PR
Project Name: LBP Survey for PR-865 Intersection with Ave. Campanilla, Campanilla (PR-CRP-000993)
Address: Toa Baja, Puerto Rico

Date: 7/20/23
Inspector: Elme Rivera
XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm ²)	Laboratory Result (% or mg/cm ²)
26	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Concrete	Yellow	Curb Left	0.1	
27	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Asphalt	Yellow	Floor Line Left	0.2	
28	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Concrete	Yellow	Curb Left	0.3	
29	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Asphalt	Yellow	Floor Line Center	0.1	
30	PR-CRP-000993	PR-865 Int. Ave. Campanilla	Concrete	Yellow	Curb Left	0.3	
31							

Approved by: **Ady Padan, Ph.D.**

Date: **7/20/23**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Metric Engineering PR
Project Name: LBP Survey for PR-867 intersection with entrance to Campanilla and Pabellones Urbanizations, Sabana Seca (PR-CRP-000991)
Address: Toa Baja, Puerto Rico

Date: 7/20/23
Inspector: Elme Rivera
XRF Serial No.: 2385

Reading #	Case #	Road	Substrate	Color	Component & Location	XRF Reading (mg/cm ²)	Laboratory Result (% or mg/cm ²)
1					Calibration (9:05am)	1.0	
2					Calibration (9:06am)	1.0	
3					Calibration (9:07am)	1.1	
4	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Asphalt	Yellow	Floor Line Center	0.3	
5	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Asphalt	White	Floor Line Right	0.1	
6	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Concrete	Yellow	Curb Right	0.3	
7	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Concrete	Blue	Handicap Ramp Right	0.2	
8	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Concrete	Yellow	Curb Right	0.3	
9	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Concrete	Yellow	Curb Right	0.2	
10	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Asphalt	White	Floor Line Right	0.1	
11	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Asphalt	Yellow	Floor Line Center	0.3	

Date: 7/20/23

Approved by: Ady Padan, Ph.D.

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Metric Engineering PR
Project Name: LBP Survey for PR-867 intersection with entrance to Campanilla and Pabellones Urbanizations, Sabana Seca (PR-CRP-000991)
Address: Toa Baja, Puerto Rico

Date: 7/20/23
Inspector: Elme Rivera
XRF Serial No.: 2385

Reading #	Case #	Road	Substrate	Color	Component & Location	XRF Reading (mg/cm ²)	Laboratory Result (% or mg/cm ²)
12	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Concrete	Yellow	Curb Left	0.3	
13	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Concrete	Blue	Handicap Ramp Left	0.1	
14	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Asphalt	White	Floor Line Left	0.1	
15	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Concrete	Yellow	Island Curb Left	0.3	
16	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Concrete	Blue	Handicap Ramp Left	0.3	
17	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Concrete	Yellow	Curb Left	0.3	
18	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Asphalt	White	Floor Line Left	0.1	
19	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Concrete	Yellow	Island Curb Right	0.3	
20	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Concrete	Green	Lower Light Post Left	0.4	
21	PR-CRP-000991	PR-867 Km. 3.9 (Dir. Bayamon to Toa Baja)	Concrete	Yellow	Upper Light Post Left	0.1	

Approved by: **Ady Padan, Ph.D.**

Date: 7/20/23

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Metric Engineering PR
Project Name: LBP Survey for PR-864 intersection with PR-866, Candelaria (PR-CRP-000994)
Address: Toa Baja, Puerto Rico

Date: 7/20/23
Inspector: Elme Rivera
XRF Serial No.: 2385

Reading #	Case #	Road	Substrate	Color	Component & Location	XRF Reading (mg/cm ²)	Laboratory Result (% or mg/cm ²)
1					Calibration (13:40)	1.1	
2					Calibration (13:41)	1.0	
3					Calibration (13:42)	1.0	
4	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Left	0.1	
5	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	Yellow	Floor Line Center	0.3	
6	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Right	0.1	
7	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Exit Floor Line Right	0.2	
8	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Metal	Yellow	Guardrail Exit	0.1	
9	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Exit Floor Line Right	0.3	
10	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Metal	Yellow	Guardrail Exit	0.1	
11	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Concrete	Green	Lower Light Post	0.2	
12	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Concrete	Yellow	Upper Light Post	0.1	
13	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Left	0.1	

Date: 7/20/23

Approved by: Ady Padan, Ph.D.

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
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LEAD BASED PAINT TESTING DATA SHEET

Client Name: Metric Engineering PR
Project Name: LBP Survey for PR-864 intersection with PR-866, Candelaria (PR-CRP-000994)
Address: Toa Baja, Puerto Rico

Date: 7/20/23
Inspector: Elme Rivera
XRF Serial No.: 2385

Reading #	Case #	Road	Substrate	Color	Component & Location	XRF Reading (mg/cm ²)	Laboratory Result (% or mg/cm ²)
14	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	Yellow	Floor Line Center	0.3	
15	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Right	0.1	
16	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Right	0.1	
17	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	Yellow	Floor Line Center	0.1	
18	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Left	0.2	
19	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Right	0.1	
20	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	Yellow	Floor Line Center	0.2	
21	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Left	0.1	
22	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Concrete	White	Curb Left	0.2	
23	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Left	0.1	
24	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Left	0.3	

RE-TESTING

Approved by: Ady Padan, Ph.D.

Date: 7/20/23

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Metric Engineering PR
Project Name: LBP Survey for PR-864 intersection with PR-866, Candelaria (PR-CRP-000994)
Address: Toa Baja, Puerto Rico

Date: 7/20/23
Inspector: Elme Rivera
XRF Serial No.: 2385

Reading #	Case #	Road	Substrate	Color	Component & Location	XRF Reading (mg/cm ²)	Laboratory Result (% or mg/cm ²)
25	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Right	0.1	
26	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Right	0.2	
27	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	Yellow	Floor Line Center	0.1	
28	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Left	0.2	
29	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Right	0.1	
30	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	Yellow	Floor Line Center	0.2	
31	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Left	0.1	
32	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Concrete	White	Curb Left	0.1	
33	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Left	0.1	
34	PR-CRP-000994	PR-864 Int. PR-866 Candelaria	Asphalt	White	Floor Line Left	0.2	
35					Calibration (14:33)	1.0	
36					Calibration (14:34)	1.1	

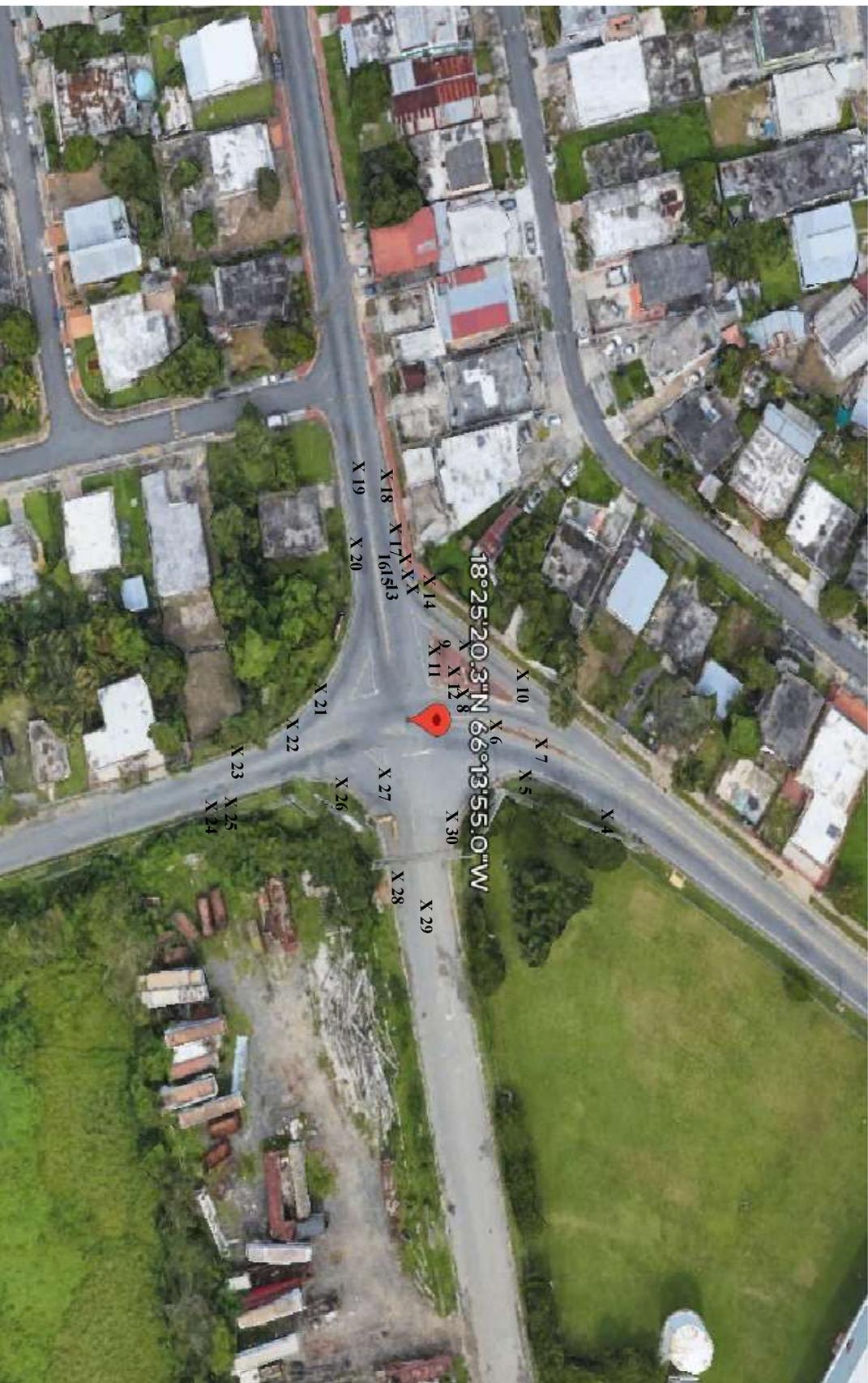
Approved by: Ady Padan, Ph.D.

Date: 7/20/23

Appendix VI



**Roundabout PR-865 Intersection with Ave. Campanilla, Campanilla
(PR-CRP-000993). (Lat: 18.422301°, Lon: -66.231948°)**



**SELECTIVE PHOTOS: ROAD PR-865 INTERSECTION WITH AVE. CAMPANILLA,
CAMPANILLA, TOA BAJA, PR (CASE # PR-CRP-000993)**



SELECTIVE PHOTOS: ROAD PR-865 INTERSECTION WITH AVE. CAMPANILLA, CAMPANILLA, TOA BAJA, PR (CASE # PR-CRP-000993)



**SELECTIVE PHOTOS: ROAD PR-865 INTERSECTION WITH AVE. CAMPANILLA,
CAMPANILLA, TOA BAJA, PR (CASE # PR-CRP-000993)**



SELECTIVE PHOTOS: ROAD PR-865 INTERSECTION WITH AVE. CAMPANILLA, CAMPANILLA, TOA BAJA, PR (CASE # PR-CRP-000993)



**SELECTIVE PHOTOS: ROAD PR-865 INTERSECTION WITH AVE. CAMPANILLA,
CAMPANILLA, TOA BAJA, PR (CASE # PR-CRP-000993)**



ASBESTOS



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7.0 CONCLUSIONS

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APPENDIX II - Hazard Assessment

APPENDIX III - Selective Photos

I. SUMMARY

A survey for Asbestos Containing Materials (ACM) was conducted by Analytical Environmental Services International (AES International), Inc. for road PR-865 intersection with Ave. Campanilla, Campanilla, Toa Baja, PR (Case # PR-CRP-000993), (Lat: 18.422301°, Lon: -66.231948°) as part of three (3) roundabout intervention projects.

The inspection for this road segment was conducted on July 20, 2023 by Elme Rivera, an EQB/AHERA certified asbestos inspector.

No suspected materials were observed during the inspection and accordingly samples were not collected.

1.0 INTRODUCTION

A survey for Asbestos Containing Materials (ACM) was conducted by Analytical Environmental Services International, Inc. (AES International) road PR-865 intersection with Ave. Campanilla, Campanilla, Toa Baja, PR (Case # PR-CRP-000993), (Lat: 18.422301°, Lon: -66.231948°) as part of three (3) roundabout intervention projects.

The survey for this road segment was conducted on July 20, 2023 by Elme Rivera, an EQB/AHERA certified asbestos building inspector (see Appendix I for credentials).

The inspection was performed based on AHERA protocol, according to the following scenario:

- The Road was divided in functional spaces (in Km).
- Visual inspection was performed.

Suspected materials were not observed during visual inspection.

2.0 GENERAL BACKGROUND

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

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

Studies indicate different health effect resulting from exposure to chrysotile asbestos versus exposure to the amphibole form of asbestos. The later, which include tremolite,

amosite, actinolite, anthophyllite and crocidolite have more significant health impact than chrysotile.

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

2.1 National Emission Standards for Hazardous Air Pollutants (NESHAP)

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

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

3.0 PROJECT IDENTIFICATION/DESCRIPTION

Project consist of three (3) roundabout interventions required in an approximate segment of 2,790 meters. One of the road segment to be impacted with the roundabout construction is the PR-865 intersection with Ave. Campanilla, Campanilla, Toa Baja, PR.

4.0 METHODS OF BUILDING INSPECTION

Each sample, if collected, should have been classified according to the condition of Asbestos Containing Materials (ACM) in that location and the potential for material disturbance. All the area was visually inspected.

5.0 SAMPLING METHODS

Samples were not collected, as no suspect ACM were observed during the visual inspection.

6.0 INSPECTION RESULTS

Suspected materials were not observed during visual inspection.

7.0 CONCLUSIONS

A survey for ACM was conducted PR-865 intersection with Ave. Campanilla, Campanilla (Case # PR-CRP-000993). (Lat: 18.422301°, Lon: -66.231948°), Toa Baja, PR. The materials surveyed were described above. No ACM were detected.

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



Elme Rivera, EQB Asbestos Inspector
Lic#: ASB-1122-0471-SI

Appendix I



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AES International

611 Monserrate

Santurce, PR 00907

Mr. Ady Padan

Phone: 787-722-0220 Fax: 787-724-5788

Email: yotal@bellsouth.net

<http://www.aesipr.org>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200051-0

Bulk Asbestos Analysis

Code

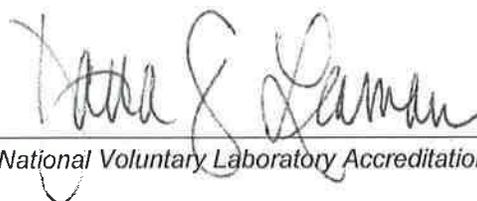
Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials



For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200051-0

AES International
Santurce, PR

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

Asbestos Fiber Analysis

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

2023-01-01 through 2023-12-31

Effective Dates



A handwritten signature in black ink, appearing to read 'Peter S. Lander'.

For the National Voluntary Laboratory Accreditation Program

Asbestos Inspector Credentials

	<p>TARJETA DE REGISTRO PARA LA REMOCION DE ASBESTO</p>
<p>ASB-1122-0471-SI</p>	<p>Esta tarjeta autoriza a:</p>
<p>Número de Registro</p>	<p><i>Elme Rivera Pérez</i></p>
<p>7-nov-2023</p>	<p>Inspector</p>
<p>Fecha de vencimiento</p>	<p>A trabajar en la remoción de asbesto en Puerto Rico. Esta persona NO es un empleado del DRNA.</p>
	
	<p>Firma Autorizada - Departamento Recursos Naturales y Ambientales</p>

Appendix II



ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name **Metric Engineering PR**
 Project Name: ACM Surveys for PR-865 intersection with Ave. Campanilla, Campanilla (PR-CRP-000993), Toa Baja, PR
 Inspection Date: 7/20/2023

Roundabout: PR-CRP-000993
 Road/Km: PR-865
 Page: 1 of 1

Homogeneous Material Description		Material Category	Asbestos Content	Friability	Location of Materials	Asbestos Contents	Total Square Feet of ACM	AHERA Assessment Category (1-7,X, None)	Hazard Ranking (1-7)
I.D. Number	Material Description								
	No Suspect ACM								

Inspected by: Elme Rivera

Date: 7/20/2023

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

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

Appendix III



**Aerial View of PR-865 intersection with Ave. Campanilla,
Toa Baja, PR (PR-CRP-000993).
(Lat: 18.422301°, Lon: -66.231948°)**



**SELECTIVE PHOTOS: ROAD PR-865 INTERSECTION WITH AVE. CAMPANILLA,
CAMPANILLA, TOA BAJA, PR (CASE # PR-CRP-000993)**



SELECTIVE PHOTOS: ROAD PR-865 INTERSECTION WITH AVE. CAMPANILLA, CAMPANILLA, TOA BAJA, PR (CASE # PR-CRP-000993)



SELECTIVE PHOTOS: ROAD PR-865 INTERSECTION WITH AVE. CAMPANILLA, CAMPANILLA, TOA BAJA, PR (CASE # PR-CRP-000993)



SELECTIVE PHOTOS: ROAD PR-865 INTERSECTION WITH AVE. CAMPANILLA, CAMPANILLA, TOA BAJA, PR (CASE # PR-CRP-000993)



**SELECTIVE PHOTOS: ROAD PR-865 INTERSECTION WITH AVE. CAMPANILLA,
CAMPANILLA, TOA BAJA, PR (CASE # PR-CRP-000993)**



Summary Table of EPA Facilities

PR-CRP-000993

(3000-FT Buffer Zone)

Item	Facility	FRS ID#	Distance from the Project (FT)	Latitude	Longitude	Industry	Locational Data Source	Compliance Status	RCRA	CWA
1	Centro Camiones	110009436761	0	18.42223	-66.2323	--	FRS	No Violation Identified	PRD987381027	
2	United Parcel Service	110009438082	0	18.42223	-66.2323	--	FRS	No Violation Identified	PRR000012997	PRR053212
3	Environmental Management Service	110007818683	3360	18.41664	-66.2241	--	RCRAINFO	No Violation Identified	PRR000005116	
4	HILL CONSTRUCTION CORP	110033018990	3100	18.41659	-66.2254	Crop Production	RCRAINFO	No Violation Identified	PRR000021246	



Detailed Facility Report

Facility Summary

CENTRO CAMIONES

CARR 865 KM 5.5, TOA BAJA, PR 00949

FRS (Facility Registry Service) ID: 110009436761

EPA Region: 02

Latitude: 18.422233

Longitude: -66.232266

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	02/09/1998
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active
VSQG, (PRD987381027)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): 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		110009436761					N	18.422233	-66.232266
RCRAInfo	RCRA	PRD987381027	VSQG	Active (H)			N	18.422233	-66.232266

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110009436761	CENTRO CAMIONES	CARR 865 KM 5.5, TOA BAJA, PR 00949	Toa Baja Municipio
RCRAInfo	RCRA	PRD987381027	CENTRO CAMIONES	CARR 865 KM 5.5, TOA BAJA, PR 00949	Toa Baja Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

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

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRD987381027	No	06/01/2024	0	05/31/2024

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: PRD987381027)		07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24
Facility-Level Status		No Violation Identified											
Violation		Agency											

Informal Enforcement Actions Last 5 Years

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

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

Formal Enforcement Actions Last 5 Years

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

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

Air Quality Nonattainment Areas

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

Pollutants

Toxics Release Inventory History of Reported Chemicals Released

or Transferred in Pounds per Year at Site

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

No data records returned

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

Chemical Name

No data records returned

Community

Environmental Justice

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



Potential Environmental Justice Concerns

- US Territory
- Supplemental/EJ index percentiles >= 90 (Census block group)
- Supplemental/EJ index percentiles >= 90 (1-mile average)

EJScreen Indexes Shown

Index Type	Supplemental (default)
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Related Reports

EJScreen Community Report

Download Data

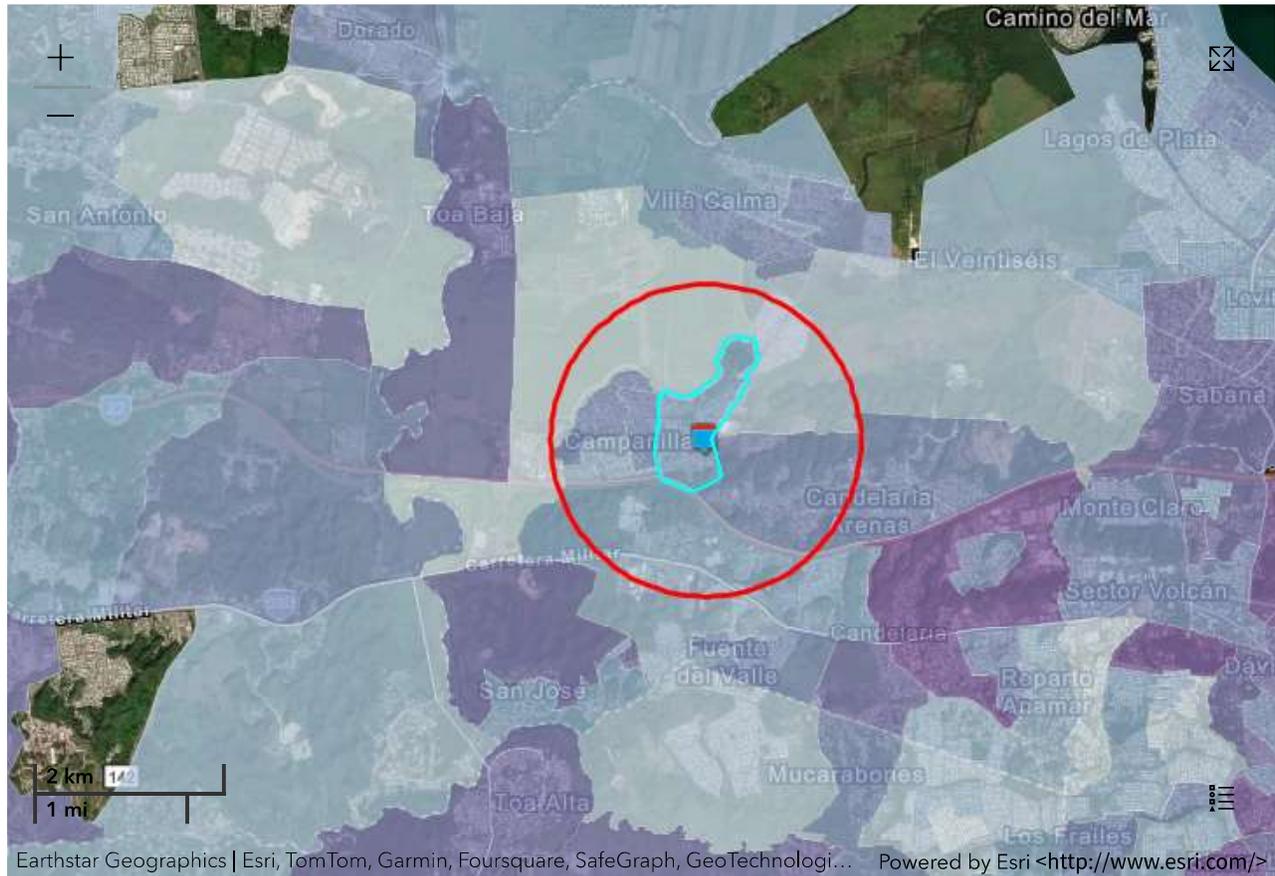
Census Block Group ID: 721371222021	US (Percentile)			State (Percentile)		
	Supplemental Indexes	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg
Count of Indexes At or Above 90th Percentile	5	5	6	4	1	6
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	67	65	80	92	87	95
Air Toxics Cancer Risk	55	53	55	86	66	90
Air Toxics Respiratory Hazard Index	38	36	39	86	67	90
Toxic Releases to Air	99	99	99	90	82	94
Traffic Proximity	99	98	99	85	69	87
Lead Paint	88	77	98	50	41	86
Risk Management Plan (RMP) Facility Proximity	94	92	96	55	49	63
Hazardous Waste Proximity	89	88	97	46	45	70

Supplemental Indexes	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Superfund Proximity	99	99	99	98	93	99
Underground Storage Tanks (UST)	0	53	99	0	0	87
Wastewater Discharge	99	99	99	92	86	94

Map Display Based on: US State

Display Map Layer

Facility 1-mile Radius Facility Census Block Group



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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. 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 the census blocks (for

U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <<https://epa.gov/help/reports/dfr-data-dictionary#demographic>>.

General Statistics (U.S. Census)	
Total Persons	11,617
Population Density	3,702/sq.mi.
Housing Units in Area	4,479

General Statistics (ACS (American Community Survey))	
Total Persons	8,614
Percent People of Color	99%
Households in Area	2,981
Households on Public Assistance	183
Persons With Low Income	6,213
Percent With Low Income	72%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.422233
Center Longitude	-66.232266
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,139 (38.21%)
\$15,000 - \$25,000	605 (20.3%)
\$25,000 - \$50,000	676 (22.68%)
\$50,000 - \$75,000	351 (11.77%)
Greater than \$75,000	210 (7.04%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	850 (7%)
Minors 17 years and younger	3,302 (28%)
Adults 18 years and older	8,315 (72%)
Seniors 65 years and older	1,222 (11%)

Race Breakdown (U.S. Census) - Persons (%)	
White	7,648 (66%)
African-American	2,008 (17%)
Hispanic-Origin	11,507 (99%)
Asian/Pacific Islander	38 (0%)
American Indian	62 (1%)
Other/Multiracial	1,861 (16%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	1,081 (17.49%)
9th through 12th Grade	630 (10.19%)
High School Diploma	1,994 (32.27%)
Some College/2-year	745 (12.06%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,145 (18.53%)



Detailed Facility Report

Facility Summary

UNITED PARCEL SERVICE

PR-865 KM 5.1, TOA BAJA, PR 00949

FRS (Facility Registry Service) ID: 110009438082

EPA Region: 02

Latitude: 18.422233

Longitude: -66.232266

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, (PRR000012997)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): 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		110009438082					N	18.422233	-66.232266
RCRAInfo	RCRA	PRR000012997	Other	Inactive ()			N	18.422233	-66.232266

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110009438082	UNITED PARCEL SERVICE	PR-865 KM 5.1, TOA BAJA, PR 00949	Toa Baja Municipio
RCRAInfo	RCRA	PRR000012997	UNITED PARCEL SERVICE	PR-865 KM 5.1, TOA BAJA, PR 00949	Toa Baja Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

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

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000012997	No	06/01/2024	0	05/31/2024

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: PRR000012997)		07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24
Facility-Level Status		No Violation Identified											
Violation Agency													

Informal Enforcement Actions Last 5 Years

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

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

Formal Enforcement Actions Last 5 Years

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

Environmental Conditions

Watersheds

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

Assessed Waters From Latest State Submission (ATTAINS)

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

Air Quality Nonattainment Areas

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

Pollutants

Toxics Release Inventory History of Reported Chemicals Released

or Transferred in Pounds per Year at Site

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

No data records returned

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

Chemical Name

No data records returned

Community

Environmental Justice

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



Potential Environmental Justice Concerns

- US Territory
- Supplemental/EJ index percentiles >= 90 (Census block group)
- Supplemental/EJ index percentiles >= 90 (1-mile average)

EJScreen Indexes Shown

Index Type	Supplemental (default)
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Related Reports

EJScreen Community Report

Download Data

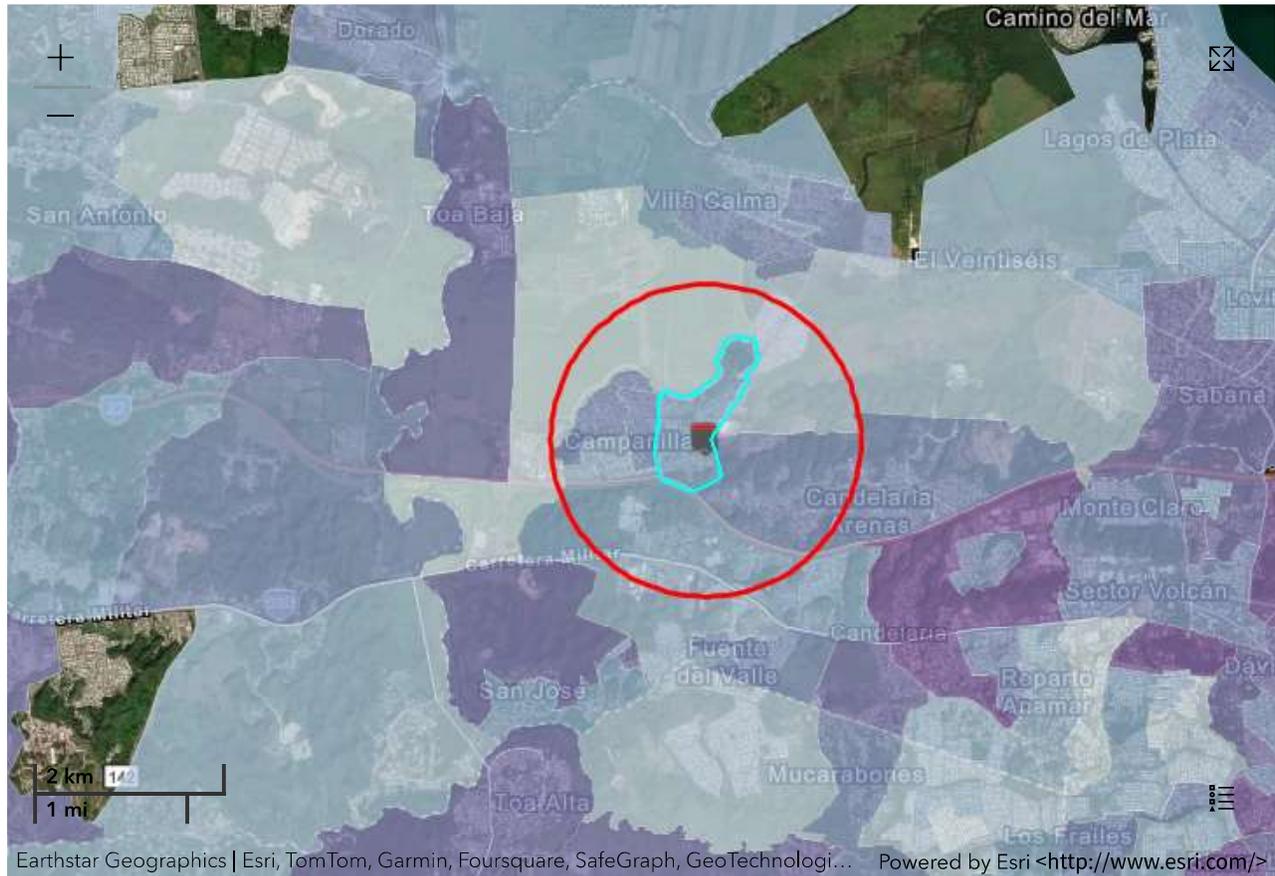
Census Block Group ID: 721371222021	US (Percentile)			State (Percentile)		
	Supplemental Indexes	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg
Count of Indexes At or Above 90th Percentile	5	5	6	4	1	6
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	67	65	80	92	87	95
Air Toxics Cancer Risk	55	53	55	86	66	90
Air Toxics Respiratory Hazard Index	38	36	39	86	67	90
Toxic Releases to Air	99	99	99	90	82	94
Traffic Proximity	99	98	99	85	69	87
Lead Paint	88	77	98	50	41	86
Risk Management Plan (RMP) Facility Proximity	94	92	96	55	49	63
Hazardous Waste Proximity	89	88	97	46	45	70

Supplemental Indexes	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Superfund Proximity	99	99	99	98	93	99
Underground Storage Tanks (UST)	0	53	99	0	0	87
Wastewater Discharge	99	99	99	92	86	94

Map Display Based on: US State

Display Map Layer

Facility 1-mile Radius Facility Census Block Group



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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. 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 the census blocks (for

U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <<https://epa.gov/help/reports/dfr-data-dictionary#demographic>>.

General Statistics (U.S. Census)	
Total Persons	11,617
Population Density	3,702/sq.mi.
Housing Units in Area	4,479

General Statistics (ACS (American Community Survey))	
Total Persons	8,614
Percent People of Color	99%
Households in Area	2,981
Households on Public Assistance	183
Persons With Low Income	6,213
Percent With Low Income	72%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.422233
Center Longitude	-66.232266
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,139 (38.21%)
\$15,000 - \$25,000	605 (20.3%)
\$25,000 - \$50,000	676 (22.68%)
\$50,000 - \$75,000	351 (11.77%)
Greater than \$75,000	210 (7.04%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	850 (7%)
Minors 17 years and younger	3,302 (28%)
Adults 18 years and older	8,315 (72%)
Seniors 65 years and older	1,222 (11%)

Race Breakdown (U.S. Census) - Persons (%)	
White	7,648 (66%)
African-American	2,008 (17%)
Hispanic-Origin	11,507 (99%)
Asian/Pacific Islander	38 (0%)
American Indian	62 (1%)
Other/Multiracial	1,861 (16%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	1,081 (17.49%)
9th through 12th Grade	630 (10.19%)
High School Diploma	1,994 (32.27%)
Some College/2-year	745 (12.06%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,145 (18.53%)



Detailed Facility Report

Facility Summary

ENVIRONMENTAL MANAGEMENT SERVICES

STATE RD 865 KM 0.2, TOA BAJA, PR 00951

FRS (Facility Registry Service) ID: 110007818683

EPA Region: 02

Latitude: 18.416642

Longitude: -66.224107

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	06/15/2000
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): Inactive
Other, (PRR000005116)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): 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		110007818683					N	18.416642	-66.224107
RCRAInfo	RCRA	PRR000005116	Other	Inactive ()			N	18.416642	-66.224107

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007818683	ENVIRONMENTAL MANAGEMENT SERVICES	STATE RD 865 KM 0.2, TOA BAJA, PR 00951	Toa Baja Municipio
RCRAInfo	RCRA	PRR000005116	ENVIRONMENTAL MANAGEMENT SERVICES	STATE RD 865 KM 0.2, TOA BAJA, PR 00951	Toa Baja Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

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

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000005116	No	06/01/2024	0	05/31/2024

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: PRR000005116)		07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24
Facility-Level Status		No Violation Identified											
Violation		Agency											

Informal Enforcement Actions Last 5 Years

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

No data records returned

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

Formal Enforcement Actions Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

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

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released

or Transferred in Pounds per Year at Site

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

No data records returned

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

Chemical Name

No data records returned

Community

Environmental Justice

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



Potential Environmental Justice Concerns

- US Territory
- Supplemental/EJ index percentiles >= 90 (Census block group)
- Supplemental/EJ index percentiles >= 90 (1-mile average)

EJScreen Indexes Shown

Index Type	Supplemental (default)
------------	------------------------

Related Reports

EJScreen Community Report

Download Data

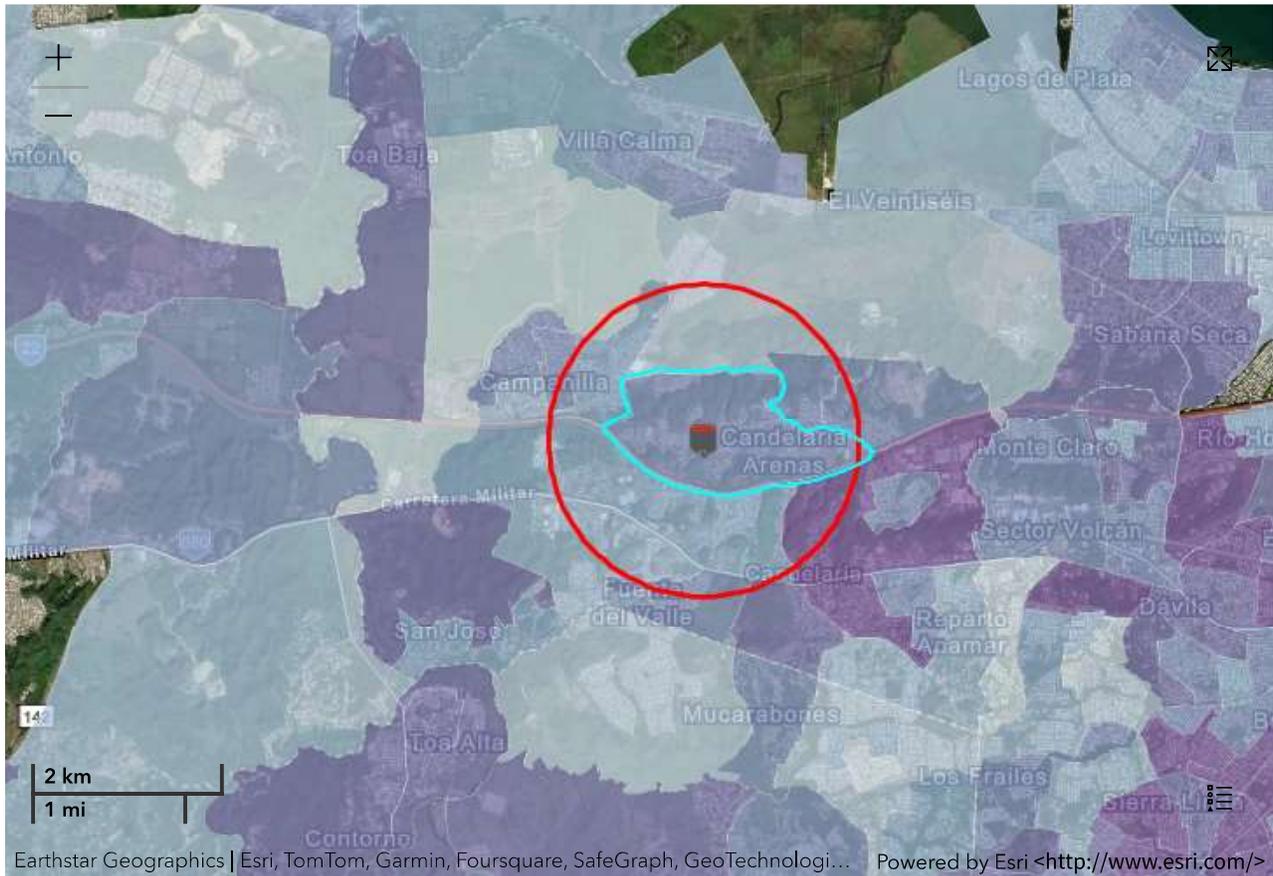
Census Block Group ID: 721371218013	US (Percentile)			State (Percentile)		
	Supplemental Indexes	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg
Count of Indexes At or Above 90th Percentile	6	6	8	6	1	6
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	80	72	83	95	88	95
Air Toxics Cancer Risk	55	53	55	90	65	90
Air Toxics Respiratory Hazard Index	39	36	39	90	66	90
Toxic Releases to Air	99	99	99	94	83	94
Traffic Proximity	99	99	99	87	77	96
Lead Paint	0	67	98	0	32	86
Risk Management Plan (RMP) Facility Proximity	96	93	97	63	54	66
Hazardous Waste Proximity	94	91	98	57	51	84

Supplemental Indexes	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Superfund Proximity	99	99	99	99	93	99
Underground Storage Tanks (UST)	0	66	99	0	0	90
Wastewater Discharge	99	99	99	94	85	94

Map Display Based on: US State

Display Map Layer

Facility 1-mile Radius Facility Census Block Group



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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. 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 the census blocks (for

U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <<https://epa.gov/help/reports/dfr-data-dictionary#demographic>>.

General Statistics (U.S. Census)	
Total Persons	12,736
Population Density	4,132/sq.mi.
Housing Units in Area	4,955

General Statistics (ACS (American Community Survey))	
Total Persons	9,293
Percent People of Color	100%
Households in Area	3,197
Households on Public Assistance	188
Persons With Low Income	6,841
Percent With Low Income	74%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.416642
Center Longitude	-66.224107
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,121 (35.08%)
\$15,000 - \$25,000	727 (22.75%)
\$25,000 - \$50,000	650 (20.34%)
\$50,000 - \$75,000	434 (13.58%)
Greater than \$75,000	264 (8.26%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	827 (6%)
Minors 17 years and younger	3,343 (26%)
Adults 18 years and older	9,393 (74%)
Seniors 65 years and older	1,305 (10%)

Race Breakdown (U.S. Census) - Persons (%)	
White	8,353 (66%)
African-American	2,460 (19%)
Hispanic-Origin	12,621 (99%)
Asian/Pacific Islander	45 (0%)
American Indian	78 (1%)
Other/Multiracial	1,800 (14%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	984 (14.76%)
9th through 12th Grade	674 (10.11%)
High School Diploma	2,149 (32.23%)
Some College/2-year	878 (13.17%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,316 (19.74%)



Detailed Facility Report

Facility Summary

HILL CONSTRUCTION CORP

**CARR 865 KM 3.1 BO CANDELARIO, TOA BAJA, PR
00949**

FRS (Facility Registry Service) ID: 110033018990

EPA Region: 02

Latitude: 18.416586

Longitude: -66.225362

Locational Data Source: RCRAINFO

Industries: Crop Production

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	07/02/2009
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,
(PRR000021246)

Safe Drinking Water Act (SDWA): No Information

[Go To Enforcement/Compliance Details](#)

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110033018990					N	18.416586	-66.225362
RCRAInfo	RCRA	PRR000021246	VSQG	Active (H)			N	18.416586	-66.225362

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110033018990	HILL CONSTRUCTION CORP	CARR 865 KM 3.1 BO CANDELARIO, TOA BAJA, PR 00949	Toa Baja Municipio
RCRAInfo	RCRA	PRR000021246	HILL CONSTRUCTION CORP	CARR 865 KM 3.1 BO CANDELARIO, TOA BAJA, PR 00949	Toa Baja 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	PRR000021246	11111	Soybean Farming

Facility Tribe Information

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

Enforcement and Compliance

Compliance Monitoring History Last 5 Years

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

Entries in italics are not 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	PRR000021246	No	04/06/2024	0	04/05/2024

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA	(Source ID: PRR000021246)	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24
	Facility-Level Status	No Violation Identified											
	Violation												
	Agency												

Informal Enforcement Actions

Last 5 Years

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

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

Formal Enforcement Actions

Last 5 Years

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

Environmental Conditions

Watersheds

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

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

Chemical Name
No data records returned

Community Environmental Justice

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

EJScreen Indexes Shown

Compare to US State

Index Type Environmental Justice Supplemental

Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 721371218013	US (Percentile)	
	Facility Census Block Group	1-mile Max
Supplemental Indexes		
Count of Indexes At or Above 80th Percentile	7	9
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	1 80	1 83

Census Block Group ID: 721371218013	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Air Toxics Cancer Risk	55	55
Air Toxics Respiratory Hazard Index	39	39
Toxic Releases to Air	! 99	! 99
Traffic Proximity	! 99	! 99
Lead Paint	0	! 98
Risk Management Plan (RMP) Facility Proximity	! 96	! 97
Hazardous Waste Proximity	! 94	! 98
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	0	! 99
Wastewater Discharge	! 99	! 99

Facility 1-mile Radius Facility Census Block Group





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

General Statistics (U.S. Census)		Age Breakdown (U.S. Census) - Persons (%)	
Total Persons	12,875	Children 5 years and younger	847 (7%)
Population Density	4,151/sq.mi.	Minors 17 years and younger	3,380 (26%)
Housing Units in Area	4,995	Adults 18 years and older	9,495 (74%)
		Seniors 65 years and older	1,318 (10%)
General Statistics (ACS (American Community Survey))		Race Breakdown (U.S. Census) - Persons (%)	
Total Persons	9,474	White	8,499 (66%)
Percent People of Color	99%	African-American	2,459 (19%)
Households in Area	3,282	Hispanic-Origin	12,761 (99%)
Households on Public Assistance	199	Asian/Pacific Islander	44 (0%)
Persons With Low Income	6,939	American Indian	74 (1%)
Percent With Low Income	74%	Other/Multiracial	1,798 (14%)
Geography		Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Radius of Selected Area	1 mi.	Less than 9th Grade	1,029 (15.09%)
Center Latitude	18.416586	9th through 12th Grade	675 (9.9%)
Center Longitude	-66.225362		

Geography	
Land Area	100%
Water Area	0%
Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,149 (35.05%)
\$15,000 - \$25,000	730 (22.27%)
\$25,000 - \$50,000	683 (20.84%)
\$50,000 - \$75,000	432 (13.18%)
Greater than \$75,000	284 (8.66%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	2,189 (32.1%)
Some College/2-year	885 (12.98%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,359 (19.93%)

Categorical Exclusion
City Revitalization Program
PR-CRP-000993 - Rotonda PR-865 int. Ave. Campanilas, Campanilla

Appendix F: Site Inspection

Toa Baja - Intersections

SITE SURVEY

Date and time: **Mar 22, 2023, 9:18:00 AM**

- Chose Intersection Name: **PR-865 & AVE. CAMPANILLA (PR-CRP-000993)**
- Pin Location **Lat: 18.422383 Lon: -66.232008**



Esri, HERE, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS, US Census Bureau | Earthstar Geographics

□

UTILITIES PREPA



PRASA

PR-865 KM.1.9

Was not found in the field visit.

TELECOMMUNICATION

- Photo (Telecom)



INTERSECTION

UNSIGNALIZED

Notes – Intersection is wide in space and vehicles yield instead of stopping in any leg. At the time of the visit, it could be observed trucks making a left at the intersection.

- Current traffic control device: **No signs. Currently the intersection has no control in any of the legs either by sign or pavement marking.**

Photos



INTERSECTION QUESTIONS 2

LEGS

- How many? **4**

LEG 1



- Have sidewalks? **Yes on left side**
- Right Sidewalk current condition: **Poor**
- Asphalt condition: **Average**
- Have crosswalks? **No**

LEG 2



- Have sidewalks? **Yes, on both sides.**
- Right Sidewalk current condition: **Poor**
- Left Sidewalk current condition: **Poor**
- Space to open comment **Pedestrian walking in the street. Utilities in sidewalks**
- Asphalt condition **Average**
- Have crosswalks? **No**

LEG 3



- Have sidewalks? **No**
- Asphalt condition: **Average**
- Have crosswalks? **No**

LEG 4



- Have sidewalks? **Yes, on left side.**
- Left Sidewalk current condition: **Poor**
- Asphalt condition: **Average**
- Have crosswalks? **No**

INTERSECTION – GENERAL

- Pavement Marking: **Missing**
- Signs: **Missing**
- There is general visibility issues? **Yes - Utility Pole**

Other: **Vegetation**



- Any restriction on turning movements? **None**
- Based on your perspective, is there enough time to cross? **No traffic control.**

CURBS

- Are curb ramps present? **Yes**
- How many? **1** Are they ADA compliant: **No**

Curbs Photos:





LIGHTNING

- Is the lighting adequate at all corners? **No**
- Space to open comment: **Not sure if Lights are working.**

Photo



TRANSIT

- Are there any transit stop? **No**

PEDS AND BIKES

- Are peds and bikes waiting for gaps? **As there are some sidewalks missing and/or poor condition, ped are walking in street. Waiting for gaps.**
- Are drivers expecting crossing peds or bikes? **No. However, at the time of inspection pedestrians were walking and bikes were riding on the sidewalk.**
- Peds and bike facilities accommodate users with disabilities? **No**
- If no, explain (space to open comment) **No curb ramps, sidewalks missing in some of the legs, and no crosswalks. In addition, there is no control for vehicle movement. Therefore, it could be difficult for ped and bike to cross the intersection.**





Appendix G: EJ Screen Community Report



EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Toa Baja Municipio, PR

1 mile Ring Centered at 18.422266,-66.231986

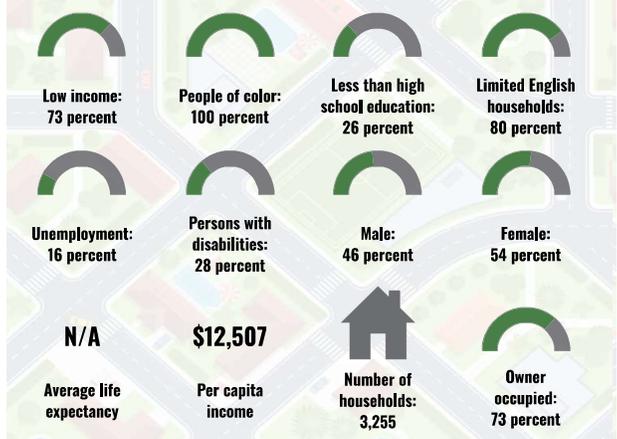
Population: 9,433

Area in square miles: 3.14

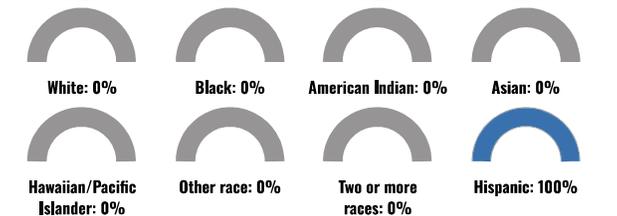


August 15, 2024
 PR-CRP-000993
 Underground Storage Tanks
 (National Percentiles)
 Less than 50 percentile
 1:9,028
 0 0.1 0.2 0.4 mi
 0 0.15 0.3 0.6 km
 Esri, HERE, Garmin, GeoTechnologies, Inc, USGS, Esri, HERE

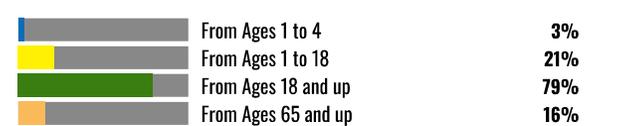
COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2018-2022. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	3%
Spanish	97%
Total Non-English	97%

Report for 1 mile Ring Centered at 18.422266,-66.231986
 Report produced August 15, 2024 using EJScreen Version 2.3

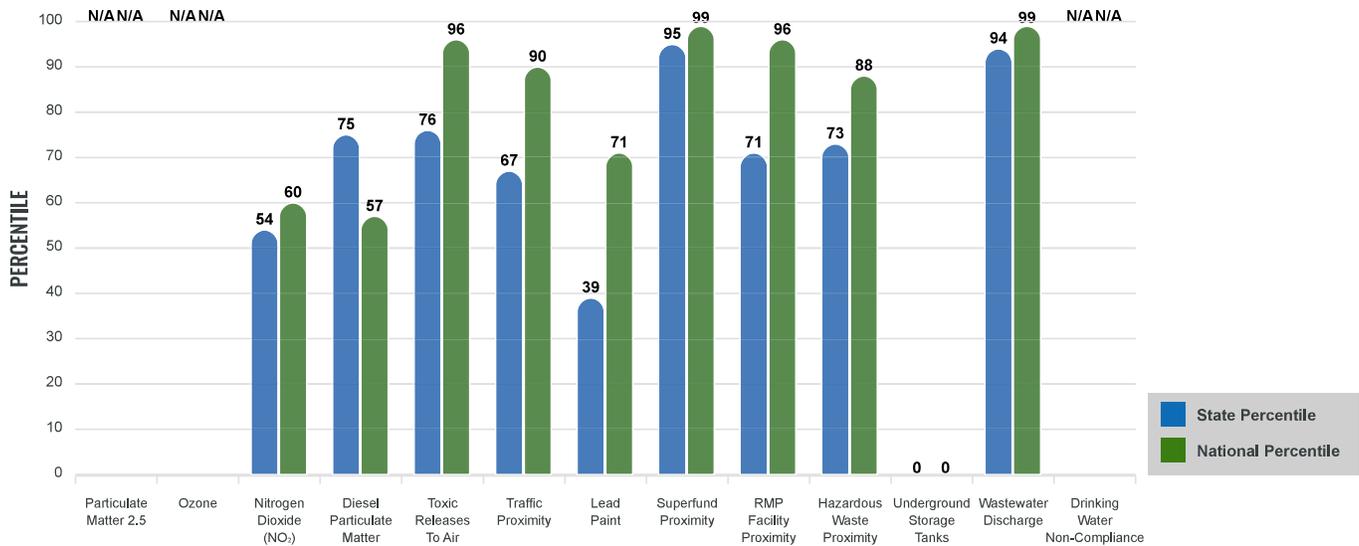
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

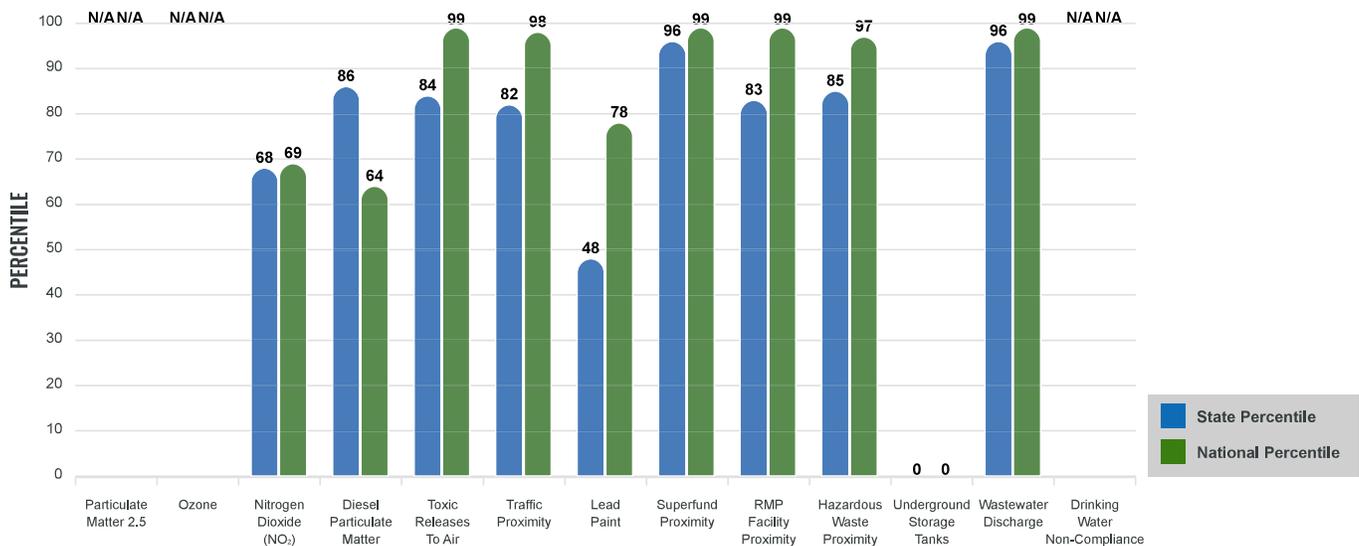
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low income, percent persons with disabilities, percent less than high school education, percent limited English speaking, and percent low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



Report for 1 mile Ring Centered at 18.422266,-66.231986
 Report produced August 15, 2024 using EJScreen Version 2.3

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
ENVIRONMENTAL BURDEN INDICATORS					
Particulate Matter 2.5 (µg/m ³)	N/A	N/A	N/A	8.45	N/A
Ozone (ppb)	N/A	N/A	N/A	61.8	N/A
Nitrogen Dioxide (NO ₂) (ppbv)	4.8	5.5	53	7.8	21
Diesel Particulate Matter (µg/m ³)	0.0762	0.0618	70	0.191	18
Toxic Releases to Air (toxicity-weighted concentration)	1,800	4,300	76	4,600	70
Traffic Proximity (daily traffic count/distance to road)	1,100,000	1,100,000	64	1,700,000	56
Lead Paint (% Pre-1960 Housing)	0.074	0.16	44	0.3	31
Superfund Proximity (site count/km distance)	1	0.23	96	0.39	91
RMP Facility Proximity (facility count/km distance)	0.81	0.66	67	0.57	75
Hazardous Waste Proximity (facility count/km distance)	1.5	1.2	70	3.5	53
Underground Storage Tanks (count/km ²)	0	0	0	3.6	0
Wastewater Discharge (toxicity-weighted concentration/m distance)	4200000	670000	93	700000	99
Drinking Water Non-Compliance (points)	N/A	N/A	N/A	2.2	N/A
SOCIOECONOMIC INDICATORS					
Demographic Index USA	3.3	N/A	N/A	1.34	97
Supplemental Demographic Index USA	4.76	N/A	N/A	1.64	99
Demographic Index State	4.8	4.63	47	N/A	N/A
Supplemental Demographic Index State	3.21	2.72	72	N/A	N/A
People of Color	100%	97%	29	40%	97
Low Income	73%	70%	45	30%	95
Unemployment Rate	16%	14%	66	6%	93
Limited English Speaking Households	80%	66%	75	5%	99
Less Than High School Education	26%	20%	66	11%	88
Under Age 5	3%	3%	56	5%	34
Over Age 64	16%	23%	22	18%	48

*Diesel particulate matter index is from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haas/air-toxics-data-update>.

Sites reporting to EPA within defined area:

Superfund	1
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	5
Air Pollution	1
Brownfields	0
Toxic Release Inventory	4

Other community features within defined area:

Schools	1
Hospitals	0
Places of Worship	0

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for 1 mile Ring Centered at 18.422266,-66.231986
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EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	N/A	N/A	N/A	20%	N/A
Heart Disease	N/A	N/A	N/A	5.8	N/A
Asthma	N/A	N/A	N/A	10.3	N/A
Cancer	N/A	N/A	N/A	6.4	N/A
Persons with Disabilities	28%	22.7%	79	13.7%	97

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	N/A	N/A	N/A	12%	N/A
Wildfire Risk	N/A	N/A	N/A	14%	N/A

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	33%	29%	64	13%	93
Lack of Health Insurance	7%	7%	61	9%	51
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access Burden	No	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

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