OMB No. 2506-0177
(exp. 7/31/2028)

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those "Partners" (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Explosive and Flammable Hazards (CEST and EA) – PARTNER

HUD Exchange Explosive and Flammable Facilities Page

1. **Does the proposed HUD-assisted project include a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?**

   ☒ No
   → *Continue to Question 2.*

   ☐ Yes
   Explain:
   Click here to enter text.
   → *Continue to Question 5.*

2. **Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion?**

   ☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

   ☒ Yes → *Continue to Question 3.*

3. **Within 1 mile of the project site, are there any current *or planned* stationary aboveground storage containers:**
   - Of more than 100-gallon capacity, containing common liquid industrial fuels OR
   - Of any capacity, containing hazardous liquids or gases that are not common liquid industrial fuels?

   ☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide all documents used to make your determination.*

   ☐ Yes → *Continue to Question 4.*

4. **Is the Separation Distance from the project acceptable based on standards in the Regulation?**
   Please visit HUD's website for information on calculating Acceptable Separation Distance.

   ☐ Yes
   → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the "assessed tank."

☐ No

→ *Continue to Question 6.*

Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the "assessed tank."

5. **Is the hazardous facility located at an acceptable separation distance from residences and any other facility or area where people may congregate or be present?**

Please visit HUD's website for information on calculating Acceptable Separation Distance.

☐ Yes

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

☐ No

→ *Continue to Question 6.*

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

6. **For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to make the Separation Distance acceptable, including the timeline for implementation. If negative effects cannot be mitigated, cancel the project at this location.**

Note that only licensed professional engineers should design and implement blast barriers. If a barrier will be used or the project will be modified to compensate for an unacceptable separation distance, provide approval from a licensed professional engineer.

Click here to enter text.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The U.S. Environmental Protection Agency (EPA) provides the UST Finder tool, but it primarily focuses on underground storage tanks (USTs), not aboveground storage tanks (ASTs). While there isn't a public EPA AST map for Puerto Rico specifically, AST regulations and safety practices fall under the purview of the Puerto Rico Environmental Quality Board (PREQB), which is responsible for implementing and enforcing related environmental policies. Thus, an AST map showing its location wasn't found.

Nonetheless, the nearest known hazardous facility as per HUD definition is Puerto Rico Energy, LLC, also known as CAPECO, which is about 3.6 miles northeast of the nearest project area which is PR-199/PR-5 intersection in Bayamón. See Attached Figure – Explosive and Flammable Hazards Facilities.

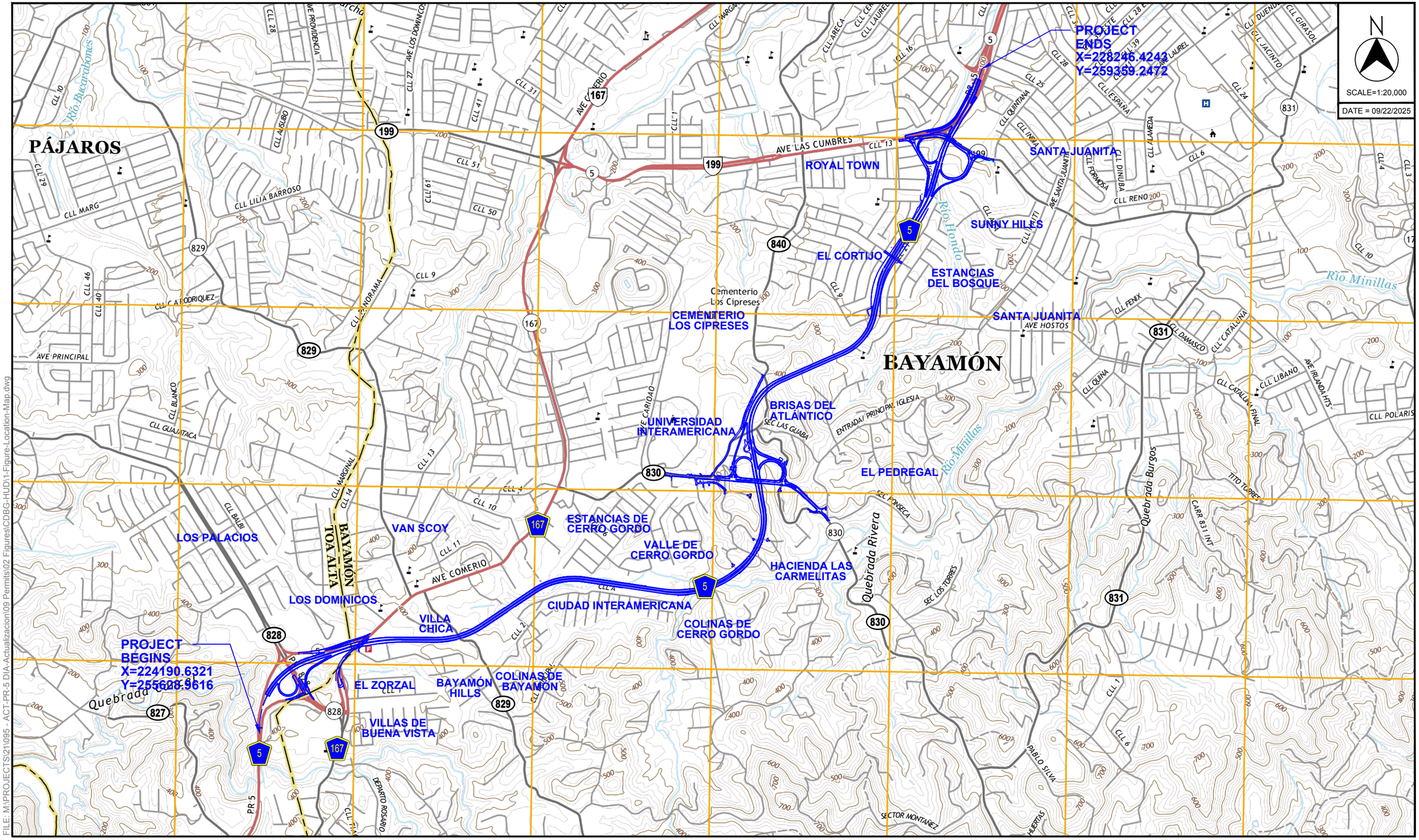
Based on the above, facilities storing explosives or flammable material were not identified within the distances that would require further analysis under HUD Explosive and Flammable Hazards criteria.

The use of explosives for earth movement, if needed, will be limited to the minimum and necessary within a formerly authorized acquired abandoned quarry. See Figure – Quarry, attached.

Although waterways, endangered species, or historic structures will not be affected, prior to any explosive activities, safe distance from blast zones calculations must comply with established blast overpressure and thermal radiation standards to ensure safety for neighboring populations and structures. Contractor in charge shall also comply will specific regulatory noise, vibration, and dust mitigation requirements and all local and federal rules and statutes. This includes specialized geotechnical study, detonation protocol compliance with the Occupational Safety Health Administration (OSHA), Mine Safety and Health Administration (MSHA), American National Standards Institute (ANSI) in its ANSI A10.6-1983 - *Safety Requirements For Demolition Operations*; Law 134, June 28, 1969 as amended known as "*Ley de Explosivos de Puerto Rico*", "*Reglamento para la Administración , Aplicación y Supervición de Uso de Explosivos*" September 11, 1970 as amended, Permit Manangement Offfice (OGPe by its Spanish acronym) Joint Permit Regulation, June 16, 2023 Chapter 3.5 "*Extracción, Excavación, Remoción y Dragado de los Compoentes de la Corteza Terreste*" particularly Section 3.5.13.2"*Normas Uso de Explosivos*". Additional information is included Section 2.12 and 4.3 of the approved S-EIS at Appendix 1, attached.

Thus, proposed project site is safe from nearby above-ground storage tanks that hold flammable or explosive materials.

Based on above the Project is in compliance with this section.



SOURCE: U.S.G.S TOPOGRAPHIC MAPS 2018

PR-5 EXTENSION
FROM PR-167 TO PR-199
BAYAMÓN - TOA ALTA, PUERTO RICO

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PR-5 EXTENSION

FIGURE LOCATION MAP

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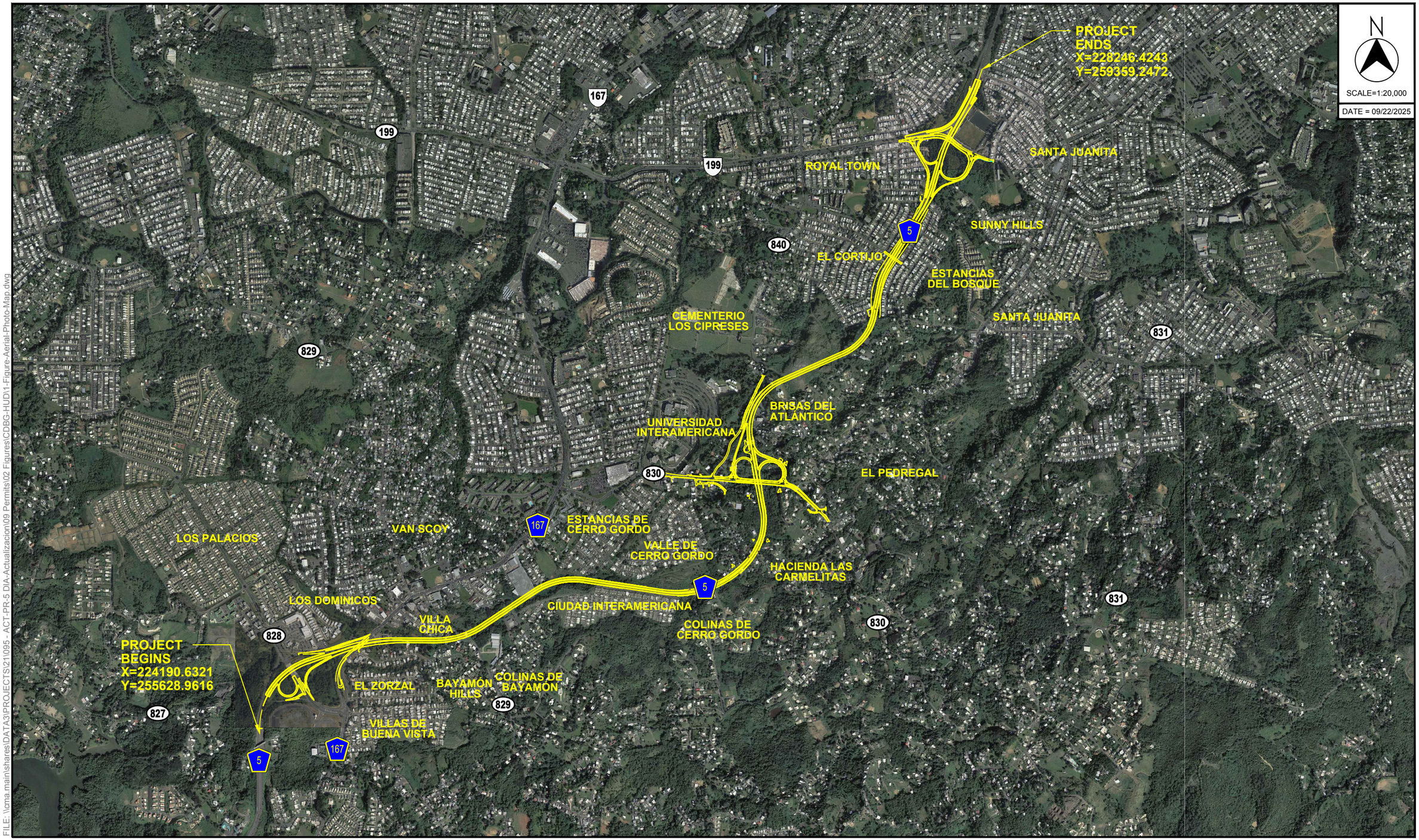

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SOURCE: AERIAL PHOTO GOOGLE MAPS 2010

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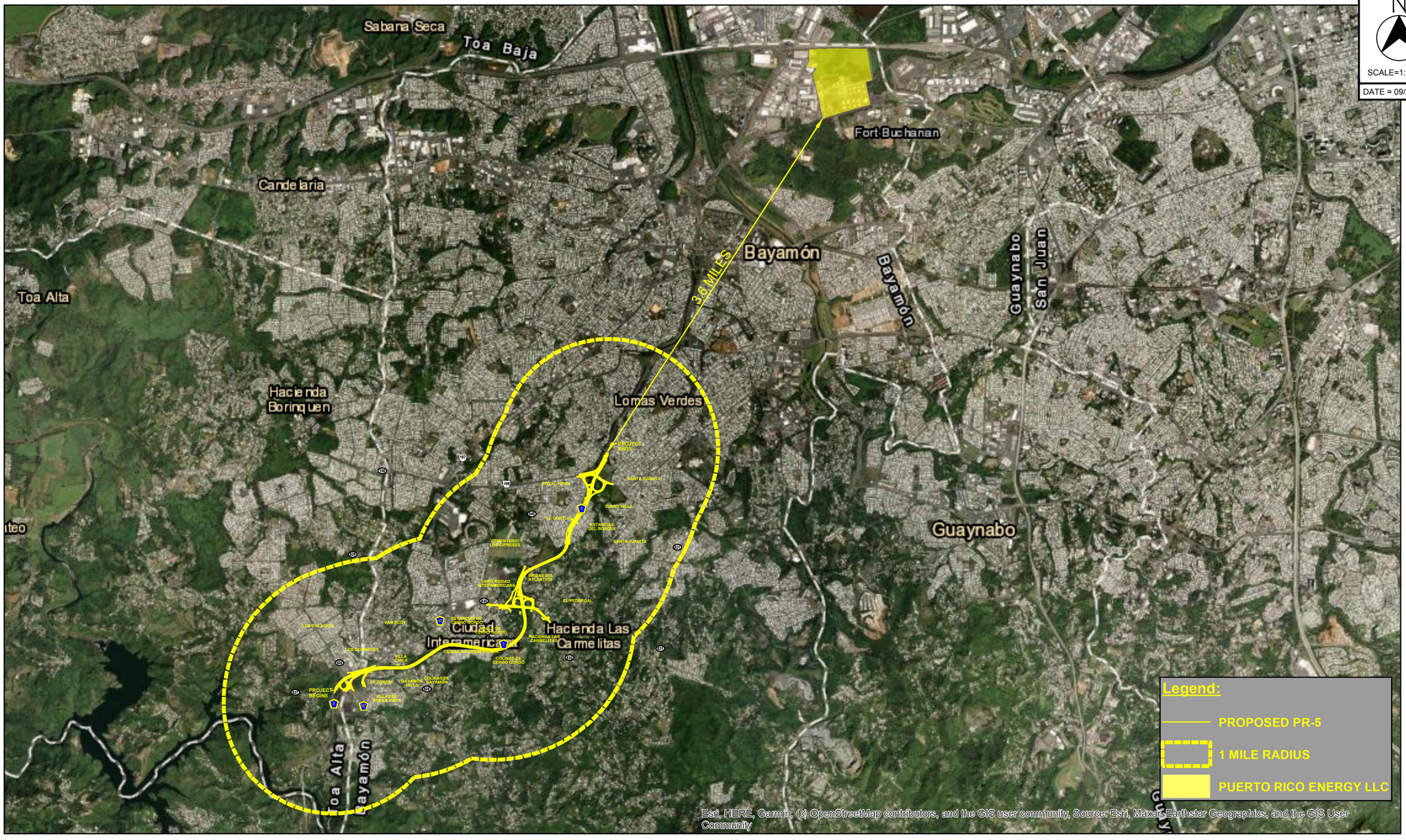
PR-5 EXTENSION

FIGURE AERIAL PHOTO MAP



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SOURCE: AERIAL PHOTO GOOGLE MAPS 2010

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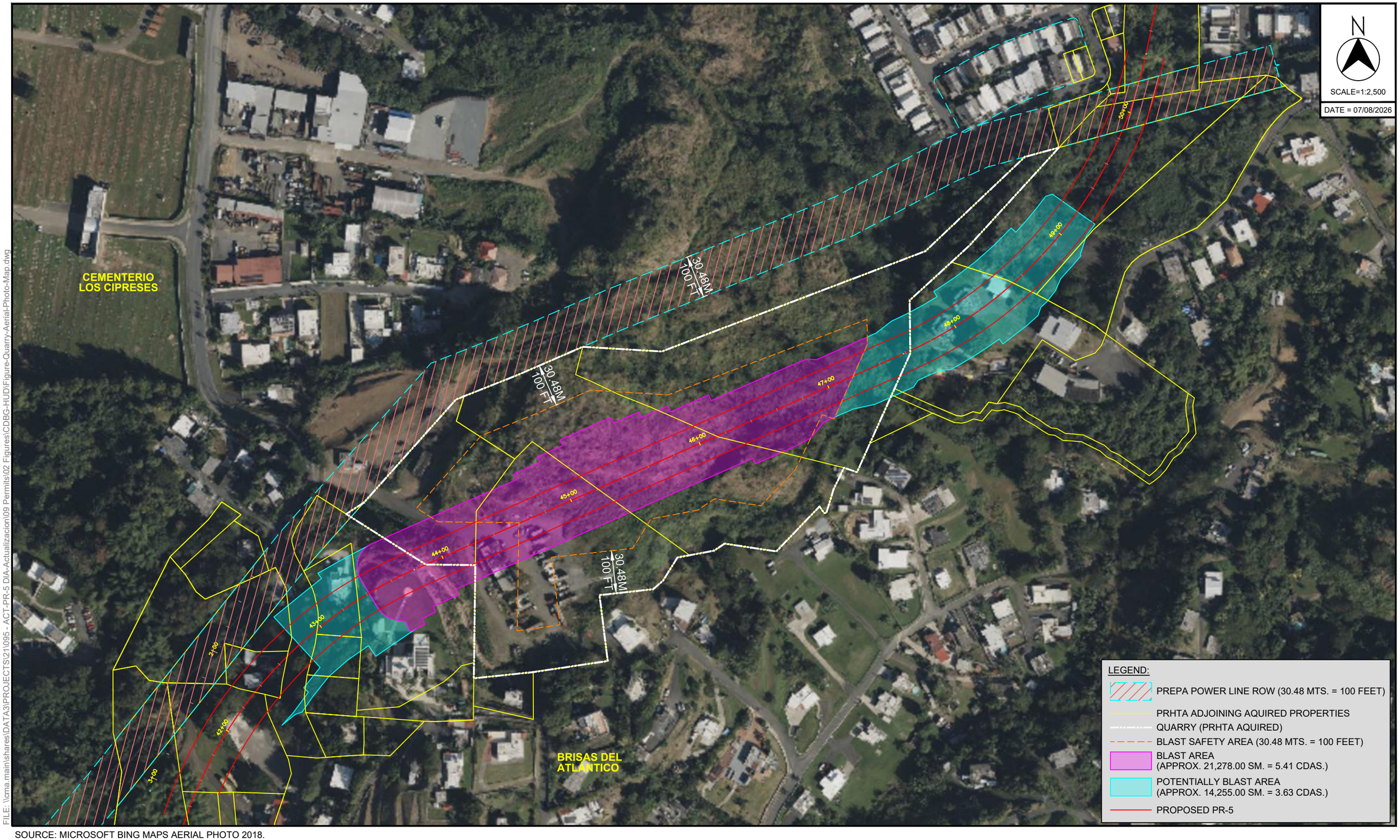
FIGURE EXPLOSIVE AND FLAMMABLE HAZARDS FACILITIES



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SOURCE: MICROSOFT BING MAPS AERIAL PHOTO 2018.

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PR-5 EXTENSION

FIGURE QUARRY AERIAL PHOTO MAP