

U.S. Department of Housing and Urban Development

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

Project Information

Project Name: Coliseo Angel Mercado

Responsible Entity: Puerto Rico Department of Housing

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

State/Local Identifier: PR-CRP-000745

Preparer: Genevieve Kaiser

Certifying Officer Name and Title: Juan Carlos Pérez-Bofill - Director, Disaster Recovery CDBG-DR; Aldo Rivera, Permits and Environmental Compliance Director; Ángel G. López Guzmán - Deputy Director, Permits and Environmental Compliance Specialist; Sally Z. Acevedo-Cosme - Permits and Environmental Compliance Specialist; Pedro de León Rodríguez - Permits and Environmental Compliance Specialist; María T. Torres-Bregón - Permits and Environmental Compliance Manager; Ivelisse Lorenzo Torres - Permits and Environmental Compliance Specialist; Santa Ramírez Lebrón - Permits and Environmental Compliance Specialist; Limary Vélez Marrero - Permits and Environmental Compliance Specialist; Mónica Machuca Ríos - Permits and Environmental Compliance Specialist

Consultant (if applicable): Tetra Tech, Inc.

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

Project Location: Coordinates, Street Address, Municipio, PR (Provide additional information on the project located beyond the address as necessary for the scope of the project)

Project will be located at Ave. Quilichini, Sabana Grande PR 00637, coordinates -66.959490 18.072633, cadaster # 335-057-068-14.

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

The Municipality of Sabana Grande proposes the demolition of the existing structure except the steel frame. The new Municipal Coliseum will be built in this structure. It will have capacity for six hundred seats, dressing rooms for both teams, an area for referees, radio transmission booth, and a first aid medical services area. It will have an area with a boxing ring that can also be used as a stage for events such as school graduations. It will have an outdoor open space to offer aerobic and Zumba classes. The upper floor will be used for table tennis. It will have a storage area for visitors. The parking area will be on an existing parking lot north of the coliseum and will be expanded with additional parking spaces to the west of the building. New pavement, gravel, and pavers for sidewalks will be created around the building. New sanitary piping also will be installed See Appendix B, Figure 1, Project Area Map, and Figure 2, Project Design.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

The funds requested are for the reconstruction of the coliseum, which suffered significant damage during Hurricane Maria. If the project is not carried out, the municipality would lack a facility that allows hosting large-scale events such as town assemblies, graduations, sports events, among others. Additionally, a spacious venue like this has been used to set up collection centers for storing aid in case of events like hurricanes or earthquakes.

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

The project is currently unused due to the damages caused by Hurricanes Maria and Fiona. The property is occupied by the damaged structure, which cannot safely be used. It represents an area that could be subject to blight, unauthorized uses, safety issues to the public and would not make the best use of the property.

Funding Information

Grant Number	HUD Program	Funding Amount
B-17-DM-72-0001		
B-18-DP-72-0001	CDDC DB	11 020 162 220
B-19-DP-78-0002	CDBG-DR	11,938,162,230
B-18-DE-72-0001		

Estimated Total HUD Funded Amount: \$2,500,000.00

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$5,287,236.00

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

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

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE OF and 58.6	RDERS, AND R	EGULATIONS LISTED AT 24 CFR 50.4
Airport Hazards 24 CFR Part 51 Subpart D	Yes No	Requirements of 24 CFR Part 51 Subpart D prohibit incompatible land uses on property within runway protection zones, clear zones, and accident potential zones. Projects require additional review if they are within 2,500 feet of a civil airport or 15,000 feet of a military airport. The project would not involve incompatible uses, such as construction of new homes, substantial rehabilitation of existing homes, acquisition of undeveloped land, activities that significantly prolong the physical or economic life of existing incompatible facilities or change uses of the facilities to incompatible uses, activities that significantly increase density or number of people at the site, or activities that introduce explosive, flammable, or toxic materials to the area. The civil airport nearest to the project area (Eugenio María de Hostos in Mayagüez) is approximately 98,680 feet away, and the nearest military (and civil) airfield (Luis Muñoz Marín International Airport located in San Juan) is approximately 376,941 feet away. Therefore, this topic complies with the

		See Appendix A, Airport Hazards Worksheet, and Appendix B, Figure , Airports Map.
Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No	According to the US Fish and Wildlife Service Coastal Barrier Resources mapping, the project is not located in any coastal barrier zone of Puerto Rico. The nearest unit is Ensenada las Pardas (Unit PR-61), approximately 9.6 miles south of the project. The Coastal Barriers Resources System contains two types of mapped units: System Units and Otherwise Protected Areas (OPAs). The nearest OPA is Cayo don Luis (PR-63P), approximately 7.6 miles south of the project. Most new federal expenditures and financial assistance, including federal flood insurance, are prohibited within System Units, while the only federal spending prohibitions within OPAs is on federal flood insurance. Since this project is not in an OPA or CBRS zone, it has no restrictions in this regard. Therefore, this topic complies with the regulation.
		See Appendix A, Coastal Barrier Resources Worksheet, and Appendix B, Figure 3, Coastal Barrier Resources Map.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes No	A portion of the project area is in the 100-year Special Flood Hazard Area (SFHA), as indicated on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel Number 72000C1580J, revised on November 18, 2009. Approximately 0.5 acre of the project area is within the 1 percent chance of annual flood (the 100-year floodplain), and approximately 1.9 acres are in the area with 0.2 percent chance of annual flood (the 500-year floodplain). All areas within the Commonwealth of Puerto Rico are eligible for NFIP policies. Flood Insurance is required when a project involves repairs, rehabilitation, or construction of an insurable structure in the

		100-year floodplain. The Municipal Coliseum structure is the only insurable structure on the project site. It is not within the 100-year floodplain and would not require flood insurance. No other insurable structures would be constructed in the project area. The project is in compliance with flood insurance requirements. See Appendix A, Flood Insurance Worksheet, and Appendix B, Figure 4, National Flood Hazard Layer FIRMETTE Map.
STATUTES, EXECUTIVE OF & 58.5	RDERS, AND R	REGULATIONS LISTED AT 24 CFR 50.4
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes No	The project does not include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities or five or more dwelling units. The project would continue to be used as a public coliseum. According to the EPA's Green Book (Current Nonattainment Counties for All Criteria Pollutants), the project site is not located in a non-attainment area. Therefore, this topic complies with the regulation. See Appendix A, Air Quality Worksheet.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes No	The Project site is not located in a Coastal Zone; it is approximately 6.2 miles north of the coastal zone. Therefore, this topic complies with the regulation. See Appendix A, Coastal Zone Management Act Worksheet, and Appendix B, Figure 5, Coastal Zone Map.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes No	HUD policy requires the project site and adjacent areas to be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances where a hazard could affect health and safety of

occupants of the property or conflict with intended use of the property.

The USEPA's Facility Registry Service (FRS) geospatial database of facilities or locations subject to environmental regulation or of environmental interest was reviewed within the applicable search distances to identify sites that could affect the project site. No Brownfields (ACRES), Superfund (NPL), or Superfund Enterprise Management System (SEMS) listings were within 1 mile of the project site. The project site is within 3,000 feet of seven Resource Conservation and Recovery Act (RCRA) Hazardous Waste listings and one Toxics Release Inventory (TRI) listing, and one Toxic Substances Control Act (TSCA) listing. USEPA's Superfund, Envirofacts, and Enforcement and Compliance History Online (ECHO) reports were reviewed for more detailed information on statuses of these facilities.

The seven RCRA sites are: Henkel Puerto Rico Inc. at 9 V Quilinchini Avenue, Sabana Grande Wastewater Treatment Plant at PR-2 KM 182.6 INT, Shell Service Station 1740 Sabana Grande at G Martinez 2, Esso Standard Oil Co. P.R. CO-370 at PR-121 65TH Infanteria 7, Prasa – Sabana Grande Filter Plant at PR-364 KM 0.6 INT, Total Petroleum Puerto Rico Corp. Service Station 104302 at V Quilinchini Avenue #26, and Total Petroleum Puerto Rico Corp. Service Station 310290 at Avenue Francisco Quinones #32. The one TRI listing and one TSCA listing are both for Henkel Puerto Rico Inc. at 9 V Quilinchini Avenue. These sites do not have any releases reported or any EPA formal or informal action reported for the last five years in EPA's Enforcement and Compliance History Online (ECHO) Detailed Facility Reports and would not generate toxic, hazardous, or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the project site.

		It is estimated that the existing coliseum was constructed in approximately 1985 when the use of lead-based paint and asbestos in construction materials was no longer standard. By 1985, use of these materials were restricted. However, asbestos and lead studies will be conducted prior to demolition in accordance with state regulations. If these materials are identified at levels at or above EPA and Puerto Rico regulatory levels, the contaminated surfaces or substrates would be abated or removed. The firm providing the abatement services would be certified as an abatement firm by the Puerto Rico Department of Natural and Environmental Resources (DRNA). This project complies with 24 CFR Part 50.3(i) & 58.5(i)(2) requirements. See Appendix A, Contamination and Toxic Substances Worksheet, and Appendix B, Figure 6, Contamination and Toxic Substances Map, and Appendix C, Contamination and Toxic Substances.
Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes No	Per the Official Species List from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, the Rican Boa can be found in the area but there are no critical habitats at this location. The nearest critical habitat to the project site is approximately 8,425 feet northeast of the Project site. The Project will have no potential to affect species or habitats due to the nature of the activities involved in the project. Based on the nature of the project, scope of work, information available, and a careful analysis of the Project Site, and IPaC species list, it was determined that there would be No Effect for any of the listed species. The proposed activities are covered by the USFWS Blanket Clearance Letter for Federally sponsored projects, Housing and Urban Development of January 14 of 2013, Items 5 and 6. If a Puerto Rican Boa is encountered, work will cease until it moves

		off the site or, failing that, the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers will be notified for safe capture and relocation of the animal, in accordance with the USFWS Puerto Rican Boa Conservation Measures guidelines and the July 27, 2023 Amended Programmatic Biological Opinion. The project complies with the Endangered Species Act. See Appendix A, Endangered Species Act Worksheet, and Appendix B, Figure 7,
		Critical Habitat Map, and Appendix D, Endangered Species (including the IPaC Report).
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes No	The proposed Project does not include a hazardous facility that mainly stores, handles, or processes flammable or combustible chemicals such as bulk fuel storage. Planned activities at the project area do not include installation of storage tanks. The scope of the proposed project does not include development, construction, conversion, or rehabilitation activities that would increase residential densities. The project would not introduce new housing. The increased use of the site could introduce sensitive public uses that could be exposed to explosive or flammable hazards. A desktop aerial photograph review revealed several apparent aboveground storage tanks (AST) within 1 mile of the project site. The municipality investigated the tanks near the project's location. One tank is located at the site of Henkel PR, and it is a 400,000-gallon water tank used for firefighting, with well water. Three tanks near CCL de Puerto Rico contain water, with capacities of 200,000 gallons, 200,000 gallons, and 50,000 gallons, respectively. An AST located at Pepsi's Distribution Center, is a water tank currently out of use. Because all of these tanks contain water, calculation of an acceptable

		separation distance (ASD) for these ASTs
		was not required. This project complies with the Explosive and
		Flammable Hazards requirements.
		See Appendix A, Explosive and Flammable Hazards Worksheet, and Appendix B, Figure 8, Explosive and Flammable Hazards Map.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections	Yes No	The project does not include any activities that could convert agricultural land to non-agricultural use.
1504(b) and 1541; 7 CFR Part 658		According to the U.S. Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, the project site is not situated on farmland soils and is not protected under the Farmland Protection Policy Act.
		Therefore, this topic complies with the regulation.
		See Appendix A, Farmlands Protection Worksheet, and Appendix B, Figure 9, Farmland Protection Map.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes No	A portion of the project area is in the 100-year Special Flood Hazard Area (SFHA), as indicated on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel Number 72000C1580J, revised on November 18, 2009. Approximately 0.5 acre of the project area is within the 1 percent chance of annual flood (the 100-year floodplain), and approximately 1.9 acres are in the area with 0.2 percent chance of annual flood (the 500-year floodplain).
		The project involves the demolition of the existing structure except the steel frame. The new Municipal Coliseum will be built in this structure, with parking and an outdoor open space. The project would not increase the impervious surface in the project area, and the structure would not be within the 100-year floodplain. This project is not considered a critical action under 24 CFR Part 55. In accordance with 24 CFR Part 55,

		an 8-step floodplain analysis identified no practicable alternatives to the proposed project. An early public notice was published on September 1, 2023. A final public notice was published on December 7, 2023. The Project is in compliance with floodplain management requirements. See Appendix A, Floodplain Management Worksheet, Appendix B Figure 4, National Flood Hazard Layer FIRMETTE Map, Figure 10, Advisory Base Flood Elevation (ABFE) Map, and Appendix E, Floodplain Management
National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes No X	Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the area of potential effect (APE) of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area has at least 10 previously recorded archaeological resources within an 0.5-mile radius of the APE. The review revealed that the project area is not within the boundaries of a National Register of Historic Places eligible or listed Traditional Urban Center or Historic District. One National Register-listed property was identified within 0.5 mile. The review made the determination that no archaeological sites and/or NRHP listed/eligible historic properties would be affected within the direct or indirect APE. Consultation with SHPO regarding the proposed Project and a determination that no historic properties would be affected was initiated with a letter to that office dated December 21, 2023. On January 3, 2024, SHPO concluded that its records support the finding of "no historic properties affected within the project's area of potential effects."

		The Project is in compliance with the National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800. See Appendix A, Historic Preservation Worksheet and Appendix D, Historic Preservation.
Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes No	HUD guidance at 24 CFR Part 51 requires review of potential noise generators in the vicinity of a project site, including major roadways within 1,000 feet, railroads within 3,000 feet, and military or Federal Aviation Administration-regulated airfields within 15 miles. According to the HUD Noise Guidebook, the acceptable day/night noise level (DNL) is 65 decibels (dB). The purpose of this review is to ascertain the impacts of existing noise sources in the area on new residents or other sensitive receptors. The proposed project does not involve establishment of new residences, an increase in residents, or introduction of other noise-sensitive uses. The project does not require further evaluation under HUD's noise regulation. Therefore, the project complies with the regulation.
Sole Source Aquifers		See Appendix A, Noise Worksheet.
Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes No	There are no EPA sole source aquifers in Puerto Rico. The project is in compliance with Sole Source Aquifer requirements. See Appendix A, Sole Source Aquifers Worksheet.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes No	According to the National Wetlands Inventory (NWI) database, the project area is not within or adjacent to wetlands. The nearest wetland is a freshwater pond approximately 960 feet south of the project site. The project is in compliance with Wetlands Protection requirements. See Appendix A, Wetlands Worksheet, and Appendix B, Figure 11, Wetlands Map.

Wild and Scenic Rivers		7
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes No	No federally-designated Wild and Scenic Rivers are within or in the immediate vicinity of the project area. The nearest designated Wild and Scenic River is approximately 81.5 miles northeast of the project area. The project is in compliance with Wild and Scenic Rivers requirements. See Appendix A, Wetlands Worksheet, and Appendix B, Figure 12, Wild and Scenic Rivers Map.
ENVIRONMENTAL JUSTIC	E	
Executive Order 12898	Yes No	Environmental justice is assurance of protection of the environment and human health equally for all people regardless of race, color, national origin, or income. Executive Order 12898, "Federal Actions to Address Environmental Justice in Minority Populations and Low-income Populations," requires HUD to consider how federally assisted projects may exert disproportionately high and adverse human health or environmental effects on minority and low-income populations. The project would not generate adverse resource or health effects or adversely impact residential, commercial, or community facilities or services that may be of importance to environmental justice communities. The project would not disproportionately generate adverse environmental impacts on environmental justice communities. The project would benefit all populations in the project area by providing recreational facilities to the population of Sabana Grande at a rehabilitated facility that could not be used
		without the project because of flood damage. The Project is in compliance with Executive Order 12898. See Appendix A, Environmental Justice Worksheet.

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. All conditions, attenuation or mitigation measures have been clearly identified.

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact May require mitigation
- (4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
		Impact Evaluation
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	Because the Project-related activities would occur within existing Municipal Coliseum property and would involve activities to restore the property for recreational uses similar to its prior use. The land use is consistent with the surrounding recreational complex, that includes the Rafael D. Milán Baseball Park to the northwest, on which it is situated. No changes in zoning, easements, or land use are anticipated.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	The project area is developed, graded, and relatively flat. The project would involve ground disturbance to extend the existing footprint of the building to the west and south. Additional ground disturbance would occur to expand the existing parking lot to the north and adding parking spaces to the west of the building. New pavement, gravel, and pavers for sidewalks will be created around the building. An exterior gym with fixed equipment will be relocated to the southwest corner of the building. To avoid potential impact to water bodies from sediment transport during construction, the contractor shall prepare and implement an Erosion and Sedimentation Control Plan (CES Plan) and a Stormwater Pollution Prevention Plan (SWPPP).

Hazards and	2	The project site is in an urbanized area. The project would
Nuisances		involve demolition, excavation, site clearance and construction.
including Site Safety		Hazards and nuisances would be short-term and limited to the
and Noise		demolition and construction period. The hazards typically
		associated with construction activities would be present,
		temporary site safety issues and noise.
		Underground natural gas pipelines would be identified and
		marked. Any excavation near these pipelines would be
		conducted with appropriate BMPs. Excavation for the project is
		not expected to disturb these pipelines. Traffic control signing
		and adequate fencing around construction areas while
		construction activities are undertaken would protect the public
		from hazards and nuisances. Signs will be posted informing of
		the construction of the project, and public access will be
		restricted by security fences.
		Noise impacts would be addressed by conducting construction
		and demolition activities in accordance with local noise
		regulations and proper construction equipment maintenance.
		Noise disturbance missions from the equipment used would be
		minimized by restricting the contractor's working hours to
		daytime hours, from 7:00 AM to 4:00 PM, Monday through
		Friday.

Environmental	Impact	
Assessment Factor	Code	Impact Evaluation
SOCIOECONOM	IIC	
Employment and Income Patterns		Both the construction and operation of the project, would generate new direct and indirect employment that would have a positive impact on income and employment in the municipality.
Demographic Character Changes, Displacement	2	The project would not involve demographic changes or displacements. It is and will be a public facility.
Environmental Justice		The project would not alter the Environmental Justice composition of the population in the area surrounding the project area. There are currently no residents at the project site, and the project would not increase the population that could be exposed to environmental hazards. No environmental hazards were identified on or surrounding the project site that could disproportionately environmental justice populations.

Environmental	Impact		
Assessment Factor	Code	Impact Evaluation	
COMMUNITY FACILITIES AND SERVICES		S AND SERVICES	
Educational and		The project would not involve new residents. The project would	
		not result in any change to regional or local area educational and	
		cultural facilities or increase demand for them.	

Commercial	1	Access to nearby commercial facilities would be maintained
Facilities		throughout construction. Agencies, neighboring businesses, and the public in general would be informed in advance of any needed street closures. The project would not directly affect nearby commercial facilities. Increased public use of the project area could indirectly benefit businesses by increasing visits in the area.
Health Care and Social Services	2	Health care and social services facilities would not be impacted by the proposed project. Access for emergency service providers would be maintained. The project would not increase demand for health care and social services facilities.
Solid Waste Disposal / Recycling	2	The project involves demolition and removal of the existing building, except for the steel frame. The general contractor would manage implementation of the anticipated waste disposal methods. The Project would comply with the provisions of the "Reglamento para la Reducción, Reutilización y Reciclaje de Desperdicios Sólidos (Reglamento Núm. 6825 del 2004)", as amended, and with all Department of Natural and Environmental Resources (DNER) requirements. Recycling recovered construction debris materials where possible would minimize generation of solid waste so that daily capacities of landfills and other solid waste facilities would not be exceeded. Once the project is completed, the generation of domestic solid waste will increase. Both solid waste disposal and recycling will be collected and managed by the Municipality and would not require an increase in capacity within the Municipality.
Waste Water / Sanitary Sewers	2	New wastewater sanitary piping would be provided, which will result in an improvement to the infrastructure and better service. Sanitary sewer discharges would increase once the new Municipal Coliseum is operational but will be connected to the existing sanitary systems in the area. The facility would not require an increase in capacity for the Puerto Rico Aqueduct and Sewer Authority (PRASA). All work will be done in coordination with the Puerto Rico Aqueduct and Sewer Authority (PRASA).
Water Supply	2	Improvements to the infrastructure for potable water at the new facility would provide greater performance and efficiency in service. Once the project is completed, there will be an increase in potable water consumption. The Center will be connected to the existing system, and all work will be done in coordination with PRASA. The facility would not require an increase in capacity for the PRASA. Increase in demand for potable water from the project would be minor relative to the current demand for these services in the area.
Public Safety - Police, Fire and Emergency Medical	2	Traffic may have to be rerouted temporarily during construction. Emergency services would be notified of traffic control changes ahead of time, and access by emergency vehicles always would be allowed within the work zone. Increased use of the project area due to increased capacity could result in a minor increase demand for these services.

Parks, Open Space	1	The proposed project would not adversely affect any existing			
and Recreation		parks, open space, or recreational activities. It also would not			
		increase use of those existing facilities. The project would			
		increase and improve the levels of recreation available in the			
		municipality. The increase in public visitation at new Municipal			
		Coliseum could generate increased visitation to nearby parks and			
		recreation areas but would not require an increase in the capacity			
		of these facilities to accommodate them.			
Transportation and	2	The proposed project would result in minor temporary traffic			
Accessibility		increases and access issues during construction. Traffic may be			
·		rerouted temporarily or lane closures may be implemented to			
		direct traffic away from construction activities. A traffic and			
		transportation management plan would be implemented to			
		address those short-term traffic effects and to provide the safest			
		routes during construction. Emergency services would be notified			
		of traffic control changes ahead of time, and access by emergency			
		vehicles always would be allowed within the work zone.			
		When the project is completed, there will be a slight increase in			
		traffic because the expanded facility will have employees and			
		visitors. However, traffic should flow normally in the area, as the			
		increase is not significant, and the center will provide parking.			

Environmental	Impact	
Assessment Factor	Code	Impact Evaluation
NATURAL FEATU	RES	
Unique Natural Features,		The project will not affect a unique natural features or water resources. The project site is developed with an abandoned
Water Resources		coliseum complex within an urban area.
Vegetation, Wildlife		The proposed project activities would be mostly within the existing building footprint and parking areas. Vegetation on the southern portion of the property, which includes planted grass, would be used as an open area for to aerobic and Zumba classes. The entire project site has been previously disturbed. The project would not significantly affect native vegetation. Additionally, the proposed project would not impact wildlife or wildlife habitat.
Other Factors		No other factors were identified that would be affected by the proposed project.

Environmental Assessment Factor	Impact Code	Impact Evaluation
CLIMATE AND ENI	11	
Climate Change	2	Because the project is a rehabilitation of an existing developed area that
Impacts		is mostly covered with buildings, asphalt, concrete slabs, fences, stairs,
		ramps, and sidewalks, there would be no changes to the site
		configuration or structure that would specifically address the

Environmental	Impact	
Assessment Factor	Code	Impact Evaluation
		possibility and uncertainty of rising sea levels or the possibility of increases in rainfall intensity. The ABFE has most current estimates of flooding. Increased rainfall due to climate change could increase the area subject to flooding. Although a portion of the project is within the floodplain, the Municipal Coliseum structure would not be in the floodplain. The project design would not change the area's urban heat island effects or stormwater runoff. The project utilities would be upgraded with new energy efficient equipment that would result in a lower carbon footprint for the rehabilitated area.
Energy Efficiency	2	The expanded facility would increase energy consumption because due to anticipated increased use. However, the electrical system will be upgraded and be energy efficient.

Additional Studies Performed:

N/A

Field Inspection (Date and completed by):

N/A

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:

Puerto Rico State Historic Preservation Office

FAA, National Plan for Integrated Airport Systems:

www.faa.gov/airports/planning_capacity/npias/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf

John H. Chafee Coastal Barrier Resources System, Puerto Rico map.

www.fws.gov/CBRA/Maps/Locator/PR.pdf

National Wild and Scenic Rivers System: www.rivers.gov/puerto-rico.php

Puerto Rico Community Development Block Grant Disaster Recovery Action Plan, July 2018. www.cdbg-dr.pr.gov/en/action-plan/

Programmatic Agreement among the Federal Emergency Management Agency, the Puerto Rico State Historic Preservation Office and the Central Office for Recovery, Reconstruction and Resilience – amended to include the Puerto Rico Department of Housing.

US Environmental Protection Agency, National Ambient Air Quality Standards, Nonattainment Areas for Criteria Pollutants (Green Book):

www3.epa.gov/airquality/greenbook/anayo pr.html

US EPA, Environmental Topics, Air Topics: www.epa.gov/environmental-topics/air-topics

US Fish and Wildlife Service, Environmental Conservation Online System:

https://ecos.fws.gov/ecp/report/species-listings-by-

state?stateAbbrev=PR&stateName=Puerto%20Rico&statusCategory=Listed

Federal Emergency Management Agency, Flood Mapping Service:

https://msc.fema.gov/portal/home (compilation of numerous maps)

US Fish and Wildlife Service, National Wetlands Inventory:

www.fws.gov/wetlands/data/mapper.html (compilation of numerous maps)

Puerto Rico Coastal Zone Management Program Plan, September 2009. US EPA, Sole Source Aquifers. Esri HERE, Garmin, NOAA, USGS, EPA.

List of Permits Obtained:

N/A

Public Outreach [24 CFR 50.23 & 58.43]:

In accordance with 24 CFR Part 55, an early public notice of an activity in the floodplain was published on September 1, 2023, and a final public notice was published on December 7, 2023, in El Vocero newspaper. A combined Notice of Finding of No Significant Impact (FONSI) and Notice of Intent to Request Release of Funds (NOIRROF) will be published in a local newspaper. Copies of that public notice also will be sent to all known interested parties.

Cumulative Impact Analysis [24 CFR 58.32]:

The project area is part of larger, ongoing infrastructure improvements to address unsatisfied needs as a result of Hurricane Maria; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses. The municipality assessed locations in the urban center that warranted improvements to maximize their potential. Examples include the ongoing environmental process for remodeling our Public Square, transforming the Old Luis Muñoz Rivera School into an Artistic and Cultural Development Center, enhancing the Municipal Gymnasium, and the current Coliseum Ángel Mercado project. The demolition of the existing Coliseo Angel Mercado and replacing it with the new Municipal Coliseum project would contribute to these beneficial impacts. Adding six hundred seats, dressing rooms for both teams, an area for referees, radio transmission booth, and a first aid medical services area, a boxing ring that can also be used as a stage for events such as school graduations, and an upper floor that will be used for table tennis could potentially attract additional development in the area as more people use the facilities. However, in the immediate future, it would serve a need for a public recreation and gathering facility that has been unavailable since it received storm damage from Hurricane Maria. Short-term impacts during construction would be mitigated by through the measures detailed in the table below and would not contribute to construction impacts surrounding the project area. The project will not contribute to adverse cumulative impacts.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

No other alternatives were considered feasible for the design or location of the new Municipal Coliseum except for the proposed project. Relocation of the coliseum to an alternate location would not provide the central location required for the municipal gathering place. Relocation would not resolve the problem of the existing large vacant, damaged, and unsafe Coliseo Angel Mercado structure. Alternate reconstruction designs or capacities would not meet the recreational needs of the municipality, and alternate reconstruction methods, including demolition and reconstruction of the structural supports, would be prohibitively expensive.

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

The No Action Alternative is considered unfeasible because it does not resolve the problem of a large vacant, damaged, and unsafe Coliseo Angel Mercado structure. It would not provide a

needed facility for hosting large-scale events such as town assemblies, graduations, sports events, and providing aid during events like hurricanes or earthquakes.

Summary of Findings and Conclusions:

The project involves reconstruction of the Coliseo Angel Mercado on Quilichini Avenue in Sabana Grande. The project is in a 100-year floodplain and will result in disturbance of the floodplain. The project would not increase the impervious surface in the project area, and the structure would not be within the 100-year floodplain. In accordance with 24 CFR Part 55, an 8-step floodplain analysis identified no practicable alternatives to the proposed project. no changes to flood volume or base flood elevation as a result of the project. The infrastructure improvements within the project area will not result in additional flooding risk to other properties in the vicinity. Completion of this environmental review and associated consultation confirms that the proposed project would not have a significant environmental impact and that further assessment is not necessary. HUD funding of the proposed action will not have a significant impact on the quality of the human environment. The project would provide a community gathering, sports, and recreation facility and would replace a vacant, damaged, unsafe, and unusable facility in the city center.

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
Contamination and Toxic Substances, 24 CFR Part 50.3(i) & 58.5(i)(2)	Asbestos and lead studies will be conducted prior to demolition in accordance with state regulations. If these materials are identified at levels at or above EPA and Puerto Rico regulatory levels, the contaminated surfaces or substrates would be abated or removed. The firm providing the abatement services would be certified as an abatement firm by the Puerto Rico Department of Natural and Environmental Resources (DRNA).
Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	If a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers will be notified for safe capture and relocation of the animal, in accordance with the USFW Puerto Rican Boa Conservation Measures guidelines and the July 27, 2023 Amended Programmatic Biological Opinion.

Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	To avoid potential impact to water bodies from sediment transport during construction, the contractor shall prepare and implement an Erosion and Sedimentation Control Plan (CES Plan) and a Stormwater Pollution Prevention Plan (SWPPP).
Hazards and Nuisances including Site Safety and Noise	Underground natural gas pipelines would be identified and marked. Any excavation near these pipelines would be conducted with appropriate BMPs. Excavation for the project is not expected to disturb these pipelines. Traffic control signing and adequate fencing around construction areas while construction activities are undertaken would protect the public from hazards and nuisances. Signs will be posted informing of the construction of the project, and public access will be restricted by security fences. Noise impacts would be addressed by conducting construction and demolition activities in accordance with local noise regulations and proper construction equipment maintenance. Noise disturbance missions from the equipment used would be minimized by restricting the contractor's working hours to daytime hours, from 7:00 AM to 4:00 PM, Monday through Friday.
Solid Waste Disposal / Recycling	In accordance with Puerto Rico Law No. 70 of September 18, 1992, as amended, known as "Law for the Reduction and Recycling of Solid Wastes in Puerto Rico", recycling recovered construction debris materials where possible would minimize generation of solid waste so that daily capacities of landfills and other solid waste facilities would not be exceeded.
Waste Water / Sanitary Sewers	All wastewater and sanitary sewer work will be done in coordination with the Puerto Rico Aqueduct and Sewer Authority (PRASA).
Water Supply	All work potable water supply activities will be done in coordination with PRASA.
Public Safety - Police, Fire and Emergency Medical	Emergency services would be notified of traffic control changes ahead of time, and access by emergency vehicles always would be allowed within the work zone.
Transportation and Accessibility	A traffic and transportation management plan would be implemented to address those short-term traffic effects and to provide the safest routes during construction.
Energy Efficiency	The electrical system will be upgraded and be energy efficient to offset the increase in energy consumption that would result from renewed use of the facility.

Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.27] The project will not result in a significant impact on the quality of the human environment.					
Finding of Significant Impact [24 CFR 58.40(g)(2); 40 CFR 1508.27] The project may significantly affect the quality of the human environment.					
Preparer Signature:	Date: <u>May 6, 2024</u>				
Name/Title/Organization: Genevieve Kaiser/Senior Environmental	Planner/Tetra Tech, Inc.				
Certifying Officer Signature:	Date: May 7, 2024				
Name/Title: I. Lorenzo, Permits and Environmental C					

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).

Determination:

Appendix A Worksheets



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

Airport Hazards (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental review/airport hazards

1.		compatible land use development, you must determine your site's proximity to civil and ports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian
	⊠No →	If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within the applicable distances to a military or civilian airport.
	□Yes →	Continue to Question 2.
2.	Is your pro Zone (APZ)	ject located within a Runway Potential Zone/Clear Zone (RPZ/CZ) or Accident Potential?
	□Yes, proje	ect is in an APZ \rightarrow Continue to Question 3.
	□Yes, projo	ect is an RPZ/CZ $ ightarrow$ Project cannot proceed at this location.
	□No, proje	ect is not within an APZ or RPZ/CZ
	\rightarrow If th	e RE/HUD agrees with this recommendation, the review is in compliance with this section.
	Con	tinue to the Worksheet Summary below. Continue to the Worksheet Summary below.
	Prov	vide a map showing that the site is not within either zone.
3.	Is the proje	ect in conformance with DOD guidelines for APZ?
	□Yes, proje	ect is consistent with DOD guidelines without further action.
	Con	e RE/HUD agrees with this recommendation, the review is in compliance with this section. tinue to the Worksheet Summary below. Provide any documentation supporting this ermination.
		oroject cannot be brought into conformance with DOD guidelines and has not been d. → Project cannot proceed at this location.
If n	nitigation m	easures have been or will be taken, explain in detail the proposed measures that must

be implemented to mitigate for the impact or effect, including the timeline for implementation.

Click here to enter text.

→ Work with the RE/HUD to develop mitigation measures. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.

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.

Requirements of 24 CFR Part 51 Subpart D prohibit incompatible land uses on property within runway protection zones, clear zones, and accident potential zones. Projects require additional review if they are within 2,500 feet of a civil airport or 15,000 feet of a military airport.

The project would not involve incompatible uses, such as construction of new homes, substantial rehabilitation of existing homes, acquisition of undeveloped land, activities that significantly prolong the physical or economic life of existing incompatible facilities or change uses of the facilities to incompatible uses, activities that significantly increase density or number of people at the site, or activities that introduce explosive, flammable, or toxic materials to the area.

The civil airport nearest to the project area (Eugenio María de Hostos in Mayagüez) is approximately 98,680 feet away, and the nearest military (and civil) airfield (Luis Muñoz Marín International Airport located in San Juan) is approximately 376,941 feet away.

Therefore, this topic complies with the regulation.

See the attached Appendix B, Figure , Airports Map.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

Coastal Barrier Resources (CEST and EA) - PARTNER

https://www.hudexchange.info/environmental review/coastal barrier resources

Projects located in the following states must complete this form.

Alabama	Georgia	Massachusetts	New Jersey	Puerto Rico	Virgin Islands
Connecticut	Louisiana	Michigan	New York	Rhode Island	Virginia
Delaware	Maine	Minnesota	North Carolina	South Carolina	Wisconsin
Florida	Maryland	Mississippi	Ohio	Texas	

1. Is the project located in a CBRS Unit?

If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a CBRS Unit.

 \square Yes \rightarrow Continue to 2.

<u>Federal assistance for most activities may not be used at this location. You must either choose an alternate site or cancel the project.</u> In very rare cases, federal monies can be spent within CBRS units for certain exempted activities (e.g., a nature trail), after consultation with the Fish and Wildlife Service (FWS) (see <u>16 USC 3505</u> for exceptions to limitations on expenditures).

2. Indicate your recommended course of action for the RE/HUD

Consultation with the	FWS
Cancel the project	

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.

According to the US Fish and Wildlife Service Coastal Barrier Resources mapping, the project is not located in any coastal barrier zone of Puerto Rico. The nearest unit is Ensenada las Pardas (Unit PR 61), approximately 9.6 miles south of the project.

The Coastal Barriers Resources System contains two types of mapped units: System Units and Otherwise Protected Areas (OPAs). The nearest OPA is Cayo don Luis (PR 63P), approximately 7.6 miles south of the



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

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project. Most new federal expenditures and financial assistance, including federal flood insurance, are prohibited within System Units, while the only federal spending prohibitions within OPAs is on federal flood insurance. Since this project is not in an OPA or CBRS zone, it has no restrictions in this regard.

Therefore, this topic complies with the regulation.

See Appendix B, Figure 3, Coastal Barrier Resources Map.



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

Flood Insurance (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental review/flood insurance

1.	Does this project involve mortgage insurance, refinance, acquisition, repairs, rehabilitation, or construction of a structure, mobile home, or insurable personal property? ☐ No. This project does not require flood insurance or is excepted from flood insurance. → Continue to the Worksheet Summary.
	⊠Yes → Continue to Question 2.
2.	Provide a FEMA/FIRM map showing the site. The Federal Emergency Management Agency (FEMA) designates floodplains. The FEMA Map Service Center provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).
	s the structure, part of the structure, or insurable property located in a FEMA-designated Special Flood Hazard Area?
	imes No $ o$ Continue to the Worksheet Summary.
	☐ Yes → Continue to Question 3.
3.	s the community participating in the National Flood Insurance Program <i>or</i> has less than one year bassed since FEMA notification of Special Flood Hazards?
3.	
3.	Yes, the community is participating in the National Flood Insurance Program. Flood insurance is required. Provide a copy of the flood insurance policy declaration or a paid receipt for the current annual flood insurance premium and a copy of the application for flood insurance.

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.

A portion of the project area is in the 100 year Special Flood Hazard Area (SFHA), as indicated on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel Number 72000C1580J, revised on November 18, 2009. Approximately 0.5 acre of the project area is within the 1 percent chance of annual flood (the 100 year floodplain), and approximately 1.9 acres are in the area with 0.2 percent chance of annual flood (the 500 year floodplain).

All areas within the Commonwealth of Puerto Rico are eligible for NFIP policies. Flood Insurance is required when a project involves repairs, rehabilitation, or construction of an insurable structure. The Municipality of Sabana Grande would obtain flood insurance for the new Municipal Coliseum and would maintain this insurance for the life of the facility. The Municipal Coliseum structure is not within the 100 year floodplain and would not require flood insurance. No other insurable structures would be constructed in the project area.

The project is in compliance with flood insurance requirements.

See the attached Community Status Book Report, Communities Participating in the National Flood Program and Appendix B, Figure 4, National Flood Hazard Layer FIRMETTE Map.



Community Status Book Report

Communities Participating in the National Flood Program

CID	Community Name	County	Init FHBM Identified	Init FIRM Identified	Curr Eff Map Date	Reg-Emer Date	Tribal	CRS Entry Date	Curr Eff Date		% Disc SFHA	% Disc Non SFHA
720034#	AUTONOMOUS MUNICIPALITY OF GUAYNABO	GUAYNABO MUNICIPIO		11/18/09	11/18/09	02/01/13	No					
720100#	BAYAMON, MUNICIPALITY OF USE THE COMMONWEALTH OF PUERTO RICO [720000] FIRM	BAYAMO'N MUNICIPIO		08/01/78	11/18/09	08/01/78	No					
720102J	CAROLINA, MUNICIPALITY OF	CAROLINA MUNICIPIO		11/18/09	11/18/09	05/22/15	No					
720101#	PONCE, MUNCIPALITY OF	PONCE MUNICIPIO		08/01/78	11/18/09	09/24/99	No	10/01/09	10/01/09	9	05%	05%
	USE PUERTO RICO FIRM (720000) DATED 6-2-99, PANELS 160, 217, 218, 219, 221, 222,223,224,276,277,281,282, and 284.											
720000#	PUERTO RICO, COMMONWEALTH OF	ADJUNTAS MUNICIPIO		08/01/78	11/18/09	08/01/78	No					
	All areas within the Commonwealth of Puerto Rico are eligible for NFIP policies. If the property is not located in one of the 4 jurisdictions listed above use this CID.											

Summary:

Total In Flood Program	5
Total In Emergency Program	0
Total In the Regular Program	5
Total In Regular Program with No Special Flood Hazard	0
Total In Regular Program But Minimally Flood Prone	0

Legend:

- (E) Indicates Entry In Emergency Program
- No Special Flood Hazard Area All Zone C NSFHA
 - Date of Current Effective Map is after the Date of This Report
 - N/A Not Applicable At This Time
 - (S) **Suspended Community**
 - Withdrawn Community (W)
 - No Elevation Determined All Zone A, C and X
 - Original FIRM by Letter All Zone A, C and X

PUERTO RICO



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

Air Quality (CEST and EA) - PARTNER

https://www.hudexchange.info/environmental review/air quality

1.	Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?
	\square Yes \rightarrow Continue to Question 2.
	$oxed{\boxtimes}$ No $oldsymbol{ riangle}$ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide any documents used to make your determination.
2.	Is your project's air quality management district or county in non-attainment or maintenance status for any criteria pollutants? Follow the link below to determine compliance status of project county or air quality management district: http://www.epa.gov/oaqps001/greenbk/
	 □ No, project's county or air quality management district is in attainment status for all criteria pollutants
	→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.
	☐ Yes, project's management district or county is in non attainment or maintenance status for one or more criteria pollutants. → Continue to Question 3.
3.	Determine the <u>estimated emissions levels of your project for each of those criteria pollutants</u> that are in non-attainment or maintenance status on your project area. Will your project exceed any of the <i>de minimis or threshold</i> emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?
	 □ No, the project will not exceed <i>de minimis</i> or threshold emissions levels or screening levels → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Explain how you determined that the project would not exceed de minimis or
	threshold emissions. Yes, the project exceeds <i>de minimis</i> emissions levels or screening levels.
	→ Continue to Question 4. Explain how you determined that the project would not exceed de minimis or threshold emissions in the Worksheet Summary.

4. 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 mitigate for the impact or effect, including the timeline for implementation.

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 project does not include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities or five or more dwelling units. The project would continue to be used as a public coliseum. According to the EPA's Green Book (Current Nonattainment Counties for All Criteria Pollutants), the project site is not located in a non attainment area.

Therefore, this topic complies with the regulation.

See the attached Criteria Pollutant Nonattainment Summary Report.



You are here: EPA Home > Green Book > National Area and County-Level Multi-Pollutant Information > Criteria Pollutant Nonattainment Summary Report

Criteria Pollutant Nonattainment Summary Report

Data is current as of September 30, 2023

The NO₂ nonattainment area became a maintenance area on September 22, 1998. 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. All Carbon Monoxide areas were redesignated to maintenance areas as of September 27, 2010.

Mouse over the underlined number of counties to see the area name; click to see the associated counties.

| View Report Footnotes

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AK	Fairbanks	тор.	Cijs	Class	T Op.	Ciji	Cluss	тор.	Ctys	Clubb	87		Ser	тор.	Cijs	Clubb	т ор.	Ciji	Cluss	т ор. г	C () 5	Class	т ор.	Ctys	Class	тор.	Cijb	Class
	Douglas/Paul											_																
AZ	Spur (Cochise																17	1	Mod									
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	Nogales																30		Mod									
	Phoenix-Mesa	3,945	3	Mod	3,850	2	Mod										3,853	2	Ser									
AZ	Rillito (Pima County)																1	1	Mod									
AZ	West Pinal										52	1	Mod				283	1	Ser									
	Yuma	87	1	Mar													101		Mod									
	Amador and																											
CA	Calaveras Cos (Central Mountain Cos)	46	1	Mar																								
	iviounium cos)	38	1	Mar	46	1	Mar																					
CA	Chico	220		Mar	220		Mar																					
CA	Imperial County	175		Mar	175		Mod	154	1	Mod	154	1	Mod															
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CA	County	82	1	Ser	82	1	Ser																					
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CA	Plumas County							6	1	Ser																			
CA	Sacramento Metro	2,240	6	Ser	2,241	6	Sev5				2,206	5	Mod																
CA	San Diego	3,077	1	Sev5	3,095	1	Sev5																						
CA	San Francisco- Bay Area	6,969	9	Mar	6,973	9	Mar				6,971	9	Mod																
CA	San Joaquin Valley	95		Ser			Sev5																						
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		867	2	Sev5	868	2	Sev5																						
CA	Tuscan Buttes	0	1	Mar	0	1	Mar																						
CA	Ventura County	821		Ser	823	1	Ser																						
CA	Yuba City	0	1	Mar																									
СО	Denver- Boulder- Greeley-Ft. Collins- Loveland	3,331	9	Mod	3,330	9	Sev5																						
CT	Greater Connecticut	1,629	5	Mod	1,629	5	Ser																						
DC- MD- VA		5,136	15	Mod																									
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MD	Baltimore	2,663	6	Mod	2,663	6	Mod													990	2	NonAtt						
MI	Allegan County	47		Mod																								
MI	Benton Harbor	157	1	Mod																								
MI	Detroit-Ann Arbor																					NonAtt						
MI	Muskegon	147	1	Mod																32	1	NonAtt						
MN	Minneapolis- St. Paul																									9	1	NonAt
МО	Iron, Dent, and Reynolds Counties																									0	3	NonAt
МО	New Madrid County																			0	1	NonAtt						
MO-IL	St. Louis																			0	1	NonAtt						
		2,488	8	Mod																						5	1	NonAt
	Billings/Laurel																1	1	14.1				7	1	NonAtt			
MT	Lame Deer Polson (Lake																1	1	Mod									
MT	County)																4	1	Mod									
MT	Ronan (Lake County)																3	1	Mod									
NV	Las Vegas	1,892	1	Mod																								
NY	Jamestown				135	1	Mar																					
NY	St. Lawrence County																			12	1	NonAtt						
NY-NJ- CT	New York-N. New Jersey- Long Island	20,217	24	Mod	20,217	24	Sev5										1,586	1	Mod									
ОН	Canton- Massillon																									6	1	NonAt
ОН	Cleveland- Akron-Elyria	2,780	7	Mod																								
OH- KY-IN	Cincinnati- Middletown- Wilmington	1,929	7 [Split]	Mod																								
OR	Klamath Falls										47	1	Mod															
PA	Clearfield and Indiana Counties																			93	2	NonAtt						
PA	Lancaster				519	1	Mar		\vdash																			
PA	Pittsburgh- New Castle				2,356			1,223	1 1	Mod	21	1	Mod	21	1	Mod				15	1	NonAtt				18	1	NonAt
	1 tow Castle																			127	1	NonAtt	5	1	NonAtt			
PA	Reading																											NonAt
					411	1	Mar																			19	1	NonAt
PA	Warren County																			18	1	NonAtt						

		8-Ho	ur Oz 2015)		8-Hot	ur O 2008	zone)	PM-2.5 (2012)	PM-2	2.5 (200	6)	PM-2.5 (1997)	PM-10	(1987)	SO)2 (2	2010)	S	O2 (1	1971)	LEA	D (2	2008)
	Allentown- Bethlehem- Easton				712	3	Mar											109	9 1	NonAtt			
DE-	Philadelphia- Wilmington-				197	1	Mar																
MD	Atlantic City																						
		7,437	16	Mod	7,437	16	Mar																
PR	Arecibo																				32	1 1	NonA
	Guayama- Salinas																NonAtt						
	San Juan														275	5	NonAtt						
TN	Johnson City- Kingsport-														15	1	NonAtt						
TX	Bristol Dallas-Fort Worth	6,202	9	Mod	6,280	10	Sev5																
	Fairfield														1	2	NonAtt					-	
	Houston-Sugar Land-Baytown	5,773	6	Mod	5,892	8	Sev5										1 (011) 111						
TX	Howard County														0	1	NonAtt						
TX	Hutchinson County														15	1	NonAtt						
	Mount Pleasant														0	1	NonAtt						
TX	Navarro County														2	1	NonAtt						
	San Antonio	1,715	1	Mod																			
	Tatum														2	2	NonAtt						
TX- NM	El Paso-Las												3 1	Mod	ı l								
INIVI	Cruces	813	2	Mar					-				649 1	Mod								-	
UT	Provo	516	1	Mar					518	1 S	er		049	IVIOC	L							-	
	Salt Lake City	1,616	_	Mod					1,665		er							1,030) 1	NonAtt			
UT	Tooele County	1,010		1110 6					1,000		-									NonAtt			
UT	Uinta Basin	47	2	Mar																			
VA	Giles County														0	1	NonAtt						
WA	Whatcom County														0	1	NonAtt						
WI	Milwaukee- Racine	1,648		Mod																			
WI	Sheboygan	68	1	Mod																			
OH	Parkersburg- Marietta														4	2	NonAtt						
WY	Upper Green River Basin				11	3	Mar																

The area population is displayed in 1000's. 'Cat.' is Category.

Area Name:

The "State(s) Area Name" column contains a common or general name for the nonattainment areas on the row, but may not reflect the exact name of any area on the row. This column cannot be exact since the nonattainment area for one pollutant may not contain the same counties, cities, or states as the nonattainment area for another pollutant on the same row. to see the area name or click on them to see the associated counties. The abbreviations listed in the "State(s)" column reflect all states identified in row. However, some states on a row may be nonattainment for some pollutants and not for others in the general area.

Split Area:

'Split' in the No. C	tys column indicates that the	e multi-state area has	states that have be	en redesigna	ated but the are	ea does not become a ma	aintenance area until all stat	es in the area
are redesignated.	The whole area population	is displayed in this rep	oort. Clicking on a "	Split" No. Čty	∕s will display i	nformation for the state(s) that have not been redesig	nated.

Discover.	Connect.	Ask.
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		2023-09-30



WASHINGTON, DC 20410-1000

Coastal Zone Management Act (CEST and EA) – PARTNER

https://www.onecpd.info/environmental review/coastal zone management

Projects located in the following states must complete this form.

rojects located in the following states mast complete this form:								
Alabama Florida		Louisiana	Mississippi	Ohio	Texas			
Alaska	Georgia	Maine	New Hampshire	Oregon	Virgin Islands			
American Samona	Guam	Maryland	New Jersey	Pennsylvania	Virginia			
California	Hawaii	Massachusetts	New York	Puerto Rico	Washington			
Connecticut	Illinois	Michigan	North Carolina	Rhode Island	Wisconsin			
Delaware	Indiana	Minnesota	Northern	South Carolina				
			Mariana Islands					

1.	Is the project	located	in, c	or does	it	affect,	а	Coastal	Zone	as	defined	in	your	state	Coastal
	Management P	lan?													

∟Yes →	Continue to Question 2.
\boxtimes No \rightarrow	If the RE/HUD agrees with this recommendation, the review is in compliance with this
	section. Continue to the Worksheet Summary below. Provide a map showing that the site
	is not within a Coastal Zone

2. Does this project include activities that are subject to state review?

□Yes →	Continue to Question 3.
\square No \rightarrow	If the RE/HUD agrees with this recommendation, the review is in compliance with this
	section. Continue to the Worksheet Summary below. Provide documentation used to make
	your determination.

3. Has this project been determined to be consistent with the State Coastal Management Program?

 \square Yes, with mitigation. \rightarrow The RE/HUD must work with the State Coastal Management Program to develop mitigation measures to mitigate the impact or effect of the project.

\square Yes, without mitigation. $ o$ If the RE/HUD agrees with this recommendation, the review is
in compliance with this section. Continue to the Worksheet Summary below. Provide documentation
used to make your determination.

 \square No \rightarrow Project cannot proceed at this location.

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 Project site is not located in a Coastal Zone; it is approximately 6.2 miles north of the coastal zone.

Therefore, this topic complies with the regulation.

See Appendix B, Figure 5, Coastal Zone Map



WASHINGTON, DC 20410 1000

Contamination and Toxic Substances (Multifamily and Non-Residential Properties) – PARTNER

https://www.hudexchange.info/programs/environmental review/site contamination

 1. How was site contamination evaluated? ¹ Select all that apply.	
 Were any on-site or nearby toxic, hazardous, or radioactive substances found that could affect the health and safety of project occupants or conflict with the intended use of the property? (Were any recognized environmental conditions or RECs identified in a Phase I ESA and confirmed in a Phase II ESA?) ⋈ No → Explain below. 	:t
The USEPA's Facility Registry Service (FRS) geospatial database of facilities or locations subject to environmental regulation or of environmental interest was reviewed within the applicable search distances to identify sites that could affect the project site. This review showed there no records of releases reported or any EPA formal or informal action reported for the last five years for any sites lister within 3,000 feet of the project site. None of the listed sites would generate toxic, hazardous, or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the project site.	d
→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.	
oxtimes Yes $ o$ Describe the findings, including any recognized environmental conditions (RECs), in Worksheet Summary below. Continue to Question 3.	

¹ HUD regulations at 24 CFR § 58.5(i)(2)(ii) require that the environmental review for multifamily housing with five or more dwelling units or non residential property include the evaluation of previous uses of the site or other evidence of contamination on or near the site. For acquisition and new construction of multifamily and nonresidential properties HUD strongly advises the review include an ASTM Phase I Environmental Site Assessment (ESA) to meet real estate transaction standards of due diligence and to help ensure compliance with HUD's toxic policy at 24 CFR §58.5(i) and 24 CFR §50.3(i). Also note that some HUD programs require an ASTM Phase I ESA.

3.	can adverse environmental impacts be initigated:							
	☐ Adverse environmental impacts cannot feasibly be mitigated → <u>HUD assistance may not be used for the project at this site</u> . <u>Project cannot proceed at this location</u> .							
	☐ Yes, adverse environmental impacts can be eliminated through mitigation.							
	\rightarrow Provide all mitigation requirements ² and documents. Continue to Question 4.							
4.	Describe how compliance was achieved. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls ³ , or use of institutional controls ⁴ . Click here to enter text.							
	If a remediation plan or clean-up program was necessary, which standard does it follow?							
	☐ Complete removal							
	☐ Risk based corrective action (RBCA)							
	→ Continue to the Worksheet Summary.							

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

Can adverse environmental impacts be mitigated?

• Any additional requirements specific to your program or region

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

HUD policy requires the project site and adjacent areas to be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances where a hazard could affect health and safety of occupants of the property or conflict with intended use of the property. The USEPA's Facility Registry Service (FRS) geospatial database of facilities or locations subject to environmental regulation or of environmental interest was reviewed within the applicable search distances to identify sites that could affect the project site. No Brownfields (ACRES), Superfund (NPL), or Superfund Enterprise Management System (SEMS) listings were within 1 mile of the project site. The project site is within 3,000 feet of seven Resource Conservation and Recovery Act (RCRA) Hazardous

² Mitigation requirements include all clean up actions required by applicable federal, state, tribal, or local law. Additionally, provide, as applicable, the long term operations and maintenance plan, Remedial Action Work Plan, and other equivalent documents.

³ Engineering controls are any physical mechanism used to contain or stabilize contamination or ensure the effectiveness of a remedial action. Engineering controls may include, without limitation, caps, covers, dikes, trenches, leachate collection systems, signs, fences, physical access controls, ground water monitoring systems and ground water containment systems including, without limitation, slurry walls and ground water pumping systems.

⁴ Institutional controls are mechanisms used to limit human activities at or near a contaminated site, or to ensure the effectiveness of the remedial action over time, when contaminants remain at a site at levels above the applicable remediation standard which would allow for unrestricted use of the property. Institutional controls may include structure, land, and natural resource use restrictions, well restriction areas, classification exception areas, deed notices, and declarations of environmental restrictions.

Waste listings and one Toxics Release Inventory (TRI) listing, and one Toxic Substances Control Act (TSCA) listing. USEPA's Superfund, Envirofacts, and Enforcement and Compliance History Online (ECHO) reports were reviewed for more detailed information on statuses of these facilities.

The seven RCRA sites are: Henkel Puerto Rico Inc. at 9 V Quilinchini Avenue, Sabana Grande Wastewater Treatment Plant at PR 2 KM 182.6 INT, Shell Service Station 1740 Sabana Grande at G Martinez 2, Esso Standard Oil Co. P.R. CO 370 at PR 121 65TH Infanteria 7, Prasa – Sabana Grande Filter Plant at PR 364 KM 0.6 INT, Total Petroleum Puerto Rico Corp. Service Station 104302 at V Quilinchini Avenue #26, and Total Petroleum Puerto Rico Corp. Service Station 310290 at Avenue Francisco Quinones #32. The one TRI listing and one TSCA listing are both for Henkel Puerto Rico Inc. at 9 V Quilinchini Avenue. These sites do not have any releases reported or any EPA formal or informal action reported for the last five years in EPA's Enforcement and Compliance History Online (ECHO) Detailed Facility Reports and would not generate toxic, hazardous, or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the project site.

It is estimated that the existing coliseum was constructed in approximately 1985 when the use of lead based paint and asbestos in construction materials was no longer standard. By 1985, use of these materials were restricted. However, asbestos and lead studies will be conducted prior to demolition in accordance with state regulations. If these materials are identified at levels at or above EPA and Puerto Rico regulatory levels, the contaminated surfaces or substrates would be abated or removed. The firm providing the abatement services would be certified as an abatement firm by the Puerto Rico Department of Natural and Environmental Resources (DRNA).

This project complies with the regulation. See Appendix B, Figure 6, Contamination and Toxic Substances Map, and Appendix C, Contamination and Toxic Substances



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

Endangered Species Act (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental review/endangered species

- □No, the project will have No Effect due to the nature of the activities involved in the project.
 - → If the RE/HUD agrees with this recommendation, the review is in compliance with this section.

 Continue to the Worksheet Summary below. Provide any documents used to make your determination.
- ⊠No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office.

Explain your determination:

- The proposed activities are covered by the USFWS Blanket Clearance Letter for Federally sponsored projects, Housing and Urban Development of January 14 of 2013, Items 5 and 6.
- → If the RE/HUD agrees with this recommendation, the review is in compliance with this section.

 Continue to the Worksheet Summary below. Provide any documents used to make your determination.
- \square Yes, the activities involved in the project have the potential to affect species and/or habitats. \rightarrow *Continue to Question 2.*
- 2. Are federally listed species or designated critical habitats present in the action area?

 Obtain a list of protected species from the Services. This information is available on the FWS Website.
 - □No, the project will have No Effect due to the absence of federally listed species and designated critical habitat.
 - → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation may include letters from the Services, species lists from the Services' websites, surveys or other documents and analysis showing that there are no species in the action area.
 - □Yes, there are federally listed species or designated critical habitats present in the action area. → Continue to Question 3.
- 3. Recommend one of the following effects that the project will have on federally listed species or designated critical habitat:

- □No Effect: Based on the specifics of both the project and any federally listed species in the action area, you have determined that the project will have absolutely no effect on listed species or critical habitat.
 - → If the RE/HUD agrees with this recommendation, the review is in compliance with this section.

 Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation should include a species list and explanation of your conclusion, and may require maps, photographs, and surveys as appropriate.
- ☐ May Affect, Not Likely to Adversely Affect: Any effects that the project may have on federally listed species or critical habitats would be beneficial, discountable, or insignificant.
 - → Partner entities should not contact the Services directly. If the RE/HUD agrees with this recommendation, they will have to complete Informal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.
- □Likely to Adversely Affect: The project may have negative effects on one or more listed species or critical habitat.
 - → Partner entities should not contact the Services directly. If the RE/HUD agrees with this recommendation, they will have to complete Formal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.

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.

Per the Official Species List from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, the Rican Boa can be found in the area but there are no critical habitats at this location. The Project will have no potential to affect species or habitats due to the nature of the activities involved in the project. Based on the nature of the project, scope of work, information available, and a careful analysis of the Project Site, and IPaC species list, it was determined that there would be No Effect for any of the listed species.

The proposed activities are covered by the USFWS Blanket Clearance Letter for Federally sponsored projects, Housing and Urban Development of January 14 of 2013, Items 5 and 6. If a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers will be notified for safe capture and relocation of the animal, in accordance with the USFWS Puerto Rican Boa Conservation Measures guidelines and the July 27, 2023 Amended Programmatic Biological Opinion.

he pro ect complie ith the Endangered pecie Act

See Appendix B, Figure 7, Critical Habitat Map, and Appendix D, Endangered Species (including the IPaC eport).



WASHINGTON, DC 20410-1000

Explosive and Flammable Hazards (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental review/explosive and flammable facilities

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.
2.	 → Continue to Question 5. 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.
	\square Yes \rightarrow 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?
	\square No \Rightarrow 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.
	\square Yes \rightarrow 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.
	→ 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

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.

facility or area where people congregate or are present and your separation distance

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.

calculations.

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 proposed Project does not include a hazardous facility that mainly stores, handles, or processes flammable or combustible chemicals such as bulk fuel storage. Planned activities at the project area do not include installation of storage tanks.

The scope of the proposed project does not include development, construction, conversion, or rehabilitation activities that would increase residential densities. The project would not introduce new

housing. The increased use of the site could introduce sensitive public uses that could be exposed to explosive or flammable hazards.

A desktop aerial photograph review revealed several apparent aboveground storage tanks (AST) within 1 mile of the project site. The municipality investigated the tanks near the project's location. One tank is located at the site of Henkel PR, and it is a 400,000 gallon water tank used for firefighting, with well water. Three tanks in the quadrant of CCL de Puerto Rico's contain water, with capacities of 200,000 gallons, 200,000 gallons, and 50,000 gallons, respectively. An AST located at Pepsi's Distribution Center, is a water tank currently out of use. Because all of these tanks contain water, calculation of an acceptable separation distance (ASD) for these ASTs was not required.

This project complies with the Explosive and Flammable Hazards requirements.

See Appendix B, Figure 8, Explosive and Flammable Hazards Map.



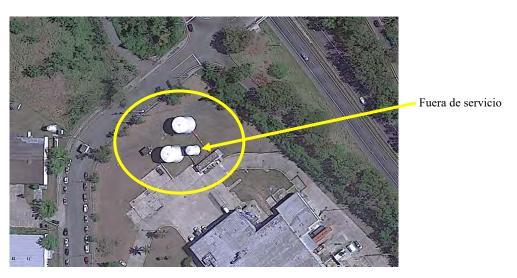
8 de noviembre de 2023

Sr. José A. Cuevas García Vicealcalde Municipio de Sabana Grande

Estimado señor Cuevas:

Sirva esta misiva para facilitar la información solicitada de los tres (3) tanques propiedad de CCL Puerto Rico, Inc. ubicados en nuestros predios. A continuación, la información relacionada:

Tanques de Almacenamiento de Agua						
Contenido	Capacidad (gls.)	Diámetro (pies)	Altura (pies)	Año de fabricación	Manufacturero	
Agua del Sistema de Incendio	200,000	33	32	1980	Alonso y Carus	
Agua del Sistema de Incendio	200,000	33	32	1980	Alonso y Carus	
Agua (Fuera de Servicio)	50,000	19	24	1980	Alonso y Carus	



Estamos a su disposición para clarificar cualquier duda con lo anterior.

Cordialmente,

Amyline Castro Quirindongo Oficial de Salud y Seguridad CCL Puerto Rico, Inc.

mujue casar

RE: [EXT] CARTA DEL SR. JOS[E A. CUEVAS GARC[IA, VICEALCALDE, MUNICIPIO DE SABANA GRANDE

Carlos Rodriguez <carlos.rodriguez@henkel.com>

Wed 11/08/2023 3:18 PM

To:Maritza Vazquez Delgado <mvazquez@munsabgde.com> Cc:Jorge Rivera <jorge.rivera@henkel.com>;Hector Ramos <hector.ramos@henkel.com>

1 attachments (1,006 K8)

Respuesta de Henkel CARTA A ING. CARLOS RODRÍGUEZ HENKEL P.R. SOLICITANDO INFORM.pdf;

Saludos Sr. Cuebas;

El tanque marcado en el recuadro de Henkel es de agua para uso en caso de incendio, el tanque es de 400,000 gal y es de agua de pozo.

Dudas me deja saber, adjunto documento original con información adjunta.

Carlos Rodríguez Manufactuing Manager

Henkel Puerto Rico, Inc. | Quilinchini Avenue #9, Sabana Grande, PR 00637

Office: +1 787-264-7509/ Mobile: 939-292-3148

carlos.rodriguez@henkel.com www.henkel-northamerica.com

From: Maritza Vazquez Delgado <mvazquez@munsabgde.com>

Sent: Wednesday, November 8, 2023 2:53 PM

To: Carlos Rodriguez <carlos.rodriguez@henkel.com>

Subject: [EXT] CARTA DEL SR. JOS[E A. CUEVAS GARC[IA, VICEALCALDE, MUNICIPIO DE SABANA GRANDE

This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments

Saludos.

Adjunto carta del Sr. José A. Cuevas García, Vicealcalde del Municipio de Sabana Grande, solicitando información.

Gracias por su colaboración.

Maritza I. Vázquez Delgado Secretaria Oficina del Vicealcalde Municipio de Sabana Grande Apartado 356 Sabana Grande, Puerto Rico Tel. 787-873-2060, Ext. 2088 IMPORTANT NOTICE: This message may contain confidential and/or privileged information. If you are not the intended recipient, please do not use its contents for any purpose, advise the sender immediately by reply e-mail and delete this message and any attachments without retaining any copy.



Estado Libre Asociado de Puerto Rico Gobierno Municipal de Sabana Grande

PO Box 356, Sabana Grande, PR 00637 Tel. 787,873,2060

8 de noviembre de 2023

Ing. Carlos Rodríguez Henkel P.R. Sabana Grande, Puerto Rico

Estimado Ingeniero Rodríguez:

Reciba un saludo cordial de parte de este servidor.

En primera instancia quiero agradecer su disponibilidad y cordialidad en la llamada que tuvimos durante la tarde de hoy. Tal y como lo ha peticionado, someto vía e-mail la información que requieren las agencias ambientales para el proceso de permisología de lo que sería nuestro nuevo coliseo, el cual ubica en la entrada del pueblo.

Someto el mapa con el cuadrante correspondiente a la Henkel y el e-mail mediante el cual nos han solicitado la información indicada y marcada en un cuadrante. Específicamente nos solicitan el volumen de dicho tanque o tanques, qué contiene(n) el(los) mismos y si dicho componente es un material inflamable, explosivo o algún combustible.

Agradecería puedan proveer dicha información a la mayor brevedad posible, ya que la misma es indispensable para la obtención de permisos.

Recalcamos siempre nuestra disposición y agradecimiento para con tan importante empresa.

Cordialmente,

José A. Cuevas García

Vicealcalde

Fwd: Sabana Grande | PR-CRP-000745 | ERR-Technical Assistance

Griselle Nazario < gnazario@munsabgde.com>

Tue 11/7/2023 5:12 AM

To:Jose Cuevas <jacuevas@munsabgde.com>

Obtener Outlook para Android

From: MonroigRamos, Gilberto < G.MONROIGRAMOS@tetratech.com>

Sent: Tuesday, November 7, 2023 9:09:35 AM

To: Griselle Nazario <gnazario@munsabgde.com>

Cc: ConnorCerezo, Christina < Christina. ConnorCerezo@tetratech.com>; Espada, Deborah

<Deborah.Espada@tetratech.com>; Torres, Leira <LEIRA.TORRES@tetratech.com>

Subject: Sabana Grande | PR-CRP-000745 | ERR-Technical Assistance

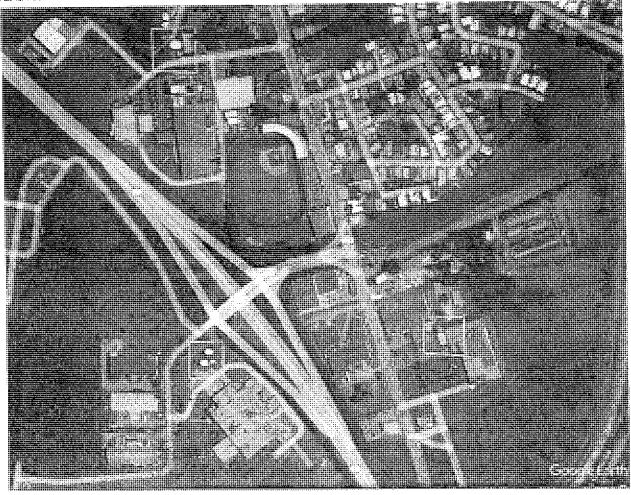
Saludos Griselle,

Como parte de la asistencia técnica para la preparación de los documentos del ERR del proyecto 745 el equipo ambiental de Tetra Tech solicita la siguiente información.

- ¿Que sucedería si el proyecto no se ejecuta?
- ¿El proyecto se encuentra actualmente en uso? ¿Que tipo de uso?
- ¿Se consideraron algunas alternativas al proyecto?
- ¿Hay otro proyecto cercano que al combinarse con el proyecto propuesto pueda tener un efecto acumulativo en algún recurso?
- Hay varios tanques sobre la superficie cercanos a la localización del proyecto. (ver el mapa a continuación)
 lo marcado en rojo es el sitio del proyecto, el verde marca la localización de los tanques. Cual es el volumen
 de estos tanques? Al parecer parecieran tanques como de 10,000 a 20,000 galones. ¿Que contienen estos
 tanques? Materiales inflamables, explosivos o algún combustible?

Tanque de agua de incencdio 400,000 galsose Cuevas - Outlook

11/8/23, 2:46 PM



Gilberto J. Monroig Ramos, BSCE | Project Assistant Mobile (787) 595-2319 [g.monroigramos@tetratech.com

Tetra Tech | Leading with Science®

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TETRA TECH





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

Farmlands Protection (CEST and EA) - PARTNER

https://www.hudexchange.info/environmental review/farmlands protection

	 □ Yes → Continue to Question 2.
	No No
	ightarrow If the RE/HUD agrees with this recommendation, the review is in compliance with this section.
	Continue to the Worksheet Summary below.
2.	Does "important farmland," including prime farmland, unique farmland, or farmland of statewide
	or local importance regulated under the Farmland Protection Policy Act, occur on the project site?
	You may use the links below to determine important farmland occurs on the project site:
	 Utilize USDA Natural Resources Conservation Service's (NRCS) Web Soil Survey
	http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm
	• Check with your city or county's planning department and ask them to document if the project
	is on land regulated by the FPPA (zoning important farmland as non agricultural does not exempt it from FPPA requirements)
	Contact NRCS at the local USDA service center
	http://offices.sc.egov.usda.gov/locator/app?agency=nrcs or your NRCS state soil scientist
	http://soils.usda.gov/contact/state_offices/ for assistance
	\square No \rightarrow If the RE/HUD agrees with this recommendation, the review is in compliance with this
	section. Continue to the Worksheet Summary below. Provide any documents used to
	make your determination.
	☐ Yes → Continue to Question 3.
3.	Consider alternatives to completing the project on important farmland and means of avoiding
	impacts to important farmland.
	• Complete form <u>AD-1006, "Farmland Conversion Impact Rating"</u> and contact the state soil
	scientist before sending it to the local NRCS District Conservationist. Work with NRCS to minimize the impact of the project on the protected farmland. When you
	have finished with your analysis, return a copy of form AD 1006 to the USDA NRCS State Soil

Scientist or his/her designee informing them of your determination.

Work with the RE/HUD to determine how the project will proceed. Document the conclusion:

Explain in detail the proposed measures that must be implemented to mitigate for the impact

1. Does your project include any activities, including new construction, acquisition of undeveloped

Click here to enter text.

□ Project will proceed with mitigation.

or effect, including the timeline for implementation.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.

□ Project will proceed without mitigation.

Explain why mitigation will not be made here:

Click here to enter text.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.

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 project does not include any activities that could convert agricultural land to non agricultural use. According to the U.S. Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, the project site is not situated on farmland soils and is not protected under the Farmland Protection Policy Act.

Therefore, this topic complies with the regulation.

See Appendix A, Figure 9, Farmland Protection Map



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

Floodplain Management (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental review/floodplain management

1.	Does <u>24 CFR 55.12(c)</u> exempt this project from compliance with HUD's floodplain management regulations in Part 55?
	☐ Yes Provide the applicable citation at 24 CFR 55.12(c) here. If project is exempt under 55.12(c)(6) or (8), provide supporting documentation. Click here to enter text.
	→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary.
	\boxtimes No \rightarrow Continue to Question 2.
2.	Provide a FEMA/FIRM map showing the site. The Federal Emergency Management Agency (FEMA) designates floodplains. The FEMA Map Service Center provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).
	Does your project occur in a floodplain? □ No → Continue to the Worksheet Summary below.
	 ✓ Yes Select the applicable floodplain using the FEMA map or the best available information: ☐ Floodway → Continue to Question 3, Floodways
	□ Coastal High Hazard Area (V Zone) → Continue to Question 4, Coastal High Hazard Areas
	⊠ 500 year floodplain (B Zone or shaded X Zone) → Continue to Question 5, 500-year Floodplains
	⊠ 100 year floodplain (A Zone) → The 8-Step Process is required. Continue to Question 6, 8-Step Process
3.	Floodways Is this a functionally dependent use? Yes
	The 8 Step Process is required. Work with HUD or the RE to assist with the 8 Step Process. → Continue to Worksheet Summary.
	□ No → Federal assistance may not be used at this location unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.

4.	Coastal High Hazard Area Is this a critical action such as a hospital, nursing home, fire station, or police station? □ Yes → Critical actions are prohibited in coastal high hazard areas unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.
	□ No Does this action include new construction that is not a functionally dependent use, existing construction (including improvements), or reconstruction following destruction caused by a disaster?
	 ☐ Yes, there is new construction of something that is not a functionally dependent use. New construction must be designed to FEMA standards for V Zones at 44 CFR 60.3(e) (24 CFR 55.1(c)(3)(i)). → Continue to Question 6, 8-Step Process
	 □ No, this action concerns only existing construction. Existing construction must have met FEMA elevation and construction standards for a coastal high hazard area or other standards applicable at the time of construction. → Continue to Question 6, 8-Step Process
5.	500-year Floodplain
	Is this a critical action? □ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary below.
	□Yes → Continue to Question 6, 8-Step Process
6.	8-Step Process. Is this 8-Step Process required? Select one of the following options:
	 □ 5 Step Process is applicable per 55.12(a)(1 4). Provide the applicable citation at 24 CFR 55.12(a) here. Click here to enter text. → Work with the RE/HUD to assist with the 5-Step Process. Continue to Worksheet Summary.
	 □ 8 Step Process is inapplicable per 55.12(b)(1 5). Provide the applicable citation at 24 CFR 55.12(b) here. Click here to enter text. → If the RE/HUD agrees with this recommendation, the review is in compliance with this

section. Continue to the Worksheet Summary below.

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.

A portion of the project area is in the 100 year Special Flood Hazard Area (SFHA), as indicated on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel Number 72000C1580J, revised on November 18, 2009. Approximately 0.5 acre of the project area is within the 1 percent chance of annual flood (the 100 year floodplain), and approximately 1.9 acres are in the area with 0.2 percent chance of annual flood (the 500 year floodplain).

The project involves the demolition of the existing structure except the steel frame. The new Municipal Coliseum will be built in this structure, with parking and an outdoor open space. The project would not increase the impervious surface in the project area. This project is not considered a critical action under 24 CFR Part 55. In accordance with 24 CFR Part 55, an 8 step floodplain analysis identified no practicable alternatives to the proposed project. An early public notice was published on September 1, 2023. A final public notice was published on December 7, 2023.

The Project is in compliance with floodplain management requirements.

See Appendix A Figure 4, National Flood Hazard Layer FIRMETTE Map, and Figure 10, Advisory Base Flood Elevation (ABFE) Map, and Appendix E, Floodplain Management (including the 8 Step Analysis and Notices).



WASHINGTON, DC 20410-1000

Historic Preservation (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental review/historic preservation

Threshold

İς	Section	106 review	required.	for your	project?
13	Jection	TOOLENIEN	reaunea	ioi voui	DIOICLE

□ No, because a Programmatic Agreement states that all activities included in this project are exempt. (See the <u>PA Database</u> to find applicable PAs.)

Either provide the PA itself or a link to it here. Mark the applicable exemptions or include the text here:

Click here to enter text.

→ Continue to the Worksheet Summary.

□ No, because the project consists solely of activities included in a No Potential to Cause Effects memo or other determination [36 CFR 800.3(a)(1)].

Either provide the memo itself or a link to it here. Explain and justify the other determination here:

Click here to enter text.

→ Continue to the Worksheet Summary.

The Section 106 Process

After determining the need to do a Section 106 review, HUD or the RE will initiate consultation with regulatory and other interested parties, identify and evaluate historic properties, assess effects of the project on properties listed on or eligible for the National Register of Historic Places, and resolve any adverse effects through project design modifications or mitigation.

Step 1: Initiate consultation

Step 2: Identify and evaluate historic properties

Step 3: Assess effects of the project on historic properties

Step 4: Resolve any adverse effects

Only RE or HUD staff may initiate the Section 106 consultation process. Partner entities may gather information, including from SHPO records, identify and evaluate historic properties, and make initial assessments of effects of the project on properties listed in or eligible for the National Register of Historic Place. Partners should then provide their RE or HUD with all of their analysis and documentation so that they may initiate consultation.

Step 1 - Initiate Consultation

The following parties are entitled to participate in Section 106 reviews: Advisory Council on Historic Preservation; State Historic Preservation Officers (SHPOs); federally recognized Indian tribes/Tribal

Historic Preservation Officers (THPOs); Native Hawaiian Organizations (NHOs); local governments; and project grantees. The general public and individuals and organizations with a demonstrated interest in a project may participate as consulting parties at the discretion of the RE or HUD official. Participation varies with the nature and scope of a project. Refer to HUD's website for guidance on consultation, including the required timeframes for response. Consultation should begin early to enable full consideration of preservation options.

Use the When To Consult With Tribes checklist within Notice CPD 12 006: Process for Tribal Consultation to determine if the RE or HUD should invite tribes to consult on a particular project. Use the Tribal Directory Assessment Tool (TDAT) to identify tribes that may have an interest in the area where the project is located. Note that only HUD or the RE may initiate consultation with Tribes. Partner entities may prepare a draft letter for the RE or HUD to use to initiate consultation with tribes, but may not send the letter themselves.

List all organizations and individuals that you believe may have an interest in the project here: Puerto Rico State Historic Preservation Officer

→ Continue to Step 2.

Step 2 - Identify and Evaluate Historic Properties

Provide a preliminary definition of the Area of Potential Effect (APE), either by entering the address(es) or providing a map depicting the APE. Attach an additional page if necessary.

Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is around coordinates 18.072633, 66.959490 and the visual APE is the viewshed of the proposed project. Several adjacent properties are part of the visual APE and a baseball field with a running track. See Appendix D for maps and documentation.

Gather information about known historic properties in the APE. Historic buildings, districts and archeological sites may have been identified in local, state, and national surveys and registers, local historic districts, municipal plans, town and county histories, and local history websites. If not already listed on the National Register of Historic Places, identified properties are then evaluated to see if they are eligible for the National Register. Refer to HUD's website for guidance on identifying and evaluating historic properties.

In the space below, list historic properties identified and evaluated in the APE.

Every historic property that may be affected by the project should be listed. For each historic property or district, include the National Register status, whether the SHPO has concurred with the finding, and whether information on the site is sensitive. Attach an additional page if necessary.

See Appendix D for the analysis of the historic properties potentially affected, along with all correspondence with the State Historic Preservation Officer (SHPO).

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the area of potential effect (APE) of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist

meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area has at least 10 previously recorded archaeological resources within an 0.5 mile radius of the APE. The review revealed that the project area is not within the boundaries of a National Register of Historic Places eligible or listed Traditional Urban Center or Historic District. One National Register listed property was identified within 0.5 mile. The review made the determination that no archaeological sites and/or NRHP listed/eligible historic properties would be affected within the direct or indirect APE.

Consultation with SHPO regarding the proposed Project and a determination that no historic properties would be affected was initiated with a letter to that office dated December 21, 2023. On January 3, 2024, SHPO concluded that its records support the finding of "no historic properties affected within the project's area of potential effects."

The Project is in compliance with the National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800.

Provide the documentation (survey forms, Register nominations, concurrence(s) and/or objection(s), notes, and photos) that justify your National Register Status determination.

Was a survey of historic buildings and/or archeological sites done as part of the project?

If the APE contains previously unsurveyed buildings or structures over 50 years old, or there is a likely presence of previously unsurveyed archeological sites, a survey may be necessary. For Archeological surveys, refer to HP Fact Sheet #6, <u>Guidance on Archeological Investigations in HUD Projects</u>.

\square Yes \rightarrow Provide survey(s) a	nd report(s) and continue to Step 3.
Additional notes:	
Click here to enter text.	

Step 3 - Assess Effects of the Project on Historic Properties

 \boxtimes No \rightarrow Continue to Step 3.

Only properties that are listed on or eligible for the National Register of Historic Places receive further consideration under Section 106. Assess the effect(s) of the project by applying the Criteria of Adverse Effect. (36 CFR 800.5) Consider direct and indirect effects as applicable as per HUD guidance.

Choose one of the findings below to recommend to the RE or HUD.

Please note: this is a recommendation only. It is **not** the official finding, which will be made by the RE or HUD, but only your suggestion as a Partner entity.

☑ <u>No Historic Properties Affected</u>	
Document reason for finding:	
\square No historic properties present.	
oxtimes Historic properties present, but project will have no effect upon them	١.
□ <u>No Adverse Effect</u>	
Document reason for finding and provide any comments below.	

Comments may include recommendations for mitigation, monitoring, a plan for unanticipated discoveries, etc.

Click here to enter text.

☐ Adverse Effect

Document reason for finding:

Copy and paste applicable Criteria into text box with summary and justification.

Criteria of Adverse Effect: 36 CFR 800.5

Click here to enter text.

Provide any comments below:

Comments may include recommendations for avoidance, minimization, and/or mitigation. Click here to enter text.

Remember to provide all documentation that justifies your National Register Status determination and recommendations along with this worksheet.



WASHINGTON, DC 20410-1000

Noise (EA Level Reviews) – PARTNER

https://www.hudexchange.info/programs/environmental review/noise abatement and control

What activities does your project involve? Check all that apply: ☐ New construction for residential use NOTE: HUD assistance to new construction projects is generally prohibited if they are located in an Unacceptable zone, and HUD discourages assistance for new construction projects in Normally Unacceptable zones. See 24 CFR 51.101(a)(3) for further details. → Continue to Question 2.
□ Rehabilitation of an existing residential property NOTE: For major or substantial rehabilitation in Normally Unacceptable zones, HUD encourages mitigation to reduce levels to acceptable compliance standards. For major rehabilitation in Unacceptable zones, HUD strongly encourages mitigation to reduce levels to acceptable compliance standards. See 24 CFR 51 Subpart B for further details. → Continue to Question 2.
 None of the above → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.
Complete the Preliminary Screening to identify potential noise generators in the vicinity (1000' from a major road, 3000' from a railroad, or 15 miles from an airport). Indicate the findings of the Preliminary Screening below: ☐ There are no noise generators found within the threshold distances above. → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing the location of the project relative to any noise generators.
 □ Noise generators were found within the threshold distances. → Continue to Question 3.
Complete the Noise Assessment Guidelines to quantify the noise exposure. Indicate the findings of the Noise Assessment below: ☐ Acceptable (65 decibels or less; the ceiling may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a)) Indicate noise level here: Click here to enter text. → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide noise analysis, including

	□ Normally Unacceptable: (Above 65 decibels but not exceeding 75 decibels; the floor may be shifted to 70 decibels in circumstances described in 24 CFR 51.105(a)) Indicate noise level here: Click here to enter text.
	If project is rehabilitation: → Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis.
	If project is new construction: Is the project in a largely undeveloped area¹? □ No □ Yes → The project requires completion of an Environmental Impact Statement
	(EIS) pursuant to 51.104(b)(1)(i).
	→ Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis.
	☐ Unacceptable: (Above 75 decibels) Indicate noise level here: Click here to enter text.
	If project is rehabilitation: HUD strongly encourages conversion of noise-exposed sites to land uses compatible with high noise levels. Consider converting this property to a non-residential use compatible with high noise levels. → Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis, and any other relevant information.
	If project is new construction: The project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i). Work with HUD or the RE to either complete an EIS or obtain a waiver signed by the appropriate authority. → Continue to Question 4.
4.	HUD strongly encourages mitigation be used to eliminate adverse noise impacts. Work with the RE/HUD on the development of the mitigation measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.
	→ Provide drawings, specifications, and other materials as needed to describe the project's noise mitigation measures. Continue to the Worksheet Summary.
	☐ No mitigation is necessary.

¹ A largely undeveloped area means the area within 2 miles of the project site is less than 50 percent developed with urban uses and does not have water and sewer capacity to serve the project.

Explain why mitigation will not be made here:

Click here to enter text.

→ Continue to the Worksheet Summary.

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.

HUD guidance at 24 CFR Part 51 requires review of potential noise generators in the vicinity of a project site, including major roadways within 1,000 feet, railroads within 3,000 feet, and military or Federal Aviation Administration regulated airfields within 15 miles. According to the HUD Noise Guidebook, the acceptable day/night noise level (DNL) is 65 decibels (dB). The purpose of this review is to ascertain the impacts of existing noise sources in the area on new residents or other sensitive receptors.

The proposed project does not involve establishment of new residences, an increase in residents, or introduction of other noise sensitive uses. The project does not require further evaluation under HUD's noise regulation.

Therefore, the project complies with the regulation.



WASHINGTON, DC 20410-1000

Sole Source Aquifers (CEST and EA) - PARTNER

after this information is submitted for review.

nt	tps://www.nudexchange.info/environmental review/sole source aquifers
1.	Is the project located on a sole source aquifer (SSA)¹? ⊠No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination, such as a map of your project or jurisdiction in relation to the nearest SSA.
	□Yes → Continue to Question 2.
2.	Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)? \Box Yes \Rightarrow The review is in compliance with this section. Continue to the Worksheet Summary below.
	\square No \rightarrow Continue to Question 3.
3.	Does your region have a memorandum of understanding (MOU) or other working agreement with EPA for HUD projects impacting a sole source aquifer? Contact your Field or Regional Environmental Officer or visit the HUD webpage at the link above to determine if an MOU or agreement exists in your area. □Yes → Continue to Question 4.
	\square No \rightarrow Continue to Question 5.
4.	Does your MOU or working agreement exclude your project from further review? □Yes → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination and document where your project fits within the MOU or agreement.
	\square No \rightarrow Continue to Question 5.
5.	Will the proposed project contaminate the aquifer and create a significant hazard to public health? Consult with your Regional EPA Office. Your consultation request should include detailed information

about your proposed project and its relationship to the aquifer and associated streamflow source area. EPA will also want to know about water, storm water and waste water at the proposed project. Follow your MOU or working agreement or contact your Regional EPA office for specific information you may need to provide. EPA may request additional information if impacts to the aquifer are questionable

¹ A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

- \square No \Rightarrow If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide your correspondence with the EPA and all documents used to make your determination.
- ☐Yes → The RE/HUD will work with EPA to develop mitigation measures. If mitigation measures are approved, attach correspondence with EPA and include the mitigation measures in your environmental review documents and project contracts. If EPA determines that the project continues to pose a significant risk to the aquifer, federal financial assistance must be denied. Continue to Question 6.

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.

There are no EPA sole source aquifers in Puerto Rico. The project is in compliance with Sole Source Aquifer requirements.



WASHINGTON, DC 20410 1000

Wetlands (CEST and EA) – Partner

https://www.hudexchange.info/environmental review/wetlands protection

1.	Does this project involve new construction as defined in Executive Order 11990, expansion of a building's footprint, or ground disturbance?
	The term "new construction" includes draining, dredging, channelizing, filling, diking, impounding, and related activities and construction of any any structures or facilities.
	□ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.
	\boxtimes Yes \rightarrow Continue to Question 2.
2.	Will the new construction or other ground disturbance impact a wetland as defined in E.O. 11990?
	$oximes$ No $oldsymbol{ o}$ If the RE/HUD agrees with this recommendation, the review is in compliance with
	this section. Continue to the Worksheet Summary below. Provide a map or any other relevant documentation to explain your determination.
	\square Yes \Rightarrow Work with HUD or the RE to assist with the 8-Step Process. Continue to Question 3.
3.	Does Section 55.12 state that the 8-Step Process is not required?
	□ No, the 8 Step Process applies.
	This project will require mitigation and may require elevating structure or structures. See the
	link to the HUD Exchange above for information on HUD's elevation requirements.
	→ Work with the RE/HUD to assist with the 8-Step Process. Continue to Worksheet Summary.
	☐ 5 Step Process is applicable per 55.12(a).
	Provide the applicable citation at 24 CFR 55.12(a) here.
	Click here to enter text.
	→ Work with the RE/HUD to assist with the 5-Step Process. This project may require mitigation or alternations. Continue to Worksheet Summary.
	☐ 8 Step Process is inapplicable per 55.12(b).
	Provide the applicable citation at 24 CFR 55.12(b) here.
	Click here to enter text. → If the RE/HUD agrees with this recommendation, the review is in compliance with this
	section. Continue to Worksheet Summary.
	☐ 8 Step Process is inapplicable per 55.12(c).
	Provide the applicable citation at 24 CFR 55.12(c) here.

Click here to enter text.

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

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.

According to the National Wetlands Inventory (NWI) database, the project area is not within or adjacent to wetlands. The nearest wetland is a freshwater pond approximately 960 feet south of the project site. The project is in compliance with Wetlands Protection requirements. See Appendix B, Figure 11, Wetlands Map.



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

Wild and Scenic Rivers (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental review/wild and scenic rivers

1.	Is your project within proximity of a Wild and Scenic River, Study River, or Nationwide Rivers
	Inventory River?

 \boxtimes No \Rightarrow If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation used to make your determination.

 \square Yes \rightarrow Continue to Question 2.

2. Could the project do any of the following?

- Have a direct and adverse effect within Wild and Scenic River Boundaries,
- Invade the area or unreasonably diminish the river outside Wild and Scenic River Boundaries, or
- Have an adverse effect on the natural, cultural, and/or recreational values of a NRI segment.

Consult with the appropriate federal/state/local/tribal Managing Agency(s), pursuant to Section 7 of the Act, to determine if the proposed project may have an adverse effect on a Wild & Scenic River or a Study River and, if so, to determine the appropriate avoidance or mitigation measures.

Select one:

- ☐ The Managing Agency has concurred that the proposed project will not alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.
- → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.
- ☐ The Managing Agency was consulted and the proposed project may alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.
- → The RE/HUD must work with the Managing Agency to identify mitigation measures to mitigate the impact or effect of the project on the river.

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.

No federally designated Wild and Scenic Rivers are within or in the immediate vicinity of the project area. The nearest designated Wild and Scenic Rive is approximately 81.5 miles northeast of the project area. The project is in compliance with Wild and Scenic Rivers requirements.

See Appendix B, Figure 1, Wild and cenic i er Map.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

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Environmental Justice (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental review/environmental justice

HUD strongly encourages starting the Environmental Justice analysis only after all other laws and authorities, including Environmental Assessment factors if necessary, have been completed.

- 1. Were any adverse environmental impacts identified in any other compliance review portion of this project's total environmental review?
 - \square Yes \rightarrow Continue to Question 2.
 - If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.
- 2. Were these adverse environmental impacts disproportionately high for low-income and/or minority communities?

□Yes

Explain:

Click here to enter text.

→ The RE/HUD must work with the affected low-income or minority community to decide what mitigation actions, if any, will be taken. Provide any supporting documentation.

 \square No

Explain:

Click here to enter text.

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

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.

Environmental justice is assurance of protection of the environment and human health equally for all people regardless of race, color, national origin, or income. Executive Order 12898, "Federal Actions to Address Environmental Justice in Minority Populations and Low income Populations," requires HUD to consider how federally assisted projects may exert disproportionately high and adverse human health or environmental effects on minority and low income populations.

The project would not generate adverse resource or health effects or adversely impact residential, commercial, or community facilities or services that may be of importance to environmental justice communities. The project would not disproportionately generate adverse environmental impacts on environmental justice communities. The project would benefit all populations in the project area by providing recreational facilities to the population of Sabana Grande at a rehabilitated facility that could not be used without the project because of flood damage.

The Project is in compliance with Executive Order 12898.

Appendix B Maps



Legend

18.072633, -66.959490

Project Area

PUERTO RICO



Figure 1. Project Area Map Coliseo Ángel Mercado, Sabana Grande

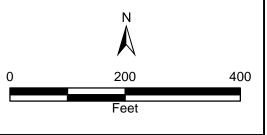
Applicant ID: PR-CRP-000745
Project Coordinates: 18.072633, -66.959490

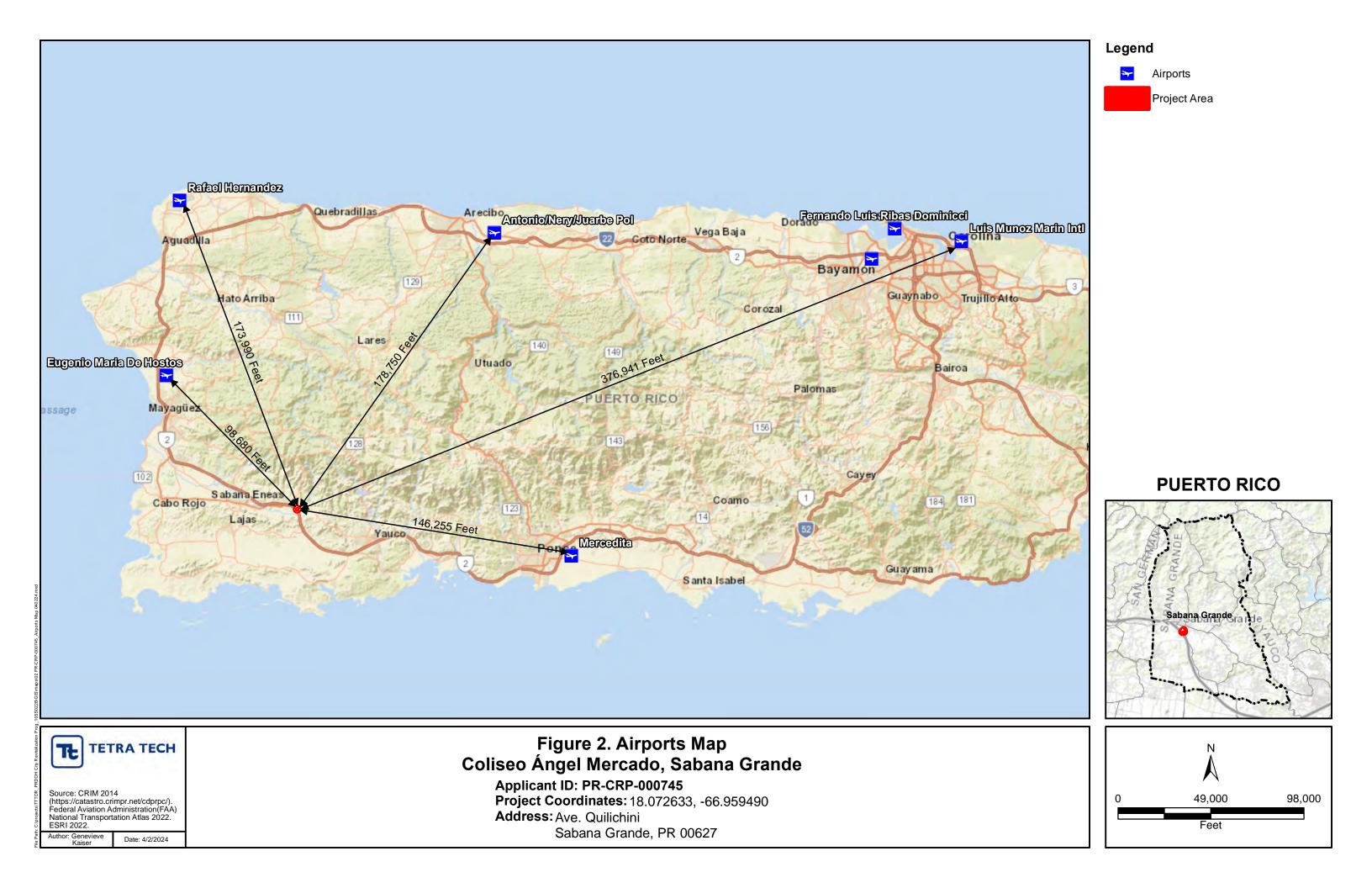
Address: Ave. Quilichini

TETRA TECH

Source: Source: CRIM 2014 (https://catastro.crimpr.net/cdprpc/). ESRI 2023.

Sabana Grande, PR 00627

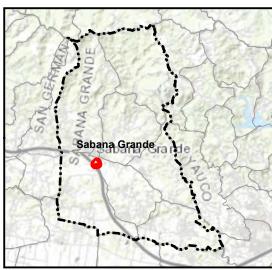








Coastal Barrier Resources System Unit





Source: Source: USFWS 2019 (https://fwsprimary.wim.usgs.gov/CBRSMapper-v2/#layersPanel). CRIM 2014 (https://catastro.crimpr.net/cdprpc/). ESRI 2022.

Figure 3. Coastal Barrier Resources System Map Coliseo Ángel Mercado, Sabana Grande

Applicant ID: PR-CRP-000745
Project Coordinates: 18.072633, -66.959490

Address: Ave. Quilichini

Sabana Grande, PR 00627

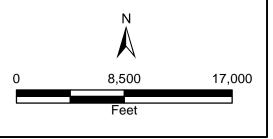
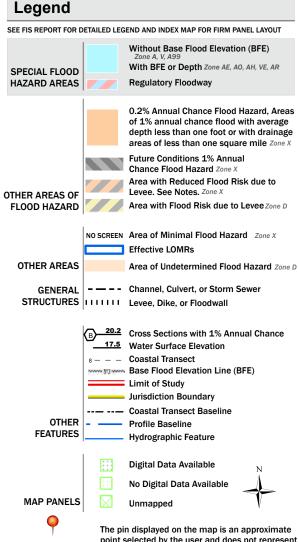


Figure 4.
National Flood Hazard Layer FIRMette





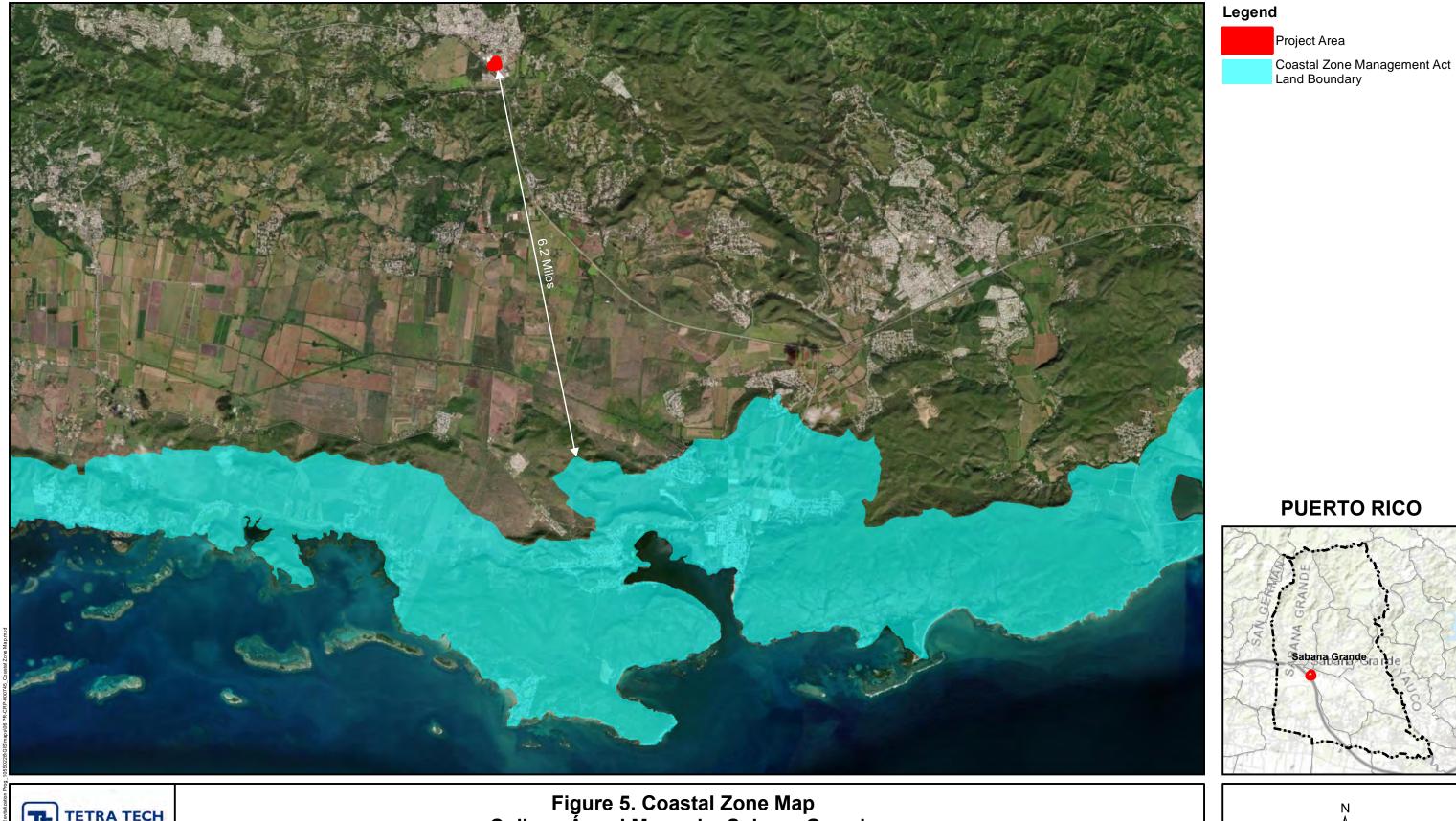
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/31/2022 at 5:59 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





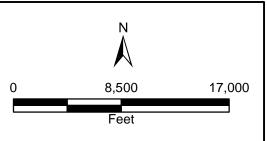


Source: CRIM 2014
(https://catastro.crimpr.net/cdprpc/). Puerto Rico
Department of Natural and Environmental
Resources 2010 (https://www.arcgis.com/home/
item.html?id=
1d0eff66617440dcabb0e9928d01ec57).
ESRI 2022.

Coliseo Ángel Mercado, Sabana Grande

Applicant ID: PR-CRP-000745
Project Coordinates: 18.072633, -66.959490 Address: Ave. Quilichini

Sabana Grande, PR 00627



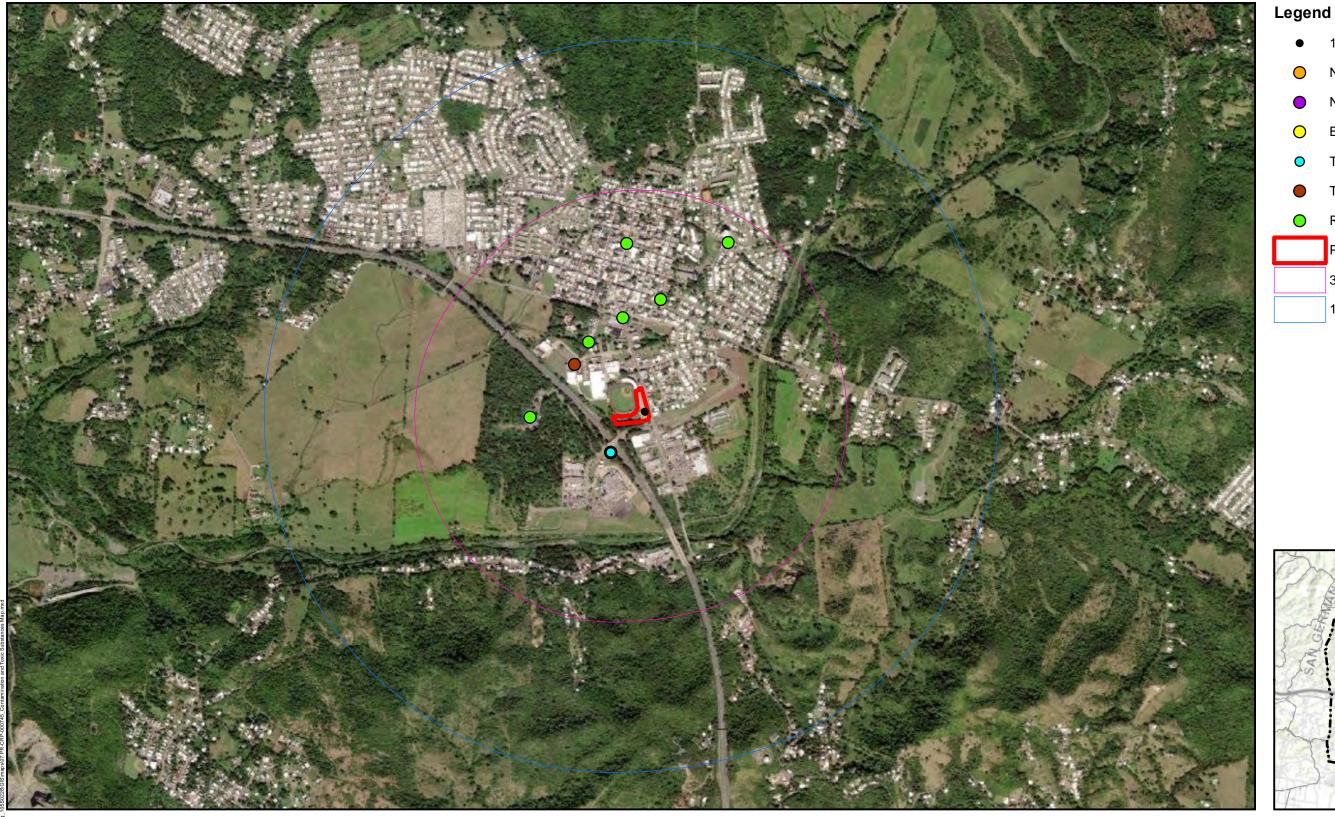


Figure 6. Contamination and Toxic Substances Map Coliseo Ángel Mercado, Sabana Grande

Applicant ID: PR-CRP-000745
Project Coordinates: 18.072633, -66.959490

Address: Ave. Quilichini

Sabana Grande, PR 00627

PUERTO RICO

18.072633, -66.959490

Non-NPL Superfund Sites

3,000-Foot Project Buffer

1-Mile Project Buffer

NPL Superfund Sites

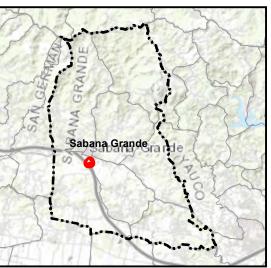
Brownfields Sites

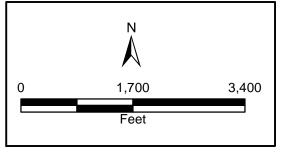
TRI Sites

TSCA Sites

RCRA Sites

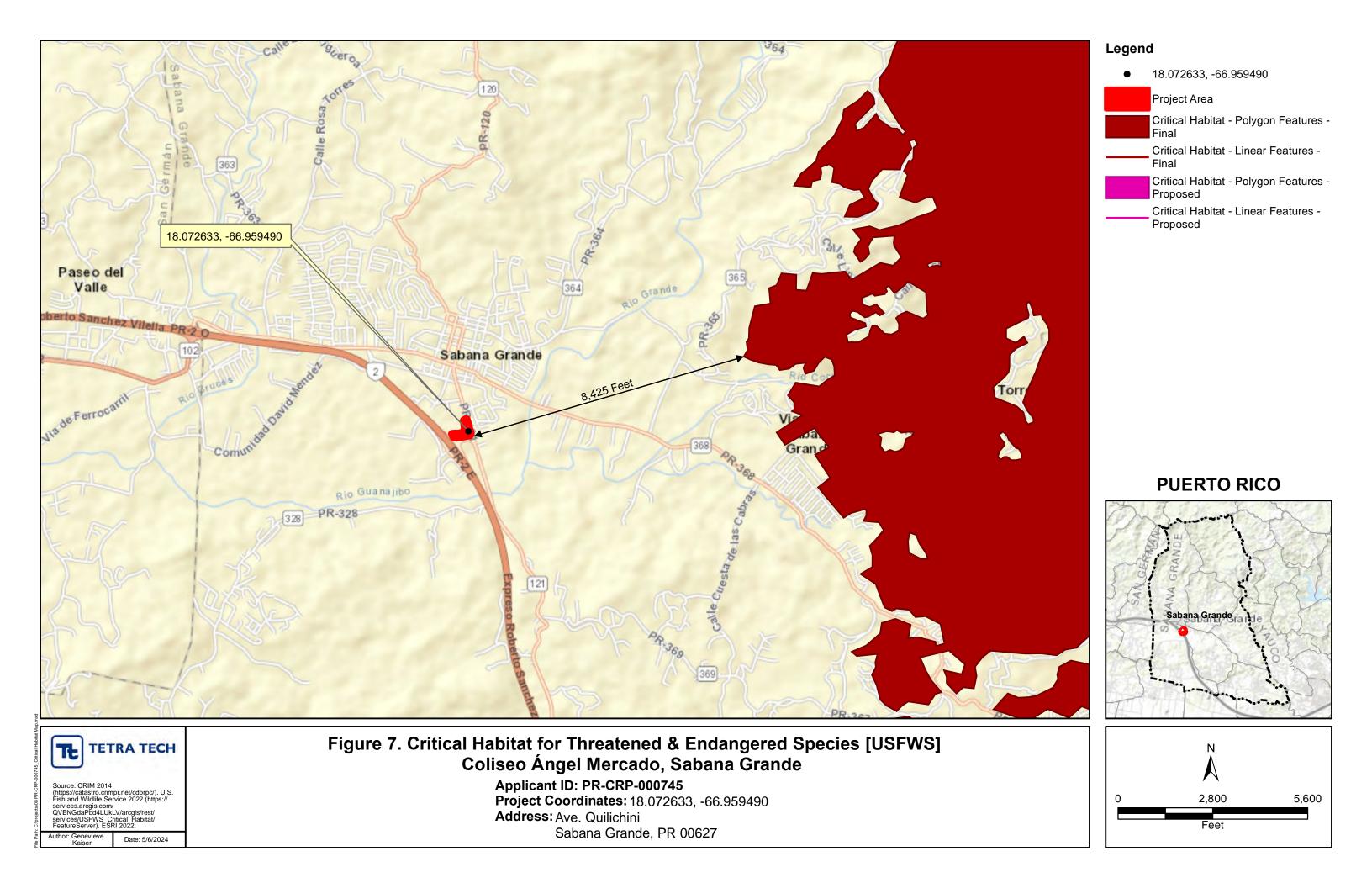
Project Area

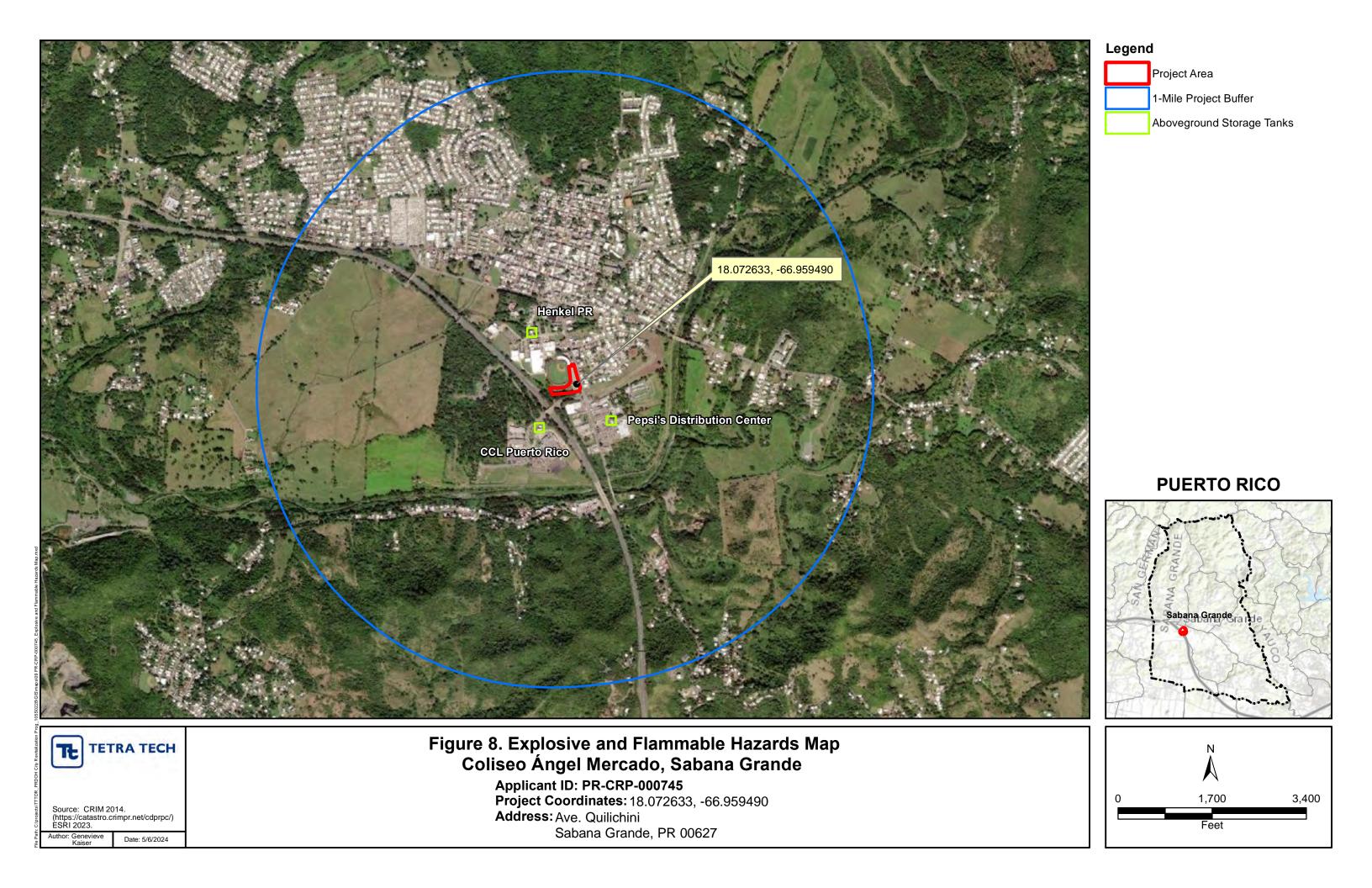




Source: CRIM 2014. (https://catastro.crimpr.net/cdprpc/) U.S. Environmental Protection Agency (https://edg.epa.gov/data/). ESRI 2023.

TETRA TECH







Legend

18.072633, -66.959490

PR-CRP-000745

Soil Type

All areas are prime farmland

Not prime farmland

Prime farmland if drained

PUERTO RICO



TETRA TECH

Source: U.S. Department of Agriculture Natural Resources Conservation Service (https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx). CRIM 2014 (https://catastro.crimpr.net/cdprpc/).



Applicant ID: PR-CRP-000745
Project Coordinates: 18.072633, -66.959490

Address: Ave. Quilichini

Sabana Grande, PR 00627

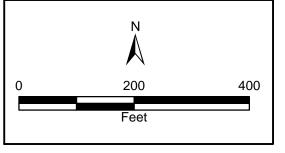
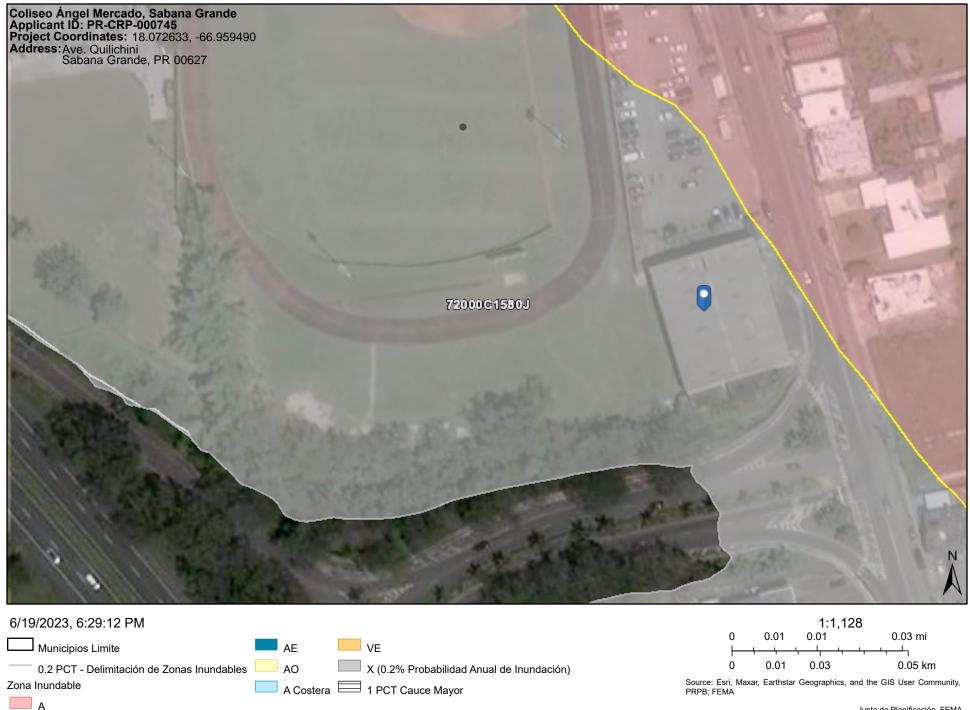
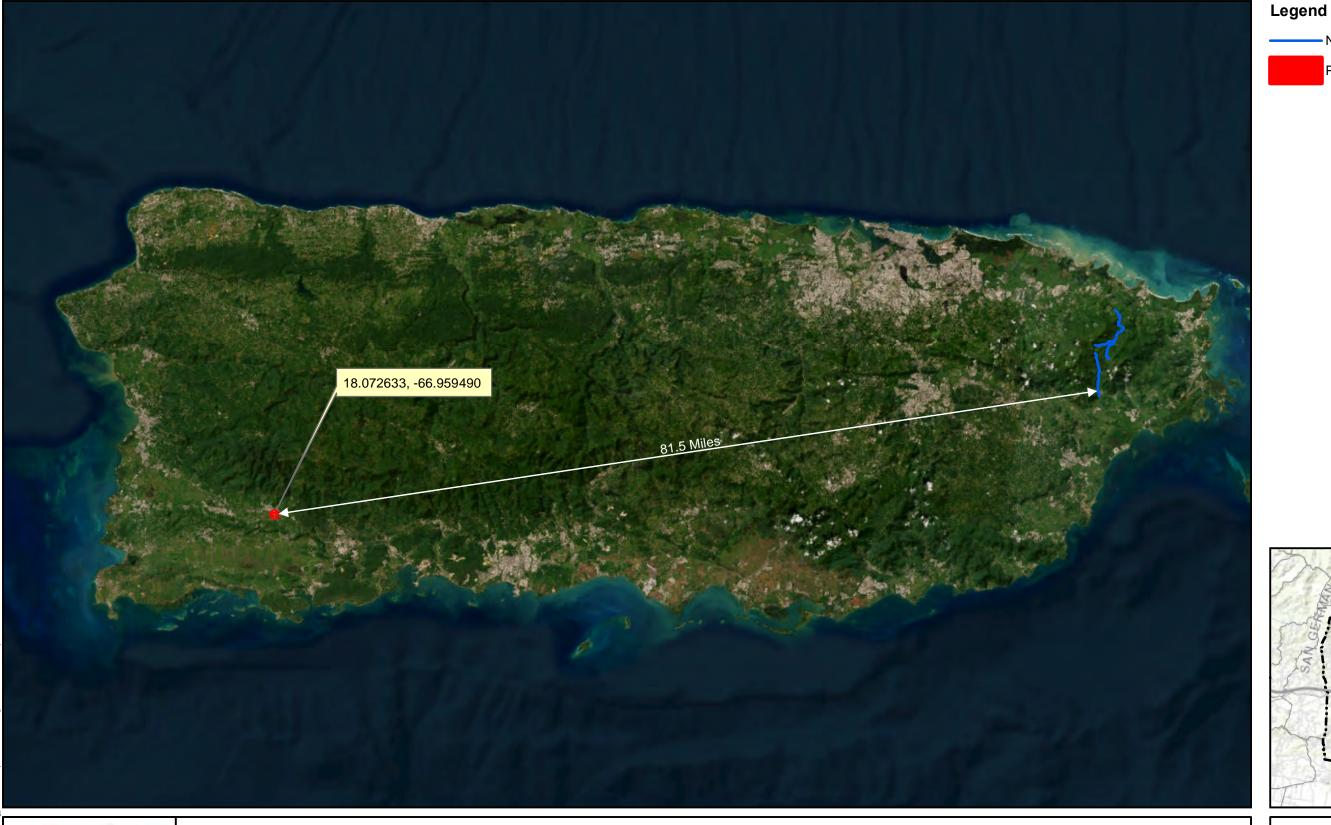


Figure 10. Advisory Base Flood Elevation (ABFE) Map



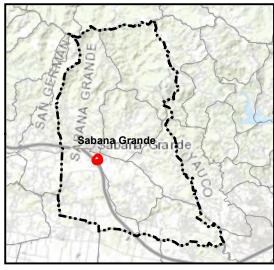






National Wild and Scenic Rivers

Project Area



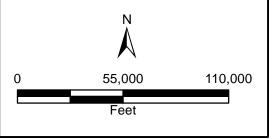
TETRA TECH

Source: CRIM 2014 (https://catastro.crimpr.net/cdprpc/). US Forest Service 2019 (http://data.fs.usda. gov/geodata/edw/datasets.php). ESRI 2023.

Figure 12. Wild and Scenic Rivers Map Coliseo Ángel Mercado, Sabana Grande

Applicant ID: PR-CRP-000745
Project Coordinates: 18.072633, -66.959490 Address: Ave. Quilichini

Sabana Grande, PR 00637



Appendix C Contamination and Toxic Substances



Detailed Facility Report

Facility Summary

HENKEL PUERTO RICO INC

9 V QUILINCHINI AVE, SABANA GRANDE, PR 00637

FRS (Facility Registry Service) ID: 110000307793

EPA Region: 02

Latitude: 18.071036

Longitude: -66.960911

Locational Data Source: TRIS

Industries: Chemical Manufacturing

Indian Country: N

Enforcement and Compliance Summary

Statute	CAA
Compliance Monitoring Activities (5 years)	-
Date of Last Compliance Monitoring Activity	-
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	-
Formal Enforcement Actions (5 years)	-
Penalties from Formal Enforcement Actions (5 years)	-
EPA Cases (5 years)	-
Penalties from EPA Cases (5 years)	-
Statute	EPCRA
Statute Compliance Monitoring Activities (5 years)	EPCRA 1
Compliance Monitoring Activities (5 years)	1
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity	1 08/25/2023
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status	1 08/25/2023
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12)	1 08/25/2023
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation	1 08/25/2023
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation Informal Enforcement Actions (5 years)	1 08/25/2023
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation Informal Enforcement Actions (5 years)	1 08/25/2023
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation Informal Enforcement Actions (5 years) Formal Enforcement Actions (5 years) Penalties from Formal Enforcement Actions (5 years)	1 08/25/2023

Statute	RCRA
Compliance Monitoring Activities (5 years)	1
Date of Last Compliance Monitoring Activity	06/27/2019
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	-
Formal Enforcement Actions (5 years)	-
Penalties from Formal Enforcement Actions (5 years)	-
EPA Cases (5 years)	-
Penalties from EPA Cases (5 years)	-
Statute	TSCA
Statute Compliance Monitoring Activities (5 years)	TSCA 1
Compliance Monitoring Activities (5 years)	1
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity	1 08/25/2023
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status	1 08/25/2023
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12)	1 08/25/2023
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation	1 08/25/2023
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation Informal Enforcement Actions (5 years)	1 08/25/2023
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation Informal Enforcement Actions (5 years) Formal Enforcement Actions (5 years)	1 08/25/2023
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation Informal Enforcement Actions (5 years) Formal Enforcement Actions (5 years) Penalties from Formal Enforcement Actions (5 years)	1 08/25/2023

Regulatory Information

Clean Air Act (CAA): Operating Minor (PR0000007212170024)

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD982274383), Active LQG, (PRD090506239)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): 00747LCTTPNO9VQ

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		110000307793					N	18.071036	-66.960911
ICIS-Air	CAA	PR0000007212170024	Minor Emissions	Operating	CAANSPS, CAANSR, CAASIP		N	18.073028	-66.961278
TRI	EP313	00747LCTTPNO9VQ	Toxics Release Inventory	Last Reported for 2022			N	18.071036	-66.960911
RCRAInfo	RCRA	PRD982274383	Other	Inactive ()			N		
RCRAInfo	RCRA	PRD090506239	róc	Active (H)			N	18.075633	-66.961631
TSCA	TSCA	TSCA6425					N		
TSCA	TSCA	200002765					N		
TSCA	TSCA	100606311					N		
TSCA	TSCA	200002225					N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110000307793	HENKEL PUERTO RICO INC	9 V QUILINCHINI AVE, SABANA GRANDE, PR 00637	Sabana Grande Municipio
ICIS-Air	CAA	PR0000007212170024	HENKEL PUERTO RICO (SABANA GRANDE)	GUILINCHINI #9, SABANA GRANDE, PR 00708	Sabana Grande Municipio
TRI	EP313	00747LCTTPNO9VQ	HENKEL PUERTO RICO INC	QUILICHINI AVE # 9, SABANA GRANDE, PR 00637	Sabana Grande Municipio
RCRAInfo	RCRA	PRD982274383	LOCTITE PUERTO RICO INC	ROAD 121 KM 0.3, SABANA GRANDE, PR 00747	Sabana Grande Municipio
RCRAInfo	RCRA	PRD090506239	HENKEL PUERTO RICO INC	9 VICENTE QUILICHINI AVENUE, SABANA GRANDE, PR 00637	Sabana Grande Municipio
TSCA	TSCA	TSCA6425	HENKEL PUERTO RICO INC	9 V. QUILINCHINI AVENUE, SABANA GRANDE, PR 637	
TSCA	TSCA	200002765	LOCTITE CORPORATION PUERTO RICO INC.	9 V. QUILINCHINI AVENUE, SABANA GRANDE, PR 00637	
TSCA	TSCA	100606311	HENKEL PUERTO RICO INC	9 V. QUILINCHINI AVENUE, SABANA GRANDE, PR 00637	
TSCA	TSCA	200002225	LOCTITE PUERTO RICO, INC.	9 V. QUILLINCHINI AVENUE, SABANA GRANDE, PR 00637	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-Air	PR0000007212170024	2891	Adhesives And Sealants

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
TRI	00747LCTTPNO9VQ	325520	Adhesive Manufacturing
ICIS-Air	PR0000007212170024	325520	Adhesive Manufacturing
RCRAInfo	PRD090506239	325520	Adhesive Manufacturing

Facility Tribe Information

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

Enforcement and Compliance

RCRA (Hazardous Waste (Resource Conservation and Recovery Act) Compliance Pipeline (Compliance Monitoring >> Violations >> Enforcement Actions) (10 Years)

This table shows how violations relate to compliance monitoring (CM) activities and enforcement. Currently available for RCRA only. Full CM history available below.

No data records returned

There are no relationships to display in the RCRA Compliance Pipeline table for this facility. Scroll down to view compliance monitoring history.

Compliance Monitoring History Last 5 Years \$

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
CAA	PR0000007212170024	ICIS-Air	Inspection/Evaluation	PCE On-Site	EPA	02/01/2024	
EPCRA	00747LCTTPNO9VQ	ICIS	Inspection/Evaluation	Late/Non Reporter	EPA	08/25/2023	
RCRA	PRD090506239	RCRAInfo/ICIS	Inspection/Evaluation	Compliance Evaluation Inspection	EPA	06/27/2019	No Violations Or Compliance Issues Were Found
TSCA	200002225	ICIS	Inspection/Evaluation	Exemption, Export, Import, Inventory Rule, Premanufacture Notice, Records, Significant New Use Rule	EPA	08/25/2023	

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CAA	PR0000007212170024	No	02/10/2024	0	02/09/2024
RCRA	PRD982274383	No	02/10/2024	0	02/09/2024
RCRA	PRD090506239	No	02/10/2024	0	02/09/2024

Three-Year Compliance History by Quarter

tatute 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+
CAA (Source ID: PR0000007212170024)		04/01-06/30/21	07/01-09/30/	21 10/01-12/31	/21 01/01-03/31/2	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	No Violation Ider	ntified No Violation Ide	ntified No Violation Iden	tified No Violation Identii	ied No Violation Identi	ied No Violation Identifie	d No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
HPV History													
Violation Type Agency Programs	Pollutants												
Program/Pollutant/Violation Type	Q	TR 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: PRD090506239)		-06/30/21	7/01-09/30/21	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 Violati	ion Identified No V	iolation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	CAA (Source ID: PR0000007212170024) Facility-Level Status HPV History Violation Type Agency Programs Program/Pollutant/Violation Type RCRA (Source ID: PR0090506239)	CAA (Source ID: PR0000007212170024) Facility-Level Status HPV History Violation Type Agency Programs Pollutants Program/Pollutant/Violation Type C RCRA (Source ID: PR0090506239) 04/01	CAA (Source ID: PR0000007212170024)	CAA (Source ID: PR0000007212170024)	CAA (Source ID: PR0000007212170024) 04/01-06/30/21 07/01-09/30/21 10/01-12/31,	CAA (Source ID: PR0000007212170024)	CAA (Source ID: PR0000007212170024) 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 Facility-Level Status No Violation Identified No Violation Ide	CAA (Source ID: PR0000007212170024) Facility-Level Status No Violation Identified CAA (Source ID: PR0000007212170024) 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 Facility-Level Status No Violation Identified No Violati	CAA (Source ID: PR0000007212170024) 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 Facility-Level Status No Violation Identified No Violation Identi	CAA (Source ID: PR0000007212170024) Facility-Level Status No Violation Identified No Violation Type Agency Program/Pollutant/Violation Type QTR 1 QTR 2 QTR 3 QTR 4 QTR 5 QTR 6 QTR 7 QTR 8 QTR 9 RCRA (Source ID: PR0000007212170024) O4/01-06/30/21 O4/01-09/30/22 O4/01-06/30/22 O7/01-09/30/22 CAA (Source ID: PR0000007212170024) Facility-Level Status No Violation Identified No Violatio	CAA (Source ID: PR0000007212170024) Facility-Level Status No Violation Identified No Violatio		

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	е ятр	QTR 10	QTR 11	QTR 12+
	Facility-Level Status	No Violation Identified											
	Violation Agency												

Informal Enforcement Actions | Last 5 Years | \$\cdot\$

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 | \$

No data records returned

Environmental Conditions

Watersheds

No data records returned

WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database)) State Water Body Name (ICIS (Integrated Compliance Information Syste

Assessed Waters From Latest State Submission (ATTAINS)

No data records returned

Air Quality Nonattainment Areas

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site ①

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year ①											
	Chemical Name	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Acrylic acid					A	А	A		A	A	A
Cumene hydroperoxide					A	А	A			A	A
Diisocyanates		A	A	A	A	А	A	А	A		
Toluene diisocyanate (mixed isomers)								А	A	A	A
Toluene-2,4-diisocyanate		A	A	A	A	A	A				

No data records returned

e-Manifest Hazardous Waste History (Public)

Hazardous Waste Shipped in Kilograms by Year (Through 11/11/2023)

Source ID	Waste Description	2021	2022	2023	2024
PRD090506239	Hazardous Waste	18,842	18,668	30,099	
PRD090506239	Acute Hazardous Waste	0	0	0	
PRD090506239	Pharmaceutical Hazardous Waste	0	0	0	

Pharmaceutical Hazardous Waste is excluded from the Hazardous and Acute Hazardous Waste quantities shown above because Pharmaceutical Waste is managed under 40 CFR part 266 subpart P https://www.epa.gov/hwgenerators/final-rule-management-standards-hazardous waste-pharmaceutical waste is managed under 40 CFR part 266 subpart P https://www.epa.gov/hwgenerators/final-rule-management-standards-hazardous-waste-pharmaceutical-and-amendment-p075.

Community

Environmental Justice

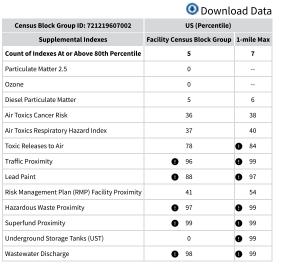
This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. Use of these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community"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

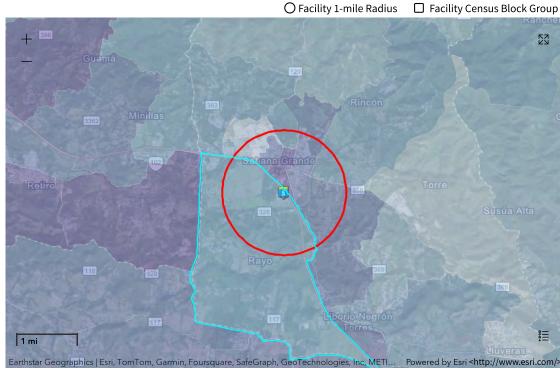
EJScreen Indexes Shown



Related Reports

EJScreen Community Report





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)	
Total Persons	6,666
Population Density	2,175/sq.mi.
Housing Units in Area	3,120
General Statistics (ACS (American Community Survey))	
Total Persons	6,154
Percent People of Color	99%
Households in Area	1,907
Households on Public Assistance	136
Persons With Low Income	4,536
Percent With Low Income	74%
Geography	
Radius of Selected Area	1 mi.

Children 5 years and younger	423 (6%)
, , ,	
Minors 17 years and younger	1,575 (24%)
Adults 18 years and older	5,091 (76%)
Seniors 65 years and older	1,466 (22%)
Race Breakdown (U.S. Census) - Persons (%)	
White	5,896 (88%)
African-American	331 (5%)
Hispanic-Origin	6,640 (100%)
Asian/Pacific Islander	8 (0%)
American Indian	37 (1%)
Other/Multiracial	394 (6%)

Geography	
Center Latitude	18.071036
Center Longitude	-66.960911
Land Area	100%
Water Area	0%
Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	814 (42.66%)
\$15,000 - \$25,000	345 (18.08%)
\$25,000 - \$50,000	447 (23.43%)
\$50,000 - \$75,000	190 (9.96%)
Greater than \$75,000	112 (5.87%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)						
Less than 9th Grade	730 (17.04%)					
9th through 12th Grade	344 (8.03%)					
High School Diploma	1,402 (32.72%)					
Some College/2-year	380 (8.87%)					
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,026 (23.94%)					



Detailed Facility Report

Facility Summary

SABANA GRANDE WASTEWATER TREATMENT PLANT

PR-2 KM 182.6 INT, SABANA GRANDE, PR 00637

FRS (Facility Registry Service) ID: 110000561678

EPA Region: 02 Latitude: 18.072417 Longitude: -66.96425 Locational Data Source: RMP

Industries: Utilities
Indian Country: N

Enforcement and Compliance Summary

Emortement and compnance summary	
Statute	CAA
Compliance Monitoring Activities (5 years)	
Date of Last Compliance Monitoring Activity	-
Compliance Status	-
Qtrs in Noncompliance (of 12)	-
Qtrs with Significant Violation	-
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)	
- Constitution of the Property of Section 1	
Statute Statute	RCRA
Statute	RCRA
Statute Compliance Monitoring Activities (5 years)	RCRA
Statute Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity	RCRA
Statute Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status	RCRA No Violation Identified
Statute Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Cyrs in Noncompliance (of 12)	RCRA No Violation Identified 0
Statute Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation	RCRA No Violation Identified 0
Statute Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation Informal Enforcement Actions (5 years)	RCRA No Violation Identified 0
Statute Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation Informal Enforcement Actions (5 years) Formal Enforcement Actions (5 years)	RCRA No Violation Identified 0

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD000691477)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110000561678					N	18.072417	-66.96425
ICIS		2656914					N	18.075301	-66.964625
RMP	CAA	100000125474					N	18.072417	-66.96425
RCRAInfo	RCRA	PRD000691477	Other	Inactive ()			N	18.079987	-66.978635

Facility Address

•					
System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110000561678	SABANA GRANDE WASTEWATER TREATMENT PLANT	PR-2 KM 182.6 INT, SABANA GRANDE, PR 00637	Sabana Grande Municipio
ICIS		2656914	PRASA SABANA GRANDE WWTP	STATE RD #2 KM 182.6, SANBANA GRANDE, PR 00722	Sabana Grande Municipio
RMP	CAA	100000125474	SABANA GRANDE WASTEWATER TREATMENT PLANT	CARRETERA 2 KM. 182.6, SABANA GRANDE, PR 00637	Sabana Grande Municipio
RCRAInfo	RCRA	PRD000691477	SABANA GRANDE STP	STATE RD 2 KM 215.0, SABANA GRANDE, PR 00747	Sabana Grande Municipio

Facility SIC (Standard Industrial Classification) Codes

No data records returned				
System	Identifier	SIC Code	SIC Description	

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RMP	100000125474	22132	Sewage Treatment Facilities
RCRAInfo	PRD000691477	22132	Sewage Treatment Facilities

Facility Tribe Information

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

Enforcement and Compliance

Compliance Monitoring History Last 5 Years \$

No data records returned

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

 $Entries\ in\ italics\ are\ not\ included\ in\ ECHO's\ Compliance\ Monitoring\ Activity\ counts\ because\ they\ are\ not\ compliance\ monitoring\ strategy\ < https://www.epa.gov/compliance/complian$

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	PRD000691477	No	02/10/2024	0	02/09/2024

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: PRD000691477)	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 \$ 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 | \$\cdot\$ No data records returned Issued/ Filed Date **Environmental Conditions** Watersheds No data records returned **Assessed Waters From Latest State Submission (ATTAINS)** No data records returned **Air Quality Nonattainment Areas** No data records returned **Pollutants** Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site o No data records returned Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year ① 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.



Census Block Group ID: 721219607002	US (Percentile)		
Supplemental Indexes	Facility Census Block Group	1-n	nile Ma
Ozone	0		
Diesel Particulate Matter	5		6
Air Toxics Cancer Risk	36		38
Air Toxics Respiratory Hazard Index	37		40
Toxic Releases to Air	78	0	84
Traffic Proximity	9 6	0	99
Lead Paint	9 88	0	97
Risk Management Plan (RMP) Facility Proximity	41		54
Hazardous Waste Proximity	9 7	0	99
Superfund Proximity	9 99	0	99
Underground Storage Tanks (UST)	0	0	99
Wastewater Discharge	9 8	0	99



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)							
Total Persons	8,241						
Population Density	2,630/sq.mi.						
Housing Units in Area	3,723						

General Statistics (ACS (American Community Survey))							
Total Persons	7,875						
Percent People of Color	100%						
Households in Area	2,406						
Households on Public Assistance	160						
Persons With Low Income	5,693						
Percent With Low Income	72%						

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.072417
Center Longitude	-66.96425
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)								
Less than \$15,000	955 (39.69%)							
\$15,000 - \$25,000	418 (17.37%)							
\$25,000 - \$50,000	599 (24.9%)							
\$50,000 - \$75,000	285 (11.85%)							
Greater than \$75,000	149 (6.19%)							

Age Breakdown (U.S. Census) - Persons (%)							
Children 5 years and younger	510 (6%)						
Minors 17 years and younger	1,999 (24%)						
Adults 18 years and older	6,242 (76%)						
Seniors 65 years and older	1,623 (20%)						

Race Breakdown (U.S. Census) - Persons (%)							
White	7,269 (88%)						
African-American	408 (5%)						
Hispanic-Origin	8,205 (100%)						
Asian/Pacific Islander	8 (0%)						
American Indian	44 (1%)						
Other/Multiracial	512 (6%)						

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)								
Less than 9th Grade	792 (15.04%)							
9th through 12th Grade	411 (7.81%)							
High School Diploma	1,645 (31.24%)							
Some College/2-year	470 (8.93%)							
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,390 (26.4%)							



Detailed Facility Report

Facility Summary

SHELL SS 1740 SABANA GRANDE

G MARTINEZ 2, SABANA GRANDE, PR 00637

FRS (Facility Registry Service) ID: 110004892705

EPA Region: 02 **Latitude:** 18.079264 **Longitude:** -66.960245

Locational Data Source: RCRAINFO

Industries: -Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRR000003996)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110004892705					N	18.079264	-66.960245
ICIS		1400002782					N	18.076667	-66.960556
RCRAInfo	RCRA	PRR000003996	Other	Inactive ()			N	18.079264	-66.960245

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004892705	SHELL SS 1740 SABANA GRANDE	G MARTINEZ 2, SABANA GRANDE, PR 00637	Sabana Grande Municipio
ICIS		1400002782	SHELL #1740 (204129)	G. MARTINEZ #2, SABANA GRANDE, PR 00637	Sabana Grande Municipio
RCRAInfo	RCRA	PRR000003996	SHELL SS 1740 SABANA GRANDE	G MARTINEZ 2, SABANA GRANDE, PR 00637	Sabana Grande Municipio

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

		No data records returned		No data records returned					
System Identifier SIC Code SIC Description					Identifier	NAICS Code	NAICS Description		

Facility Tribe Information

No data records returned

Distance to Tribe (miles)

Enforcement and Compliance

Compliance Monitoring History Last 5 Years \$



No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000003996	No	02/10/2024	0	02/09/2024

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: PRR000003996)	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											

Informal Enforcement Actions Last 5 Years \$

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 \$



No data records returned

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

Environmental Conditions

Watersheds

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

No data records returned

Air Quality Nonattainment Areas

No data records returned

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

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site ①

No data records returned

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

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year ①

No data records returned

hemical Name

Community

Environmental Justice

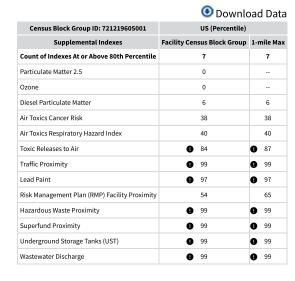
This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community"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

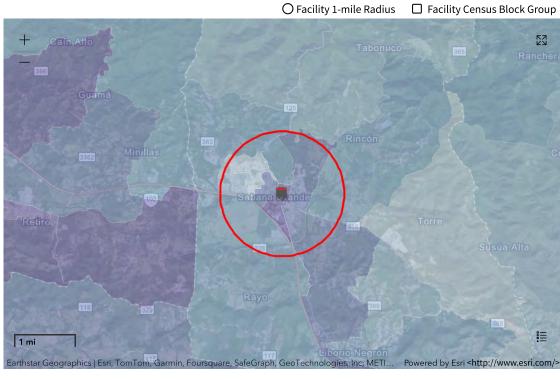
EJScreen Indexes Shown



Related Reports

EJScreen Community Report





Demographic Profile of Surrounding Area (1-Mile Radius)

Greater than \$75,000

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)	
Total Persons	9,080
Population Density	2,964/sq.mi.
Housing Units in Area	4,019
General Statistics (ACS (American Community Survey))	
Total Persons	10,023
Percent People of Color	100%
Households in Area	3,017
Households on Public Assistance	211
Persons With Low Income	7,177
Percent With Low Income	72%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.079264
Center Longitude	-66.960245
Land Area	100%
Water Area	0%
Income Breakdown (ACS (American Community Survey)) - House	eholds (%)
Less than \$15,000	1,149 (38.08%)
\$15,000 - \$25,000	544 (18.03%)
\$25,000 - \$50,000	740 (24.53%)
\$50,000 - \$75,000	397 (13.16%)

187 (6.2%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	605 (7%)
Minors 17 years and younger	2,307 (25%)
Adults 18 years and older	6,773 (75%)
Seniors 65 years and older	1,646 (18%)

Race Breakdown (U.S. Census) - Persons (%)	
White	7,980 (88%)
African-American	463 (5%)
Hispanic-Origin	9,036 (100%)
Asian/Pacific Islander	8 (0%)
American Indian	46 (1%)
Other/Multiracial	583 (6%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	879 (13.34%)
9th through 12th Grade	436 (6.62%)
High School Diploma	2,083 (31.61%)
Some College/2-year	606 (9.2%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1.819 (27.61%)



Detailed Facility Report

Facility Summary

ESSO STANDARD OIL CO PR CO-370

PR-121 65TH INFANTERIA 7, SABANA GRANDE, PR 00637

FRS (Facility Registry Service) ID: 110004895105

EPA Region: 02 **Latitude:** 18.076339 **Longitude:** -66.960406

Locational Data Source: RCRAINFO

Industries: -Indian Country: N

Enforcement and Compliance Summary

Zanoreomena una compilare cumunury	
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

 $\textbf{Resource Conservation and Recovery Act (RCRA):} \quad \text{Active VSQG, (PRR000011395)}$

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110004895105					N	18.076339	-66.960406
ICIS		600006855					N	18.074167	-66.96
RCRAInfo	RCRA	PRR000011395	VSQG	Active (H)			N	18.076339	-66.960406

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004895105	ESSO STANDARD OIL CO PR CO-370	PR-121 65TH INFANTERIA 7, SABANA GRANDE, PR 00637	Sabana Grande Municipio
ICIS		600006855	ESSO S/S CO-370	65 INF., CARR. 121, SABANA GRANDE, PR 00637	Sabana Grande Municipio
RCRAInfo	RCRA	PRR000011395	ESSO STANDARD OIL CO PR CO-370	CARR 121 65TH INFANTERIA 7, SABANA GRANDE, PR 00637	Sabana Grande Municipio

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

No data records returned				No data records returned				
System	Identifier	SIC Code	SIC Description	System	Identifier	NAICS Code	NAICS Description	

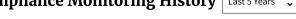
Facility Tribe Information

No data records returned

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

Enforcement and Compliance

Compliance Monitoring History Last 5 Years \$



No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000011395	No	02/10/2024	0	02/09/2024

Three-Year Compliance History by Month



Informal Enforcement Actions | Last 5 Years 💲

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 \$

No data records returned

Environmental Conditions

Watersheds

No data records returned									
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?			

Assessed Waters From Latest State Submission (ATTAINS)

					No data records returned						
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	
Air Quality Nonattainment Areas											
	No data records returned										
Pollutan	t	Within Nonattainment Status Area?		Nonattainment Status Applical	ble Standard(s)	Within Maintenance Status Area?		Maintenance St	Maintenance Status Applicable Standard(s)		

Pollutants

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

No data records returned											
TRI Facility ID	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										
Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year ①											
No data records returned											

Community

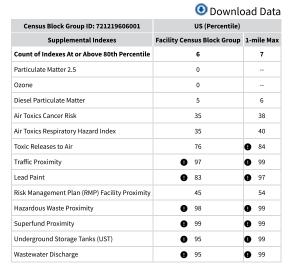
Environmental Justice

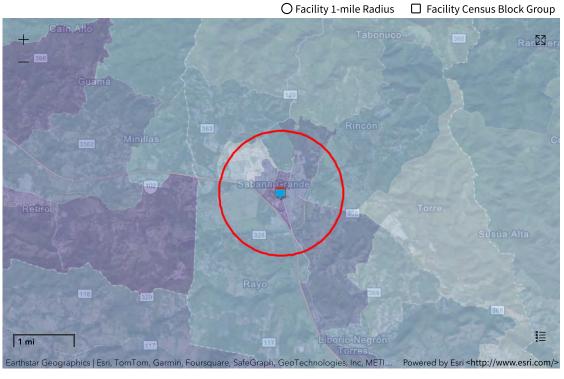
This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. Use of these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" 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.



Related Reports

EJScreen Community Report





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)	
Total Persons	8,763
Population Density	2,825/sq.mi.
Housing Units in Area	3,898
General Statistics (ACS (American Community Survey))	
Total Persons	8,935
	100%
Percent People of Color	
Households in Area	2,707
Households on Public Assistance	188
Persons With Low Income	6,419
Percent With Low Income	72%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.076339
Center Longitude	-66.960406
Land Area	100%
Water Area	0%
Income Breakdown (ACS (American Community Survey)) - I	Households (%)
Less than \$15,000	1,056 (39%)
\$15,000 - \$25,000	481 (17.76%)
\$25,000 - \$50,000	661 (24.41%)
\$50,000 - \$75,000	343 (12.67%)
Greater than \$75,000	167 (6.17%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	581 (7%)
Minors 17 years and younger	2,219 (25%)
Adults 18 years and older	6,544 (75%)
Seniors 65 years and older	1,615 (18%)

Race Breakdown (U.S. Census) - Persons (%)							
White	7,718 (88%)						
African-American	446 (5%)						
Hispanic-Origin	8,722 (100%)						
Asian/Pacific Islander	8 (0%)						
American Indian	45 (1%)						
Other/Multiracial	545 (6%)						

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	838 (14.14%)
9th through 12th Grade	416 (7.02%)
High School Diploma	1,874 (31.61%)
Some College/2-year	538 (9.08%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1.602 (27.02%)



Detailed Facility Report

Facility Summary

PRASA - SABANA GRANDE FILTER PLT

PR-364 KM 0.6 INT, SABANA GRANDE, PR 00637

FRS (Facility Registry Service) ID: 110012220202

EPA Region: 02 Latitude: 18.079301 Longitude: -66.956035 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, (PRR000014514)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110012220202					N	18.079301	-66.956035
RCRAInfo	RCRA	PRR000014514	Other	Inactive ()			N	18.079301	-66.956035

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110012220202	PRASA - SABANA GRANDE FILTER PLT	PR-364 KM 0.6 INT, SABANA GRANDE, PR 00637	Sabana Grande Municipio
RCRAInfo	RCRA	PRR000014514	PRASA - SABANA GRANDE FILTER PLT	PR 364 KM 0.6 INT, SABANA GRANDE, PR 00637	Sabana Grande Municipio

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

		No data records returned		No data records returned					
System	Identifier	SIC Code	SIC Description	System	Identifier	NAICS Code	NAICS Description		
Facility Tribe Information									

No data records returned

Enforcement and Compliance

Compliance Monitoring History Last 5 Years \$

No data records returned

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

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	PRR000014514	No	02/10/2024	0	02/09/2024

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: PRR000014514)	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											

Informal Enforcement Actions Last 5 Years \$

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 | \$

No data records returned

Environmental Conditions

Watersheds

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

No data records returned

Air Quality Nonattainment Areas

No data records returned

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

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site ①

No data records returned

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

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year ①

No data records returned

hemical Name

Community

Environmental Justice

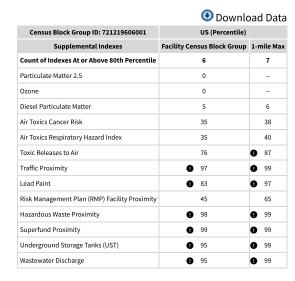
This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community"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

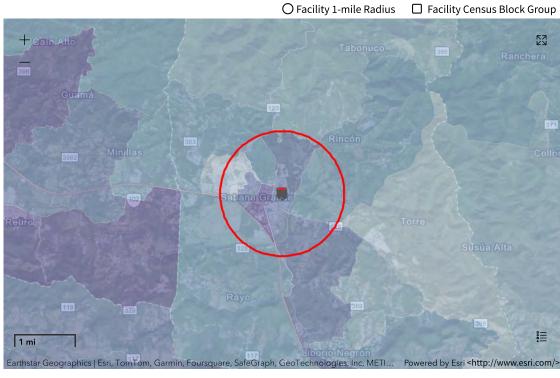
EJScreen Indexes Shown



Related Reports

EJScreen Community Report





Demographic Profile of Surrounding Area (1-Mile Radius)

Center Longitude Land Area

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)	
Total Persons	7,872
Population Density	2,575/sq.mi.
Housing Units in Area	3,522
General Statistics (ACS (American Community Survey))	
Total Persons	8,276
Percent People of Color	100%
Households in Area	2,499
Households on Public Assistance	189
Persons With Low Income	5,998
Percent With Low Income	72%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.079301

Water Area	0%
Income Breakdown (ACS (American Community Surv	rey)) - Households (%)
Less than \$15,000	1,009 (40.34%)
\$15,000 - \$25,000	465 (18.59%)
\$25,000 - \$50,000	575 (22.99%)
\$50,000 - \$75,000	300 (12%)
Greater than \$75,000	152 (6.08%)

-66.956035

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	535 (7%)
Minors 17 years and younger	2,002 (25%)
Adults 18 years and older	5,870 (75%)
Seniors 65 years and older	1,490 (19%)

Race Breakdown (U.S. Census) - Persons (%)	
White	6,944 (88%)
African-American	404 (5%)
Hispanic-Origin	7,833 (100%)
Asian/Pacific Islander	8 (0%)
American Indian	42 (1%)
Other/Multiracial	475 (6%)

Education Level (Persons 25 & older) (ACS (American Community	y Survey)) - Persons (%)
Less than 9th Grade	795 (14.22%)
9th through 12th Grade	367 (6.56%)
High School Diploma	1,846 (33.01%)
Some College/2-year	519 (9.28%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1.452 (25.97%)



Detailed Facility Report

Facility Summary

TOTAL PETROLEUM PUERTO RICO CORP-SERVICE STATION 104302

AVE QUILINCHINI #26, SABANA GRANDE, PR 00637

FRS (Facility Registry Service) ID: 110042423945

EPA Region: 02 **Latitude:** 18.075385 **Longitude:** -66.961826

Locational Data Source: RCRAINFO **Industries:** Gasoline Stations

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active VSQG, (PRR000023069)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110042423945					N	18.075385	-66.961826
RCRAInfo	RCRA	PRR000023069	VSQG	Active (H)			N	18.075385	-66.961826

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110042423945	TOTAL PETROLEUM PUERTO RICO CORP-SERVICE STATION 104302	AVE QUILINCHINI #26, SABANA GRANDE, PR 00637	Sabana Grande Municipio
RCRAInfo	RCRA	PRR000023069	TOTAL PETROLEUM PUERTO RICO CORP-SERVICE STATION 104302	AVE QUILINCHINI #26, SABANA GRANDE, PR 00637	Sabana Grande Municipio

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

		No data records returned		System	Identifier	NAICS Code	NAICS Description
System	Identifier	SIC Code	SIC Description	RCRAInfo	PRR000023069	44711	Gasoline Stations with Convenience Stores
				RCRAInfo	PRR000023069	44719	Other Gasoline Stations

Facility Tribe Information

No data records returned

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

Enforcement and Compliance

Compliance Monitoring History Last 5 Years \$



No data records returned **Activity Type**

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000023069	No	02/10/2024	0	02/09/2024

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	e atg	QTR 10	QTR 11	QTR 12+
	RCRA (Source ID: PRR000023069)	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											

Informal Enforcement Actions Last 5 Years \$

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 | \$\cdot\$

No data records returned

Environmental Conditions

Watersheds

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

No data records returned

Air Quality Nonattainment Areas

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site ①

				No data records returned			
TRI Facility ID	Year	Air Emissions	ir 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			Total Off-Site Transfers	
Toxics Releas	se Inve	ntory Total	Releases and Transfers	in Pounds by Chemical and Year 🕦			

No data records returned

Community

Environmental Justice

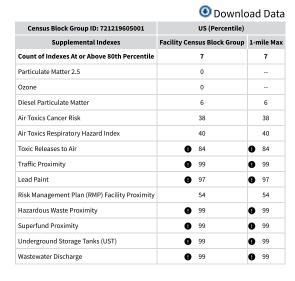
This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community"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

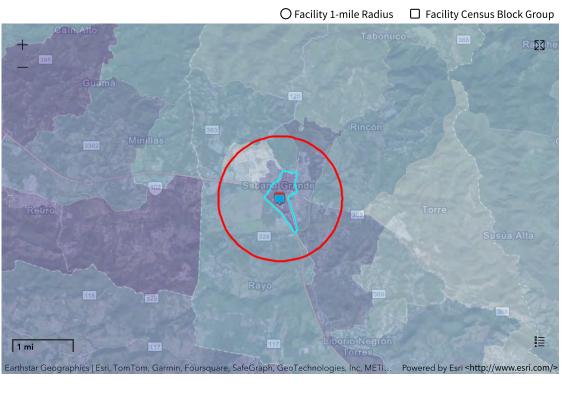
EJScreen Indexes Shown



Related Reports

EJScreen Community Report





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)	
Total Persons	8,883
Population Density	2,755/sq.mi.
Housing Units in Area	3,950
General Statistics (ACS (American Community Survey))	
Total Persons	8,951
	100%
Percent People of Color	
Households in Area	2,719
Households on Public Assistance	184
Persons With Low Income	6,415
Percent With Low Income	72%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.075385
Center Longitude	-66.961826
Land Area	100%
Water Area	0%
Income Breakdown (ACS (American Community Survey)) - Ho	ouseholds (%)
Less than \$15,000	1,052 (38.69%)
\$15,000 - \$25,000	476 (17.51%)
\$25,000 - \$50,000	674 (24.79%)
\$50,000 - \$75,000	349 (12.84%)
Greater than \$75,000	168 (6.18%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	589 (7%)
Minors 17 years and younger	2,243 (25%)
Adults 18 years and older	6,640 (75%)
Seniors 65 years and older	1,640 (18%)

Race Breakdown (U.S. Census) - Persons (%)	
White	7,821 (88%)
African-American	455 (5%)
Hispanic-Origin	8,841 (100%)
Asian/Pacific Islander	8 (0%)
American Indian	45 (1%)
Other/Multiracial	553 (6%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	842 (14.22%)
9th through 12th Grade	424 (7.16%)
High School Diploma	1,855 (31.33%)
Some College/2-year	532 (8.98%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1.611 (27.21%)



Detailed Facility Report

Facility Summary

TOTAL PETROLEUM PUERTO RICO CORP-SERVICE STATION 310290

AVE FRANCISCO M QUINONES #32, SABANA GRANDE, PR 00637

FRS (Facility Registry Service) ID: 110042423954

EPA Region: 02
Latitude: 18.07706
Longitude: -66.95884
Locational Data Source: FRS
Industries: Gasoline Stations
Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active VSQG, (PRR000023077)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Facility/System Characteristics

Facility/System Characteristics

J. J									
System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110042423954					N	18.07706	-66.95884
RCRAInfo	RCRA	PRR000023077	VSQG	Active (H)			N	18.078078	-66.961715

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110042423954	TOTAL PETROLEUM PUERTO RICO CORP-SERVICE STATION 310290	AVE FRANCISCO M QUINONES #32, SABANA GRANDE, PR 00637	Sabana Grande Municipio
RCRAInfo	RCRA	PRR000023077	TOTAL PETROLEUM PUERTO RICO CORP-SERVICE STATION 310290	AVE FRANCISCO M QUINONES #32, SABANA GRANDE, PR 00637	Sabana Grande Municipio

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

		No data records returned		System	Identifier	NAICS Code	NAICS Description
System	Identifier	SIC Code	SIC Description	RCRAInfo	PRR000023077	44711	Gasoline Stations with Convenience Stores
				RCRAInfo	PRR000023077	44719	Other Gasoline Stations

Facility Tribe Information

No data records returned

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

Enforcement and Compliance

Compliance Monitoring History Last 5 Years \$



No data records returned **Activity Type**

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000023077	No	02/10/2024	0	02/09/2024

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: PRR000023077)	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											

Informal Enforcement Actions Last 5 Years \$

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 \$

No data records returned

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

Environmental Conditions

Watersheds

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

No data records returned

Air Quality Nonattainment Areas

No data records returned

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

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site ①

				No data records returned				
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-Sit					Total Off-Site Transfers
Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year ①								
No data records returned								

Community

Environmental Justice

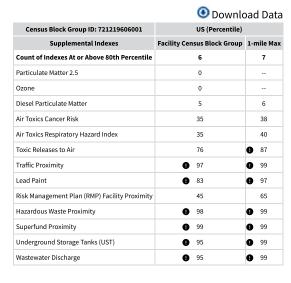
This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. Use of these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community"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

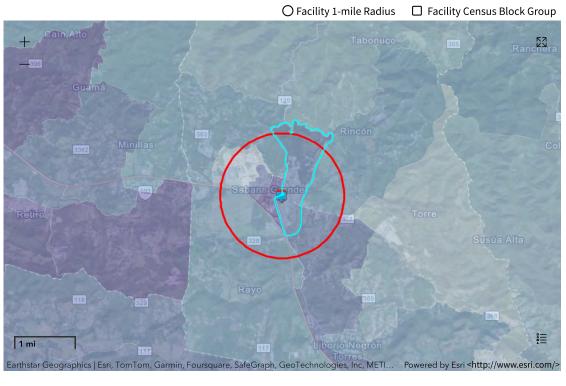
EJScreen Indexes Shown



Related Reports

EJScreen Community Report





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)	
Total Persons	8,466
Population Density	2,655/sq.mi.
Housing Units in Area	3,774
General Statistics (ACS (American Community Survey))	
Total Persons	8,661
Percent People of Color	100%
Households in Area	2,622
Households on Public Assistance	186
Persons With Low Income	6,247
Percent With Low Income	72%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.07706
Center Longitude	-66.95884
Land Area	100%
Water Area	0%
Income Breakdown (ACS (American Community Survey)) - H	ouseholds (%)
Less than \$15,000	1,035 (39.5%)
\$15,000 - \$25,000	474 (18.09%)
\$25,000 - \$50,000	627 (23.93%)
\$50,000 - \$75,000	324 (12.37%)
Greater than \$75,000	160 (6.11%)

Age Breakdown (U.S. Census) - Persons (%)					
Children 5 years and younger	565 (7%)				
Minors 17 years and younger	2,145 (25%)				
Adults 18 years and older	6,321 (75%)				
Seniors 65 years and older	1,578 (19%)				
Seniors 65 years and older	1,578 (19%)				

Race Breakdown (U.S. Census) - Persons (%)			
White	7,456 (88%)		
African-American	428 (5%)		
Hispanic-Origin	8,425 (100%)		
Asian/Pacific Islander	8 (0%)		
American Indian	46 (1%)		
Other/Multiracial	529 (6%)		

Education Level (Persons 25 & older) (ACS (American Communit	y Survey)) - Persons (%)
Less than 9th Grade	824 (14.24%)
9th through 12th Grade	399 (6.9%)
High School Diploma	1,856 (32.08%)
Some College/2-year	529 (9.14%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1.541 (26.63%)

Appendix D Endangered Species



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.

Puerto Rico Department of Housing (PRDOH) certifies the following project, **Coliseo Angel Mercado(PR-CRP-000745)**, consisting of the demolition of the existing structure except the steel frame and construction of the new Municipal Coliseum will be built in this structure. It will have capacity for six hundred seats, dressing rooms for both teams, an area for referees, radio transmission booth, and a first aid medical services area. It will have an area where a boxing ring that can also be used as a stage for community events. It will have an outdoor open space to offer aerobic and Zumba classes. The upper floor will be used for Table Tennis. It will have a storage area for visitors and a parking area. The project located at State Road PR-121, Ave. Quilichini, Sabana Grande, PR 00637, coordinates 18.072633, -66.959490; complies with:

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

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

Ángel G. López-Guzmán Deputy Director

Permits and Environmental Compliance Division

Office of Disaster Recovery

Address: P.O. Box 21365 San Juan, PR 00928 Telephone and Ext: 787-274-2527 ext. 4320 Email: environmentcdbg@vivienda.pr.gov Feb. 7,2024

Date

Attachment 1

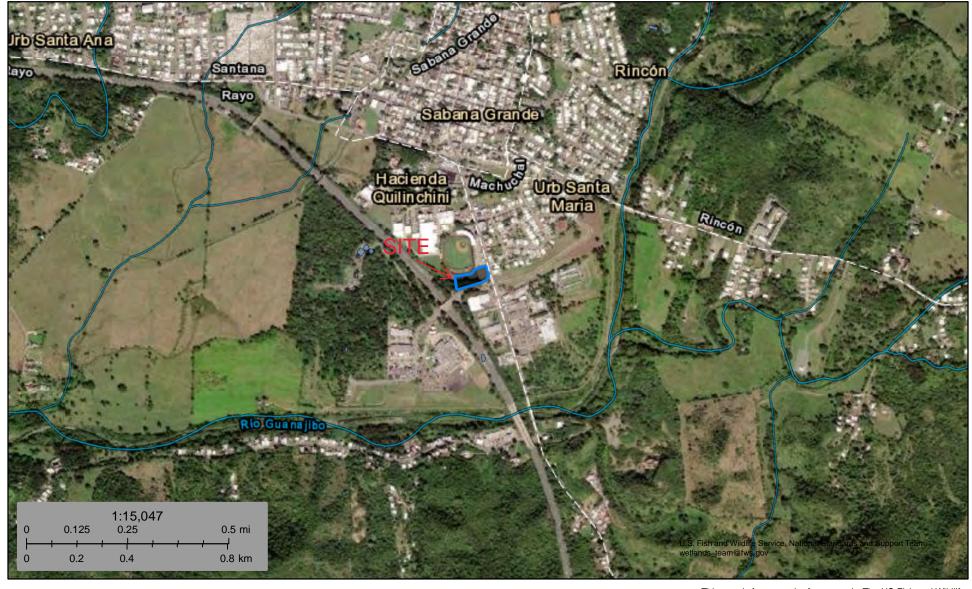
Location Map
Critical Habitat Map
Wetlands Map



Sabana Grande, PR 00627

1,160

PR-CRP-000745 Coliseo Angel Mercado



December 28, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

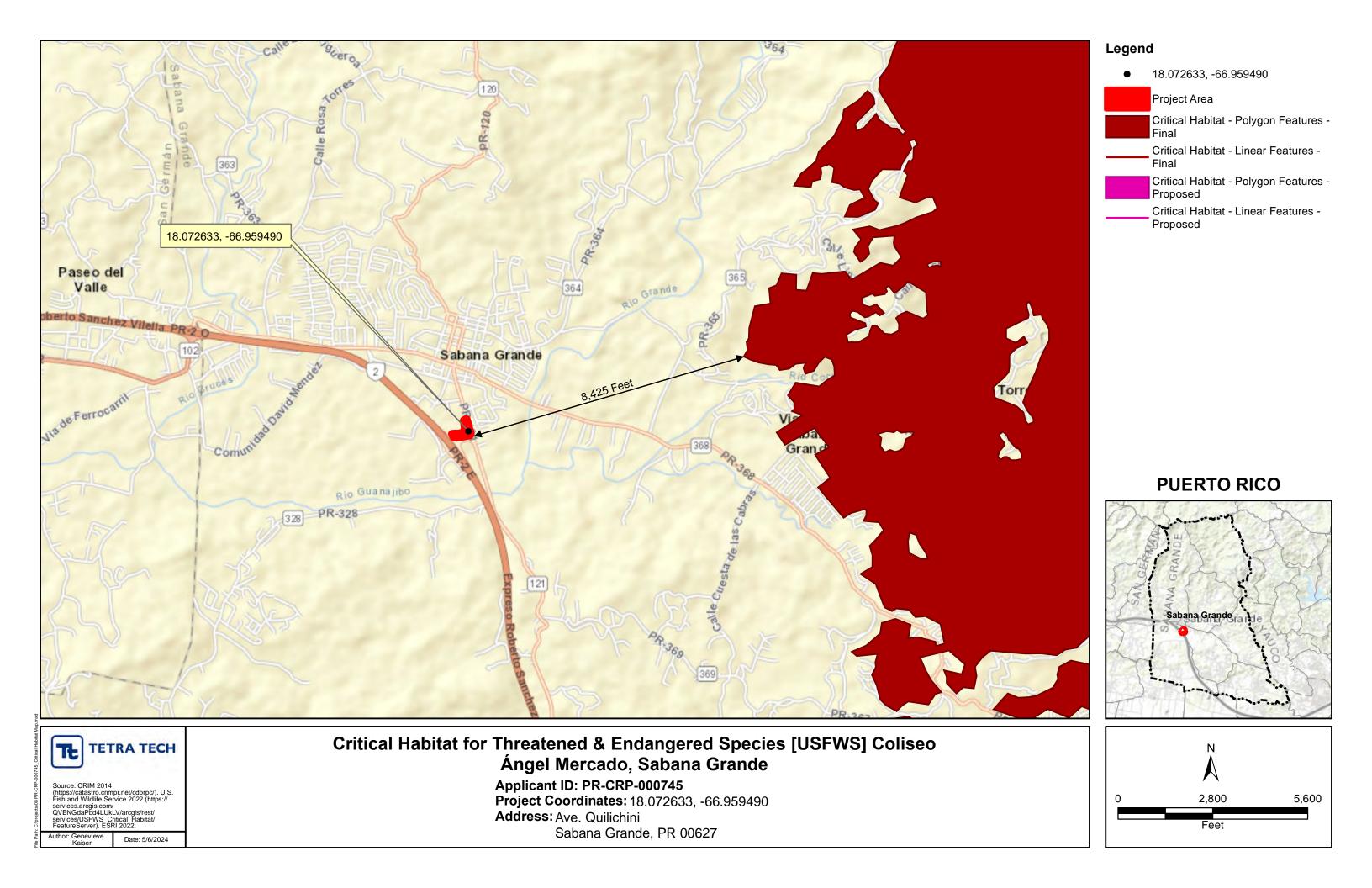
Freshwater Forested/Shrub Wetland

Other

Lake

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Attachment 2

IPaC Report

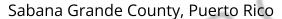
IPaC

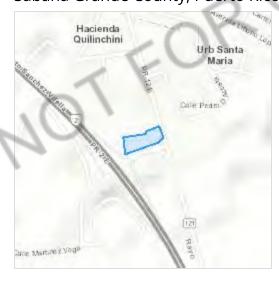
IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location





Local office

Caribbean Ecological Services Field Office

- **\((787) 834-1600**
- (787) 851-7440
- CARIBBEAN ES@FWS.GOV

NOT FOR CONSULTATIO

MAILING ADDRESS

Post Office Box 491 Boqueron, PR 00622-0491

PHYSICAL ADDRESS

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

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

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

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

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

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

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

Reptiles

NAME STATUS

Puerto Rican Boa Chilabothrus inornatus

Endangered

Wherever found

No critical habitat has been designated for this species.

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

Critical habitats

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

There are no critical habitats at this location.

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

Bald & Golden Eagles

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

Additional information can be found using the following links:

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

Supplemental Information for Migratory Birds and Eagles in IPaC
 https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

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

The potential for eagle presence is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply). To see a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

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

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

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

What if I have eagles on my list?

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

Migratory birds

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

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

1. The Migratory Birds Treaty Act of 1918.

2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds
 https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

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

There may be migratory birds in your project area, but we don �� thave any survey data available to provide further direction. For additional information, please refer to the links above for recommendations to minimize impacts to migratory birds or contact your local FWS office.

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

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

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

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

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

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the <u>RAIL Tool</u> and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> 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 <u>Northeast Ocean Data Portal</u>. 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 <u>NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.</u>

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

What if I have eagles on my list?

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

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

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

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

This location did not intersect any wetlands mapped by NWI.

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

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

MOT FOR CONSULTATIO

Attachment 3

Conservation Measures

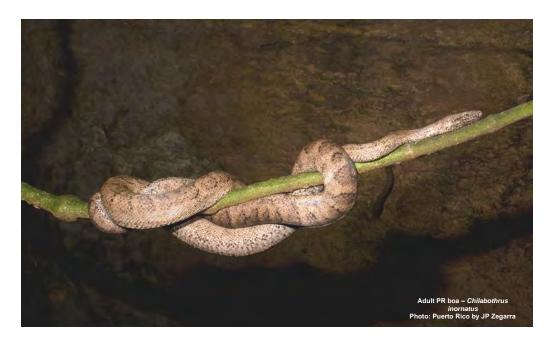


U.S. FISH AND WILDLIFE SERVICE CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

Conservation Measures for the Puerto Rican boa (*Chilabothrus inornatus*)

Section 7 (a)(1) of the Endangered Species Act (ESA) charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies, through consultation with the U.S. Fish and Wildlife Service (Service), to ensure their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats. Section 7 applies to the management of Federal lands as well as Federal actions that may affect listed species, such as Federal approval of private activities through the issuance of Federal funding, permits, licenses, or other actions. Any person that injures, captures, or kills a Puerto Rico boa is subject to penalties under the ESA. If Federal funds or permits are needed, the funding or permitting agency should initiate Section 7 consultation with the Service. To initiate a consultation under the Section 7 of the ESA, you must submit a project package with the established minimum requirements. These conservation measures should be incorporated into the project plans to minimize possible impacts to the species.

The endangered Puerto Rican (PR) boa (*Chilabothrus inornatus*, formerly *Epicrates inornatus*) is the largest endemic snake species that inhabits Puerto Rico. The PR boa is non-venomous and does not pose any life threatening danger to humans, but some individuals may try to bite if disturbed or during capture or handling. Its body color ranges from tan to dark brown with irregular diffuse marking on the dorsum, but some individuals lack marking and are uniformly dark. Juveniles may have a reddish color with more pronounced markings. In general, as they mature, their body color tends to darken.



The Puerto Rican boa was federally listed in 1970. Currently, the species has an island-wide distribution and occurs in a wide variety of habitat types ranging from wet montane to subtropical dry forest and can be found from mature forest to areas with different degrees of human disturbance like roadsides or houses, especially if near their habitat in rural areas. This boa is considered mostly nocturnal, remaining less active, concealed or basking under the sun during the day.

The Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the PR boa and its habitat. These recommendations may be incorporated into new project plans and under certain circumstances into existing projects. Depending on the project, additional conservation measures can be implemented besides the ones presented in this document.

Conservation Measures:

- 1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational poster or sign with photo or illustration of the species should be displayed at the project site.
- 2. Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas.
- 3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area.
- 4. The PR boa is considered more active at night. Thus, in order to maximize its detection, the species should be searched at nights prior to habitat disturbance.
- 5. Once the area has been searched for PR boas, vegetation should first be cleared by hand to the maximum extent possible. Vegetation should be cut about one meter above ground prior to the use of heavy machinery for land clearing. Cutting vegetation by hand will allow boas present on site to move away on their own to adjacent available habitat. Any stone walls or naturally occurring rock piles must be carefully dismantled by hand as these are refuges for the snake. This will allow any boas present to vacate the site without injury.
- 6. For all boa sightings (dead or alive), record the time and date of the sighting and the specific location where it was found. PR boa data should also include a photo of the animal (dead or alive), site GPS coordinates, the time and date, and comments on how the animal was detected and its behavior.

- 7. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #6). **Do not capture the boa.** If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: (787) 724-5700, (787) 230-5550, (787) 771-1124). If immediate relocation is not an option, project-related activities at this area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue.
- 8. If a PR boa is captured by the PRDNER, record the name of the PRDNER staff and information on where the PR boa will be taken. This information should be reported to the Service.
- 9. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal (see #7). If not possible, the animal should be left alone until it leaves the vehicle on its own.
- 10. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.
- 11. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #6). If the PR boa was accidentally? killed as part of the project actions, please include information on what conservation measures had been implemented and what actions that will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.
- 12. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.

If you have any questions regarding the above conservation measures, please contact the Service:

- José Cruz-Burgos, Endangered Species Coordinator
 - o Email: jose cruz-burgos@fws.gov
 - o Office phone (305) 304-1386
- Jan Zegarra, Fish and Wildlife Biologist
 - o Email: jan zegarra@fws.gov
 - o Office phone (786) 933-1451

Appendix E Floodplain Management

EXECUTIVE ORDER 11988 – FLOODPLAIN MANAGEMENT EIGHT-STEP PROCESS U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT COMMUNITY DEVELOPMENT BLOCK GRANT – DISASTER RELIEF (CDBG-DR) PROGRAM

FLOODPLAIN MANAGEMENT 8-STEP DECISION-MAKING PROCESS

Project: "Coliseo Ángel Mercado", Municipality of Sabana Grande, Puerto Rico Project No. PR-CRP-000866, Grant No. B-18-DM-72-0001, B-18-DP-72-0001 Decision Process for Executive Order 11988 as Provided by 24 CFR §55.20

Step 1: Determine whether the action is located in a Floodplain or Wetland.

The proposed project, PR-CRP-000866, is located at PR-121 Road, Quilichini Avenue, Sabana Grande, PR 00637; coordinates 18.072633, -66.959490. The proposed activity is situated in in a combined flood zone X and zone A with dimensions of 0.26 acres. The objective of the project consists in the demolition of the existing structure except the steel frame. The new Municipal Coliseum will be built in this structure. It will have capacity for six hundred seats, dressing rooms for both teams, an area for referees, radio transmission booth, and a first aid medical service area. Also, it will have an area with a boxing ring, that can also be used as a stage for events, such as school graduations and will have an outdoor open space to offer aerobic and Zumba classes. The upper floor will be used for table tennis. Finally, it will have a storage area for visitors and a parking area. There will not be acquisition of private land and no new construction on previously undisturbed areas addressed by this notice.

The floodplains in the project area can be found at Flood Insurance Rate Map (FIRM) 72000C1580J, revised on November 18, 2009, as indicated on the FEMA Flood Map Service Center at https://msc.fema.gov/portal/home.

The project is not located directly adjacent to an estuarine wetland. The wetland in the project area can be found at National Wetlands Inventory at https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/.

Refer to Attachment 1 for FIRMette, ABFE Map and Wetland Map.

This analysis will consider impacts to the floodplain along with concerns for loss of life or property; if applicable.

Step 2: Notify the public for early review of the proposal and involve the affected and interested public in the decision-making process.

A public notice describing the project was published in the "Primera Hora" newspaper of Puerto Rico on September 1st, 2023. The notice targeted local residents, including those in the floodplain. The notice was also sent to interested Federal, and State agencies to be interested in such notices. The required fifteen (15) calendar days were allowed for public comment. As required by regulation, the notice also included the name, proposed location and description of the activity, total number of floodplain acres involved, and the responsible entity contact for information as well as a website and the location and hours of the office at which a full description of the proposed action can be viewed. No comments were received. No opposition to the proposed project was expressed by the commentators. Attachment 2 includes copy of the public notice.

Step 3: Identify and evaluate practicable alternatives.

The Municipality of Sabana Grande have considered the following alternatives: Alternative 1: Locate the Project Within the Floodplain. – The proposed action is according to zoning. Besides, the proposed project will not exceed the existing developed footprint and will maintain the present use of the facility. The proponent considers that the project most likely will not have a significant impact on the actual runoff water behavior during weather events.

Alternative 2: Locate the Project Outside of the Floodplain. - The Municipality of Sabana Grande did not identify an alternative site to develop the proposed project, because the main purpose of the project is to provide sport and recreational alternatives to residents of this community.

Alternative 3: No action taken. - The proposed project will not be developed, and the facility will not be enhanced.

Step 4: Identify Potential Direct and Indirect Impacts of Associated with Floodplain Development.

The Municipality of Sabana Grande selected Alternative 1 because the needed traffic and sidewalk improvements. The proposed project will also provide recreational alternatives to low- and moderate-income communities surrounding the area. Alternative 1 will have no impact to the floodplain. The city of Sabana Grande is a member of the National Flood Insurance Program and structures located in the flood zone must comply with the PR flood regulations. The design and installation of a storm water management system will also minimize potential damage to the property as a result of the flooding. No wetlands will be affected.

Construction debris will be collected and disposed at a certified dump site or other authorized facility to manage wastes. Project activities will not impact wetlands. The proposed project will be connected to the existing infrastructure systems, minimize adverse impacts on the environment and will help preserve the present functions and values like water quality, erosion control and flora & fauna habitat in the facility.

Step 5: Mitigate Adverse Impacts

It is the Municipality of Sabana Grande determination that there is no practicable alternative for locating the project outside the flood zone.

The highest priority of this review is to prevent the loss of life. No loss of life will be generated as part of the proposed actions. On the contrary, the proposed works would not only generate a positive impact to the actual floodplain in benefit of the community and the people's life.

In order to preserve property, flood insurance will also be acquired and maintained in order to mitigate flood damage.

The site design chosen as an alternative 1 at Step 3 reduced floodplain impacts and prevented new construction from occurring in the floodplain considering provisions for draining. The construction will have minimal effects on water resources. Impacts to the floodplain will also be limited due to construction occurring within the previously developed site.

Step 6: Re-Evaluate Alternatives

It is the Municipality of Sabana Grande determination that there is no practicable alternative for locating the project outside the flood zone. This is due to:

- 1) The need to provide recreational and sport activities within the community.
- 2) Procure to not displace residents from their community.
- 3) The ability to mitigate and minimize impacts on human health, public property, and floodplain values.
- 4) The People of Puerto Rico and the Municipality of Sabana Grande are the owners of the proposed project site. No additional cost due to land acquisition will be incurred upon nor will ownership issues needed to be solved.
- 5) The proposed project, as designed, will have minimal adverse impacts on the floodplain functions and values.
- 6) The proposed project will improve existing site's conditions, and infrastructure.

- 7) The proposed project will enhance current recreational and outdoor sports options for the people of Sabana Grande.
- 8) The proposed project will help to prevent further deterioration of the site and to improve traffic safety.
- 9) The proposed site is expected to improve the accessibility of visitors to the City of Sabana Grande.

Step 7: Determination of No Practicable Alternative

PRDOH determined that there is no practicable alternative for locating the project in the flood zone. The notice will explain the reasons why the project must be located in the floodplain, the alternatives considered at Steps 3 and 6, and describe impacts and mitigation measures at Steps 4 and 5 to be taken to minimize adverse impacts and preserve natural and beneficial floodplain values. The draft Final Notice is included in Attachment 3.

Step 8: Implement the Proposed Action

The Municipality of Sabana Grande will assure that this project as described above, is appropriately executed and necessary language will be included in all agreements with participating parties. The Municipality of Sabana Grande will also take an active role in monitoring the construction process to ensure no unnecessary impacts occur nor unnecessary risks are taken. The flood insurance requirement for the life any insurable property will maintained by the Municipality of Sabana Grande.

Attachment 1

Maps

Figure 5. National Flood Hazard Layer FIRMette



Legend SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD **HAZARD AREAS** Regulatory Floodway 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 OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

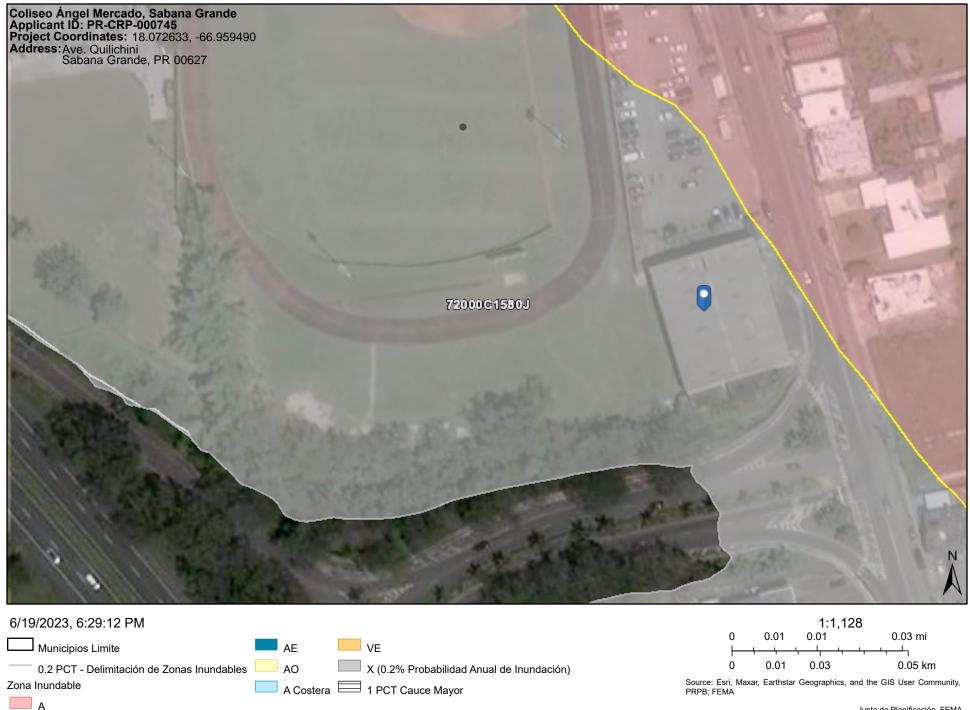
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/31/2022 at 5:59 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Mapa Niveles de Inundación Base Recomendados



Attachment 2

Step 2 Early Notice and Public Review of a Proposed

Activity in the 100-Year Floodplain





aviso público

Aviso Preliminar y Revisión Pública de una Actividad Propuesta en una Llanura Aluvial de 100 años

Coliseo Ángel Mercado PR-CRP-000745

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 y B-18-DP-72-0001, está ubicado en una llanura de inundación de 100 años. Vivienda estará evaluando e identificando alternativas viables para realizar la acción propuesta y el impacto potencial en la llanura de inundación 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-000745, se encuentra dentro de un município que sufrió daños debido a los huracanes Irma y Maria, y está localizado en la carretera PR-121, Ave. Quilichini, Sabana Grande, PR 00637; coordenadas 18.072633, -66.959490. La actividad propuesta está situada en una llanura aluvíal combinadas, zona X y zona A con una cabida de 0.26 acres. El área del proyecto se encuentra en el Flood Insurance Rate Map (FIRM) 72000C1580J. revisado el 18 de noviembre de 2009, según indicado en la página del Centro de Servicios de Mapas de Inundaciones en https://msc.fema.gov/portal/home.

El objetivo del proyecto consiste en la demolición de la estructura existente excepto el marco de acero. El nuevo Coliseo Municipal se construirá en esta estructura. Tendrá capacidad para seiscientos asientos, vestuarios para ambos equipos, un área para árbitros, cabina de transmisión de radio y un área de servicios médicos de primeros auxilios. Además, contará con un área con un cuadrilátero, que también se utilizará como escenario para eventos, como graduaciones escolares y tendrá un espacio abierto al aire libre para ofrecer clases de ejercicios aeróbicos y zumba. El piso superior se utilizará para tenis de mesa. Finalmente, contará con un área de almacenaje para visitantes y un área de estacionamiento. No habrá nuevas construcciones en áreas no perturbadas.

Este aviso tiene tres propósitos principales. En primer lugar, las personas que puedan verse afectadas por las actividades en las llanuras aluviales y las 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 de las llanuras aluviales, 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 las llanuras aluviales 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 las llanuras aluviales, 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 Septiembre 16, 2023. 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: Ivelisse Lorenzo-Torres, 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. 6654. Como alternativa, también pueden enviar los comentarios a Vivienda por medio electrónico a environmentcdbq@vivienda.pr.gov.

Fecha: 1 de septiembre de 2023









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

> Coliseum Ángel Mercado PR-CRP-000745

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 action under the PRDOH Community Development Block Grant - Disaster Recovery (CDBG-DR), City Revitalization Program, Grant number B-17-DM-72-0001& B-18-DP-72-0001, is located in the 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 action, 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 Protection of Wetlands. The proposed project, PR-CRP-000745, is within a municipality with structures damaged by Hurricanes Irma and María and it is located at PR-121 Road. Quilichini Avenue, Sabana Grande, PR 00637; coordinates 18.072633, -66.959490. The proposed activity is situated in a combined flood zone X and zone A with dimensions of 0.26 acres. The floodplains in the project area can be found at Flood Insurance Rate Map (FIRM) 72000C1580J, revised on November 18, 2009, as indicated on the FEMA Flood Map Service Center at https://msc.fema.gov/portal/home.

The objective of the project consists in the demolition of the existing structure except the steel frame. The new Municipal Coliseum will be built in this structure. It will have capacity for six hundred seats, dressing rooms for both teams, an area for referees, radio transmission booth, and a first aid medical service area. Also, it will have an area with a boxing ring, that can also be used as a stage for events, such as school graduations and will have an outdoor open space to offer aerobic and Zumba classes. The upper floor will be used for table tennis. Finally, it will have a storage area for visitors and a parking area.

There are three primary purposes for this notice. First, people who may be affected by activities in floodplains 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 floodplains, 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 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 floodplains, it must inform those who may be put at greater or continued risk

PRDOH will consider all comments received on or before September 16, 2023 Written comments can be sent to the following address: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Building, Río Piedras, PR 00918-8461, Attention: Ivelisse Lorenzo-Torres, 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 Building, Río Piedras, PR 00918. The number to get information is (787)274-2527 ext. 6654. In the alternative, comments may also be sent to PRDOH by email at environmentcdbg@vivienda.pr.gov.

Date: September 1, 2023



presente edicto, podrán solicitar | MR-18535 ESTADO LIBRE comparecer al Tribunal a alegar ASOCIADO DE PUERTO RICO lo que en derecho proceda. Oet- FIBLUNAL DE PRIMERA IN-erá presentar su alegación responsiva a través del Sistema Unificado de manejo y Administración de Casos (SUMAC), el cual puede acceder utilizando la siguiente dirección electronicas hups://inbunalelectronico.ramaju https://tribunalelectronico.ramaju dicial.pr, salvo que se repres-ente por derecho propio, en cuyo caso deberá presentar su alegación responsiva en la Sec-retaria del Tribunal, notificando copia de la misma al abogado retaria del Trigunal, notricando copia de la misma al abogado de la parte Peticionaria y al LCDO JOSE V DIAZ TEJERA, al P.O. BOX 423, TRIUJILLO ALTO PRO 0977:, y su email es diaz tejera, lawlimi@yahoo.com 787-755-3440. Se le apercibe que, de no contestar la PETI-CION dentro del termino aqui estipulado, se le anotará la rebelidía y se dictará sontencia sin más citarte ni ofrie. Expedido, bajo mí firma y sello del Tribunal de Primera Instando. Sata de Carolina, Puerto Rico, horiela de Carolina, Puerto Rico, horiela de Secretario Roya Robles Secretaria Regional Secretario (a) Genal Por Marticruz Aponte Alicea Secretario (a) Auxiliar

MR-18536

ACREEDORES DE **HUMBERTO JORGE** UGOBONO ALÉ INVENTARIO EN SEDE NOTARIAL

ESTADOS UNIDOS DE AMERICA) EL PRESIDENTE DE LOS ESTADOS UNIDOS) SS: ESTADOS DE CAUSANTE HUMBERTO JORGE UGOBONO ALÉ POR LA PRESENTE, se los notifica que se ha iniciado la preparación del inventario en preparación del inventario en les notifica que se ha iniciado la preparación del inventario en sede notarial del caudal relicto del causante Humberto Jorge Ugobono Alé. Se les requiere que toda reclamación, junto a sus correspondientes comprobantes bajo juramento, sea presentada y dirigida a los peti-cionarios por conducto de su abogado a la siguiente dirección y dentro del plazo de treinta (30) días contados desde la publicación del presente edicto: LCDO. GERARDO BOSOUES HERNANDEZ Universidad In-teramericana Facultad de Derecho PO Box 70351 San Juan, PR, 00936-8351 Tel. (787) 223-0473 Email: bosquesh-ernandezg@gmail.com Se advierte que, de no responder a este Aviso, los procedimientos para la formación y liquidación del caudal del causante continuarán sin más citarle ni

SS-18488 SUMMONS BY PUB-LICATION, CARE AND PRO-TECTION, TERMINATION OF PARENTAL RIGHTS, Docket Number: 22CP0185FI, TIG Courl of Massachusetts, Juven-lie Court Department, Common-we all h of Massachusetts, Vorceste County Juvenile Court, 100 Bim Banet, Filothourg, MA 01420, 378-045-7620.

TO: Carlos Javier Mendez Rodriguez

Mendez Rodriguez

A petition has been presented to this court by DCF (Leominstor), seeking, as to the following child: Valeishka Y, Mendez Grade, the seek of the following child: Valeishka Y, Mendez Grade, the seek of the following child: Valeishka Y, Mendez Grade, the seek of the following child: Valeishka Y, Mendez Grade, the seek of the following the following and committed to the Department of Children and Senditer and herein to receive notice of or to consent to any legal proceeding affecting the adoption, custody, or guardianship or any ofter disposition of the child named herein, if it finds that the child is in need of care and protection and that the best interests of the disposition. You are hereby ORDERED to appear in this court, at the court address set lorth above, on the following date and time: 10/11/2023 at 10rth above, on the following d

VS. EXPARTE

VS.
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VATATE
CIVIL NUM. GB2023CV00393
SALA 605 SOBRE EXPEDIENTE DE DOMINIO EMENTE DE DOMINIO EMENTE DE DOMINIO EMENTE DE DOMINIO EMENTE DE LOS
ESTADOS UNIDOS DE AMERIICA) EL ESTADO LIBRE
ASOCIADO DE PUERTO RICO.
A AVISO A CUALOUIER PERSONA CON INTERES, O PERSONAS DESCONOCIDAS
JOHN DOE, JANE DOE
RICHARD ROE. POr la presente
ae le emplaza y notifica que la
parte pelsicinaria MIGUEL ANGEL BAEZ, and
US.
VEL BAEZ BAEZ, ho

resentado una Petición para
que se declare a su favor a

que se declare a su favor a

conscribe de la explementa. outer se declare a su fayor a lominio de la siguiente finca. RUSTICA: SOLAR NUMERO SI-ETE (7) Perdio de terreno sin-ado en el Barrio Mamey del formio Municipal de Guaynabo, Puerto Rico, con un área super-licid de TRESCIENTOS CUAR-ENTA Y OCHO PUNTO SIETE SIETE TRES CUATRO MET-ROS CUADRADOS (348.734 m.c.) equivalentes a cero punto cero ocho nueve siete cuerdas dos hectáreas, catorce ateas y verintuna centráreas. En colind-ancias: por el NORTE, con Calle Municipal Flamboyán, por el Municipal Flamboyán, por el veintuna centiáreas. En colindanolas: por el NORTE, con Calle
Municipal Flamboyán; por el
SUR con Michelle Garoia Rosado y Yomaris Báez; por el
ESTE, con el Solar Número
Ocho (8): y por el DESTE; con el
Solar Número
Solar Número Seis (6). No consta inscrita en el Registro de la
Propiedad. Catastro Número
171-001-940-72-000 Este adicto
se publicara en tres (3) ocasiones dentro del termino de
veinte (20) días en un periodico
de circulación general diaria en
Puerto Rico. En el plazo y
termino de veinte (20) días punto el
presente edicto, podrán solicitar
comparecer al Tribunal a alegar
lo que en derecho proceda. Derá presentar su alegación responsiva a través del Sistema
comparecer al Tribunal a alegar
lo que en derecho proceda. Deceder utilizando la siguiente
dirección el ecitonica:
https://fibianalelectronico.ramaju
dicial pr. salvo que se represente por derecho procio. dirección electronica:
https://mbunalelectronico.ramaju
dicial.pr. salvo que se represente por derecho propio, en
cuyo caso deberá presentar socupia de misma al abogado
de la parte Peticionaria y RA
cupia de la parte Peticionaria y RA
di P.O BOX 423. TRUILLO
ALTO PR 00977; iy su email es
diaz Lelera lawilm@yahoo.com
787-755-3440. Se le apercibe
que, de no contestar la PETICION dentro del termino aqui
estipuitado, se le anotará la
rebeldia y se dictará sentencia
sin más citaría ni oirle. Expedido, bajo mi firma y sello del
Tribunal de Primera Instancia
Sala de Bayamón, Puerto Rico,
hoy 17 de julio de 2023 LCOA.
LAURA I. SANCHEZ
Secretario/Seneral Po Nélida

ASOCIADO DE PUERTO RIGO TRIBUNAL DE PRIMERA IN-STANCIA SALA DE BAYAMÓN

Secretario(a) General Por Nélida Ocasio Ortega Secretario(a) Auxiliar del Tribunal I

FIRSTBANK **PUERTO RICO**

SUCESIÓN DE **EVELYN MARTÍNEZ** DÍAZ, COMPUESTA POR HECTOR MANUEL MARTÍNEZ MALDONADO T/C/C HECTOR MANUEL MARTÍNEZ T/Ç/C **HÉCTOR MARTÍNEZ** MALDONADO Y EFRAÍN MARRERO VIDAL; ALEXANDRO RODRÍGUEZ RAMOS

Parte Demandada CIVIL NUM, TA2022CV00656 EDICTO DE SUBASTA ESTA-DOS UNIDOS DE AMERICA) EL PRESIDENTE DE LOS E.E.U.U.) EL ESTADO LIBRE

Attachment 3

Step 7 Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain and Wetland



30 dias contados a partir de la publicación por edicito de esta notificación, drigo a uste de esta notificación, drigo a uste desta notificación que se considerará hecha en la fecha de la publicación de este edicto. Copia de esta notificación ha sido archivada en los autos de este caso, con recha de al de DI-CIEMBRE de 2023 GINISELIDA GODRIGUEZ COLLADO NOmbre del (de la) Secretario(a) IVERONICA AGOSTO NUNES CONTROLOS DE CONTROLOS

MR-19547 ESTADO LÍBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA IN-STANCIA SALA MUNICIPAL DE BAYAMON

PLANADAS LLC. VS.

Llama a Clasificados de **EL VOCERO** 787-724 -1485

THUNDER LENDOR
MERCADO, ALEXANMERCADO, ALEXANDRA SOLIS MARTINEZ, LA SOCIEDAD
LEGAL DE GANANCIALES COMPUESTA
POR ELLOS Y/O CUALOUIER OCUPANTE
DESCONDOIDO
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CIVIL ESCONDO



aviso público

Aviso Final y Explicación Pública de una Actividad Propuesta en un Valle inundable de 100 Años y 500 Años

Coliseo Ángel Mercado PR-CRP-000745

Para: Todas las partes interesadas, grupos e individuos

Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (Vivienda) 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), números de subvención B-17-DM-72-0001 y B-18-DP-72-0001. El proyecto propuesto, PR-CRP-000745, está localizado en la carretera PR-121, ave. Quillichini, Sabana Grande, PR 00637, coordenadas 18.072633, -66 959490. El objetivo del proyecto consiste en la demolición de la estructura existente excepto el marco de acero. El nuevo Coliseo Municipal se construirá en esta estructura. Tendrá capacidad para seiscientos asientos, vestuarios para ambos equipos, un área para árbitros, cabina de transmisión de radio y un área de servicios médicos de primeros auxilios. Además, contará con un área con un cuadrilátero, que también se utilizará como escenario para eventos como graduaciones escolares y tendrà un espacio al aire libre para ofrecer clases de ejercicios aeróbicos y zumba. El piso superior se utilizarà para tenis de mesa. Finalmente, contarà con un area de almacenaje para visitantes y un area de estacionamiento. La actividad propuesta está situada en un tipo de zona de inundación diversa con una cabida de 0.26 acres. El área del proyecto está parcialmente ubicada en un valle inundable de 100 años, zona de inundación Ay ubicado en un valle inundable de 500 años, zona X. El área del proyecto se encuentra en el mapa de níveles 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 || Hub (arcgis.com)

Vivienda ha considerado las siguientes alternativas y medidas de mitigación para minimizar los impactos adversos y restaurar y presenvar los valores naturales y beneficiosos: (i) ubicar el proyecto dentro del valle inundable de acuerdo con la zonificación, (2) ubicar el proyecto fuera del valle inundable, y (3) no tomar ninguna acción. La alternativa I se considera una opción viable ya que no excederá la huella desarrollada existente y mantendrá el uso actual del área. El proponente considera que el proyecto no tendrá un impacto significativo en el comportamiento del aqua de escorrentía durante eventos climáticos. Las alternativas (2) y (3) no son factibles ya que la construcción necesaria para reemplazar las instalaciones recreativas y deportivas para la comunidad es específica del sitio. El terreno del proyecto se encuentra dentro del área urbana poblada. Las emisiones fugitivas serán controladas durante la construcción del proyecto. El uso propuesto está en armonía con el area de desarrollo circundante.

Vivienda reevaluó las alternativas para construir en los valles inundables y determinó que no cuenta con alternativas practicas. 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 parrafo sobre recibo de comentarios de este aviso.

Este aviso tiene tres propósitos principales. Primero, las personas que pueden verse afectadas por actividades en los valles inundables 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 los valles inundables, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o similar

Vivienda considerará todos los comentarios recibidos en o antes del 22 de diciembre de 2023. Pueden enviar los comentarios de forma impresa a la siguiente dirección: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Davila, 606 avenida Barbosa, Río Piedras, PR 00918-8461, Atención: Ivelisse Lorenzo-Torres, Especialista en Permisos y Cumplimiento Ambiental. Una descripción completa del proyecto esta disponible al público para revisión de 830 a, m. a 400 p, m. en el Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Rio 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 environmentodo @vivienda.or.gov.

Fecha: 7 de diciembre de 2023

colm Lcdo. William O, Rodriguez Rodriguez Secretario del Departamento de la Vivienda





public notice

Final Notice and Public Explanation of a Proposed Activity in a 100-Year and 500-Year Floodplain

Coliseo Ángel Mercado PR-CRP-000745

To: All Interested Parties, Groups, and Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has conducted an evaluation as required by the This is to give notice that the Puetro Hico Department of Housing (PHD-H) has conducted an evaluation as required by the Executive Order 1988, in accordance with HIDD regulations set forth in 24 CFR 5520 Subpart C - Procedures for Making Determinations on Floodplain Management and Wetlands Protection. The activity is funded under the Community Development Block Grant - Disaster Recovery (CDBG-DR), City Revitalization Program, grant numbers B-17-DM-72-0001 and B-18-DP-72-0001. The proposed project, PR-CRP-000745, is located by PR-12I Road, Quilichini Avenue, Sabana Grande, PR 00637, coordinates 18.072633, -66.959490. The objective of the project consists in the demolition of the existing structure except the steel frame. The new Municipal Coliseum will be built in this structure, it will have capacity for six hundred seats, dressing rooms for both teams, an area for referees, radio transmission booth, and a first aid medical service area. Also, it will have an area with a boxing ring, that can also be used as a stage for events, such as school graduations and will have an nave an area with a boxing ring, that can also be used as a stage for events, such as School graduations and will have a outdoor open space to offer aerobic and Zumba classes. The upper floor will be used for table tennis. Finally, it will have a storage area for Visitors and a parking area. The proposed activity is situated in a diverse flood zone type with total dimensions of 0.26 acres. The project area is partially located in a 100-year floodplain, flood zone A and located in a 500-year floodplain; zone X. The floodplains in the project area can be found at Advisory Base Flood Elevation (ABFE), as indicated on the FBMA Puerto Rico Advisory Base Flood Elevation at Puerto Rico Advisory Base Flood Elevations (ABFES) [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 according to zoning, (2) locate the project outside of the floodplain, and (3) take no action, Alternative 1 is considered a viable option since it will not exceed the existing developed footprint and will maintain the present use of the area. The proponent considers that the project will not have a significant impact on the actual runoff water behavior during weather events. Alternatives [2] and [3] are not feasible since the needed construction for replacement of recreational and sport facility for the community is site specific. The project land lies within the populated urban area. Fugitive emissions will be controlled during the construction of the project. The proposed use is in harmony with the surrounding developments area.

PRDOH has reevaluated the alternatives to building in the floodplains and has determined that it has no practicable alternative. Environmental files that document compliance with steps 3 through 6 of 24 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 floodplains 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 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 floodplains, it must inform those who may be put at greater or continued risk.

PRDOH will consider all comments received on or before December 22, 2023. 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: Ivelisse Lorenzo-Torres, Permits and Environmental Compliance Specialist. A complete description of the project is available to the public for review from 830 a. m. to 4:00 p. m. at the Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Davila Building, Rio 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 to environmentcdbg@vivienda.pr.gov.

Date: December 7, 2023

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





Andrea Curbelo-Marty

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

Sent: Thursday, December 7, 2023 2:57 PM

To: Jose.A.CedenoMaldonado@hud.gov; Mahon, Donna M; Caribbean_es@fws.gov;

Edwin_muniz@fws.gov; 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 – Final Notice and Public Explanation of a Proposed Activity in the 100-Year and 500-

Year Floodplain_PRDOH Case PR-CRP-000745

Attachments: Final Notice_El Vocero_PR-CRP-000745.pdf

Concerned agencies,

Enclosed please find a **Public Notice – Final Notice and Public Explanation of a Proposed Activity in the 100-Year and 500-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 *Coliseo Ángel Mercado* (PR-CRP-000745). The Final Notice was published in the *El Vocero* newspaper of Puerto Rico on December 7, 2023.

Respectfully,

Permits and Environmental Compliance Division

Office of Disaster Recovery

environmentcdbg@vivienda.pr.gov | 787.274.2527

Visit us: www.cdbg-dr.pr.gov



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Andrea Curbelo-Marty

From: Kenneth M. Garcia-De Leon

Sent: Tuesday, December 26, 2023 10:32 AM

To: environmentcdbg

Subject: RE: Comentarios - Aviso Final PR-CRP-000745

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

Visitanos: recuperacion.pr.gov

Contactanos: infocdbg@vivienda.pr.gov



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

Sent: Tuesday, December 26, 2023 9:59 AM

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

Subject: Comentarios - Aviso Final PR-CRP-000745

Saludos Kenneth,

Con respecto a la publicación del Aviso Final y Explicación Pública de una Actividad Propuesta en un valle inundable de 100 años y 500 años (Paso 7) para el proyecto **Coliseo Ángel Mercado (PR-CRP-000745)** ¿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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Appendix F Historic Resources



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

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

January 03, 2024

Lauren Bair Poche

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

SHPO: 12-21-23-02 PUERTO RICO DISASTER RECOVERY, CDBG-DR CITY REVITALIZATION PROGRAM (CRP), PR-CRP-000745, COLISEO ÁNGEL MERCADO PROJECT, SABANA GRANDE, 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.

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 any 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,

Fo Carlos A. Rubio-Cancela

State Historic Preservation Officer

CARC/GMO/LGC



OFICINA ESTATAL DE
CONSERVACIÓN HISTÓRICA
OFICINA DEL GOBERNADOR

STATE HISTORIC
PRESERVATION OFFICE



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,

Juan C Pérez Bofill, P.E. M.Eng Director of Disaster Recovery CDBG DR-MIT



December 21, 2023

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-000745: Coliseo Angel Mercado Project, Sabana Grande, 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 Sabana Grande, we are submitting documentation for the proposed Coliseo Angel Mercado Project in the municipality of Sabana Grande. The project area is south of the National Register of Historic Places eligible Sabana Grande Traditional Urban Center. The proposed project consists of the demolition of the existing building exterior, save for the steel structure and the construction of a new exterior for the building with a different design. The new building will extend out from the current footprint to the west and south. An exterior gym will be relocated to the southwest corner of the building. New pavement, gravel, and sidewalk pavers will be installed around the building. Maximum ground disturbing activities are not anticipated to exceed four feet below the current ground surface.

The full scope of the project is described in detail within the submitted documentation, which includes mapping, photographs, and the 100% 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 (CITY-REV) Section 106 NHPA Effect Determination	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipio de Sabana Grande	•
Project Name: Coliseo Angel Mercado	Project ID: PR-CRP-000745

Project Location: Ave. Quilichini, Sabana Grande PR 00637		
Project Coordinates: 18.072633, -66.959490		
TPID (Número de Catastro): 335-057-068-14		
Type of Undertaking:		
☐ Substantial Repair		
New Construction ■ New Construct		
Construction Date (AH est.): c.1985	Property Size (acres): 0.26 acres	

SOI-Qualified Architect/Architectural Historian: Maria F. Lopez Schmid		
Date Reviewed: August 21, 2023 / September 25, 2023. / December 8, 2023.		
SOI-Qualified Archaeologist: Roberto G. Muñoz-Pando, PhD		
Date Reviewed: August 23, 2023/ September 29, 2023 / December 8, 2023.		

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

Project Description (Undertaking)

The proposed project consists of the rehabilitation of the Coliseo Municipal Ángel Mercado Vega in the Municipality of Sabana Grande. The building (coordinates 18.072633, -66.959490) is located at the urban block limited by Vicente Quilichini Avenue (PR-121 Road) to the east and Martínez Vega Street to the south, and PR-2 expressway to the southwest. The coliseum building is on the recreational complex that includes the Rafael D. Milán Baseball Park to the northwest. The proposed activity is on 0.26 acres and is situated in a combined flood zone X and zone A.

The undertaking for the project consists of the demolition of the existing building exterior, except for the steel frame structure, and the construction of a new building envelope with a different design. The new design extends the existing footprint of the building to the west and south with a curved plan to accommodate the expanded building program. The parking area will be on an existing parking lot north of the coliseum and will be expanded with additional parking spaces to the west of the building. New pavement, gravel, and pavers for sidewalks will be created around the building. An exterior gym with fixed equipment will be relocated to the southwest corner of the building. Maximum ground disturbing activities throughout this project will not exceed 4 feet bellow ground.

The new municipal coliseum will house a basketball court that will have capacity for six hundred seats. The new facilities will include the basketball court on the first level, an entrance lobby area, seating area for spectators, public bathrooms, storage area for visitors, a

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



Subrecipient: Municipio de Sabana Grande

Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745

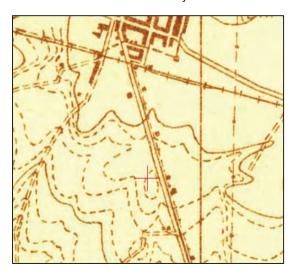
concession booth, offices, locker rooms for both teams with bathrooms, a designated area for referees, a radio transmission booth, and a first aid medical service area. Also, the building will have an area with a boxing ring, that can be used as a stage for events, such as school graduations. The upper level will have space for table tennis games. An outdoor open space can be used to offer Aerobic and Zumba classes.

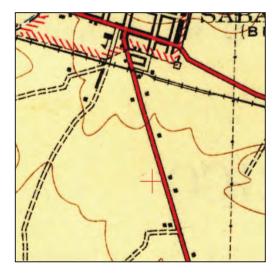
Area of Potential Effects

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 around coordinates 18.072633, -66.959490 and is 0.12 miles wide by 0.11 miles long. The visual APE is the viewshed of the proposed project. The viewshed will include adjacent streets surrounding the property and is 0.15 miles wide by 0.14 miles long. To the north the viewshed ends with the Rafael D. Millán Baseball Park, to the east with the properties on the east side of Avenida Vicente Quilichini, to the west with expressway PR-2, and to the south with the commercial properties south of Martínez Vega Street.

History of Use of the Site

The project site was empty according to the 1937 and the 1941 USGS topographic maps of the area shown below. By this time, Road PR-121 connected the town of Sabana Grande south of town with Road PR-102 which crossed town from east to west. Road PR-121 contained some buildings doted along the road, but around the site itself they existed only on the east side of the road. These maps also show that the railroad laid north of the site and traversed from east to west just south of the center of Sabana Grande at this time.





Figures 1 & 2. Detail of the 1937 and 1941 USGS topographic maps of the area.

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

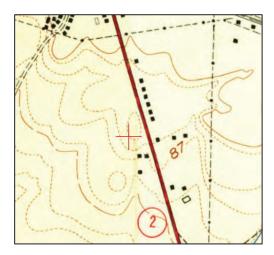


Subrecipient: Municipio de Sabana Grande

Project Name: Coliseo Angel Mercado

Project ID: PR-CRP-000745

During the 1950s the *Tren de Circumvalación* ceased operations and these topographic maps from 1956 and 1966, shown below, do not depict the train tracks. The 1956 topographic map shows that the site is still empty, and more buildings, probably commercial, appear on the east side of PR-121. By 1966, the topographic map shows the Athletic Park racetracks drawn along with a building or spectator stands west of the PR-121 road. A residential subdivision on this 1966 map appears to the east of the PR-121 road expanding the town of Sababa Grande further south.





Figures 3 & 4. Detail of the 1956 and 1966 USGS topographic maps of the area.

The racetracks and a rectangular covered spectator building are present in the 1975 aerial image, shown below left, which is the earliest available for the area so the track can be dated to c1970. There is a faint footprint where the municipal coliseum is located, but the project building is not present on this aerial. The current existing buildings for the Rafael Milán Baseball Park and the Angel Mercado Vega Coliseum appear in the 1993 aerial image, shown below right, but not in the 1975 one. Therefore, the estimated date for the buildings is c1985.





Figures 3 & 4. Detail of the 1975 and 1993 aerial images showing the site.

By 1975 the Expressway PR-2 west of the site, was built along with the bridge and accesses to

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



Subrecipient: Municipio de Sabana Grande

Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745

Sabana Grande located southwest of the site. Judging by the topographic maps and aerial photos available, the first building on the project site is the Angel Mercado Vega Coliseum.

Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area has no previously recorded archaeological resources within a quarter mile radius of the APE.

There has been one cultural resource survey conducted within a quarter mile radius of the APE. The study was conducted in 2002 by Miguel Rodríguez, it was a Phase 1A-1B study called "Corredor del Oeste Conversión a Expreso de la PR-2 entre Mayaguez y Ponce" is located 0.13 miles southwest of the project area, the SHPO and IPRC codes are MY0044 and 08-29-02-02, this study yielded negative results for the presence of archaeological materials.

Considering the previous findings of no archaeological sites within a quarter mile of the project area, the possibility of archaeological findings in the area can be considered low to moderate. There is limited information about the archaeology and prehistory of the municipality of Sabana Grande. The APE seems to be in an already impacted zone by the construction of the Coliseum and the surrounding commercial buildings, making the probability of finding new and intact archaeological sites in the area low.

Identification of Historic Properties - Architecture

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area is **not** within the boundaries of a National Register of Historic Places eligible or listed Traditional Urban Center or Historic District. The Sabana Grande Traditional Urban Center is located 0.25 miles northwest of the building location. Additionally, there are **no** National Register listed properties within the quarter-mile radius from the project. No listed properties will be affected by the renovations from this undertaking.

Building Description

The existing building that houses the Coliseo Municipal Ángel Mercado Vega abuts an urban area south of the town of Sabana Grande. The recreational complex block includes a baseball park and stadium to the northwest, a parking area to the east, the coliseum to the southeast, and green area to the south. This block is surrounded by commercial buildings to

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

Section 106 NHPA Effect Determination



Project Name: Coliseo Angel Mercado



Project ID: PR-CRP-000745

the north, south, and east, an industrial complex for chemical manufacturing to the northwest and the expressway PR-2 to the west. The expressway runs northwest to southeast and borders the town of Sabana Grande on the south side. The coliseum lot is at the corner of PR-121 road and the PR-2 exit on Martínez Vega Street that signals the entrance to town. The Sabana Grande Traditional Urban Center is located 0.25 miles north of the coliseum, which is surrounded by residential subdivisions. The Guanajibo River runs north south to the east of the outskirts of town.

The estimated date of construction for the Coliseo Municipal is 1985 since the building is present in a 1993 aerial image but is absent from a 1977 aerial image. The coliseum is a rectangular shaped building that is oriented northwest to southeast. The building has a concrete slab on grade foundation, a concrete lower portion, and a metal top portion with a front gable corrugated metal roof over a metal structure. The exterior siding has standing seam metal panels atop concrete columns and beams with rough texture concrete blocks in between the concrete structure profile. The façade is oriented to the north in front of the parking lot. Two sets of double metal entrance doors are centered equidistant to each other. A ticket window with metal grilles and metal awning is on the left side of the façade. Above the concrete portion, three sets of six metal jalousie windows span the center upper metal portion. The building suffered damage during the storm event and two sets of metal windows are missing, one on the right side and another one on the left side of the façade including the metal siding panels on the top left side. The façade retains the manufacturers sign with the name "DEAN" on the gable top in black letters.

The building's east elevation faces route PR-121 and the concrete lower portion contains a painted mural. A set of double metal doors is on the left side, and standing seam metal panels are on the top portion interrupted by six sets of five metal jalousie windows. The rear elevation has a concrete lower portion with five sets of four short metal jalousie windows. The lower portion on this elevation projects from the building and has a concrete second level on the right side with the same metal windows above. The upper metal portion has two sets of five metal jalousie windows on the recessed left side. Lastly, the west elevation has the concrete lower portion with a set with double metal doors on the right side. The upper metal portion has six sets of five metal jalousie windows. The left side corner near the façade appears damaged with a few standing seam metal panels missing.

The Coliseo Municipal is a manufactured building by the company Dean Steel Buildings based in Fort Meyers, Florida. The company has been in the building contracting business for over 50 years when in 1972 they began fabricating their system of metal buildings. Dean Steel Buildings are marketed throughout the Southeastern United States, the Caribbean, Central, and South America.

The Coliseo Municipal Ángel Mercado Vega building is a modern metal structure made from

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM

CITY REVITALIZATION PROGRAM (CITY-REV)
Section 106 NHPA Effect Determination

Subrecipient: Municipio de Sabana Grande

Project Name: Coliseo Angel Mercado

Project ID: PR-CRP-000745

prefabricated components and it **does not** comply with eligibility requirements for listing to the National Register of Historic Places.

Determination

The following historic properties have been identified within the APE:

- Direct Effect:
 - No archaeological sites and/or NRHP listed/eligible historic properties will be affected within the direct APE.
- Indirect Effect:

No archaeological sites and/or NRHP listed/eligible historic properties will be affected within the indirect APE.

Based on the results of our historic property identification efforts, the Program has determined that project actions will not affect any historic properties.

Considering that there are no previous findings of archaeological sites within 0.25 miles of the project area, the possibility of other archaeological findings in the area can be considered low to moderate.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	GOVERNMENT OF PUERTO RICO DEPOSITION OF HOUSE
Subrecipient: Municipio de Sabana Grande	
Project Name: Coliseo Angel Mercado	Project ID: PR-CRP-000745

Recommendation (Please keep on same page as SHPC	O Staff Section)
The Puerto Rico Department of Housing requests that the following determination is appropriate for the undertak	
 ☑ No Historic Properties Affected ☐ No Adverse Effect Condition (if applicable): ☐ Adverse Effect Proposed Resolution (if appliable) 	
This Section is to be Completed by	SHPO Staff Only
The Puerto Rico State Historic Preservation Office has rand:	eviewed the above information
☐ Concurs with the information provided.	
□ Does not concur with the information provided.	
Comments:	
Carlos Rubio-Cancela	Date:
State Historic Preservation Officer	Date.



Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745

Project (Parcel) Location - Area of Potential Effect Map (Aerial) Calle Martinez Veg Legend TETRA TECH San German Area of Potential Effect ana Ene Yauco Parcels Source: Visual APE Lajas Guanica

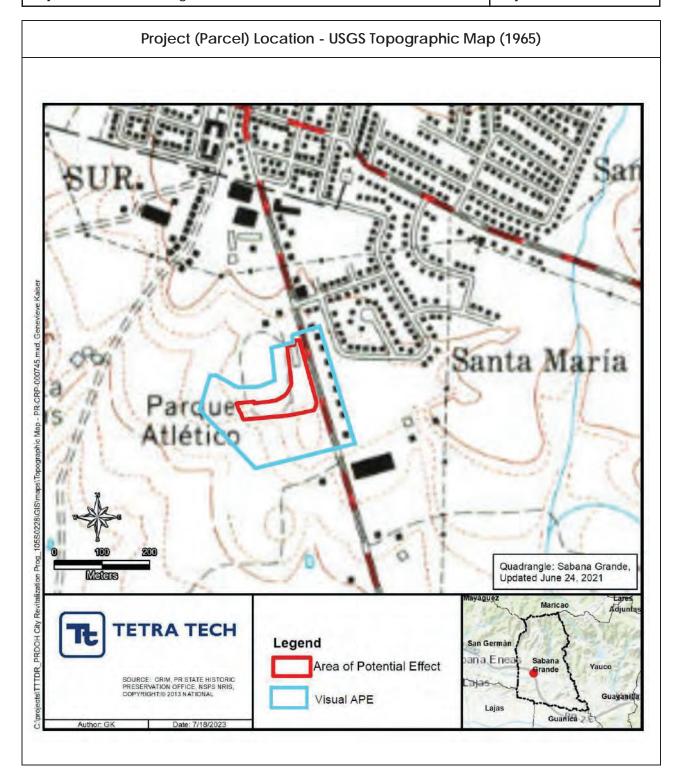


Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745

Project (Parcel) Location - Aerial Map C:\projects\TTTDR_PRDOH City Revita Maricao Legend San Germán TETRA TECH Area of Potential Effect Sabana Grande ana Ene Source: CRIM,PR State Historic Preservation Office, NSPS NRIS, Parcels Guayanilla Visual APE Lajas Guanica Date: 7/18/2023

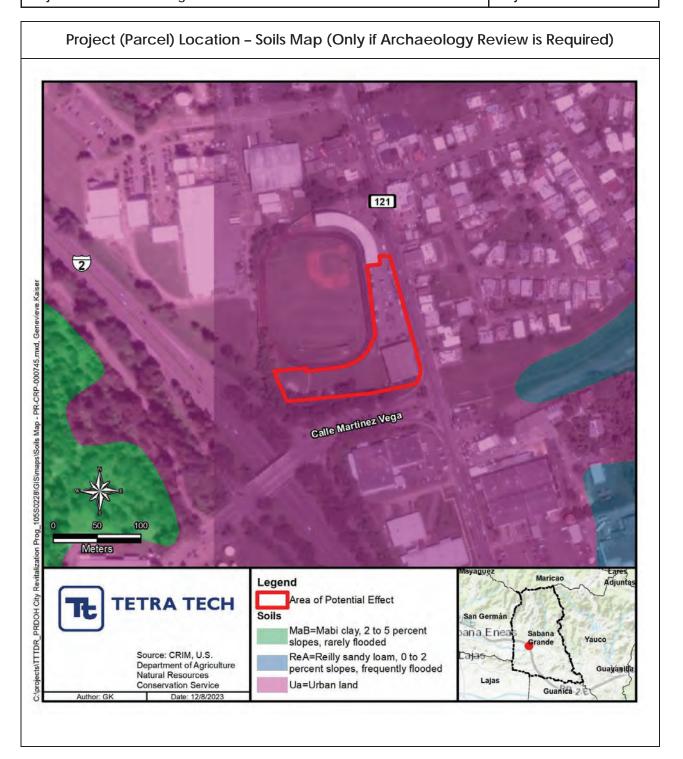


Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745





Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745



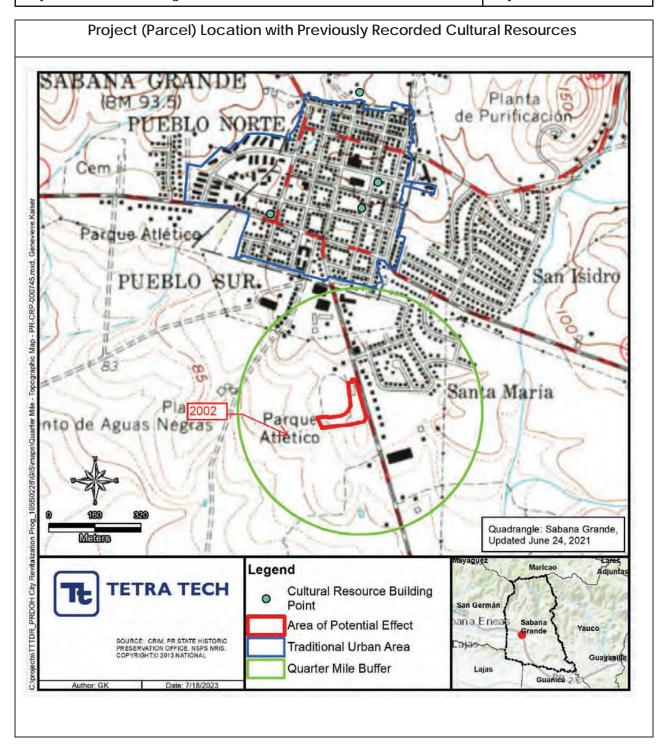


Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745

Project (Parcel) Location with Previous Investigations - Aerial Map ojects/TTTDR_PRDOH City Revitalization Prog_105S0228\GIS\n 320 Meters Legend **TETRA TECH** Cultural Resource Building Point San Germán Sources: CRIM, PR State Historic Preservation Office, NSPS NRIS, Esri, HERE, Garmin, Intermap, Increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NI, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community ana Ene Area of Potential Effect Yauco Traditional Urban Area Quarter Mile Buffer Lajas



Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745



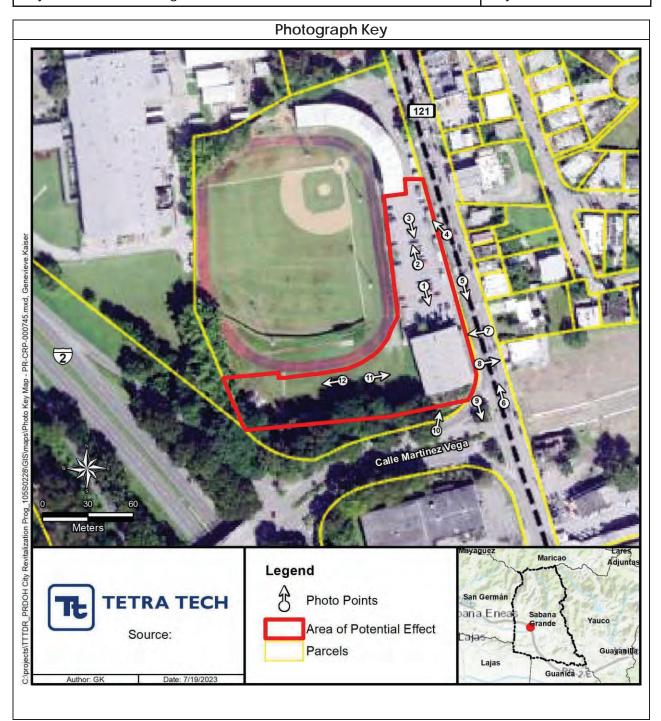
PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Sabana Grande

Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745



CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Sabana Grande

Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745



Photo # 1:

Description (include direction): Building Façade, view to the southwest.

Date: July 19 2023.



Photo # 2:

Description (include direction): Looking away from building façade, view to the northeast.

 $\hbox{\it Puerto Rico 2017 Disaster Recovery, CDBG-DR Program}$

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Sabana Grande

Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745



Photo # 3:

Description (include direction): North side parking area, view to the southwest.

Date: July 19 2023.



Photo # 4:

Description (include direction): Baseball stadium building, view to the northwest.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Sabana Grande

Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745



Photo # 5:

Description (include direction): Street view from PR-121, view to the southwest.

Date: July 19 2023.



Photo # 6:

Description (include direction): Street view from PR-121, view to the northeast.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Sabana Grande

Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745



Photo # 7:

Description (include direction): Building's east elevation, view to the west.

Date: July 19 2023.



Photo # 8:

Description (include direction): Looking away from building, view to the east.

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Sabana Grande

Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745



Photo # 9:

Description (include direction): Looking away from building, view to the southwest.

Date: July 19 2023



Photo # 10:

Description (include direction): Building's rear elevation, view to the northeast.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



Subrecipient: Municipio de Sabana Grande

Project Name: Coliseo Angel Mercado Project ID: PR-CRP-000745



Photo # 11:

Description (include direction): Building's west elevation, view to the east.

Date: July 19 2023



Photo # 12:

Description (include direction): Looking away from building, view to the west.

Date: July 19 2023.

COMMONWEALTH OF PUERTO RICO MUNICIPAL GOVERNMENT OF SABANA GRANDE OFFICE OF THE MAYOR

HON. MARCOS VALENTÍN MAYOR

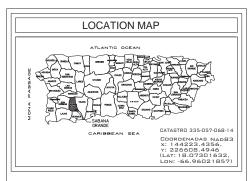
IMPROVEMENTS AND EXPANSION MUNICIPAL COLISEUM ANGEL MERCADO VEGA Bo. PUEBLO, SABANA GRANDE, PUERTO RICO.

DANILO SALAZAR

P.E.

PO BOX 008136, SAN JUAN, P.R. 009100-0136, PHNONE (787) 614-9591

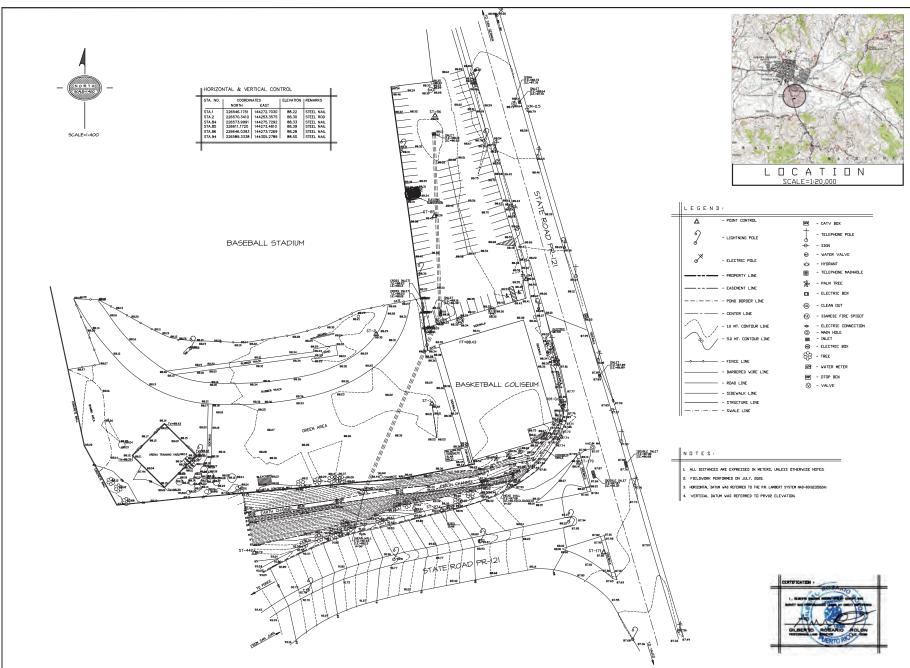
INDEX OF DRAWINGS			INDEX OF DRAWINGS			INDEX OF DRAWINGS			
DW	DWG.NO. DESCRIPTION		DW	G.NO.	DESCRIPTION	DWG		DESCRIPTION	
01	T-1	TITLE SHEET	22	S-301	STRUCTURAL SECTIONS & DETAILS	45	E-15	ELECTRICAL PUMP ROOM	
			23	S-302	STRUCTURAL SECTIONS & DETAILS			MECHANICAL DRAWINGS	
02	SI-1	SURVEY & TOPOGRAPHY PLAN	24	S-303	STRUCTURAL SECTIONS & DETAILS	46	FP-100	GROUND FLOOR PLAN FIRE PROTECTION LAYOUT	
		ARCHITECTURE DRAWINGS	25	S-304	STRUCTURAL SECTIONS & DETAILS	47	FP-101	SE COND FLOOR PLAN FIRE PROTECTION LAYOUT	
03	SI-2	SITE PLAN	26	S-305	STRUCTURAL SECTIONS & DETAILS	48	FP-200	FIRE PROTECION DETAILS & NOTES	
04	D-1	DEMOLITION PLAN			ELECTRICAL DRAWINGS	49	PL-100	GROUND FLOOR PLAN SANITARY LAYOUT	
05	A-1	PROPOSED GROUND FLOOR PLAN	27	ES-1	LEGEND AND NOTES	50	PL-101	GROUND FLOOR PLAN POTABLE WATER LAYOUT	
06	A-2	BLEACHERS LAYOUT	28	ES-2	ELECTRICAL SITE PLAN	51	PL-102	SECOND FLOOR PLAN SANITARY LAYOUT	
07	A-3	ROOF DRAINAGE PLAN	29	ES-3	SINGLE LINE POWER RISER DIAGRAM	52	PL-103	SECOND FLOOR PLAN POTABLE WATER LAYOUT	
08	A-4	ELEVATIONS	30	ES-4	TRANSCLOUSURE DETAILS	53 PL-104		ROOF PLAN PLUMBING LAYOUT	
09	A-5	SECTIONS	31	E-1	ELECTRICAL LEGEND & NOTES	54	PL-105	CISTERN POTABLE WATER FIRE PROTECTION PIPING LAYOUT	
10	A-6	WALL SECTIONS	32	E-2	ELECTRICAL LIGHTING PLAN GROUND FLOOR CORRIDOR	55	PL-106	POTABLE WATER & FIRE PROTECTION CISTERN DIAGRAMS	
11	A-7	BATHROOM DETAILS	33	E-3	ELECTRICAL LIGHTING PLAN SECOND FLOOR	56	PL-200	PLUMBING DETAILS, NOTES & SCHEDULES	
12	A-8	CAFETERIA - TIKET - TRANSMITION ROOM DETAILS	34	E-4	ELECTRICAL POWER PLAN GROUND FLOOR CORRIDOR & TRANSMISSION ROOM	57	VAC-100	GROUND FLOOR PLAN VAC LAYOUT	
13	A-9	BASKETBALL LAYOUT, NOTES & DETAILS	35	E-5	FIRE ALARM SYSTEM GROUND FLOOR & TELECOMUNICATION	58	VAC-101	SECOND LEVEL PLAN VAC LAYOUT	
14	A-10	DOOR & WINDOW SCHEDULE	36	E-6	FIRE ALARM SYSTEM PLAN SECOND FLOOR	59	VAC-102	ROOF PLAN VAC LAYOUT	
		STRUCTURAL DRAWINGS	37	E-7	ELECTRICAL EMERGENCY LIGHTING PLAN GROUND LEVEL	60	VAC-200	VAC NOTES	
15	S-001	STRUCTURAL NOTES	38	E-8	ELECTRICALGROUND FLOOR PLAN(A/C)	61	VAC-201	VAC SCHEDULES	
16	S-002	STRUCTURAL MISCELLANEOUS	39	E-9	ELECTRICAL SECOND LEVEL PLAN (A/C) ALARM DIAGRAM	62	VAC-202	VAC CONTROL & DIAGRAMS	
17	S-100	STRUCTURAL CISTERN PLAN, SECTIONS & DETAILS	40	E-10	ELECTRICAL ROOF PLAN (A/C)	63	VAC-300	VAC DETAILS	
18	S-101	STRUCTURAL FOUNDATION & SLAB ON GROUND PLAN	41	E-11	ELECTRICAL DETAILS	64	VAC-301	VAC DETAILS	
19	S-102	STRUCTURAL SECOND PLAN	42	E-12	ELECTRICAL ARRESTER				
20	S-103	STRUCTURAL ROOF PLAN	43	E-13	ELECTRICAL PANELBOARD & SAFETY SWITCH SCHEDULE				
21	S-201	STRUCTURAL ROOF PLAN	44	E-14	LIGHTING LAYOUT				







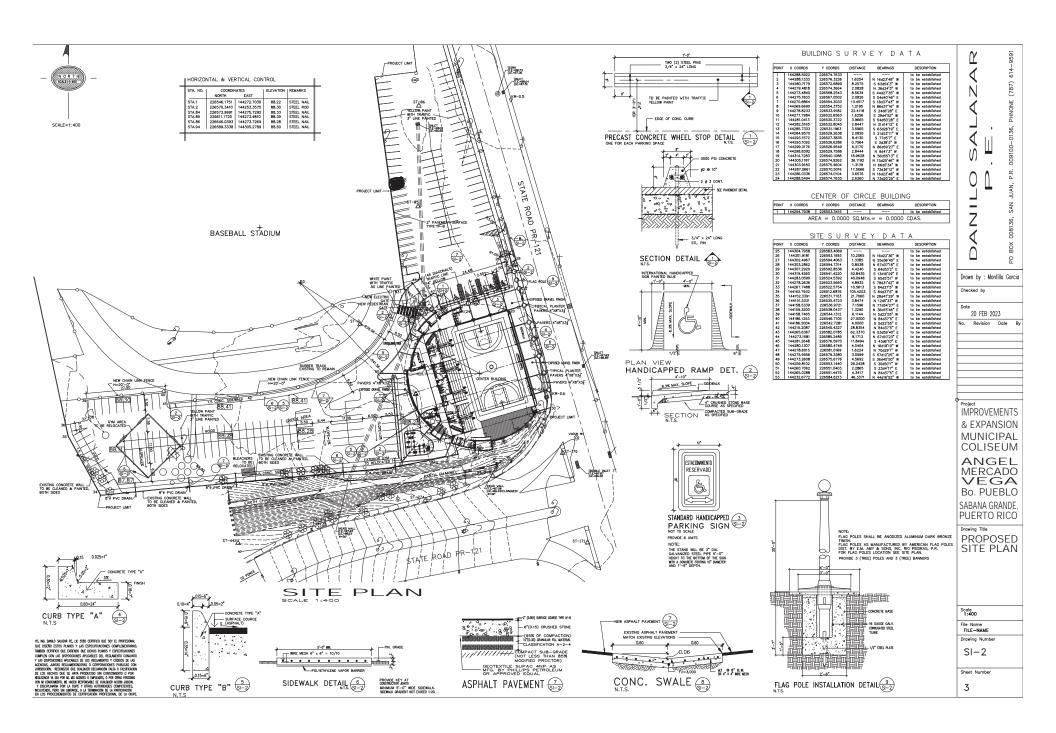


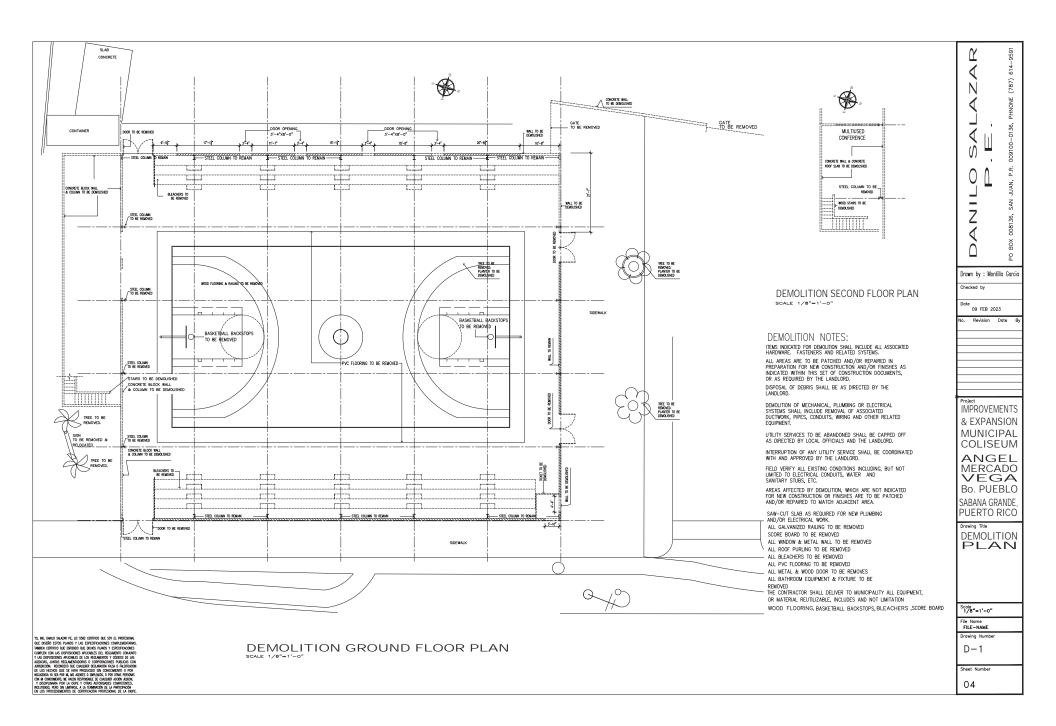


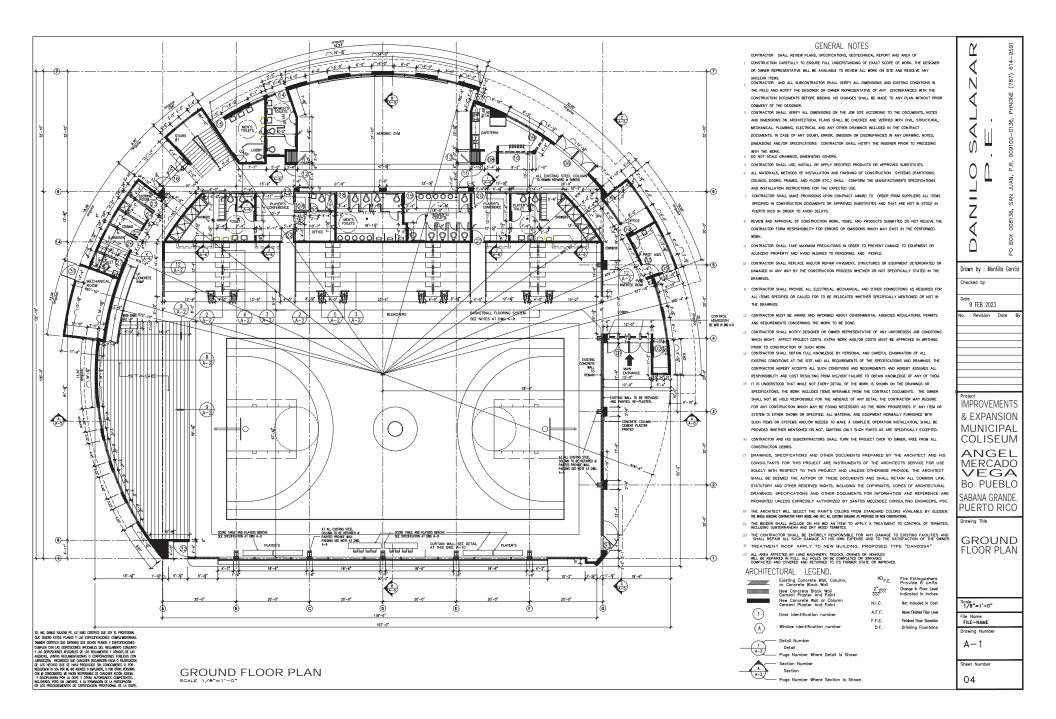


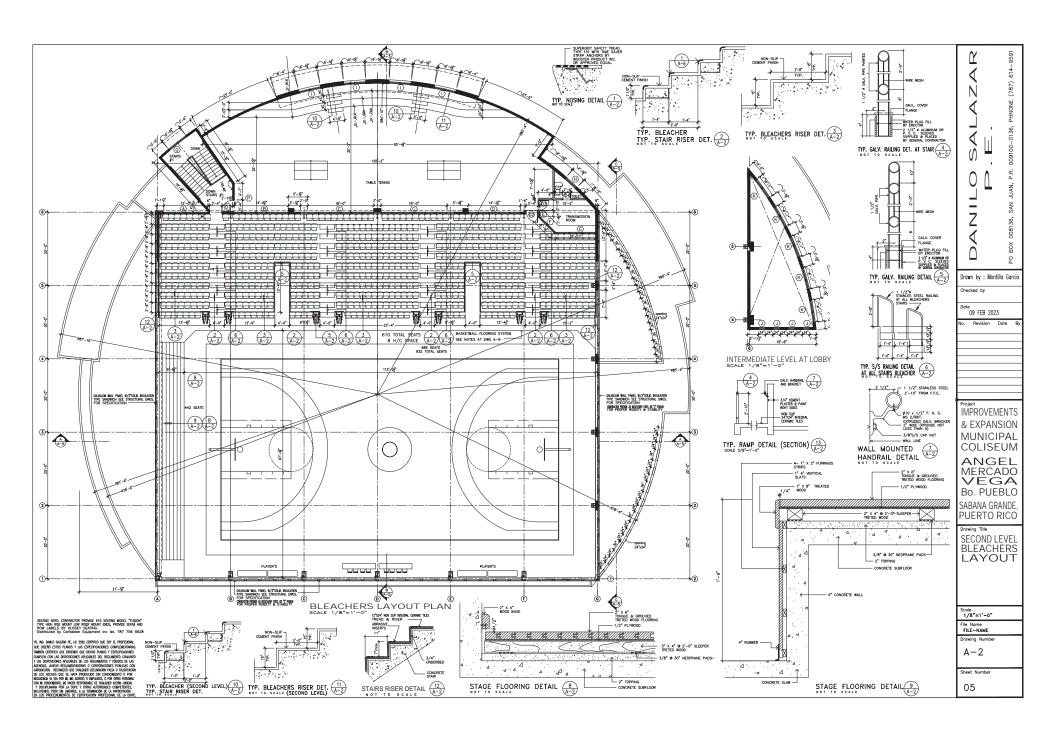
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CASUAS, P.R. 00721
TEL. 187-462-341;
WHALTOMUSUTVESING.CON
TOMU.PSC@gmail.con

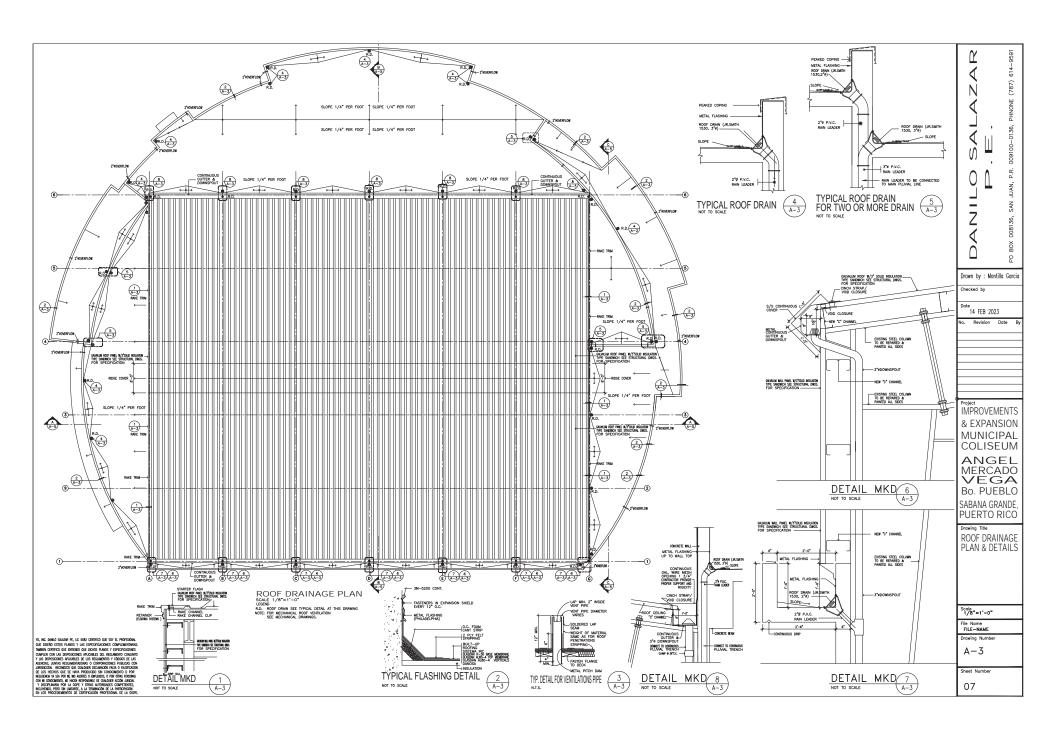
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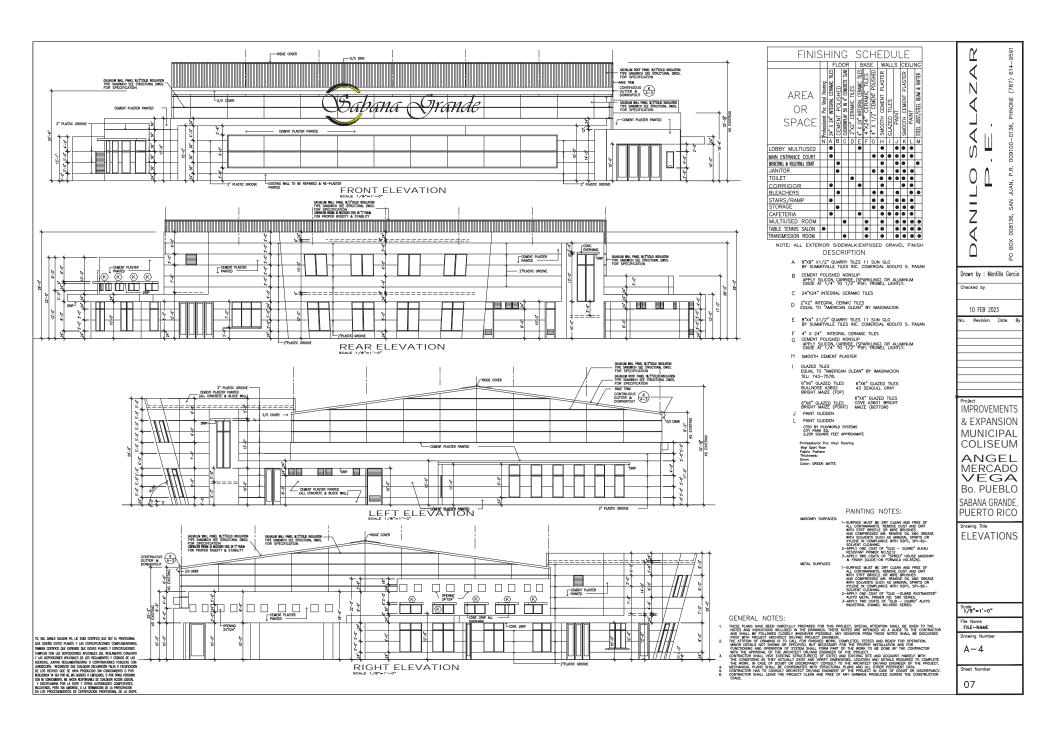


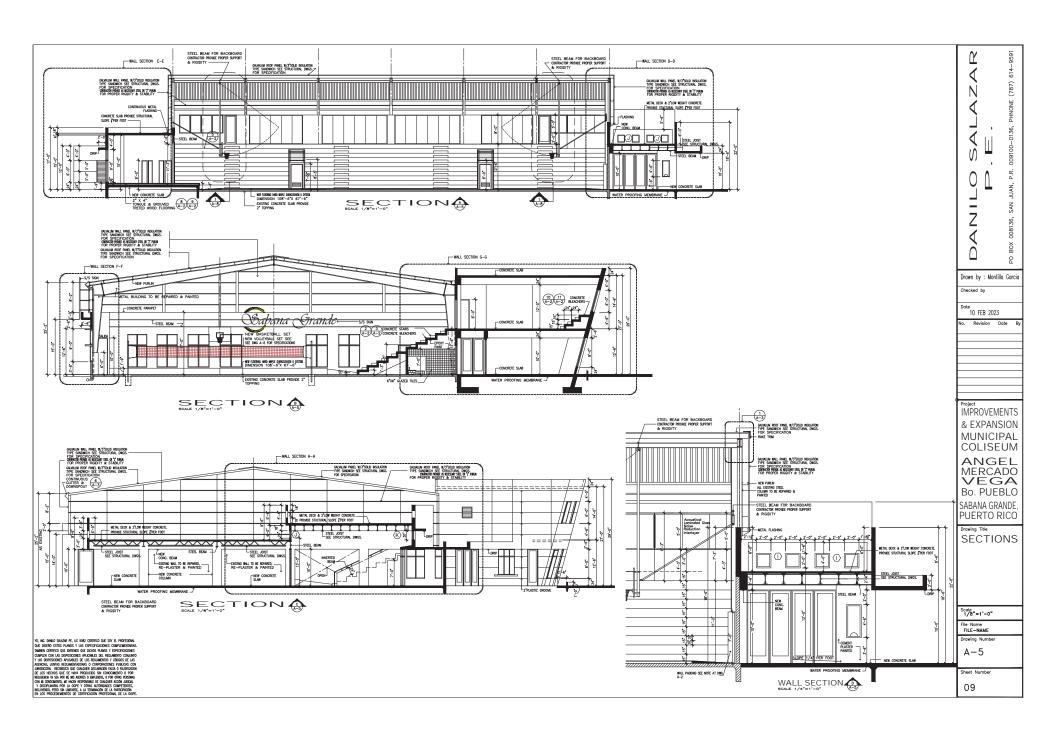


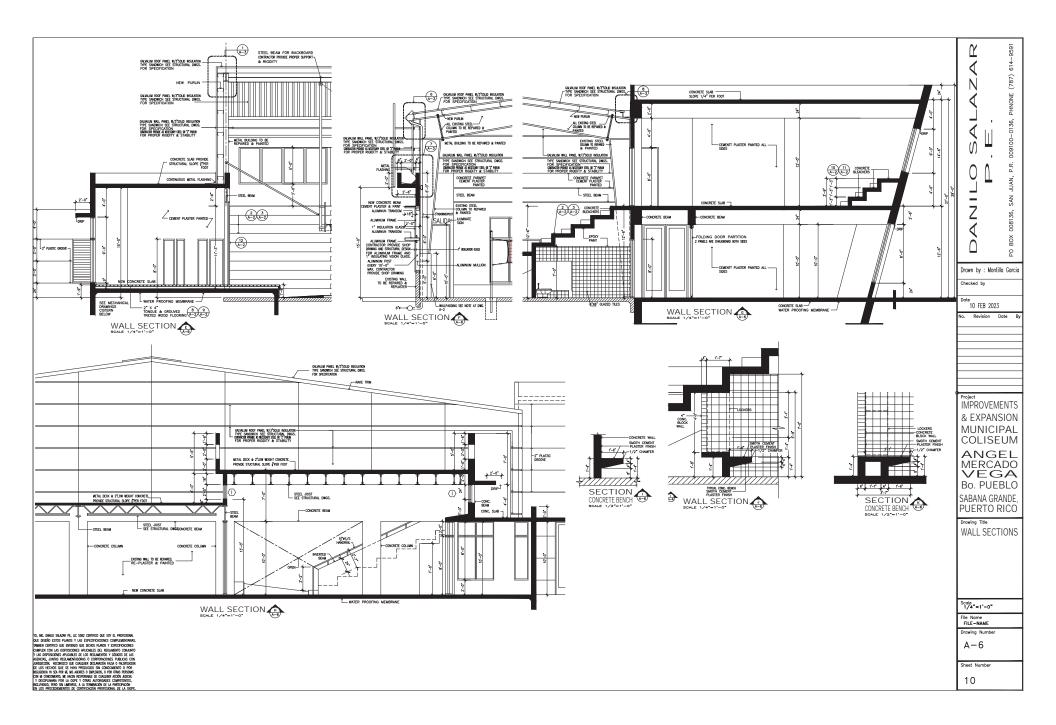


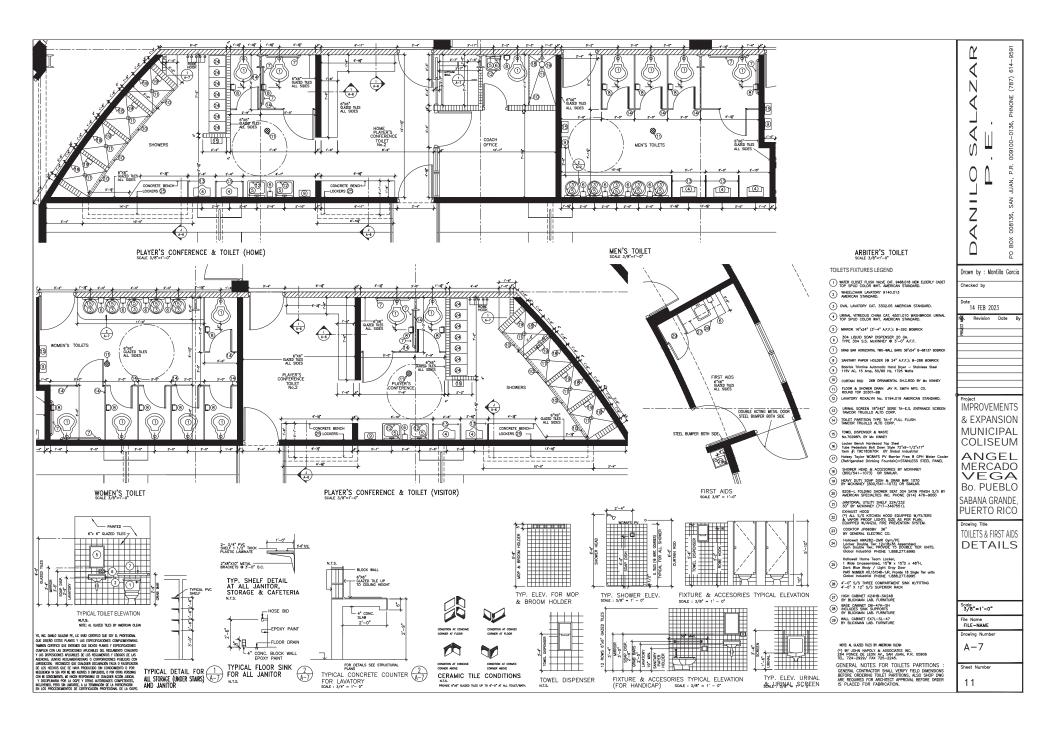


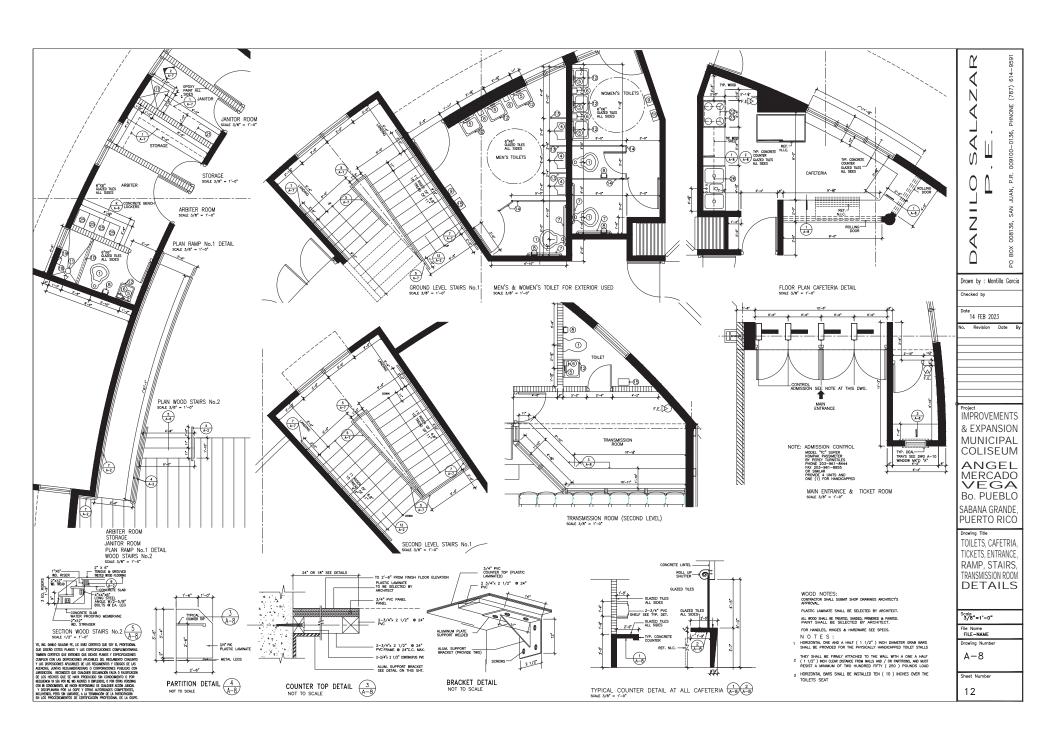


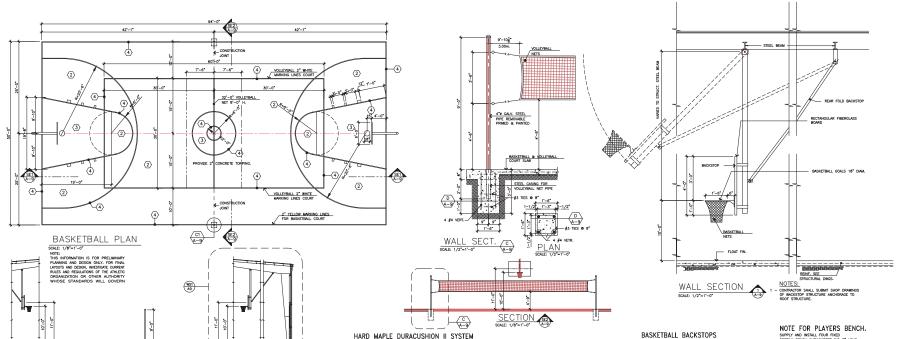












NOTES:

SECTION SET

PLAN

STEEL CASING
BELOW

6 to REMOVABLE

PROVIDING AND INSTALLING THE BUCKSTOPS AND NECESSARY AND RECURSED STRUCTURAL ANCHORNO TO THE STEEL PRE-FARBICATED BULDING SHOP DRAWINGS WILL NOT BE APPROVED UNTIL THE STRUCTURAL REPORTCIDENTS FOR THE INSTALLATION OF THE FOLDING BUCKSTOPS ARE INCORPORATED IN THE SHOP DRAWINGS BY THE BULDING MANUFACTURER.

- THE BULDNO MANUFACTURER.

 1- MARKING UNES FOR BASKETBALL SHALL BE 2" YELLOW.

 2- MARKING UNES FOR VOLLCYBALL SHALL BE 2" WHITE.

 3- PART FOR MARKING SHALL BE TOMER' BY GLIDDEN CO.

 CONTRACTOR TO SUPPLY ONE MYLON VOLLCYBALL NET PER COURT. MODEL WH—32 & TWO BASKETBALL NETS MODEL JINY-4 BY JYPRO CORD.
- 3 ALL EXTERIOR SIDEWALKS WILL HAVE BROOM FINISH
- 4 ALL JANITOR ROOMS SHALL HAVE A NON-SLIP FLOOR FINISH (SEE SPECIFICATIONS)

1/2"¢ HOLES

STEEL COVER

BASKETBALL/VOLLEYBALL COURT FLOOR FINISH NOTES:

- PERIMETER AROUND COURT SHALL HAVE "LITHOCHROMI COLOR HARDENER" COLORWAY, BEIGE CREAM COLOR SURFACING (SEE SPECIFICATIONS)

mountainer, and the eart shall be performed in accordance with time-species regulation instructions of the mountainer. The second flooring specified herein shall not be fractiled until completely and the second specified herein shall not be fractiled until completely and the second specified herein the second specified herein shall not be second specified and specified in the second specified herein shall not specified by the second specified herein shall not specified by the specified herein shall be specified as well presently an element of 65 degrees and mountain shall be shall be specified by the specified herein shall be sufficient to distribute the state of the specified herein shall be sufficient to the state of the specified herein shall be sufficient to the state of the specified herein shall be sufficient to the state of the specified herein shall be sufficient to the state of the specified herein shall be sufficient to the state of the specified herein shall be sufficient to the state of the specified herein shall be specified by
nore status maintenance a veet processing and innouppoint the during of the work. Humidity conditions within the building shall approximate the humidity conditions which will prevail when the building is occupied. The shall be shall be shall be shall be installed area, not in contact with masonry, to occlimate to building conditions, and shall be installed at a melature content not to exceed 8% except

FLOORING CONTRACTOR:

The complete installation of the flooring system, as described in the scope of this specifications and herein, shall be carried out by an experienced wood flooring contractor, approved by the manufacturer, and the work shall be performed in occordance with water contractors of the manufacturer with the property of the property

in orose of constant high humidity where the moisture of the flooring shall not exceed 10%.

TUCKNEW, MATURAL, flooring, 33/32" x 2 1/4" 3rd grade, T & G & BALL College of the constant of th

ALLISSORY MATERIALS: Action cush pods, sleepers, and base shall be as supplied by Action Floors, and soft boards, nails and nailers, finishes, etc may be submitted to Action Floors for approval. INSTALATION METHODS:

MAY LE UNIVERSITIES IN SIGNATURE IN SIGNATUR SANDING:
After institution the surface of the wood floor shall be machine. After institution the surface of the wood floor shall be machine than the surface of the surface of the surface of the surface of the surface in surface and the edges shall be sended to match. A final disc sanding is required.

PILISTONIA.

THE STANDING OF TH

agillon. New to dry de (6) hours or more, then both using the 2 selected or the COS owners disc.

2 - Liver April Divisional Gran like policy or gran sealer. Cover a sealer of the COS owners disc.

2 - Liver April Divisional Country of the Cost o

BASKETBALL BACKSTOPS

1- Supply and Install two(2) model 3107 Basketball Backstope distributed by Caribbean Equipment Inc, 756-5628 or approved

candidate by Corticent Egylment by, 746-7528 or oppress

par Former's Dirigit by

3- Operations electric social model 1192 3/4 1/2 1/2

3- Operations electric social model 1192 3/4 1/2

3- Operati

NOTE FOR ALL METAL STRUCTURAL COLUMN AT BASKETBALL COURT NOTE FOR WALL PADDING CORNER PADDING.

1 1/2" WALL PADDING AS STRUCTURAL COLUMN DIMENSION H= 72" PANELS 6 LBS. DENSITY BONDEN FOAM. 7/16" OSB BOARD BACKING AND 14 OF COVERING OF HEAD

MODEL 4100'S-WALL PADDING 4300'S CORNER PADDING. CHANNEL PER WALL PADDING. BY PERFORMANCE SPORTS

VOLLEYBALL SET.

NOTE FOR SCHOED OF HER HOUSE, AND HE SOURCE SHOULD
SUPPLY AND INSTALL FOUR FIXED

(2) TEAM BENCH W/BACKREST 21'-0" LONG

EDUL OR SMILK TO MOD. CSEP HIS SPECTMOR IN SPRES

(2) TEAM BENCH W/BACKREST 8'-0" LONG

EDUL OR SMILK TO MOD. OSEP HOS SPECTMOR IN SPRES

OF CARRIBEAN EQUIP. INC.

NOTE FOR SCORE TABLE
SUPPLY AND INSTALL ONE FIXED SCORE TABLE 8'-0" LONG W/ FIXED BENCH BY CARIBBEAN EQUIP. INC.

PROVIDING A BACKUP UNIT.
PROVIDE WIRELESS OR BATTERY—POWERED CONTROL
OPERATION FOR ABOVE EQUIPMENT.

IMPROVEMENTS & EXPANSION MUNICIPAL **COLISEUM**

(787)

008136,

Drawn by : Montilla Garcia

lo. Revision Date By

Checked by

Date 10 FEB 2023

1

ANGEL **MERCADO** VEGA Bo. PUEBLO SABANA GRANDE

PUERTO RICO

BASKETBALL & VOLLEYBALL DETAILS

Scale 1/8"=1'-0"

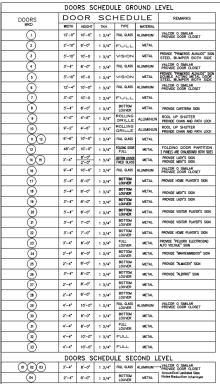
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13

TO, NO, DANGO SALORI PI, LE SISSE COSTICO DEL SOY EL PROTEDIONA, OL REGIO DICE PAROS Y LOS DETENDOCIOSES CIRCUltural CONTRA CON LA CONTRACA DEL CONTRACA DEL CONTRACA DEL CONTRA DEL CONT



D O O R NOTES:

- ALL EXTERIOR DOORS SHALL BE PROVIDED WITH WATER TIGHT PREPARATION, POLYSTERENE CORE SERIE TA-103 AS MANUFACTURED BY TAMCOR-TRILIILLO ALTO METAL CORP. AS MANUFACTURED BY TANCOR-TRULLIC ALTO METAL CORP.

 2. ALL DOORS OF PRAMES SHALL BE WINFACTURED FROM ACUMANZED STEEL OF GAUGES HEREIN SPECIFIED

 3. ALL DOORS SHALL BE PROMED W/ 16 DAUGE GAUGHNEED STEEL FLUSH CORE TOP MIN BOTTOM. SEE THYOM, DETAL

 4. ALL LOWERS SHALL BE ARRESTED FROM 14 GAUGH COLANIANZED STEEL

 5. ALL LOWERS SHALL BE INSTALLED PROOR TO DOOR ASSEMBLY BY DOOR MANUFACTURED.

 6. ALL COMPENS SHALL BE ANTENDED.
- 8) ALL LOWERS SHALL BE SPOT MELDED TO INTERIOR DOOR RACS, NON REMOMBLE STELL LOWER, SEE THYOLL DOOR DETAIL
 7) INSERT TYPE LOWER OR ALLIMENUM LOUVER WILL NOT BE ACEPTED
 8) ALL PAR DOORS SHALL BE PROVIDED WITH DOUBLE INTEGRAL. ASTRAGAL AS MANUFACTURED
 10 ALL PAR DOORS SHALL BE PROVIDED WITH DOUBLE INTEGRAL. ASTRAGAL AS MANUFACTURED
- ALT HAVE COOKS SHALL BY REPOYCED WITH DOUBLE INTEGRAL AST MANUFACTURED BY TRIBLIAD AND LEFEL COPY TROUBLE SHEETS TA-GOS DUE IN THE BEACHTON, AST MANUFACTURED BY TRIBLIAD AND LEFEL COPY TO SHEET ASTRONOMY MELL NOT BE ACCOPYTED.

 1) ALL DOUBLE DOUBLE COPY THE SHEET ASTRONOMY MELL NOT BE ACCOPYTED.

 1) ALL DOUBLE DOUBLE SHEET ASTRONOMY WERE ASTRONOMY MELL AND OR SHEET DOUBLE NAME OF THE MELTING THE ACCOPYTED AND ASTRONOMY MELL RESIDENCE SHEET ASTRONOMY MELL RESIDENCE SHE
- NOTE: ALL GLASS OF DOOR & WINDOW SHALL BE 1/4" SAFETY GLASS.

ALUMINUN DOOR HARDWARE BY MANUFACTUR.

ALL ALUMINUN WINDOW RY.
ALL EXTERIOR GLASS
SOLAR BRONZE.
ALL EXTERIOR FRAME
(WINDOW & DOOR) WHITE
ANODIZED

NOTES: ALL GATES SHALL BE PROVIDED WITH PADLOCK.
AUMBLIN WHOOKS TO BE AS PER VALOR, CORP. OR ITS APPRINED EQUAL. METAL WINDOWS TO BE AS PER TAMOOR, CORP. OR ITS APPROVED EQUAL.
ALL OPENNAS DIMENSIONS SHALL BE VERIFED BEFORE WINDOWS & DOORS MANNOTAGIUNE.
CONTRACTOR PROVIDE AS NECESSARY STEEL OR ALLMINUM MALLION
FOR PROPER RIGIDITY & STABILITY

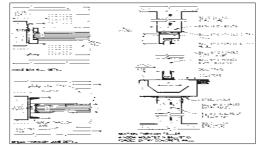
TO, MIC DARGO SHADER HY, ICE DISSI CORPINCE QUE SOFT EL RIFOTEDIONA, QUE DESSI DISSI FAMEN T LOS ENTREPOCACIONES COMPLIGNAMENTA COMPARIS DEL MISSI CONTROLLA COMPARIS DEL MISSI CONTROLLA CONTROLL

WINDOWS SCHEDULE GROUND LEVEL

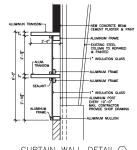
MKD	WINE	OWS OP	ENING	MATERIAL	REMARKS	
	WIDTH	HEIGHT # OF UNITS		DESCRIPTION		
\triangle	2'-0"	4'-6*	1	FIXED ALUM/GLASS	PROVIDE DEAL TRAYS -> VALOOR SEE DETAIL AT THIS SHEET	
(B)	6'-0"	6'-0"	2	ALUM. /FIXED GLASS	MEM MINDOM	
(8)	6'-0"	2'-0"	2	ALUM. /PROJECTED GLASS	VALCOR	
(a)	9"-0"	6'-0"	3	ALUM. /FIXED GLASS	MEM MINDOM	
(<u>U</u>	9'-0"	2'-0"	2	ALUM. /PROJECTED GLASS	VALCOR	
(D)	2"-0"	2'-0"	1	ALUMNUM FIXED LOUVER	VALCOR	
E	4'-0"	2'-0"	2	ALUMNUM FIXED LOUVER	VALCOR	
(F)	6'-0"	11"-0"	2	ALUM. /FIXED GLASS		
\ru_/	6'-0"	2'-0"	2	ALUM. /PROJECTED GLASS	VALCOR	
(3'-0"	6'-0*	1	ALUMINUM FIXED LOUVER	VALCOR	
(H)	6'-0"	6'-0"	2	ALUM. /FIXED GLASS	VIEW MINDOW	
\ <u>"</u> /	6'-0"	3'-0"	2	ALUM. /PROJECTED GLASS	VALCOR	
	90"-0"	6'-0"	9	ALUM. /FIXED GLASS	CURTAIN WALL SEE DETAIL AT THIS DWG. VALCOR	
(J)	6'-0"	8'-0"	2	ALUM. /FIXED GLASS	VALCOR	

WINDOWS SCHEDULE GROUND LEVEL

MKD	WINE	OWS OF	ENING	MATERIAL	REMARKS
	WIDTH	HEIGHT	# OF UNITS	DESCRIPTION	
A	12"-0"	8'-0*	4	FIXED ALUM/GLASS	VIEW WINDOW VALCOR
(B)	14"-8"	8'-0"	5	FIXED ALUM/GLASS	VIEW WINDOW VALCOR
(i)	18'-0	8'-0"	6	FIXED ALUM/GLASS	VIEW WINDOW VALCOR
(D)	14'-2	8'-0"	5	FIXED ALUM/GLASS	VIEW WINDOW VALCOR
E	1'-8	5'-0	1	FIXED ALUM/GLASS	VIEW WINDOW VALCOR Acoustical Laminated Gass Noise Reduction Interlayer
F	6'-2	5'-0"	2	FIXED ALUM/GLASS	VIEW WINDOW VALCOR Acoustical Leminated Glass Noise Reduction Interlayer
◎	10'-11*	5'-0*	3	FIXED ALUM/GLASS	VIEW WINDOW VALCOR *Appetical Leninsted Glass Noise Reduction Interlayer
H	4"-0"	2'-0"	2	ALUMNUM FIXED LOUVER	VALCOR
①	6'-0	6'-0"	2	ALUM. /FIXED GLASS	VIEW WINDOW VALCOR
□	2'-0	2'-0	1	ALUM. /FIXED GLASS	VIEW WINDOW VALCOR
(K)	6"-0"	2'-6"	2	ALUM. /FIXED GLASS	VIEW WINDOW VALCOR

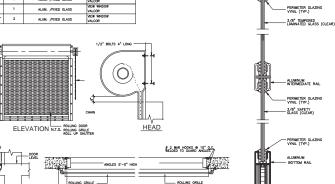


TYPICAL DEAL TRAIL AT TICKET WINDOW "A"



CURTAIN WALL DETAIL (CONTRACTOR PROVIDE SHOP DRAWING AND STRUCTURAL DESIGN FOR ALLUMINUM FRAME AND 1" INSULATING VISION GLASS.

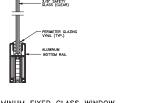
NOTE FOR WINDOW (1):
CONTRACTOR PROVIDE SHOP DRAWING AND STRUCTURAL DESIGN
FOR ALUMINUM FRAME AND 1" INSULATING VISION GLASS.



SEE MANUFACTURERS DETS. & RECOMENDATIONS ALL OPENINGS DIMENSIONS SHALL BE VERIFIED BEFORE WINDOWS & DOORS MANUFACTURE. N.T.S. ROLLING DOOR, GRILLE & ROLL UP SHUTTER DETAILS CONTRACTOR PROVIDE AS NECESSARY STEEL OR ALUMINUM MULLION

1 1/2 x 1 1/2" x 3/16" x 10"-0" ANGLE

NOTE FOR ROLL UP GRILLE:
AS MANUFACTURED BY CITY GATE
MFG, CORP., MODEL C85161
PROVIDE FASCIA GALVANIZED
TEL. 718–939–9700. ALL OPENINGS DIMENSIONS SHALL BE VERIFIED BEFORE WINDOWS & DOORS MANUFACTURE.



ALUMINUM FIXED GLASS WINDOW CONTRACTOR SUMMIT SHOP DRAWING FOR INSTALLATION AND STRUCTURAL DESIGN.



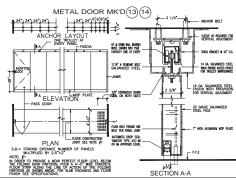
HONEYCOMB CORE FOR INTERIOR DOOR 1/4" THICK GLASS COUNTERSUNK SELF X

3.000 .08

TYPICAL FIXED LOUVER TYPE "7" VERTICAL SECTION .80" STORM RESISTANT

 EXTRUDED ALUMINUM SECTIONS .080" THICK, 6063-T5 ALLOY AND TEMPER. BAKED ENAMEL WHITE PAINTED.

ASSEMBLY: • FRAME HEAD AND SILL WILL BE RIVETTED AND SCREWED AGAINTS FRAME JAMB. LOUVER VENTS WILL BE SCREWED AGAINST FRAME JAMB.



DOOR TYPES

BOTTOM LOUVER POLYSTYRENE CORE SERIES TA 101 SERSE TA 101

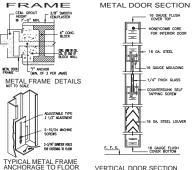
FULL LOUVER

JAMB DETAILS

1 SPECIFICATIONS 1 - TA 102 DOOR 14 GAUGE FOR VR - 500 DOOR - CYLINDER HEAD PROTECTOR CYLINDER HEAD PROTECTOR
 14 GAUGE CYLINDER HEAD SEAT
 MORTISE DEADLOCK CASE TO BE
 PROVIDED BY LOOK MANUFACTURER AND
 NISHLED BY DOOR WANGFACTURER PROR TO ASSEMILY. VISION VISION 1/4" X 12" X 12" SECURITY GLASS SERIES TA 101 GAUGE 16. FRAME GAUGE 14 FULL GLASS BOTTOM LOUVER 5 - CYLINDER GUIDE & LATERAL SUPPORT 12 GAUGE GALVANIZED STEEL 6 - 12 GAUGE CALVANZED STEEL ANT JIMMIC PENFORCEMENT PERPENDICULAR TO FACE OF MORTISE LOCK



VANDAL RESISTANT PREPARATION (FOR ALL METAL DOOR)



VEGA Bo. PUEBLO SABANA GRANDE PUERTO RICO DOOR & WINDOWS **SCHEDULE** & DETAILS

008136,

Drawn by : Montilla Garcia

No. Revision Date By

IMPROVEMENTS

& EXPANSION

MUNICIPAL

COLISEUM

ANGEL

MERCADO

Checked by

Date 15 FEB 2023

Scole 1/8"=1'-0" File Name FILE-NAME Drawing Number A - 10Sheet Number

- THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- SPECIFICATIONS NOTED ON THESE DRAWINGS SHALL BE OF THE LATEST REVISION.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- NO OPENINGS, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL
- NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- HORIZONTAL MOVEMENT OF ANY HEAVY EQUIPMENT OVER STRUCTURAL FLOORS OR ROOF AND ITS TEMPORARY AND/OR DEFINITE LOCATIONS MUST BE PERMUSILLY APPROVED BY THE ENGINEER SO AS NOT TO OVERLOAD THE STRUCTURE OR IN ANY OTHER WAY IMPAIR THE STRUCTURE. SAME PRECAUTION SHALL BE TAKEN FOR THE PILING OF CONSTRUCTIONS MATERIALS.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR PURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES, OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- ALL STRUCTURES HAVE BEEN DESORID ACCORDING TO FINAL BEHAVIOR AND CONCINONS. HOWEVER, DIRNOR PERCINO OF BEHAVIOR AND CONCINONS. HOWEVER, DIRNOR PERCINO OF BEHAVIOR OF THE STRUCTURE HAS NOT BEEN CONTRICTOR SHOULD PROVIDE AT ALL TIME. CONTRICTOR SHOULD PROVIDE AT ALL TIME. CONTRICTOR SHOULD PROVIDE AT ALL TIME. OF THE CONTRICTOR SHOULD PROVIDE AT ALL TIME. OF THE CONTRICTION, PLEASE CONSULT AND/OR NOTIFY THE STRUCTURE, DEFORMED ANY PLASE OF THE CONSTRUCTION, PLEASE CONSULT AND/OR NOTIFY THE STRUCTURE, DEFORMED.
- DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL INFORM THE ABOUTECT/PROBLES IN WITTING OF ANY DISATION FROM HE CONTRACT FOOLIGHETS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUICH DEVANIORS, PRODUCT DATA, ETC., RECORD REVIEW OF SHOP DRAWNERS, PRODUCT DATA, ETC., PROFESSIONAL OF RECORD FROM THE PROFESSIONAL OF RECORD FROM THE THE THE OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WHITEN APPROVAL TO THE SECOND CENTRAL OF RECORD HAS GIVEN WHITEN APPROVAL TO THE SECOND CENTRAL OF THE PROPERTY OF THE PROPERT
- . WHERE "OWNER" IS MENTIONED IN PLANS IT IS TO BE UNDERSTOOD EITHER OWNER OR HIS AUTHORIZED REPRESENTATIVE.
- CONTRACTOR SHALL SUBMIT FOR OWNERS APPROVAL LOCATION AND DETAILS OF CONSTRUCTION JOINTS IN SLABS AND BEAMS, AND IN ANY OTHER STRUCTURAL MEMBERS.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS ON STRUCTURAL PLANS AGAINST THE DIMENSIONS ON ARCHITECTURAL PLANS BEFORE LAYING OUT THE WORK.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS PRIOR TO STARTING CONSTRUCTION. IF ANY DISCREPANCY ARISES IN THE STRUCTURAL AND ARCHITECTURAL PLANS. THE ARCHITECTS AND ENGINEERS SHALL BE NOTIFIED IMMEDIATELY.
- I. CONTRACTOR MUST PROVIDE, SET AND VERIFY DIMENSIONS AND LOCATION OF ALL ANCHORS, INSERTS BOLTS, SLEEVES, CONDUITS, SETC., SHOWN OR NOTED IN ARCHITECTURAL AND/OR MECHANICAL AND PLUMBING PLANS BEFORE THE CONCRETE IS POURED.
- PROVISIONS FOR DETAILS NOT SPECIFICALLY DRAWN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE LATEST VERSION OF THE ACI BULLING CODE AND/OR AISO SPECIFICATIONS AND CLARIFIED WITH THE STRUCTURAL ENG
- ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS AND INTENDED TO BY TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OTHERWISE.
- . IN CASE OF DOUBT IN THE INTERPRETATION OF ANY ASPECT OF THESE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS, THE STRUCTURAL ENGINEER SHALL BE CONSULTED.
- . NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN OR OMITTED ON THE DRAWINGS.
- NOT SHOWN US USE. IT SETS TO SHOW IN CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS AND PROVISIONS OF THE FOLLOWING CODES AND SPECIFICATIONS THEIR COMMENTARIES AND THE STANDARDS REFERENCED THEREOFF.
- STANDARDS REFERENCED HERRIN:

 AMERICAN CONCRETE INSTITUTE (AC)
 HETENATIONAL BUILDING COCE, 2015 (BC)
 HETENATIONAL BUILDING COCE, 2015 (BC)
 HETENATIONAL BUILDING COCE, 2015 (BC)
 AMERICAN SCIENT (AWS)
 AMERICAN WELDING SOCIETY (AWS)
 AMERICAN WELDING SOCIETY (AWS)
 AMERICAN WELDING SOCIETY (AWS)
 FURTOR ROOF BUILDING CODE, 2018

 PUETTO ROOF BUILDING CODE, 2018

A) ROOF

B) FIXED SEAT (BLECHER)

- A) VELOCITY (3-SECOND GUST WIND SPEED) : 161 mph B) EXPOSURE CATEGORY C) STRUCTURE CLASS D) TOPOGRAPHIC CATEGORY
- SEISMIC LATERAL LOADS : ASCE 7-16 LIVE LOADS:

: 30 psf

: 100 psf

ALL CONCRETE SHALL DEVELOP A MINIMUM 28 DAYS COMPRESSIVE STRENGHT AS FOLLOWS:

A) FOUNDATIONS	3,500 PSI
B) CONC. PEDESTAL	4,000 PSI
C) SLAB ON GRADE	4,000 PSI
D) WALLS	4,000 PSI
E) COLUMNS	4,000 PSI

- 2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II.
- ALL REINFORCING BARS SHALL BE HIGH TENSILE DEFORMED MEETING ASTM A-615 GRADE 60, UNLESS NOTED OTHERWISE ON SPECS AND OR DRAWINGS.
- CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED TRUSS TYPE FABRICATED UNITS WITH A SINGLE PAIR OF 9 GAUGE SIDE ROOS AND 9 GAUGE CONTINUOUS DIAGONAL CROSS ROOS FABRICATED FROM COLD-DRAWN STEEL WIRE COMPLYING WITH ASTM A-82.
- 5. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:

A) ROLLED STEEL SHAPES, PLATES AND BARS (UNO)	ASTM	A-992
B) ROLLED STEEL SHAPES, PLATES AND BARS (UNO)	ASTM	A-36
C) STRUCTURAL TUBE (Fy=46 Ksi)	ASTM	A-500
D) STEEL PIPE (Fy=35 Ksl)	ASTM	A-53
E) ANCHOR RODS AND UNFINISHED BOLTS	ASTM	A-307
F) BOLTS, NUTS AND WASHERS	ASTM	F-155
G) WELDING ELECTRODES (E333, CLASS E7018XX)	ASTM	A-223
H) OUTRIGGERS (Fy = 50 ksl)	ASTM	A-572

FOUNDATIONS:

- THE FOUNDATION HAS BEEN DESIGNED WITH AN ASSUMED SOIL BEARING CAPACITY OF 2,000 PSF. THE ASSUMED BEARING CONDITION SHALL BE VERFIED BY THE SOIL CONSULTANT BEFORE THE CONTRACTOR MAY START PLACING THE FOUNDATION. IN THE EVENT THAT UNUSUAL SOIL CONDITIONS ARE ENCOUNTED, THE DISINGER SHALL BE NOTITIED, AND FOUNDATIONS SHALL NOT BE PLACED UNITLD DISECTION IS RECEIVED FROM THE ENISHER.
- FOOTINGS MAY BE POURED INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.
- ALL BEARING MATERIAL SHALL BE INSPECTED BY THE ENGINEERING IN INSPECTION PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT INSPECTOR SHALL BE THE SOLE JUDGE AS TO THE SUSTABILITY OF THE BEARING MATERIAL FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED. THE INSPECTOR SHALL BE THE OWNER'S REPRESENTATIVE AT THE PROCECT SIFE, AND AS SUCH MILL BE RESPONSIBLE TO HIM.
- FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE.
- WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.
- FOUNDATION WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTION, AS PER TECHNICAL SPECIFICATIONS FOR THE PROJECT.
- ALL BACKFILL SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY.
- ALL EXCAVATIONS AND BACKFILLS SHALL BE INSPECTED FOR COMPLIANCE WITH THE SUBSOIL REPORT RECOMMENDATIONS.
- 10. CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC. SUCH ACTIVITIES SHALL NOT DAMAGE ADJACENT STRUCTURES.
- . CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION AND DESIG OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY AND ADEQUATELY RETAIN EXCAVATIONS, EARTH BAINCS ANY EXISTING STRUCTURES.
- LE FONNES AND LEASTING STRUCTURES.

 JE FONNES SHALL BE FLACED ACCORDING TO DEPTH SHOWN IN THE STRUCTURAL DRAWINGS ALL FOUNTAINING BASES SHALL ACKEVED. HE GOTTO-CHACAL, DROWER ME, DETENMENT, HE SIZHABUTY OF THE SIZH, AT THIS LEVEL FOR THE PROPOSED WITH A STRUCTURE DRAWN
CAST IN PLACE REINFORCED CONCRETE:

- CONTRACTOR SHALL SUBMIT, PRIOR TO INSTALLATION ALL REINFORCING STEEL SHOP DRAWINGS. SHOP DRAWINGS SHALL BE SEALED & SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN PUERTO RICCO.
- CONCRETE ITEMS AND REINFORCEMENT SHALL BE ERECTED IN STRICT ACCORDANCE WITH OWNER APPROVED SHOP AND ERECTION DRAWINGS FOLLOWING THE DETAILS SHOWN ON PLANS.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PRODUCE CORRECTLY AUGNED CONCRETE CONSIDERING AMONG OTHER THINGS, THE ELASTIC DEFORMATION OF THE STRUCTURAL MEMBERS.
- AT HORIZONTAL JOINTS IN WALLS AND COLJAMS, THE LOWER SURFACE SHALL BE THROUGHLY CLEARED AND ALL WEAK COOSE CONNECTE REMOVED FROM THERE BEFORE POURNIG THE UPPER CONNECTE(SEE SPECS, FOR ADDITIONAL REQUIRELINESS) ON JOINT SHALL BE COVERED WITH PLASTER OR OTHERWISE WITHOUT A VISUAL EXAMINATION AND APPROVAL BY THE MISTECTOR.
- 6. SLUMP OF CONCRETE SHALL NOT EXCEED 4" UNLESS A HIGHRANCE, WATER-REDUCING ADMINITURE IS USED. THE SLUMP FEDUCING ADMINITURE SHALL NOT EXCEED 4". THE SLUMP OF CONCRETE CONTAINING A HIGH RANGE WATER-REDUCING ADMINITURE SHALL NOT EXCEED 10".
- CONCRETE SHALL BE NON-AIR ENTRAINED. AIR CONTENT SHALL BE BETWEEN 0 AND 3.5 PERCENT.
- 8. THE NOMINAL MAXIMUM AGGREGATE SIZE SHALL BE OF 3/4"

- 9. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVEW WILL IN ADVANCE OF CONCRETE PLACEDIA A GESSARY TO SHOW COMPLIANCE WITH THE PROCESS OF THE SHOW COMPLIANCE WITH THE PROCEST SPECIFICATIONS FOR ETHER THE THALL BATON OR FIELD EXPERIENCE METHOD AND FIELD EXPERIENCE METHOD FIELD EXPERIENCE METHOD AND FIELD EXPERIENCE METHOD AND FIELD EXPERIENCE METHOD AND FIELD EXPERIENCE METHOD AND FIELD EXPERIENCE METHOD FIELD EXPERIENCE METHOD FIELD EXPERIENCE METHOD FIELD F
- FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: BEAMS, GIRDERS, AND COLUMNS 1-1/2 IN.
- ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH ACI DETAILING MANUAL (SP-66) AND "THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" BY THE CRS.
- 12. ALL REINFORCING SHALL BE SUPPORTED IN FORMS USING STEEL CHARS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE".
- ALL SLAB AND CORRESPONDING BEAMS, CURBS, OR APRONS SHALL BE POURED MONOUTHICALLY.
- CONCRETE WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATIONS.
- ALL SYMBOLS AND STRESSES AS WELL AS CONCRETE WORK SHALL CONFORM TO THE STANDARD OF THE LATEST VERSION OF THE ACI BUILDING CODE.
- ALL REINFORCING, SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE WELL SECURED AND IN PLACE BEFORE CONCRETE IS POURED.
- FOR CONSTRUCTION JOINTS IN STRUCTURAL MEMBERS A VERTICAL BULKHEAD AND KEY JOINT MUST BE PROVIDED.
- LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE, WHERE CLASSES ARE NOT

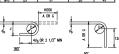
CALLED OUT ON DRAWINGS, USE CLASS B SPLICE.								
SP	LIC	ΕS	TA	BL	E (G	RADE 60)		
			TEM:	NON		COMPRESSION		
BAR SIZE	fc (psi)	TOP BARS SPLICE CLASS		OTHER BARS SPLICE CLASS		SPLICE		
		A	В	A	В			
	2,000	22*	28	17"	22	12"		
#3	4,000	19"	25"	18"	19"	12"		
	5,000	17"	22"	13"	23"	12"		
# 4	3,000	29"	38"	22"	17*	15*		
	4,000	25"	33"	19"	25"	15*		
	5,000	23*	29	17"	25	15"		
# 5	3,000	36"	47"	28"	36	19"		
	4,000	31"	41"	24"	31"	19"		
	5,000	28"	36"	22"	28"	19"		
	3,000	43*	56"	33*	43"	23*		
# 6	4,000	37*	49	29°	37"	23"		
	5,000	34"	44"	26*	34"	23"		
	3,000	63"	81"	48"	63"	27*		
#7	4,000	54"	71°	42	54"	27*		
	5,000	49*	63"	38,	49"	27*		
	3,000	72°	93	55*	72	30"		
#8	4,000	62"	81"	48"	62"	30"		
	5,000	56"	72"	43*	56"	30"		

- 20. ALL OPENINGS IN CONCRETE WALLS SHALL BE REINFORCED AROUND WITH 2 45 BARS PLACED AT 2 INCHES FROM THE FACE AND EXTENDING 24 NO.HES BEYOND CORNERS, UNLESS OTHERWISE SPECIFIED IN PLANS.
- TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN ALL ONE WAY SLAB NORMAL TO THE PRINCIPAL REINFORCEMENT IN ACCORDANCE WITH LATEST VERSION OF THE ACI BUILDING CODE.
- ALL ONE WAY SLAB TEMPERATURE REINFORCEMENT SHALL BE AS FOLLOWS; (UNLESS NOTED OTHERWISE) 0.18% OF SECTIONAL AREA (INCLUDING INTEGRAL TOPPING).
- MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH, WHICHEVER IS GREATER.
- 24. SLAB ON GROUND, AS INDICATED ON DRAWINGS.
- FOR CONCRETE FORMWORK, SURFACE FINISHING, BEVELED CORNERS AND DRIPS, SEE ARCHITECTURAL PLANS.
- PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 304 AND PROJECT SPECIFICATIONS.
- 27. PROVIDE DOMELS IN PEDESTAL AND/OR WALL FOOTINGS EQUAL IN CHIEF SACHING, SEE AND INSIDER TO CHETICAL. REINFORCEMENT, EXTENDING A TRISSON SPUCE LENGTH INTO 114P PEDESTAL AND/OR WALL AND 40 BAS DIAMETER INTO FOOTING. (THE LATERAL EMBEDMENT SHALL BE EXTENDED AS NECESSARY TO PROVIDE A MINIMUM HORSONTAL LEG RESTING
- 28. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEGRECATION OF AGGRECATES IN SUCH CASES, HOOPERS ON VERTICAL CHUTES OF TRUNKS SHALL BE USED. THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED THE ABOVE REQUIREMENTS.

- 29. THE SIZE OF NAILS AND SIMILAR FASTENERS DRIVEN INTO CONCRETE SHALL BE SUCH, AS NOT TO CRACK OR IMPAIR IT. REVERTHELESS, IF THE CONCRETE IS DAMAGED, IT SHALL BE PROPERLY REPAIRED AFTER REMOVING THE DAMAGED PORTION AND SUITABLE JOINT SURFACE ARE PROVIDED.
- 30 ALL CAST IN PLACE REINFORCED CONCRETE STRUCTURAL MEMBERS SHALL BE PROPERLY CURED IN ACCORDANCE WITH THE LATEST VERSION OF THE ACI CODE, CHAPTER V AND ACI 308.
- 32. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 33. ALL NEGATIVE REINFORCEMENT (TOP REINF.) AND POSITIVE REINFORCEMENT (BOTTOM REINF.) IN SLABS AND BEAMS SHALL BE EXTENDED BEYOND THE CONTER LINE OF THE END SUPPORTS IN ACCORDANCE WITH THE LATEST VERSION OF THE ACI BUILDING CODE, UNLESS OTHERWISS SPECIFIED.
- 34. WELDING OF REINFORCEMENT SHALL BE WITH LOW HYDROGEN ELECTRODES IN CONFORMANCE WITH "REINFORCING STEEL WELDING CODE" AND "RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL" BOTH BY THE AWS (AWS D12.1. & AWS D1.4 RES
- 35. ALL FORMWORK FOR FLEXURAL MEMBERS SHALL BE BUILT WITH A CAMBER CORRESPONDING TO ITS WON DEFORMATION PLUS THE STRUCTURE DEAD LOAD DEFORMATIONS. IN DETERMINING THE AMOUNT OF CAMBER, THE CONTRACTOR SHALL HAVE THE ASSISTANCE OF THE DESIONER WHERE SO REQUESTED.
- 36. NO JUNIT, OPENING SLOT OR GROUPE OTHER THAN THAT SHOWN ON DEALINESS SHALL BE PRENITTED WITHOUT PRECIPICUS PROVING BY THE ENGINEER, ALL CONSTRICTION ONLY SHEFTACES SHALL BE CLEANED AND ROUGHERD IMMEDIATELY BEFORE CONCRETING AND TREATED AS INSTRUCTED IN THE "ACI MANUAL OF CONCRETE ENGINEE".
- 37. CONDUIT OF PIPES SIZE (O.D.) SHALL NOT EXCEED 30 PERCENT OF TOTAL SLAB THEORIESS AND SHALL BE PLACED BETWEEN THE TOP & BOTTON REPROFEDENT, UNLESS SEPCIOLALLY DETAILED OTHERWISE. CONCENTIONS OF CONCUITS OF PIPES PROVIDED.
- 38. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE SEFORE PLACING, DO NOT CUT ANY REINFORCEMENT BAR WHICH MAY CONFLICT, CORING IN CONCRETE IS NOT PERMITTED U.N.O.
- WATER-CEMENT RATIO REQUIREMENTS FOR DIFFERENT COMPRESSIVE STRENGHTS OF CONCRETE.

COMPRESSIVE STRENGHT	WATER-CEMENT RATIO BY WEIGHT				
AT 28 DAYS, psi	NON-AIR ENTRAINED CONCRETE	AIR ENTRAINED CONCRETE			
7,000	0.33				
6,000	0.41	0.32			
5,000	0.48	0.40			
4,500	0.50	0.42			
4,000	0.55	0.45			
3,500	0.58	0.50			
3,000	0.62	0.56			
2,500	0.72	0.66			

BAR	FINISHED BEND	180° H	DOKS	90° HOOK
SIZE	DIAMETER "D", IN.	A OR G	J	A OR G
#3	3*	6"	4"	7*
84	3"	7	5"	9*
#5	4"	8"	7*	11"
#6	5*	9"	8"	13*
#7	6*	11"	9,	15*
#8	6"	12*	10"	17"
#9	10"	16"	12"	21"
#10	11"	18"	13"	23"
<i>#</i> 11	12"	20"	15*	26"
<i>8</i> 14	17"	28"	21"	33"
#18	23*	37"	28"	45"



- STRUCTURAL STEEL
- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST VERSION OF THE AISC CODE OF STANDARD PRACTICE. EXCEPT AS MODIFIED IN THESE NOTES ANDTHE PROJECT SPECIFICATIONS AND/OR DRAWNOS.
- THE STELL STRUCTURE IS A PARTIAL-SELF-SUPPORTING STELL FRAME AND IS DEPENDENT UPON DAMPHOAD ACTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY AND FOR RESIST MAKED AND CONCRETE WALLS FOR STRUCT AND FOR RESISTANCE TO WIND AND SEISMC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STRUCTURY AND FOR RESISTANCE TO WIND AND SEISMC FORCES UNIL THESE ELEMENTS ARE COMPLETED AND SEISMC FORCES UNIL THESE ELEMENTS ARE COMPLETED AND ARE CAPABLE OF PROVIDING HIS SUPPORT.
- THE FABRICATOR IS RESPONSBLE FOR THE SHOP DRAWINGS OF ALL CONNECTIONS. CONNECTION DETAILS INDICATED ON THE CONNECTION SHOP DRAWNS. CALL SHOP DRAWNGS SHALL BE SIGNED AND SEALED BY THE FABRICATOR'S ENGINEER WITH THE EMPRISE
- SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGJS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. UNLESS NOTED OTHERWISE, ANCHOR BEAMS TO MASONRY WITH TWO (2) 3/4" DIAMETER ANCHOR BOLTS WITH 4" HOOK AND 1"-4" EMBEDMENT.
- STRUCTURAL STEEL WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATIONS. AISC, ASTM & AWS SPECIFICATIONS WILL GOVERN ALL STRUCTURAL STEEL WORKS.

- DESIGN AND CONSTRUCTION SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION STANDARD PRACTICE.
- STRUCTURAL STEEL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER AND IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY, (AWS), REQUIREMENTS.
- ALL INSPECTION AND TESTING OF WELDING SHALL BE DONE IN ACCORDANCE TO SECTION 501 THRU 607 OF THE AWS CODE FOR WELDING IN BUILDING CONSTRUCTION.
- ALL CONNECTIONS SHALL BE BEARING TYPE UNLESS OTHERWISE SPECIFIED ON PLANS.
- VERTICAL BRACING CONNECTIONS SHALL DEVELOP THE TENSION CAPACITY OF THE CONNECTED MEMBER.
- MOMENT CONNECTIONS SHALL BE DESIGNED TO DEVELOP THE PLASTIC MOMENT CAPACITY OF THE BEAM U.N.O.
- SHOP DRAWINGS FOR ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE SUBMITTED TO THE DESIGNER FOR APPROVAL WELL IN ADVANCE OF CONSTRUCTION. 14. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR COMDITIONS SHALL BE REPORTED TO THE ENGINEER FOR REVEW AND APPROVAL OR REJECTION, PRIOR TO REMEDIAL OR CORRECTIVE ACTION TO BE IMPELEMENTED.
- 15. UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUMS SHALL

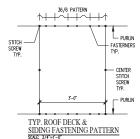
A) WELD SIZE 3/16" B) BOLT DIAMETER 3/4" C) PLATE THICKNESS 3/8" D) CLIP ANGLE THICKNESS 5/16" E) BOLTS/ANGLE LEG 2"

- 16. ONE BOLT ASSEMBLY SHALL CONSIST OF:
 - A)A HEAVY HEX STRUCTURAL BOLT B)A HEAVY HEX NUT C)A HARDENED STEEL WASHER
- 17. COLUMN STIFFENERS SHALL BE PROVIDED AS REQUIRED TO DEVELOP THE PLASTIC MOMENT CAPACITY OF THE CONNECTED BEAM U.N.O.
- 18. FRAMED BEAM CONNECTIONS SHALL BE OF A TYPE SMILAR TO AND OF EQUAL CAPACITY AS THOSE SHOWN IN TABLES II., III AND IV OF THE AISC MANULA, AND SHALL DEVLOP THE SHEAR CAPACITY (Wc/ZL), GIVEN IN THE UNIFORM LOAD CONSTANTS
- CONNECTIONS SHALL BE DESIGNED AS SLIP CRITICAL, WITH BOLT LENGTH AS PER BEARING TYPE X.
- HORIZONTAL BRACING CONNECTIONS SHALL DEVELOP THE COMPRESSION CAPACITY OF THE CONNECTED MEMBER.
- STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS, "K-SERIES" OF THE STEEL JOIST INSTITUTE (SJI).
- STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER. THE MANUFACTURER'S ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN. ADEQUACY AND SAFETY OF ALL STEEL JOISTS. ALL SHOP DRAWNGS SHALL BE SIGNED AND SEALED BY THE MANUFACTURER'S ENGINEER WITH THE ENGINEER'S SEAL.
- UNLESS OTHERWISE NOTED, STEEL JOISTS SHALL BE DESIGN AS SIMPLY SUPPORTED, UNIFORMLY LOADED TRUSSES WITH TOP CHORD BRACED AGAINST LATERAL BUCKLING. THE UNIFOESION LOAD SHALL BE THE TOTAL SAFE UNFORMLY DISTRIBUTED LOAD AS SHOWN IN THE SJI STANDARD LOAD TABLE. 4. WHEN NET UPLIFT FORCES DUE TO WIND ARE SHOWN ON THE DRAWNOS, THE WANNFACTURER SHALL DESCON THE JOSTS FOR MUST BE FROVIDED NEAR THE FIRST BOTTOM GHORP PAIR IG MUST BE FROVIDED NEAR THE FIRST BOTTOM GHORP PAIR FORMS WHENEVER UPLIFT DUE TO WIND FORCED IS SHOWN ON THE DESCIN DRAWNOS.
- 5. WHEN NONUNIFORM OR CONCENTRATED LOADS ARE SHOWN ON THE DRAWNOS, THE MANUFACTURER SHALL DESIGN THE JOISTS IN ACCORDANCE WITH PARAGRAPH 4.1 OF THE STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS, K-SERBES.
- STEEL JOST BROWN SHALL ER PROJUCED IN ACCORDANCE WITH THE SIFE PROJUCTION AND REPORT OF THE PROJUCT OF THE SIFE PROJUCT OF THE
- MINIMUM BEARING REQUIREMENTS, UNLESS NOTED OTHERWISE. 2-1/2" ON STRUCTURAL STEEL 4" ON STEEL BEARING PLATES OVER MASONRY OR CONCRETE
- . UNLESS NOTED OTHERWISE, STEEL JOISTS SHALL BE ATTACHED TO SUPPORTING STEEL WORK OR STEEL BEARING PLATES WITH (2) 1/2" DIAMETER BOLTS.
- STEEL JOISTS AT COLUMN CENTER LINES SHALL BE BOLTED TO STRUCTURAL STEEL WITH (2) 1/2" DIAMETER BOLTS. WHERE STEEL JOISTS DO NOT SPACE TO COLUMN CENTER LINES, USE BOLTED CONNECTIONS FOR THE STEEL JOIST CLOSEST TO THE
- 11. ALL ITEMS SUCH AS MECHANICAL EQUIPMENT, DUCT WORK, PIPE, CELLING, FIXTURES, ETC. THAT ARE TO BE SUPPORTED OR HUNG FROM THE STEEL JOIST SHALL BE FRAMED WITH AUMULARY FRAMING TO THE PANEL POINTS OF THE STEEL JOIST. METHODS OF FRAMING THAT INDUCE BERDION TO THE STEEL JOIST OHORDS OR WEB MEMBERS WILL NOT BE PERMITTED.

- REPAIR OR REPLACE ALL DAMAGED STEEL JOISTS, THE PROFESSIONAL OF RECORD SHALL BE THE SOLE JUDGE AS TO WHETHER A JOIST CAN BE REPAIRED OR MUST BE REPLACED.
- 13. STEEL JOIST WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATIONS. AISC, AJI, AWS & ASTM SPECIFICATIONS WILL APPLY.

METAL ROOF DECK:

- METAL ROOF DECK SHALL COMPLY WITH THE REQUIREMENT OF THE STEEL DECK INSTITUTE SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK.
- 2. METAL ROOF DECK SHALL BE CONFIGURATION, DEPTH AND MINIMUM GAGE AS SHOWN ON THE DRAWNIGS. ATTACHMENT TO THE SUPPORTING STRUCTURE SHALL BE AS SHOWN ON THE DRAWNIGS AS A MINIMUM. SEE ROOF PLAN NOTES.
- 3. DO NOT HANG OR SUPPORT ANY LOADS FROM METAL ROOF DECK
- METAL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.
- METAL ROOF DECK WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND SPECIFICATIONS.
- TRANSLUCENT PANEL WITH A NOMINAL WEIGHT OF 802 PER SQUARE FOOT AND SHALL MATCH THE CONFIGURATION OF THE ROOF PANEL.
- A METAL DECK CONNECTION SHALL BE #12 SCREWS ON 36/6 PATTERN, WITH #10 STITCH SCREWS IN SIDELAPS, SCREWS SHALL BE CORROSION RESISTANCE W/ SEALING NEOPRENE WASHER



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Drawn by : Mailleen Pearso Checked by: Eng. Wilfredo Rodriguez 21 September 2020 No. Revision Date E

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IMPROVEMENTS & EXPANSION MUNICIPAL COLISEUM ANGEL **MERCADO** VEGA

Bo. PUEBLO

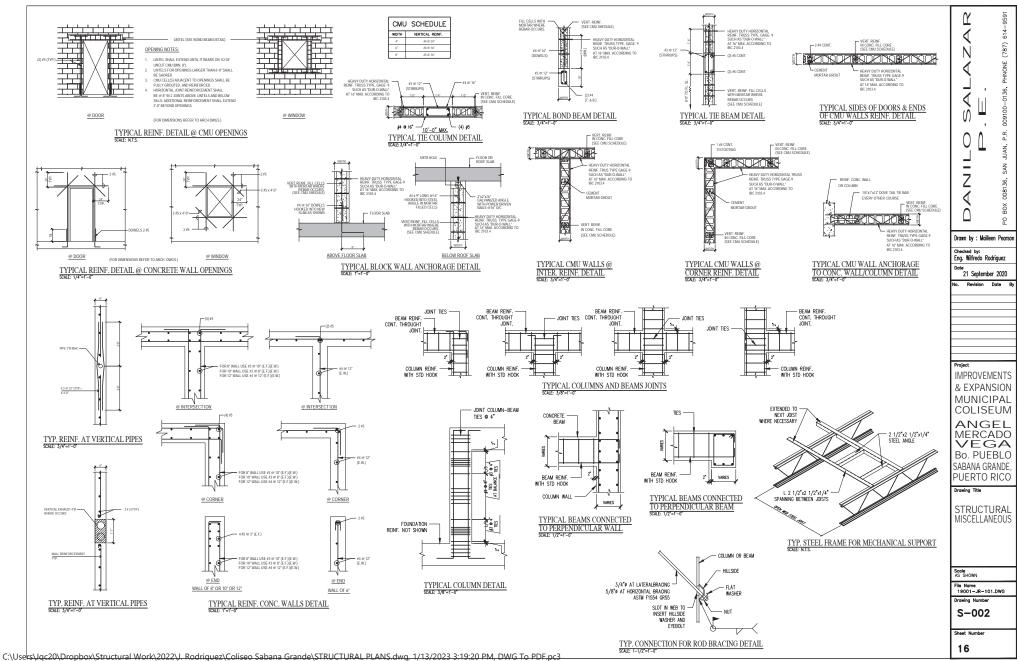
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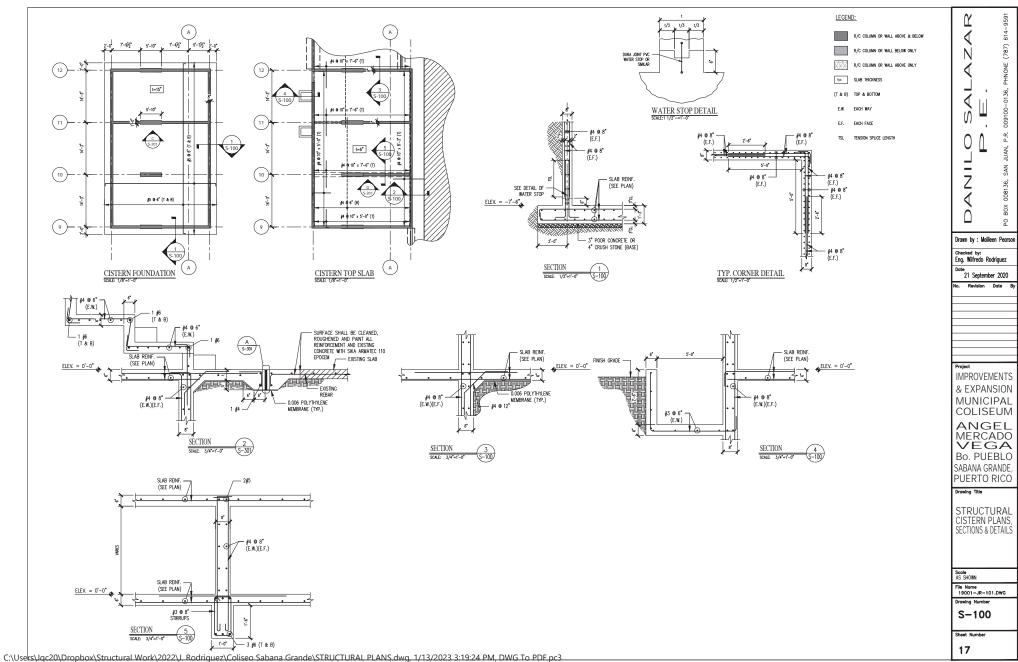
STRUCTURAL NOTES

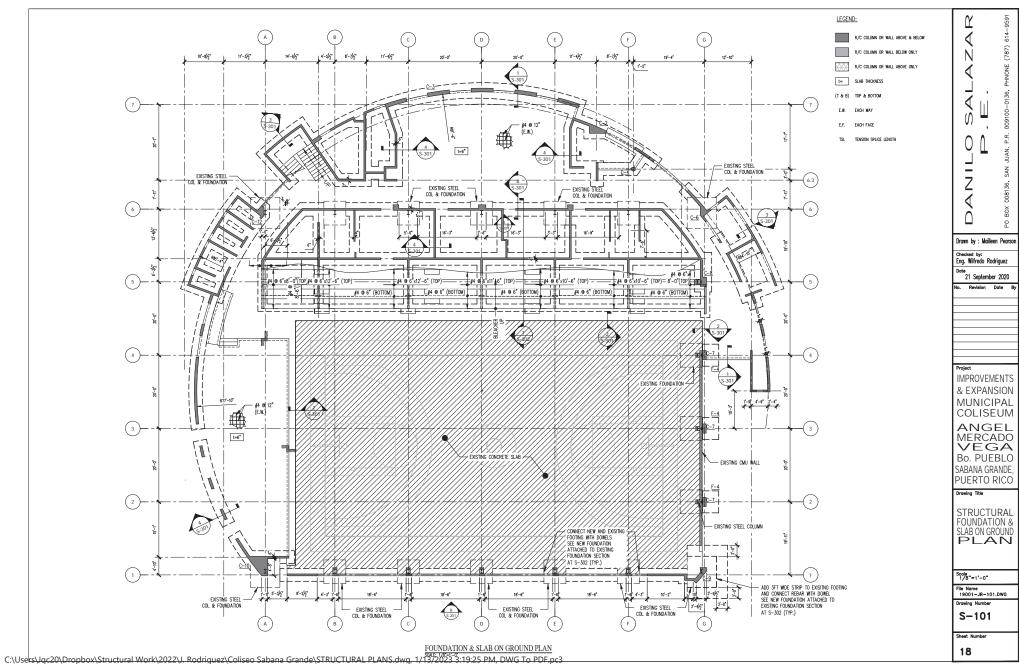
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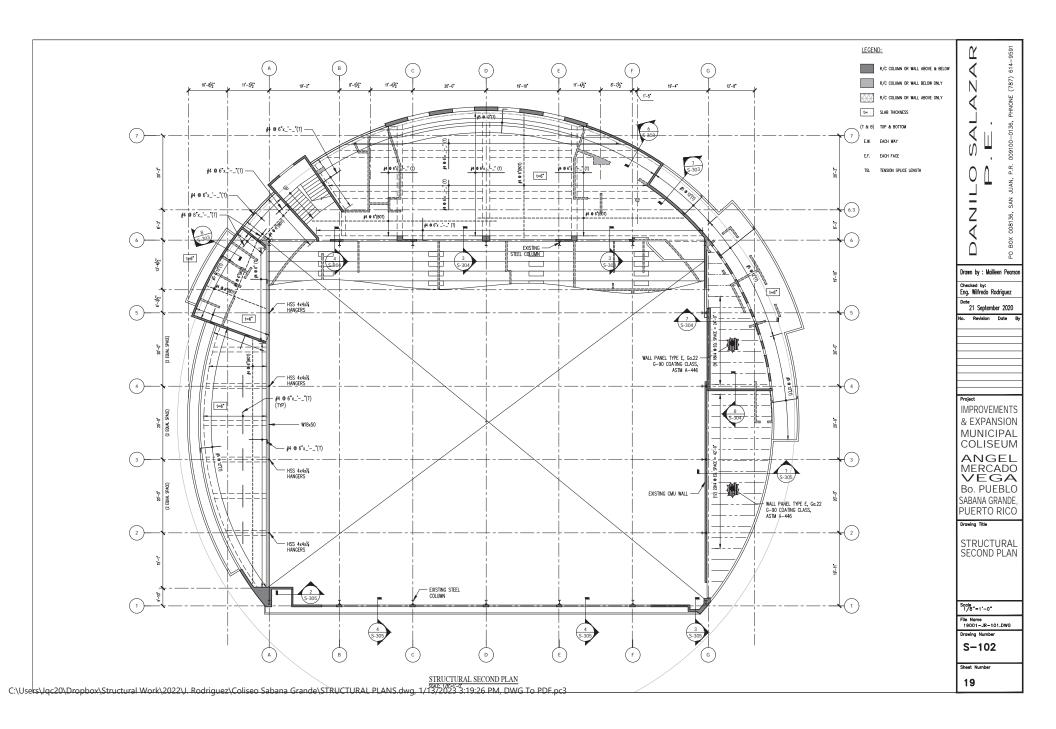
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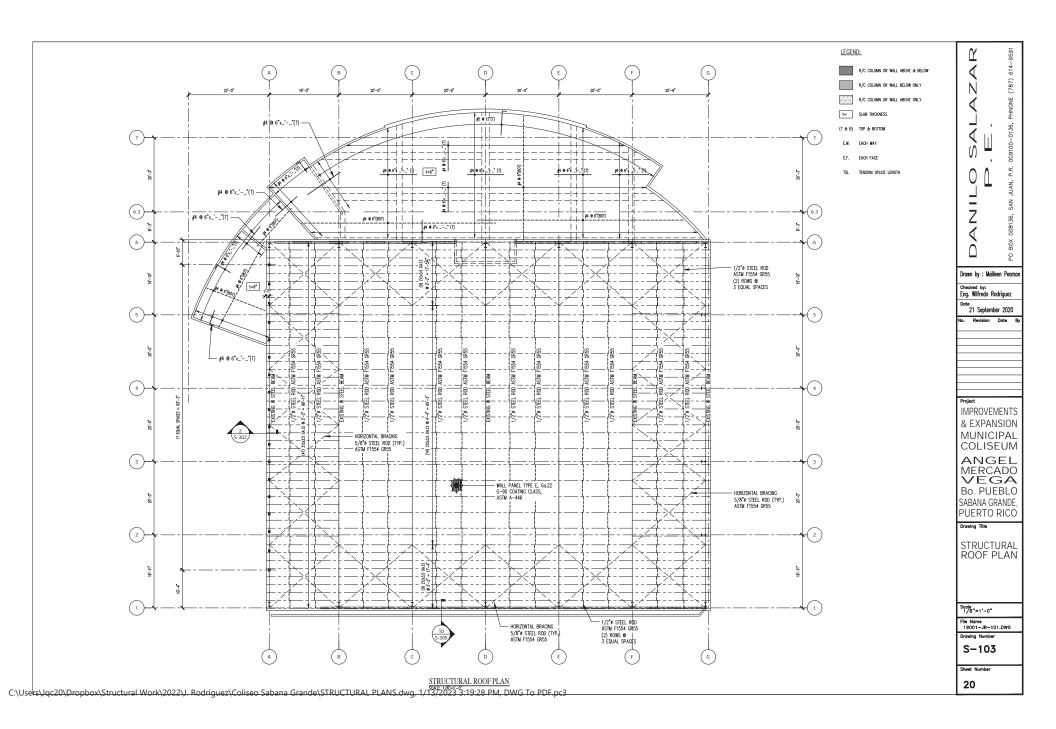
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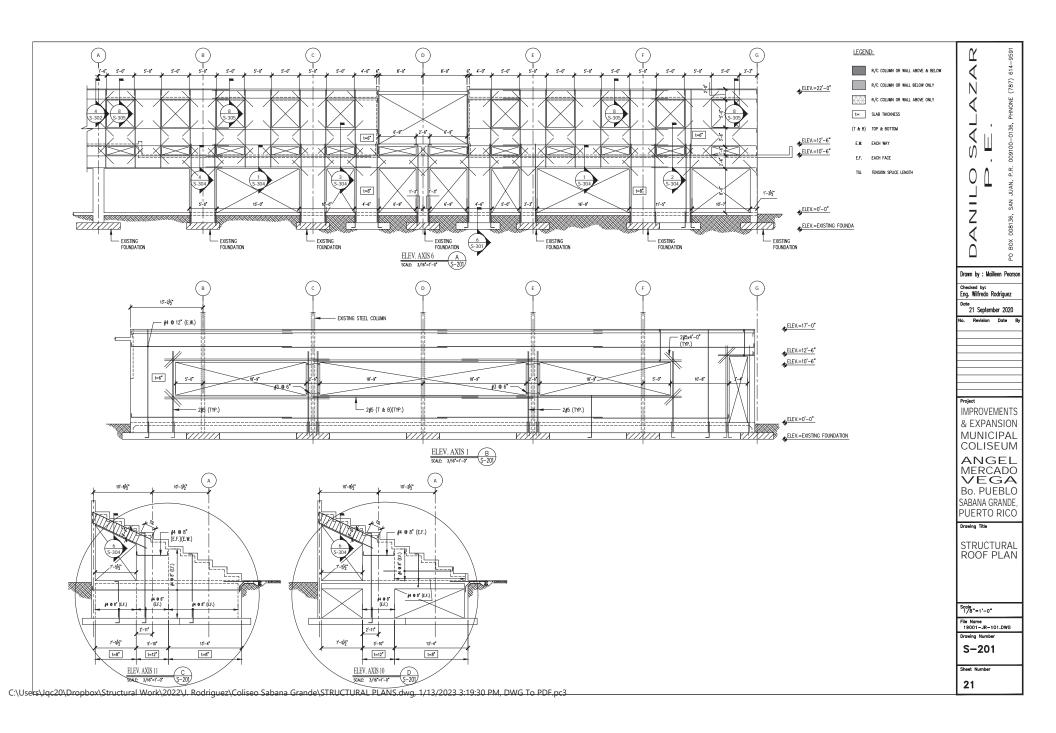


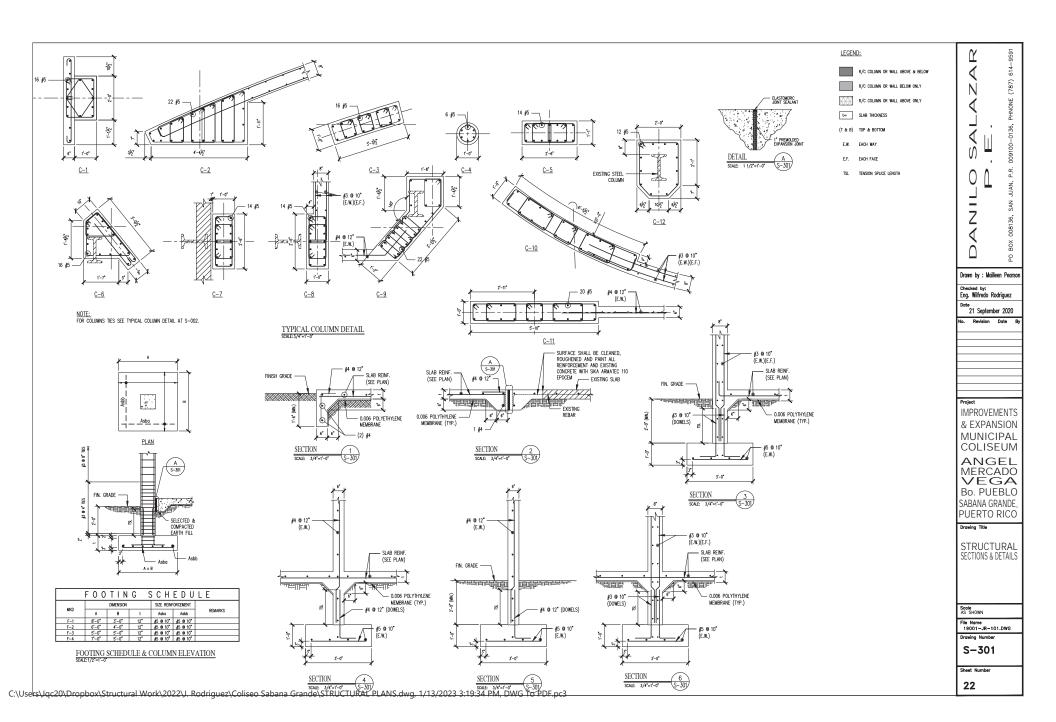


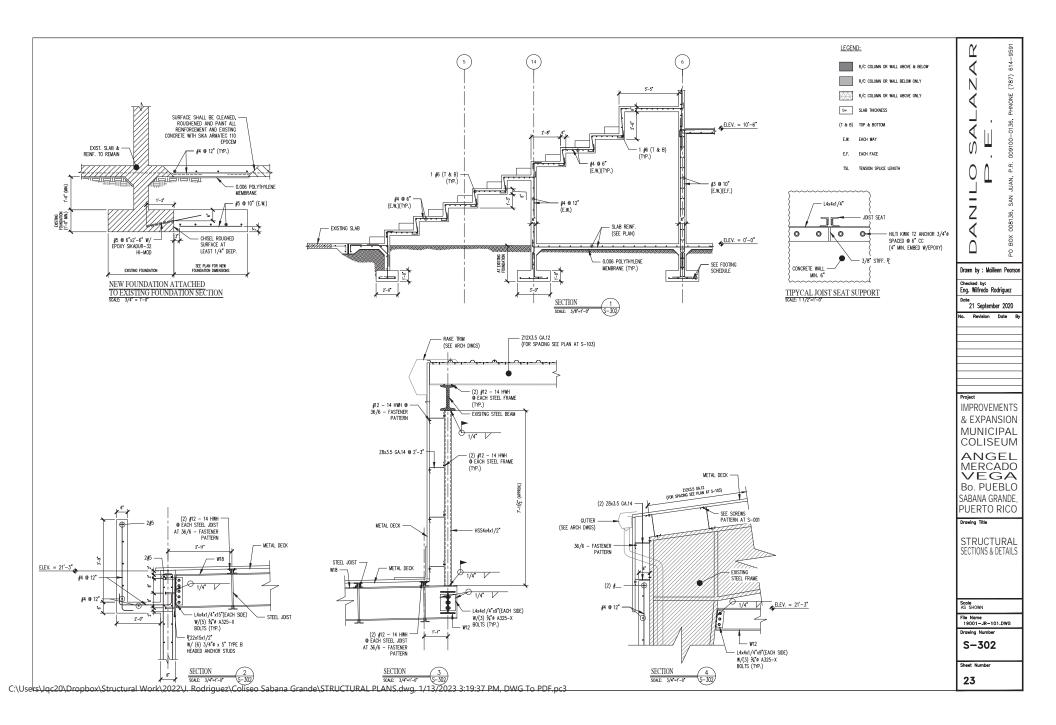


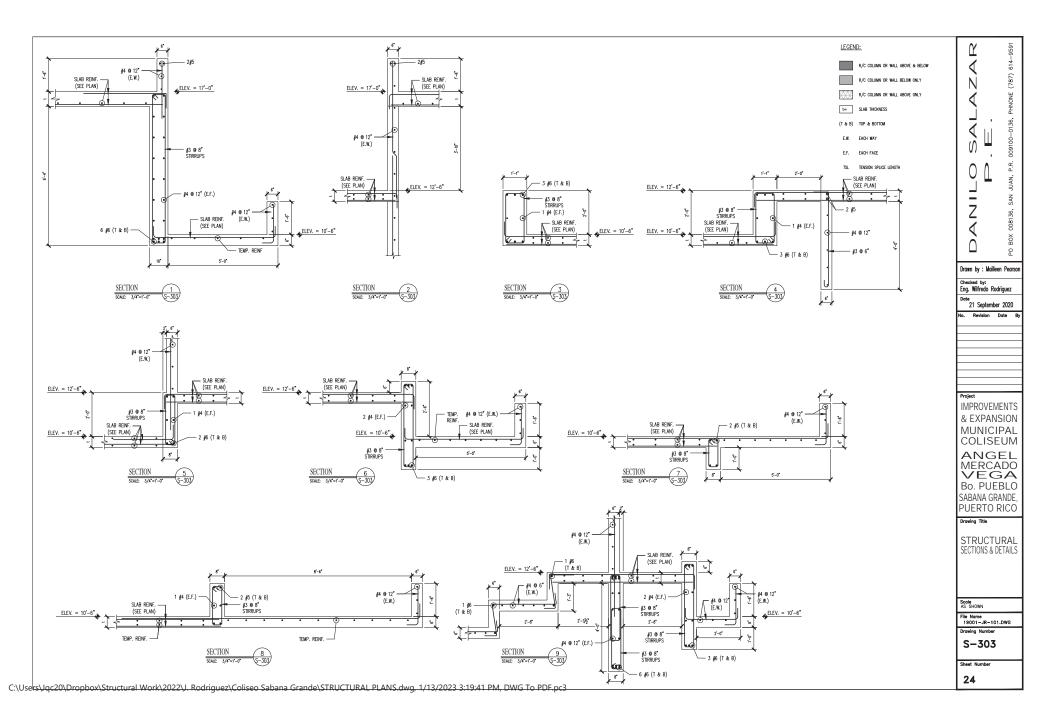


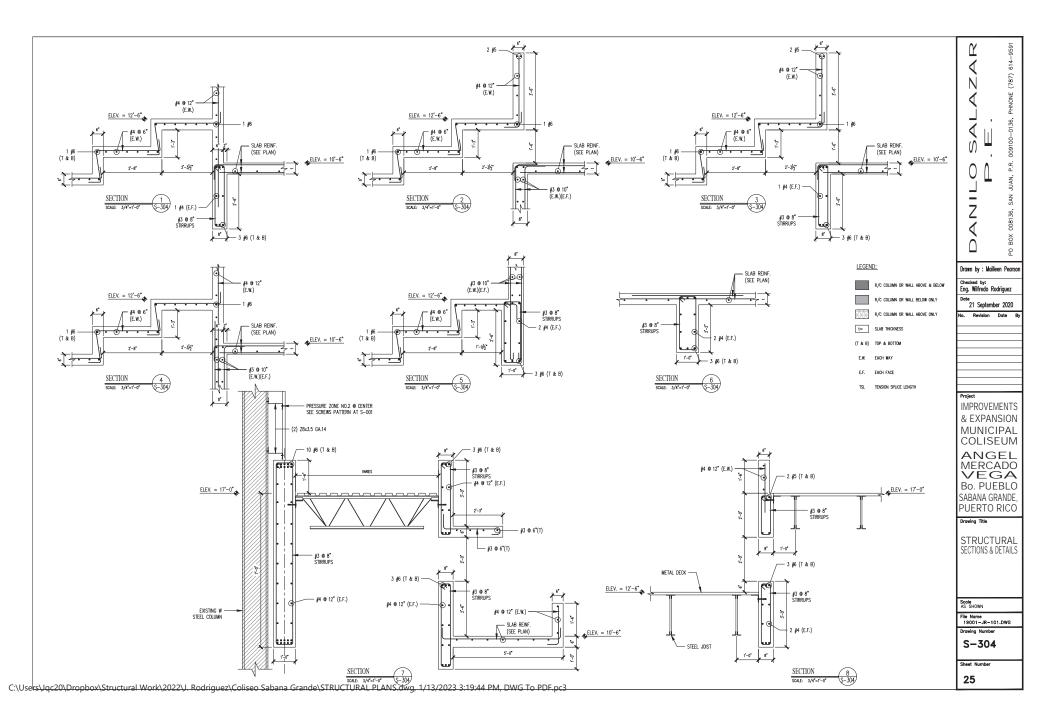


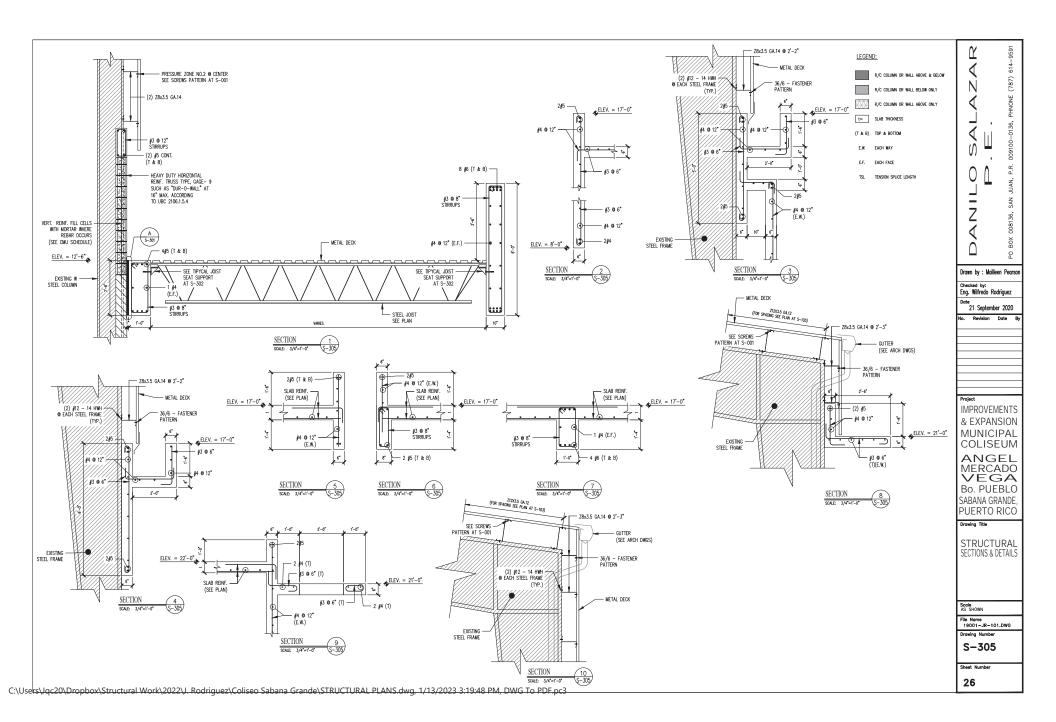


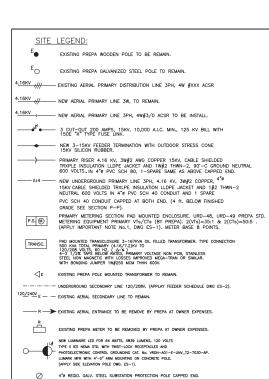












IMPORTANT NOTES

- PROJECT LIMIT.

1- PREPA SELECT THE METER TYPE TO BE INSTALL IN THIS PROJECT ACCORDING WITH THE REQUIRED SERVICE AND AVAILABLE IN THE STORAGE. THE CONTRACTOR SHALL BE COORDINATED WITH METERIAL PERIOREER OF BRYAMON OFFICE TO PROVIDE BASE METER SPECIFICATION BEFORE BEGIN THE CONSTRUCTION WORK.

ALL DISTRIBUTION TRANSFORMERS TO BE CONNECTED TO THE PREPA SHALL BE DESIGNED AND CONSTRUCTED WITH IMPROVED LOSSES FEATURES.

3- TO SERVE THIS PROJECT P.R.E.P.A. SHALL IMPROVE THE ELECTRICAL POWER LINE FOR AMOUNT OF \$XXXXXX DOLLARS TO BE PAID BY THE OWNER. (APLICAR NOTA ESPECIAL NO.1).

THE CONTRACTOR IS RESPONSIBLE FOR THE DAMAGES CAUSED TO THE EXISTING UNDERGROUND FACILITIES (PREPA, PRASA, PRTCO, CTV, GAS LINE. ETC.).

THE CONCTRACTOR IS RESPONSIBLE FOR COORDINATING WITH PREPA THE CONNECTION POINT. DETAIL AND COST OF IT SHALL BE COORDINATED WITH MAYAGÜEZ ENGINEERING DIRECTOR.

THE OWNER OF THIS PROJECT OR HIS REPRESENTATIVE SHOULD PREVIOUSLY NOTIFY AT PREPA OF THE ELECTRICAL WORK, BEGINS IN THE PROJECT FOR REQUIRED INSPECTION, APPROVAL AND COORDINATION NECESSARY.

ALL CONDUIT STREET OR PARKING CROSSING SHALL BE ENVELOPE IN 4" MIN. 3000 PSI CONCRETE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH PREPA MAYAGÜEZ OF PRIMARY VOLTAGE TRANSFORMER BEFORE BUYING IT.

THE CONTRACTOR HAS TO COORDINATE WITH THE EXCAVATION CENTER BEFORE STARTING ANY WORK THAT INVOLVES EXCAVATION. THIS OFFICE CAN BE LOCATED IN THE SEVEN FLOOR OF MINILLAS BUILDING, EXCUSTIVE ORDER OR 1997-42.

10- THE CONTRACTOR SHALL SUBMIT SHOP DRAWING OF THE PAD CONDUIT OF ALL ELECTRICAL WORKS AND INSTALLATION EQUIPMENT FOR APPROVED BY CONSULTAN ENGINEER BEFORE BEGIN WORKS.

11- UNLESS OTHERWISE INDICATED ALL PRIMARY RISER CONDUITS SHALL BE PVC SCH 80.

NOTAS GENERALES

El dueño del proyecto es responsable de gestionar y obtener, antes de la fecha comienzo de obra, todos los endosos, permisos y servidumbres requeridas por er aubernamentales, estatoles, municipales, federales y privadas concernientes al des

3. El dueño de seta obra tiene que controtor los servicios de un ingeniero licenciado colegiado que inspeccione la coestrucción de las obras electricas de couerdo con Certificación de Plance de Proyectos de Construcción Electrica de la EXE vigente. El dueño tendrá que notificor a la AEE la designación de este inspector privado antes del comienzo del proyecto.

La ejecución de las obras eléctricas, según diseñadas en estos planos, deberá observi la mejor práctica de la industria eléctrica y construcción de acuerdo con la normas reglamentación adoptadas por la AEE y agencias concervientes, a ligual que con los codigos, NEC y NESC y demás estafladores de IEEE, NFPA, NEMA y ANSI adoptados.

Se prohibe la realización de cualquier tipo de trabajo en las franjas de servidumbre eléctrica sin la autorización por escrito de la AEE.

SISTEMAS:

El dueño del proyecto es responsable de realizar las pruebas de los cables primarios y secundarios con sus terminaciones. Los resultades de estas pruebas tienen que estar de acuerdo con los parfimentes establecidos por la EEE para las mismass. Estas pruebas tienen que realizarse en coordinación con un representante de la Oficina de Inspecciones de Deparmento de Insperierá de Distribución correspondiente.

Las bancadas del sistema soterrado serán inspeccionadas por la AEE antes de ser cubierta y compoctadas.

Los conectores que se utilizarán para la conexión a tierra de antenas y sub serán de soldadura exotérmica (thermo-weld) o de compresión.

9. El contratista proveerá cable de halado (fishwire) en cada conducto de resguardado.

10. Todo sistema de distribución tendrá una resistencia máxima a tierra de 10 chmios. Se instalará una varilla para conectora a tierra el neutral en cada cuatro postes o cada 1,000 pies y en todos los transformadores.

Cada base de hormigón para postes tiene que incluir dos conductos de resguardado para uso futuro, según requerido por la AEE.

POLE SCHEDULE POLE NO. 1 2 3 4 REMARKS INSTALL EXISTING REMOVED CREOSOTED CONCRETE SELF SUPPORT HEIGHT (FT.) 50' 50' CLASS CP-C6 H-6 H-4 M 2-1 URD-4,5 CP-C5 E1-2-3 F1-3,E-3

COORDINATE:

PROTECTION POLE DETAIL NOT TO SCALE

CONCRETE

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GENERAL NOTES REQUIRED BY P.R.E.P.A.

2- The contractor shall inform P.R.E.P.A. Area Office when the construction will start.

3- Coordinate the exact point of connection and construction standards with the local P.R.E.P.A. office before construction begins. 4— The electrical contractor shall verify the primary voltage serving the project before buying the cable and other primary equipment.

5- Approval of materials and/or equipment by P.R.E.P.A. shall be obtained prior to issue of purchase order.

6- All the installation shall be made according to the applicable construction standards of P.R.E.P.A.

7- All installation shall be made in strict accordance with the latest standards, rules and regulations of P.R.E.P.A., N.E.S.C., N.E.C., A.N.S.I., N.E.M.A., and the Planning Board.

8- All works on existing lines shall be done by P.R.E.P.A. at owner's expense 9- Construction of new lines shall be done by electrical contractor except as otherwise

manuisis:
A) Distribution Standards Manual.
B) Underground Distribution Standards Manual.
C) Street Lighting System Manual.
C) Transmission Lines Standard Manual.
C) Transmission Lines Standard Manual.
Coordinate with P.R.E.P.A. for the lotest rules and regulations.

13— Overhead and underground system construction standards shown on schedule are for information and reference only. They may very according to field conditions and/or P.R.E.P.A. requirements. Any variations because of above reasons shall be done accordingly but with the approval of P.R.E.P.A.

14- All new poles are to be installed in the limits of property line.

16— The depth of the holes for poles and anchors for guys will be inspected and approved by P.R.E.P.A. before back filling.

17- Any relocation shall be equal or better than the existing one, and in accordance to the latest standards.

18— Up one mile from sea shore all equipment shall be stainless steel construction or galvanized with heavy duty fendix.

20- The contractor shall coordinate with P.R.E.P.A. before casting the bases for self supported poles.

21- The contractor shall provide two spare 4" R.G.S. or P.V.C conduits capped on both end on all self supported pole bases.

22- In any case where a pole is installed in a corner, the contractor will coordinate with P.R.E.P.A. the possible installation of guys, in the field.

25- All primary cables shall be hi-tested after prefabricated stress cones are installed at all terminals, as per P.R.E.P.A. standards.

Provide electrical 5" wide yellow identifying tope for underground cables, install over all ducts at 12" deep. The tope shall be permanently with continuous black letters 1½" x 5,6" with the words "PEURON-PEURON" on the edition.

27— All underground cables and/or conduits shall be inspected and approval by P.R.E.P.A. before back filling.

28— There shall be no water or sewage lines under the floor of transclosure, or switching units, or substations.

29— Conduit runs longer than 450 ft. shall be provided with pull boxes, so that maximum coble pulls do not exceed 450 ft., Pull boxes shall comply with P.R.E.P.A.'s URD standards.

30— Street lighting circuits shall be protected by means of a weather proof line fuse kit with an adequate fuse per live line.

31- Yaults, substations, S.U.'s, transclosures, etc. shall be grounded by a $5/8^\circ \times 8^\circ$ ground rod with 8 mills cooper deposit and ground resistance will not exceed 10 ohms.

32— Ground system for pedestals, transclosures, transformers and/or switching unit have a maximum resistance of ten (10) ohms. The contractor shall verify this conditions in the field.

36— Contractor shall coordinate highway electrical crossing with the Department of Public Works.

37— At street crossing, sidewalks and where cables crosses gas, sewage and other facilities, services cable shall be protected by P.V.C. SCH. 40 conduits and kept at minimum separation of 13" from other utility lines.

40- Meters shall not be located more than 50' from metering equipment 41- The contractor shall be responsible to coordinate P.R.E.P.A. metering office the availability of the outdoor or indoor CT's/PT's for cluster mounting before starting construction. If said equipment's are not available, the project will be metered in secondary.

42- P.R.E.P.A. will not be liable for any change during construction due to terrain conditions.

43— Any customer demanding more than 50 KVA shall be billed according to primary rate G.S.P.

44- P.R.E.P.A. will not energize the final electrical works until all rights of way are turned over by the owner and certified by P.R.E.P.A.'s Legal Division. This note applies to the right of way within and outside the boundaries of the project.



LOCATION PLAN LAMBERT COORDINATE (NAD 83M) Y= 226608.4946

NOTAS ESPECIALES

. El dueño del proyecto aportará a la AEE:

X la cantidad de \$_____ para mejoras al sistema eléctrico

2. La AEE no conectará el proyecto a su sistema eléctrico hasta tanto el dueño constituye los servidumbres requeráda de acuerdo con el reglamento de servidumbre para lo Autoridad de Energía Distorica. Esta nota aplica a toda servidumbre requerida, ya sea dentro como fuera de los limites del proyecto.

La instalación de subestaciones, transformadores u otro equipo eléctrico sobre sistema de alcantarillado, líneas de agua u otras utilidades está prohibida.

PA. BOX BOOK CONTROL OF LINE AND PAIR OF LINE AND PAIR OF LINE AND PAIR OF LINE AND PAIR OF LINE AND L

Todo los equipos a utilizarse en la construcción tiene que cumplir con los estándares de IEEE, ANSI, NEMA y ATSM.

contratista es responsable de verificar con la AEE que todo material o equipo c carse esté aprobado por la AEE previo a su instalación. La AEE se reserva el icho de aceptar cualquier equipo que se vaya a transferir.

Todo equipo y material (incluyendo transformadores y gabinetes de subestaciones) a ser en acero inoxidable, con excepción de las bases de mediciones.

En los sistema soternados, tienen que utilizarse cables primarios con terminaciones de 15 kV para voltajes de distribución y de 46 kV para líneas de 38 kV

CERTIFICACIÓN DEL DISEÑADOR

geniero o arquitecto, licenciado y colegiado, y qu ar estos planos de construcción ante la A.E.E.

FIRMA DEL DISEÑADOR

FNDOSO MBRE DE PROVECTO: IMPROVEMENTS & EXPANSION MUNICIPAL COLISEUM ANGEL MERCADO VEGA Bo. PUEBLO, SABANA GRANDE, PUERTO RICO

CARGA (AVA): 500

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Drawn by : Montilla Garcia

DECEMBER 2020

IMPROVEMENTS & EXPANSION MUNICIPAL COLISEUM ANGEL **MERCADO** VEGA

Bo. PUEBLO SABANA GRANDE PUERTO RICO

LEGEND AND NOTES

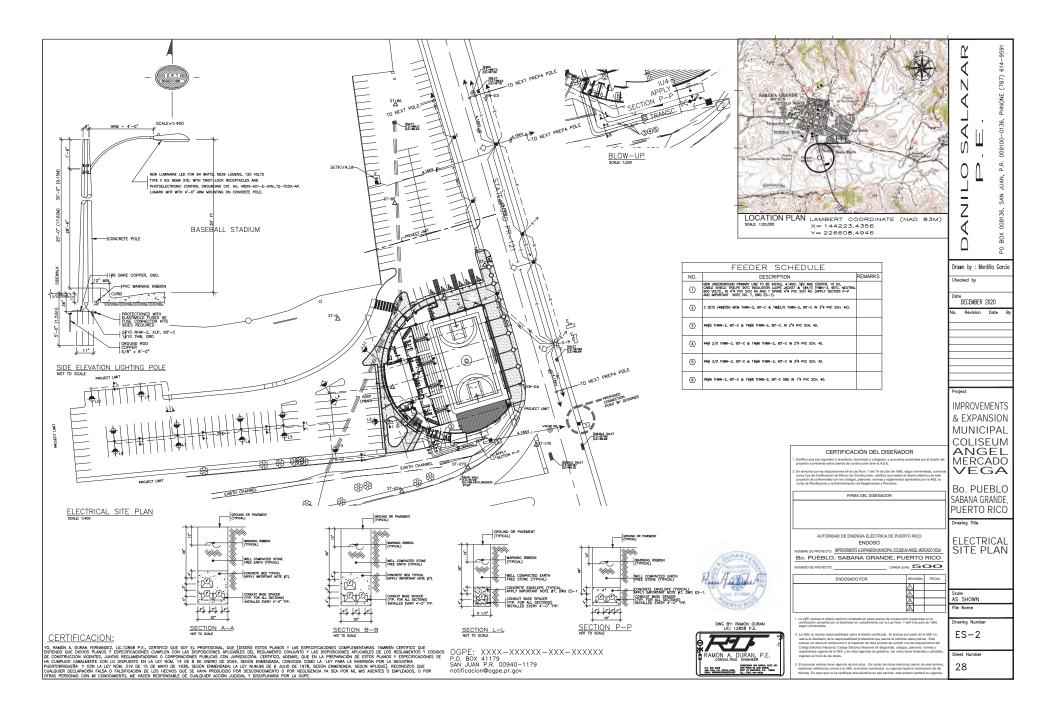
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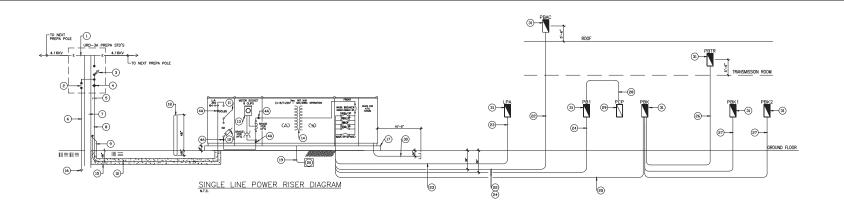
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SINGLE LINE RISER DIAGRAM LEGEND:

- 1- EXISTING AERIAL PRIMARY DISTRIBUTION LINE 3PH, 4W #XXX ACSR TO REMAIN.
- 2- 3-3 KV, LIGHTNING ARRESTER POLYMER INSOLATOR RISER POLE.
- 3 COTOUT 200 AMPS, 15 KV, 10,000 AIC MIN. 125 KV, BIL WITH 150E FUSE LINK.
- 15 KV FEEDER TERMINATION WITH OUTDOOR STRESS CONES 15 KV. SILICONE RUBBER.
- 4A- SAME AS (4) EXCEPT INDOOR
- 5- "OZ" SEALING BUSHING. PREPA URD-5
- 1#4 BARE COOPER GROUND
- 7- NEW CONCRETE POLE TO BE INSTALL, ADD URD-3A, URD-4, URD-5, 2(CP-C5) M16-3 PREPA STD. APPLY IMPORTANT NOTE No.5, DWG ES-1.
- PRIMARY RISER 4.16KV 3#2 COPPER, 15KV CABLE SHIELDED TRXLPE INSULATION LLDPE JACKETED AND 1#2 XHHW-2 GROUNDED NEUTRAL 600 VOLTS, IN 4"6 PVC SCH 80 CAPPED AT BOTH END.
- 9- URD-4, PREPA STD.
- 10- SAME AS (8) EXCEPT PVC SCH-40.
- 11- OUTSIDE GAND OPERATED DISCONNECTING SWITCH DEVICES 600 AMPS., CONTINUOUS, 15 KV, 95KV, BIL, 40 KAIC.
- 12- SAME AS (4) EXCEPT INDOOR AND 90E FUSES.
- 13- METERING EQUIPMENT PRIMARY CTS/PTS (BY PREPA)
- 14- PAD MOUNTED TRANSCLOSURE 3-167KVA OIL FILLED TRANSFORMER. TYPE CONNECTION 500 KVA TOTAL PRIMARY (4.16/7.2)KV TO 120/208 VOLTS, 60 HZ, (\triangle -%) 4-2 1/2% TAPS BELOW RATED, PRIMARY VOLTAGE NON PCB, STAINLESS STEEL TANK. WITH LOSSES IMPROVED. WITH BONDING JUMPER 1W#250 MCM THHN 600V.
- 15- CONCRETE ENCASEMENT.

- 16- GROUND ROD 5/8" X 8'-0" COPPER BOND THERMO-CADWELD CONNECTOR.
- 17- 8" CONCRETE PAD.
- 18- 4"Ø RIGID GALV. STEEL CAPPED END FOR SUBSTATION AND GENERATOR PROTECTION.
- 19- 1-2"ø PVC SCH 40.
- 20- OIL DRAIN CONCRETE BOX. APPENDIX-28. APPLY DETAIL DWG. ES-4.
- 21- MAIN SECONDARY BREAKER 2000AF/1800AT AMPS, 3 POLES 240 VOLTS, 100 K.A.I.C.
- 22- 3 SETS (4W#350 MCM THWN-2, 90°-C & 1W#2/0 THWN-2, 90°-C IN 3"Ø PVC SCH. 40).
- 23- 4W#2 THWN-2, 90°-C & 1W#6 THWN-2, 90°-C. IN 2"Ø PVC SCH. 40.
- 24- 4W# 2/0 THWN-2, 90°-C & 1W#6 THWN-2, 90°-C IN 2"Ø PVC SCH. 40.
- 25- 4W# 3/0 THWN-2, 90°-C & 1W#6 THWN-2, 90°-C IN 3"Ø PVC SCH. 40.
- 26- SECONDARY FEEDER 4W#4 THHN, 90°-C & 1W#6 THHN GND IN 2"Ø PVC SCH. 40.
- 27- SECONDARY FEEDER 3W#2 THHN, 90°-C & 1W#6 THHN GND IN 2"Ø PVC SCH. 40.
- 28- APPLY DWG E-15.
- 29- APPLY DWG E-15.
- 30- 4 SPARE 4"ø PVC SCH. 40 & 2-1"ø PVC SCH 40, 36" BELOW FINISH GRADE.
- 31- PANELBOARD DEAD FRONT 5'-6" CENTER LINE (SEE PANELBOARD SCHEDULE, DWG E-13)

CERTIFICACIÓN DEL DISEÑADOR

FIRMA DEL DISEÑADOR

AUTORIDAD DE ENERGÍA ELÉCTRICA DE PUERTO RICO

MENTS & EXPANSION MUNICIPAL COLISEUM ANGEL MERCADO VEGA Bo. PUEBLO, SABANA GRANDE, PUERTO RICO

ENDOSADO POR

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CARGA (AVA): 500

Drawn by : Montilla Garcia

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DECEMBER 2020

Revision Date

IMPROVEMENTS & EXPANSION MUNICIPAL COLISEUM ANGEL **MERCADO** VEGA

Bo. PUEBLO SABANA GRANDE PUERTO RICO

SINGLE LINE POWER RISER DIAGRAM

Scale AS SHOWN

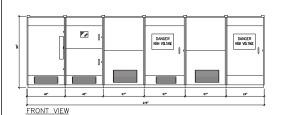
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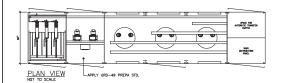
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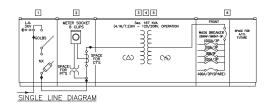
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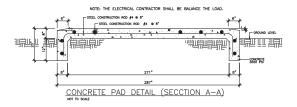
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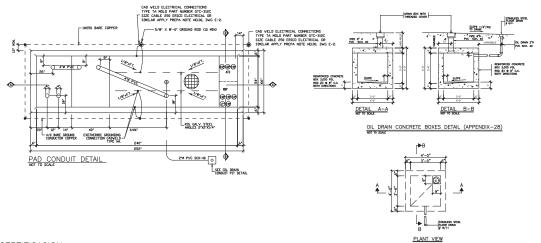












VEX. THE TOP COLOURS.

VEX. PARMON A DUBBNIS FERMINDEZ, LC.12858 P.E., CERTIFICO QUE SOY EL PROFESIONAL, QUE [DISERO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTIARMS. TAMBIÉN CERTIFICO QUE INTERIOR OU EL DISERDEZ CONTROLOM CONTROL Y LOS ESPECIFICACIONES COMPLEMENTAS Y LOS ESPECIFICACIONES CONTROL CENTERO, AND EL DISERDEZ CONTROL CENTERO CONTROL CENTERO, AND EL DISERDEZ CONTROL CENTERO CENTERO CENTERO CENTERO CONTROL CENTERO CEN

CUB.	QTY.	MANUFACTURER	DESCRIPTION									
1	3	MC GRAW	POWER FUSES: SM-200, 150 AMPERES, TYPE "K" FUSE LINK.									
	3	GE	LIGHTINING ARRESTERS DISTRIBUTION TYPE 3 KV									
	1	ASFA	PRIMARY METERING CABINET									
2	1	ANCHOR	8 CLIPS METER SOCKET *									
3 4 5		ASFA	EMPTY SECTION FOR (OLIS.C. TRANSFORMERS) 3:0. 167 VA PENMETY VOLTAGE (4:167-72)WV SECONDARY VOLTAGE 120/258 VOLTS OPERATION SECONDARY COPPER BUS BARS: 2000 MSS.									
6	1	ASFA PANEL U.L. QEUY E54541E WITH WESTINGHOUSE BREAKERS	PANEL: MDP AMPS MAIN BREAKER 2000AF/1800AT-3P. KALC. 100,000 SERVICE 3PH., 4W. TYPE		BKR, F	ESCRIPTIO RAME: POLES 3 3 3 3 3	FRAMES 1000 1000 200 200 400 (SPARE)					

* COORDINATION METER WITH PREPA OFFICE.



SECTION VIEW

NOTES:

- 1- OUTDOOR PAD MOUNTED TRANSCLOSURE.
- 2- MATERIAL SHALL BE TYPE 304 STAINLESS STEEL GAUGE #14. 3- FINISH: CHEMICALLY CLEANED ONE COAT OF PHOSPHATIZED PRIMER AND TWO COATS OF LIGHT GRAY ENAMEL ANSI ∯61.
- 4- ALL BUS BARS SHALL BE SILVER PLATED COPPER FOR 600 AMPS. AND ABOVE AS PER CODE REQUIREMENTS.
- 5- CLEARANCES SHALL BE ALLOWED FOR 15 KV (95 KV BIL) AS PER P.R.E.P.A. STANDARDS. 6- ONE SPARE FUSE SHALL BE SUPPLIED FOR EACH FUSE HOLDER.

CERTIFICACIÓN DEL DISEÑADOR

FIRMA DEL DISEÑADOR

FNDOSO

MBBE DE PROVECTO: IMPROVENENTS & EXPANSION MUNICIPAL COLISEUM ANGEL MERCADO VEGA.

- INCOMING CUBICLE WILL BE MECHANICLY INTERLOCKED TO PREVENT THE OPENING OF THE DOOR PRIOR TO TURN OFF THE SWITCH

DECEMBER 2020

Drawn by : Montilla Garcia

009100-0136,

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008136,

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В

IMPROVEMENTS & EXPANSION MUNICIPAL COLISEUM **ANGEL** MERCADO

VEGA Bo. PUEBLO SABANA GRANDE, PUERTO RICO

Drawing Title TRANSCLOSURE DETAILS

ENDOSADO POR

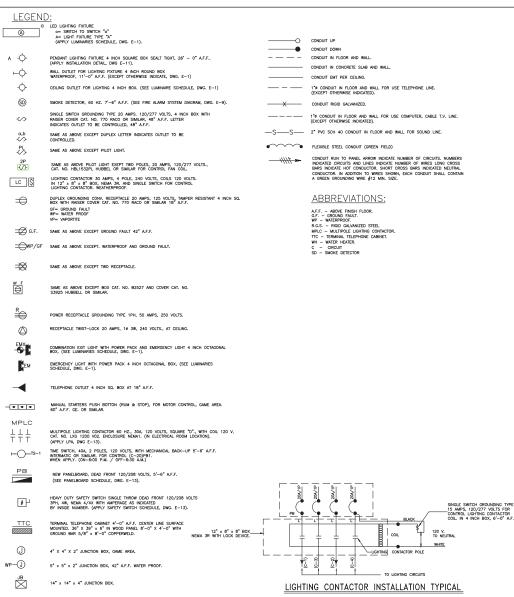
Bo. PUEBLO, SABANA GRANDE, PUERTO RICO CARGA (KVA): 500

File Name Drawing Number

ES-4

heet Number 30

AS SHOWN



	LUMINAIRE SCHEDULE										
TYPE	DESCRIPTION CAT. NO.	VOLT.	NO	LAM! WATTS	PS TYPE	MANUFACTURER	MOUNTING	REMARKS			
Α	61123-UFOHIBA1A- 100UNIVD850	120 *	1	100	LED 5000K W/REFLECTOR	SYLVANIA	PENDANT	000			
В	74377-VAPOR1B- 040UNVD850-48EC-GR	120	1	40	LED	SYLVANIA	SURFACE	000			
С	60356 VAPOR1B- 065UNVD850-96EC-GR	120	1	65	LED	SYLVANIA	SURFACE				
D	60159-CANOPY3A/ 040UNIV740/10S5/BZ	120	1	40	LED	SYLVANIA	SURFACE	0			
EMX	60759 EXITCOMB01A/RDVTHS /U/WH/EM	277	2	12	LED	LITHONIA	WALL				
EM	EMLIGHT-1B/30VTHR/S/WH	120	2	3	LED	SYLVANIA	WALL				
к	SMWLPAK 1N/015UNV740 /NC/BZ/P	120	1	15	LED	SYLVANIA	WALL	11 FT. AFF. PHOTOCELL			
N	747377-VAPOR1B- 040UNVD850-48EC-GR	120	1	40	LED	SYLVANIA	PENDANT	0			

REMARKS:

- ① IP65 DRIVER.
- LED LAMPS 120V. AND DRIVER BALLAST.
 PENDANT.
- EMERGENCY BALLAST FP54/HO, T5 SYLVANIA, 1400 LUMENS
- (5) LAST LOCATION COORDINATE WITH ARCHITECT.

IMPORTANT NOTES:

- ALL CONDUIT PER CONCRETE SLAB SHALL BE PVC SCH 40 AND ALL CONDUIT RUNNING UNDERGROUND SHALL BE PVC SCH 40.
 ALL EXPOSED CONDUIT SHALL BE PVC SCH 80 CONDUIT OR R.G.S.
- * 3) THE CONTRACTOR COORDINATE VOLTAGE CONNECTION WITH MANUFACTURE BALLAST DRIVER WIRE.
- ALL CIRCUIT LIGHTING OF THE BASKETBALL COURT TO RUM THROUGH (M.P.L.C.).

GENERAL NOTES:

- UP TO #10 AWG USE WIRE, ALL LARGER SIZES BE CABLE.
- ALL WIRE SHALL BE 600 VOLTS INSULATION THWN-STRANDED WIRES.
 UNLESS OTHERWISE INDICATED, ALL WIRES AND CABLES SHALL BE COPPER.
- PROVIDE GROUND WIRE IN ALL THE CONDUITS THAT ARE INDICATED TO BE PVC. SCHEDULE 40.
- PROVIDE \sharp 12 AWG GREEN JUMPER BETWEEN RECEPTACLE GROUNDING SCREW AND OUTLET BOX GROUNDING SCREW.
- UNLESS OTHERWISE INDICATED ALL CONDUITS SHALL BE EMT PER CEILING, FOR UNDERGROUND, CONCRETE SLAB, AND WALL CONDUIT USE PVC SCHEDULE 40.
- UNLESS OTHERWISE INDICATED ALL CONDUITS SHALL BE 3/4* DIAMETER MINIMUM.
- ALL UNDERGROUND CONDUIT COUPLINGS SHALL BE WATERTIGHT.
 PROVIDE EXPANSION JOINT COUPLINGS OF THE REQUIRED TYPE AND SIZE
 WHENEVER A CONDUIT CROSSES AN EXPANSION JOINT.
- PROVIDE CONDUIT PLASTIC DIVIDERS IN ALL UNDERGROUND CONDUIT RUNS.
 MAXIMUM DISTANCE BETWEEN DIVIDERS TO BE 4"-0".
- CONTRACTOR MUST MAKE SURE THAT THE ENTIRE ELECTRICAL SYSTEM HAS GROUND CONTINUITY. 12-
- CONTINUITY.

 ALL THE ELECTRICAL INSTALLATION SHALL BE DONE IN A NEAT AND WORKMANLIKE
 MANNER, ACCORDING TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE,
 THE PUERTO RICO ELECTRICAL POWER AUTHORITY LATEST STRANDROS AND PUERTO
 RICO TELEPHONE COMPANY OR COMMUNICATIONS AUTHORITY LATEST PRACTICES.
- all outlets shall have its own independent outlet box minimum size of outlet box to be 4° square by 1 1/2° deep exact size of outlet box to be determined according to the maximum number of conductors in the box per N.E.C. article 314–section 16a.
- BOX PER N.C. ARTICLE ST4-SECTION 10A.

 THE CONTRACTOR SHALL WIST THE SIGN SITE AND SECONE ACQUANTED WITH THE DISTINST PELLO CONSTITUNES. YE SHALL BE THE DIRECT RESPONSIBILITY OF THE DISTINST PELLO CONTRACTOR AND THOSE THAT WERE USED FOR RESION PURPOSE. THIS SHALL BE DONE BEFORE THE CONTRACTOR WILL BE THE SIGN AFFE RECORD. THE SHALL BE SHALL BE THE SHALL BE THE SHALL BE THE SHALL BE SHALL BE THE SHALL BE THE SHALL BE SHALL

- 18— PROVIDE ELECTRICAL 6" WIDE YELLOW IDENTITY TAPE FOR UNDERGROUND CABLES THE TAPE SHALL BE PERMANENTLY PRINTED WITH CONTINUOS BLACK LETTERS 1 1/4" x 5/8" WITH THE WORDS "PELIGRO—PELIGRO—PELIGRO ON THE EDITION.
- 19- PROVIDE #10 WIRE ON ALL 20 AMP CIRCUIT 75 FEET OF LONGER.
- 20 ALL PANELS SWITCHES, STARTERS, CONTROL DEVICES AND MICS ELECTRICAL APPARATUS SHALL BE CLEARLY MARKED WITH ENGRAVED PLASTIC MARKEPLATES FOR EASY IDENTIFICATION AND SAFETY. ALL PANELDOADD ORGUNTS SHALL BE PROPERLY IDENTIFIED WITH 1YPE WRITTEN PLASTIC PROTECTED DIRECTORIES ON SUITABLE CARDS WHICH SHALL BE MOUNTED INTO CORRESPONDING PANELBOARD DOORS.
- 21- FURNISHED AND INSTALL ALL TELEPHONE CONDUITS AS SHOWN ON DRAWINGS. PROVIDE PULL STING IN ALL CONDUITS (FISH WIRE).
 22- CONTRACTOR SHALL BALANCE ALL LOADS.
- 23- ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL.
- 24- ALL PANELS, METERS, SAFETY SWITCHES, ETC., SHALL BE LA BELED SO AS TO IDENTIFY THEIR USE AND VOLTAGE, IN AN ACCEPTED AND APPROVED MANNER.
- 25— USE "LIQUID TIGHT" FLEXIBLE MATALIC CONDUIT FOR ALL MOTOR AND/OR GENERATOR CONNECTION.
- 26—EXPANSION FITTINGS SHALL BE USED FOR EVERY CONDUIT CROSSING BUILDING EXPANSION JOINTS





heet Number 31

CERTIFICACION:

THE SMART FERMINDED LICE JOSES P.E., CERTIFICO DUE SOY E. REPOSSIONAL DUE (DISSION ESTOS PLANES Y LIS ESPECIALORISES COURS ENDIANCE) SECRETARIO OUE SOY E. REPOSSIONAL DUE (DISSION ENDIANCE) SECRETARIO OUE CONSTRUCTION OF THE SECRETARIO OUE SECRET

P.R. JUAN, 008136, õ 9 Drawn by : Montilla Garcia

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21 SEPT 2022 No. Revision Date E

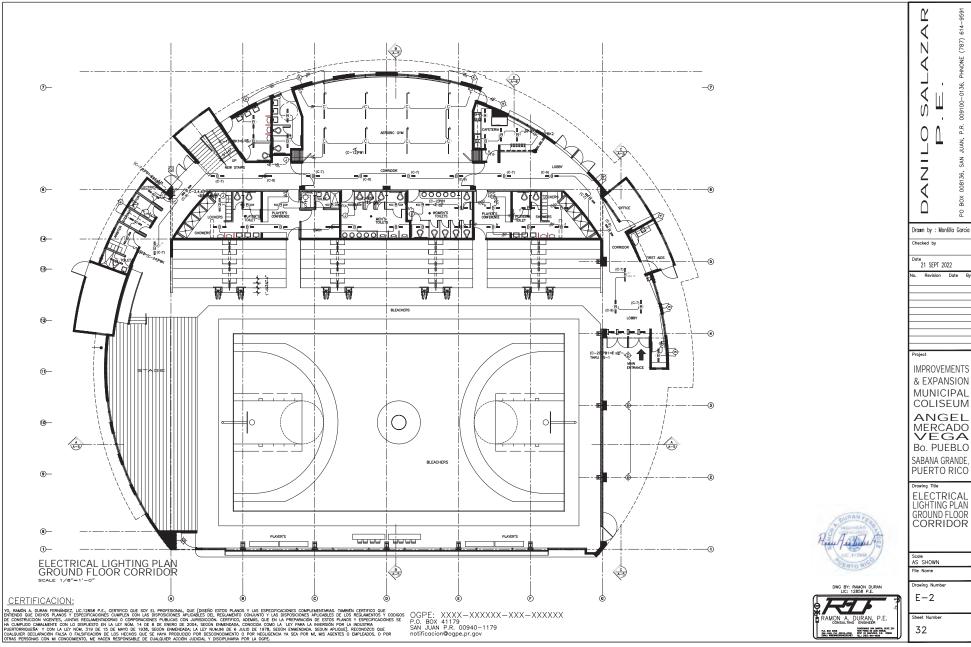
IMPROVEMENTS & EXPANSION MUNICIPAL COLISEUM **ANGEL MERCADO** VEGA Bo. PUEBLO SABANA GRANDE PUERTO RICO

ELECTRICAL LEGEND AND NOTES

AS SHOWN File Name

Drawing Numbe

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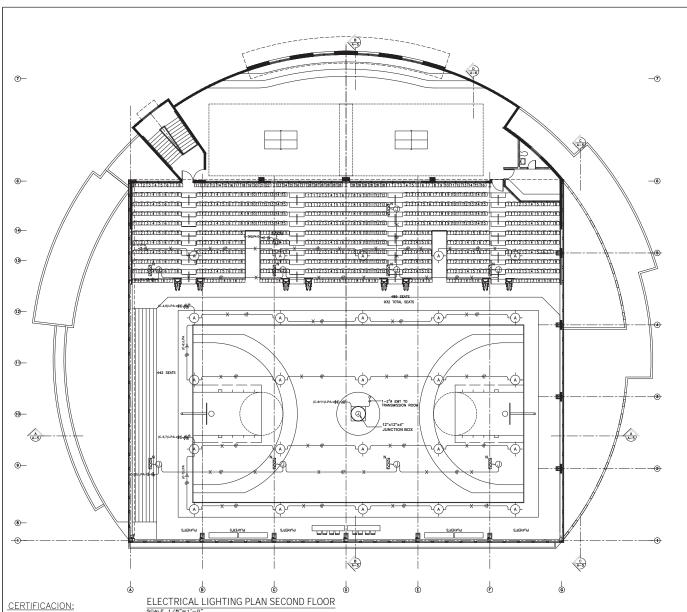
BOX

Date 21 SEPT 2022

No. Revision Date B

IMPROVEMENTS & EXPANSION MUNICIPAL **COLISEUM ANGEL MERCADO** VEGA Bo. PUEBLO SABANA GRANDE

ELECTRICAL LIGHTING PLAN GROUND FLOOR CORRIDOR



SAN 008136, BÖX 9

Drawn by : Montilla Garcia

Date 21 SEPT 2022

No. Revision Date

IMPROVEMENTS & EXPANSION MUNICIPAL COLISEUM **ANGEL MERCADO** VEGA Bo. PUEBLO SABANA GRANDE PUERTO RICO

Drawing Title **ELECTRICAL** LIGHTING PLAN SECOND FLOOR

AS SHOWN File Name

Drawing Number

E-3

Sheet Number

33

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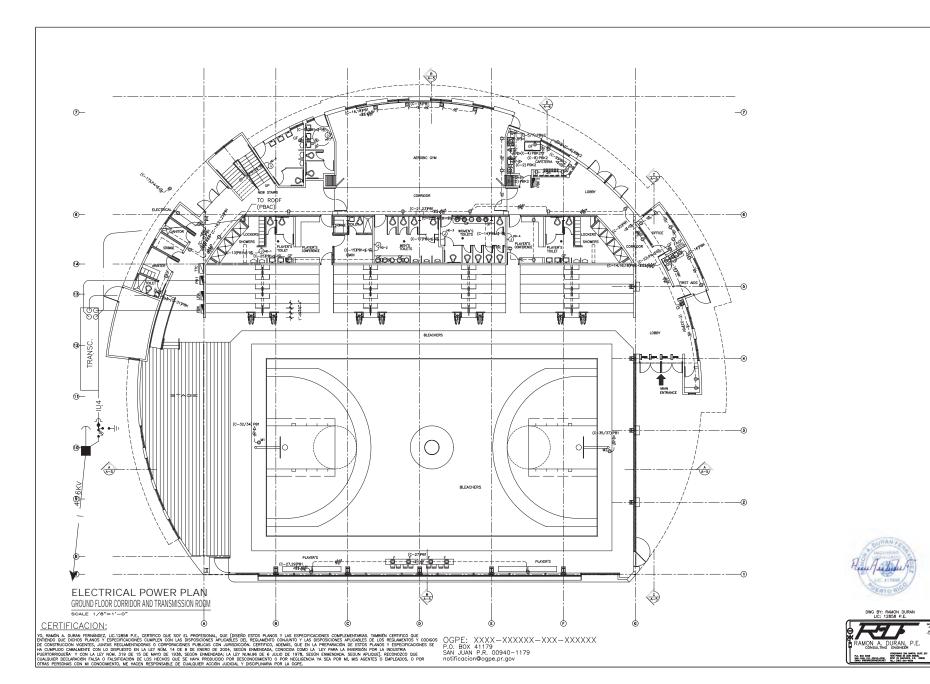
CERTIFICACION:

SCALE 1/8"=1"-O"

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Drawn by : Montilla Garcia

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BOX

Date 21 SEPT 2022

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IMPROVEMENTS & EXPANSION MUNICIPAL **COLISEUM ANGEL MERCADO** VEGA Bo. PUEBLO SABANA GRANDE PUERTO RICO

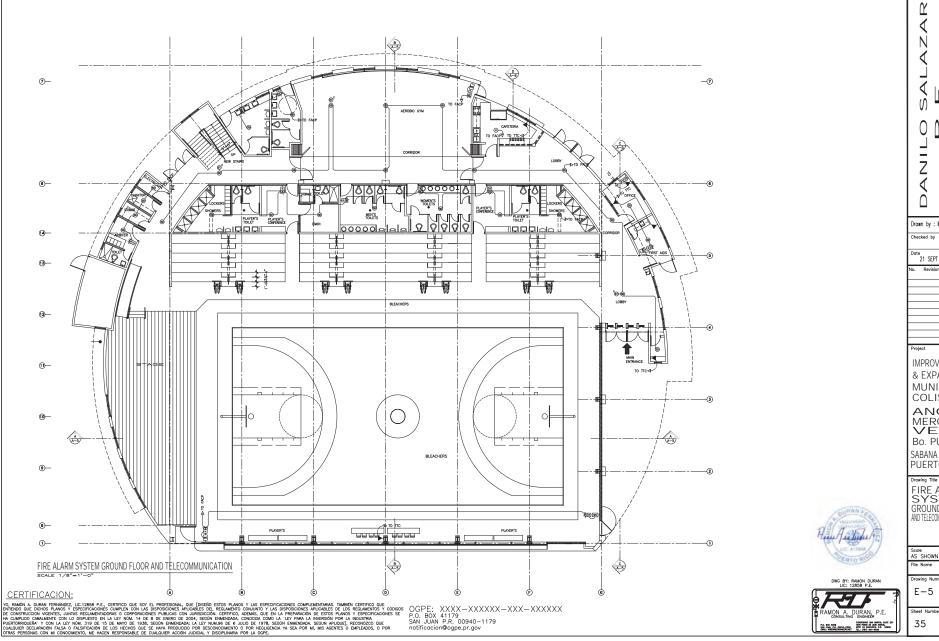
Drawing Title **ELECTRICAL** POWER PLAN GROUND FLOOR CORRIDOR AND TRANSMISSION ROOM

Scale AS SHOWN File Name

Drawing Number

E-4

Sheet Number



009100-0136, Р. В. JUAN, SAN 008136, BOX 9

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Date 21 SEPT 2022

No. Revision Date

IMPROVEMENTS & EXPANSION MUNICIPAL **COLISEUM ANGEL MERCADO** VEGA Bo. PUEBLO SABANA GRANDE PUERTO RICO

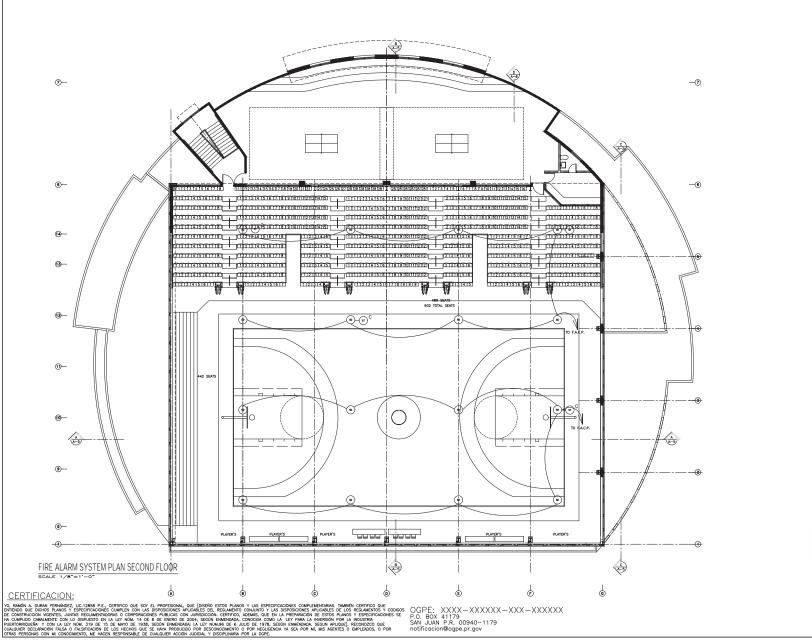
FIRE ALARM SYSTEM **GROUND FLOOR** AND TELECOMMUNICATION

AS SHOWN File Name

Drawing Number

E-5

Sheet Number



008136, BÖX 9

Drawn by : Montilla Garcia

Date 21 SEPT 2022

No. Revision Date

IMPROVEMENTS & EXPANSION MUNICIPAL **COLISEUM ANGEL MERCADO** VEGA Bo. PUEBLO SABANA GRANDE

Drawing Title

FIRE ALARM SYSTEM PLAN SECOND FLOOR

PUERTO RICO

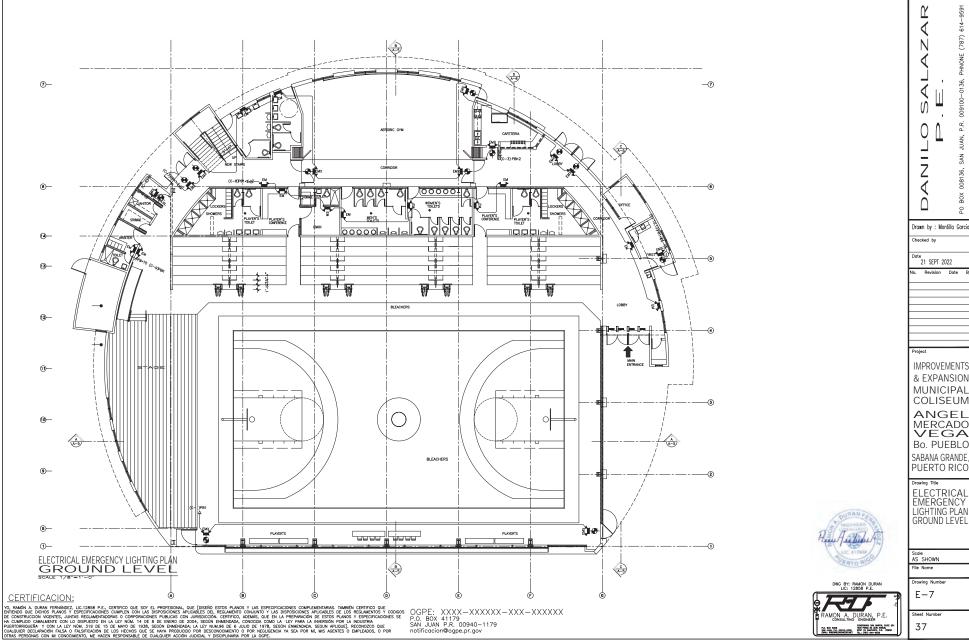
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Drawing Number

E-6

Sheet Number 36

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009100-0136, JUAN, SAN 008136, BOX 9

Drawn by : Montilla Garcia

Date 21 SEPT 2022

No. Revision Date

IMPROVEMENTS & EXPANSION MUNICIPAL COLISEUM **ANGEL MERCADO** VEGA Bo. PUEBLO SABANA GRANDE

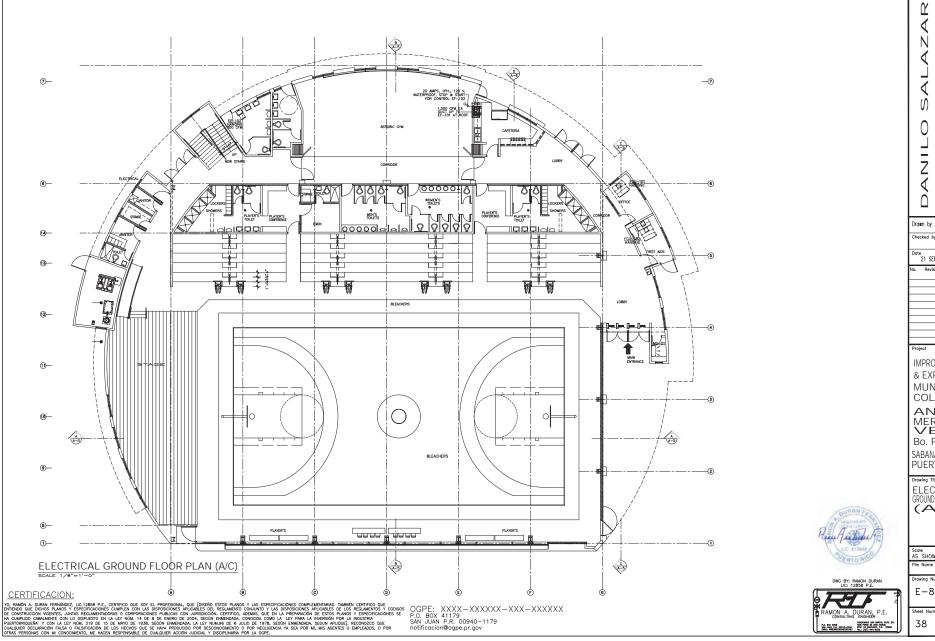
Drawing Title ELECTRICAL EMERGENCY LIGHTING PLAN **GROUND LEVEL**

AS SHOWN

Drawing Number

E-7

Sheet Number



009100-0136, JUAN, SAN 008136, BOX 9

Drawn by : Montilla Garcia

Date 21 SEPT 2022

No. Revision Date

IMPROVEMENTS & EXPANSION MUNICIPAL **COLISEUM ANGEL MERCADO** VEGA Bo. PUEBLO SABANA GRANDE PUERTO RICO

ELECTRICAL GROUND FLOOR PLAN

AS SHOWN

Drawing Number E-8

Sheet Number 38

FIRE ALARM SYSTEM DIAGRAM

N.T.S.

FIRE ALARM SYSTEM DETECTION LEGEND:

CONDUIT 1"ø. (USE 4" x 4" x 2 1/8" BOX WITH KNOCKOUTS OF 1").

CEILING TYPE PHOTOMETRY ADDRESSABLE INTELLIGENT SMOKE DETECTOR EQUAL TO HONEYWELL, INC. MODEL NO. TC806B1076 INSTALLED IN A $4^{\circ}\times4^{\circ}\times2$ $1/8^{\circ}$ OCTROCOMAL ELECTRICAL BOX WITH KNOCKOUTS OF 1°

FIRE ALARM ADDRESSABLE INTELLIGENT PANEL EQUAL TO HONEYWELL MODEL XLS-140-2 (E) WITH INITIAL CAPACITY FOR 2000 INITIATING POINTS, PANEL BE ACKBOX SHALL BE INSTALLED SURFACE OR FLUSH AT 4'-0" A.F.F. CENTERED.

HIST HORN STROBE EQUAL TO HONEYWELL MODEL NO. P2R INSTALLED IN 4" SQUARE ELECTRICAL BOX AT BOX AT BO" A.F.F.

PULL STATION XLS-278 WITH COVER LOCAL CAT. NO. \$464G1007 COVER FOR PULL STATION HORNE 48" A.F.F., FOR PULL STATION PROTECTOR. HMS.

CEILING SPEAKER AND STROBES CAT. No. SP2C24115 USE W/ACCESSORY BACK BOX SKIRT. AND SQ. BOX 4"x4"x2"1/8" SPECTRACLERT OR SIMILAR.

 $4^{\prime\prime}$ X $4^{\prime\prime}$ X 2 1/8" JUNCTION BOX. (LAST LOCATION COORDINATE WITH MECHANICAL ENGINEER.

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SAN 008136, BOX P0

21 SEPT 2022

lo. Revision Date

IMPROVEMENTS & EXPANSION MUNICIPAL **COLISEUM ANGEL MERCADO** VEGA Bo. PUEBLO

SABANA GRANDE PUERTO RICO Drawing Title

FIRE ALARM SYSTEM DIAGRAM

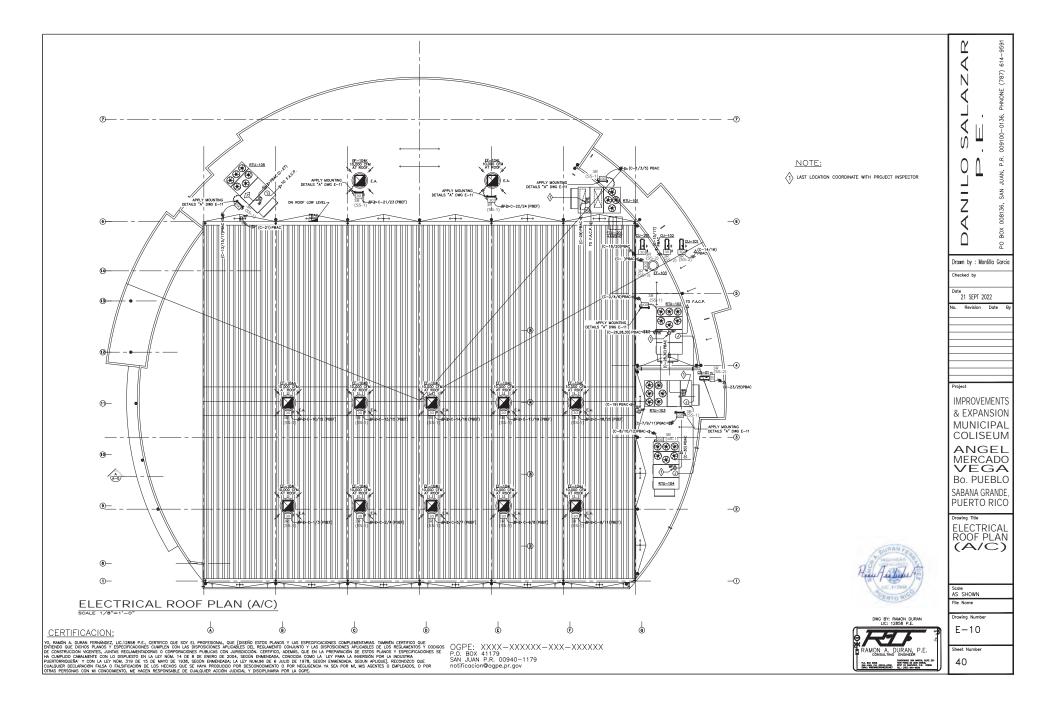
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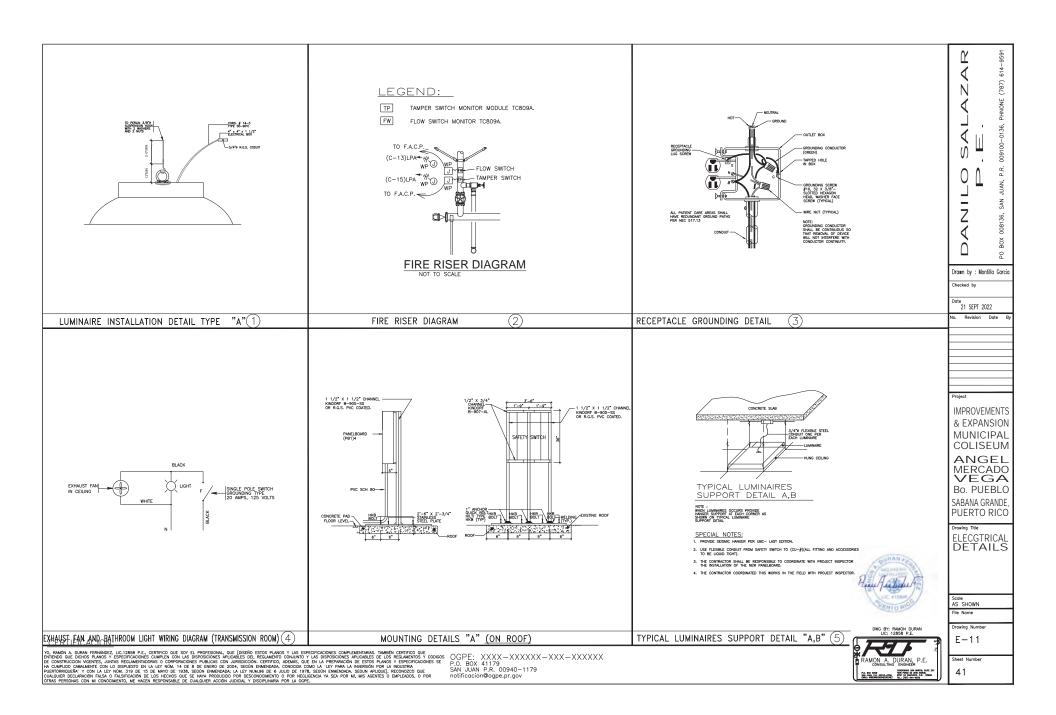
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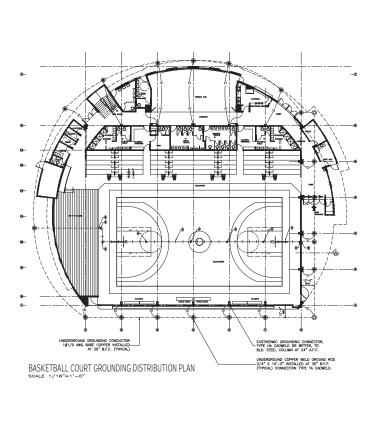
E-9

Sheet Number 39

P.O. BOX 8308 CONDOMINO SAN MATER, SUITE MOD POINT OF USEN MERCE, SIN JUNE, P.P. CORD. SIN JUNE, P.P. CORD.
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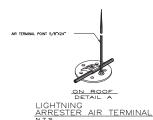


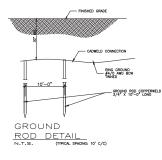


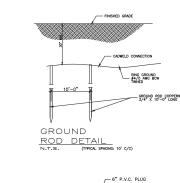


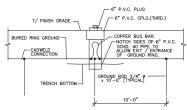












TEST WELL DETAIL
NOT TO SCALE

LEGEND: UNDERGROUND GROUNDING CONDUCTOR #4/0 AWG BARE TINNED COPPER INSTALLED AT 30" B.F.F.

INSPECTION TEST PORT

AIR TERMINAL POINT 5/8"x24"

24 STRANDS #14 GAUGE ALUMINUM CAT. No. A 24 ON ROOF.

GROUNDING NOTES: ALL GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIX (CADWELD OR THERMOWELD).

ALL EXTERIOR GROUND CONDUCTORS SHALL BE #4/0 AWG BARE TIN PLATED COPPER.

5. GROUND EQUIPMENTS INSIDE BUILDING ACCORDING TO MANUFACTURER

RESISTANCE TEST WILL BE SUBMITTED BY CERTIFIED ENGINEER. MEASUREMENT MUST NOT EXCEED 5 OMHS.

CONTRACTOR TO CONNECT HALO LOOP DROPS TO EXTERIOR GROUND LOOP.

* FOR INSTALL LIGHTNING PROTECTION, USE SIKADUR 31, HI-Mod Gel.

NOTES:

APPLY DETAIL "A"

APPLY DETAIL "B"

USE STEEL STRUT PS-620-3/8" CLAMPS PS-1134
AND STANDARD BOLTS, NUTS WASHERS SAME AS REQUIRED.
USE STEEL STRAP EACH 4FT LONG.





File Name Drawing Number E - 12

AS SHOWN

Sheet Number 42

009100-0136,

JUAN,

008136,

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P0

Drawn by : Montilla Garcia

21 SEPT 2022

IMPROVEMENTS

& EXPANSION

MUNICIPAL

COLISEUM **ANGEL**

MERCADO VEGA Bo. PUEBLO

SABANA GRANDE

PUERTO RICO Drawing Title

ELECTRICAL

ARRESTER

N.T.S.

OF PARTY TO AN IDEAN FERNANDEZ, LC12888 P.E., CERTIFICO QUE SOY EL PROFESIONAL, QUE [DISEÑO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEXIBITAVANS. TAMBIÉN CERTIFICO QUE
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PLANOS Y ESPECIFICACIONES CUE PLANOS CONTROL CERTIFICO, CERTIFIC

N.T.S.

DETAIL "B"

(PBAC) F	MAINS TYPE CAP. AMPS VOLT M.B. 800 120/208 VOLTAGE: 120/208V. PHASE (S) 3PH NO. WIRE: 4W SPACES: 30 MOUNTING: SURFACE CAPACITY: 800 AMPS	CIRCUITS	POLES	TRIP	+-		**0						MAINS	BRE	PANELBOARD SCHEDULE														
(PBAC) F	M.B. 800 120/208 VOLTAGE: 120/208V. PHASE (S) 3PH NO. WIRE: 4W SPACES: 30 MOUNTINE: SURFACE		POLES	TOUR									- IOAD					PERCEITO		WIN				_			I CAD		1
(PBAC) F	PHASE (S) 3PH NO. WIRE: 4W SPACES: 30 MOUNTING: SURFACE	1/3/5		IRIP	SIZE	TYPE	SIZE	E TYP	E 0	¢Α	#B	øC	DESCRIPTION	REMARKS	DESIGNATION	TYPE CAP. AMPS VOLT M.L. 125 120/208	CIRCUITS	POLES	TRIP	SIZE 1	YPE S	IZE TY	PE ø	A 1	≢B	DE	SCRIPTION	REMARKS	DESI
N S S S S S S S S S S S S S S S S S S S	NO. WIRE: 4W SPACES: 30 MOUNTING: SURFACE		3	125	2	THEN	N 2"	PVI	c 10	00	100	100	RTU-101	(SS-1)	PBK1	VOLTAGE: 120/208 V. PHASE (S) 1 Ø NO. WIRE: 3W	- 1	1	20	\rightarrow	_	/4" E	_	_		JGHTING			
S N N O O O O O O O O O O O O O O O O O	SPACES: 30 MOUNTING: SURFACE	2/4/6	3	175	1/0	THHN	2*	PV	: 12	23	123	123	RTU-102	(SS-1)	1 5	SPACES: 16	2,4	1	20		-	/4" E		_	-	RECEPTACLE			_ (ı
LOCATION g	CADACITY: BOO AMPS	7/9/11	3	175	1/0	THHN	4 2*	PV	: 12	23	123	123	RTU-103	(SS-1)	1	MOUNTING: FLUSH CAPACITY: 600 AMPS	5/7	2	50	\rightarrow	HHN	-	VC 5	_	\rightarrow	RECEPTACLE			4
LOCATION	Al.C.: 35,000 MIN	8/10/12	3	175	1/0	THHN	4 2*	PV	12	23	123	123	RTU-104	(SS-1)	1	A.I.C.: 10,000 MIN MANUFACT: CHALL	6,8	1	20		_	/4" P	_	-			REFRIGERATOR		4
LOCATION	G.E., CHALL, SQ"D"	13/15/17	3	175	1/0	THHN	2*	PV	12	23	123	123	RTU-105	(SS-1)	1	SQ "D" OR SIMILAR BOLT-ON BREAKER	9 3	1	20	_	_	_	vc s	_	\rightarrow	RECEPTACLE	& EXIT LIGHT		-
LOCATION	WITH LOCK DEVICE	14/16	2	20	10	THHN	-	_		7	7	-	CU-101	(SS-2)	1	TYPE: NEMA 1	10	1	20	\rightarrow	-	_	VC 1	_	\rightarrow	HSPOSAL	& EXII LIGHT		+
- ,	BOLT-ON BREAKER TYPE: NEMA 3R	15/17	2	20	10	THHN	3/4	e* PVC		- 1	7	7	CU-102	(SS-2)	LOCATION		11/13	2	20	_	-		VC 8	-		F-101		(SS-3)	+
- ,	t t	18/20	2	20	-	-	-	_	_	11	÷	11	CU-201	(SS-2)	CAFETERIA	ØA (TOTAL): 83 AMPS	12	1	20		_		MT -	-	\rightarrow	PARE		(33-3)	┨
- ,	t t	19.21	1	20	_	_	- ·	_	_	10	10	-	RECEPTACLE	()	No.1	ØB (TOTAL): 82 AMPS		i i	20			<u> </u>		+	Ť	,,,,,,,			┨
	øA (TOTAL): 620 AMPS	22/24	2	20	_	THHN			_	-	7	7	FF-103	(SS-3)		5		_	_										1
ON ROOF	øB (TOTAL): 628 AMPS øC (TOTAL): 622 AMPS	23/25	2	20		THHN		-		-	5	5	CU-01	(55-2)	•	PAN		3 0	Α					Ł I	ט נ	JL	Ł		
	· · · · · · · · · · · · · · · · · · ·	26,27,28,29,30	1	20	_	_	٠.	_	_	-	-	-	DRY-101 TO RTU-105	(33-2)		MAINS	BRE	AKERS	-	WIRI	NG -	CONDU	IIT		=		LOAD		1
			_	_		_				_		_		l	DESIGNATION	TYPE CAP. AMPS VOLT M.L. 125 120/208	CIRCUITS	POLES	TRIP	SIZE 1	YPE S	IZE TY	PE ø	A s	∌B	DE:	SCRIPTION	REMARKS	0
	PAN	ELB	0	Α	R [D	S	С	Н	Ε	D	U	LE			VOLTAGE: 120/208 V.	1	1	20	12	HHN 3	/4° E	OMT :	2	- L	JGHTING			1
	MAINS	BRE	AKERS	_	⊿ w	WIRING	***	CONDUI		LOA	D (AMI	PS)	LOAD		PBK2	PHASE (S) 1 Ø NO. WIRE: 3W SPACES: 16	2,4	1	20	12	HHN 3	/4" E	OMT :	5	5 R	RECEPTACLE			1
	TYPE CAP. AMPS VOLT M.L. 125 120/208	CIRCUITS	POLES	TRIP	SIZE	TYPE	SIZE	E TYP	E ø	ØA	#B	øC	DESCRIPTION	REMARKS		MOUNTING: FLUSH	5/7	2	50	6	THIN	1° P	VC 5	ю :	50 R	RECEPTACLE	RANGE		*
	VOLTAGE: 120/208V.		1	20	12	THEN	ų 3/4	e" PVI	, ,	2	_	_	LIGHTING			CAPACITY: 600 AMPS A.I.C.: 10,000 MIN MANUFACT: CHALL	6,8	1	20	10	HHN 3	/4° P	vc :	3	10 R	RECEPTACLE	REFRIGERATOR		- ▲
PRTR F	PHASE (S) 3PH			_		_			+	_	_	-				SQ "D" OR SIMILAR BOLT-ON BREAKER	9	1	20	12	THHN 3	/4° P	vc s	5	9 R	RECEPTACLE			
N	NO. WIRE: 4W SPACES: 24	3,5	1	20		THHN	, .	_	_	-	2	3	RECEPTACLE			TYPE: NEMA 1	3	1	20	10	_	_	vc -	_	\rightarrow	DMERGENCY	& EXIT LIGHT		G.F
	MOUNTING: SURFACE CAPACITY: 125 AMPS	2,4	1	20	+	-	, .	_	-	10	10	-	RECEPTACLE				10	-1	20		_	_	PVC 1	0	- 0	DISPOSAL			L
l Ā	A.C.: 10,000 MIN G.E., CHALL, SQ"D"	6	1	20	-	_	· ·	_	_	-	-	-	& EXIST LIGHT		LOCATION		11/13	2	20		_	_	PVC 8	_		F-102		(SS-3)	4
1.0	OR SIMILAR WITH LOCK DEVICE	9/11	2	20	+	THWN	3/4	PV	_	-	2	2	FU-201		CAFETERIA No.2	ØA (TOTAL): 83 AMPS ØB (TOTAL): 82 AMPS	12	1	20	12	THHN 3	/4° E	MT -	-	- s	SPARE			4
8	BOLT-ON BREAKER	8,10,7	1	20	-	-	<u> </u>	-	+	-	-	-	SPARE			VB (TOTAL). 02 AMF3													4
'	TYPE: NEMA 1	13 TO 24	-	-	-	-	-	_	+	-	-	-	SPACE			PAN	ELE	3 0	Α	R D	1	S	СН	Ε	Dι	U L	E		
		12	1	20	10	THHN	3/4	F PK		-	-	13	HD-TR			MAINS	BRE	AKERS		▲ WI	RING	CO	NDUIT	ı	OAD ((AMPS)	LOAD		1
						\perp			\perp						DESIGNATION		CIRCUITS	POLES	TRIP	SIZE	TYPE	SIZE	TYPE	#A	øΒ	3 øc	DESCRIPTION	REMARKS	1
	-			_	1	_	-		+	_						MB 225 120/208 VOLTAGE: 120/208 V.	1,3.5	<u> </u>	20	H.,	THHN	3/4	. PWC		5		LIGHTING SPARI		-
LOCATION	ØA (TOTAL): 12 AMPS			\vdash	-	+	+-	-	+	-		_			PB1	PHASE (S) 3PH		1		12		-		+	+-	_		1	4
	#B (TOTAL): 14 AMPS #C (TOTAL): 18 AMPS			⊢	-	+	+	+	+	-		_				NO. WIRE: 4W SPACES: 42	2,4,6	1	20	12	THHN	3/4	PVC	3	2	3	LIGHTING		1
ROOM .	sc (IOIAL). IO AWYS			_												MOUNTING: FLUSH CAPACITY: 225 AMPS	7,9,11	1	20	12	THHN	3/4	PVC	3	3	4	LIGHTING		
	PAN	ELB	0	Α	R [D	S	С	Н	Ε	D	U	L E			A.I.C.: 22,000 MIN. MANUFACT: GE, SQ "D"	8,10,12	1	20	12	THHN	3/4	* PVC	-	-		EMERGENCY & EXIT		1
	MAINS	BRE	AKERS		Ø v	MIRING	**(CONDUI	T	LOA	D (AMI	PS)	LOAD			OR SIMILAR	13,15,17	1	20	10	THHN	3/4	PWC	13	13	3 13	HD-1, HD-2, HD-3		1
	TYPE CAP. AMPS VOLT M.L. 225 120/208	CIRCUITS	POLES	TRIP	SIZE	TYPE	SIZI	E TYP	E	øA	ø₿	øС	DESCRIPTION	REMARKS		BOLT-ON BREAKER	14,16,18	-	20	10	THHN	3/4	_	_	+	_	HD-4 & RECEPTACLE	+	1
	VOLTAGE: 120/208V.	1/3	2	100	2*	THEN	N 2"	PVI	c a	80	73	-	PBK1				19,21,23	<u> </u>	20	10	THHN	3/4	_	_	11	_	RECEPTACLE	1	1
PRK F	PHASE (S) 3PH	4/6	2	100	+	+-	_	_	-	-	73	80	PBK2		-			_	-	-	-	<u> </u>	_	_	+"	_	LIGHTING	TS-1	4
9	NO. WIRE: 4W SPACES: 24	8/10//12	3	80	-	+-	-	-	_	12	14	18	PRIR		-		20	1	20	12	THHN	3/4	PWC	2		· -	LIGHTING	15-1	4
1.0	MOUNTING: SURFACE CAPACITY: 400 AMPS	257911	1	20	-	-	-	-	_	-	-	-	SPARE		-		22,24	1	20	12	THHN	3/4	PVC	-	6	6	RECEPTACLE		
0	A.C.: 22,000 MIN G.E., CHALL, SQ'D*	7,11	- -	20	+	_	_		-	4	-	4	RECEPTACLE	_			25,27,29	1	20	12	THHN	3/4	PVC	5	8	8	RECEPTACLE		
V	OR SIMILAR WITH LOCK DEVICE	13,17	<u> </u>	20	+-	-	+ -	-	_	6	÷	6	RECEPTACLE	_			30	1	20	12	THHN	3/4	* PVC	6	-		RECEPTACLE		1
	BOLT-ON BREAKER TYPE: NEMA 1	14,16,18	<u> </u>	20	+-	+-	+ -	-	-	4	3	3	RECEPTACLE		-		31/33	2	20	12	THHN	3/4	- EMT	2	2	+-	FCU-101		+
	-	9	<u>'</u>	20	+-	-	+ -	-	-	-	-	-	EMERGENCY LIGHT		-		_	_	-	-	_	-	_	_	+	_	FCU-102	-	+
	ŀ	24	1	20	+-	-	+ -	-	·	_	-	1	LICHTING		-		32/34	2	20	10	THHN	3/4	R.G.S	. 10	10	-	MOTOR #1		1
	/20211	24	 '	20	3/4	IHHA	3/4	, PM	+	-	_	<u> </u>	Continu		-		35/37	2	20	10	THHN	3/4	R.G.S	10		10	MOTOR #2		
	øA (TOTAL): 106 AMPS øB (TOTAL): 163 AMPS			_	1	1	1	_	1	_							38/40/42	3	100	2	THHN	2"	PWC	65	65	5 65	PCP		1
ELECTRICAL 8	øC (TOTAL): 112 AMPS														LOCATION	ØA(TOTAL): 135 AMPS	39	1	20	12	THHN	3/4"	PVC	1-	4	-	PUMP ROOM		1
															ELECTRICAL ROOM#1	øB(TOTAL): 139 AMPS øC(TOTAL): 130 AMPS	41	1	20	12	THHN	3/4	_	+-	+-	+-	ELECTRICAL ROO		1

		S	4 F	=	ETY	S	WI	ТС	H S	СНІ	Ε [) U L	. E	
DESCRIPTION	wene	BLANDES	VOLT	AMP	ENCLOSURE	MOUNTING	MANUELOT.	CATALOG	REMARKS		Р	ROTECTION		LOAD
DESCRIPTION	WIRE	BUNNUES	MAX	AMP	ENGLUSURE	MOUNTING	MANUFACT	NUMBER	REMARKS	CIRCUITS	AMPS	CAT NO.	MANUFACT	DESCRIPTION
(SS-1)	3	3	240	200	3R	SURFACE	SQUARE "D"	D324NRB	ADD CLASS R FUSE	DUAL ELEMENT	115	LPN-RK-115	BUSSMANN	RTU-1
(33-1)	,	,	240	200	эк	JUNIAGE	SQUARE D	DOZHIND	KIT CAT. NO. HRK200	TIME DELAY	140	LPN-RK-140	БОЗЗМАТИ	RTU-2 TO RTU-5
						_					9	LPN-RK-9		CU-101, CU-102
(SS-2)	3	3	240	30	3R	* SURFACE	SQUARE "D"	D321NRB	ADD CLASS R FUSE KIT CAT, NO, HRK60	DUAL ELEMENT TIME DELAY	13	LPN-RK-13	BUSSMANN	CU-201
											6	LPN-RK-6	BUSSMANN	CU-01
(SS-3)	3	-	240	30	38	SURFACE	SQUARE "D"	D321NRB	_	_	-	-	_	EF-103
(,					U. C.									 ※ (EF-101, EF-102)
(SS-4)	3	_	240	60	12	W CUREACE	SQUARE "D"	DZODNAWY	_	_	_		_	PUMP #1
(33-4)	ľ	_	240	60	12	# SURFACE	SQUARE D	DSZZNOWK	_	_	_	_	_	PUMP #2

M SAFETY SWITCH ADJACENT TO ROOF TOP OR CONDENSING UNITS.

U USE MAGNETIC STATER SAME AS REQUIRE , 600 VOLTS, COIL

(*) VOLTS, FOR (EF-101& EF-102), ONE EACH
EXHAUST FAN. IN FOR USE 14, WHEN APPLY.
USE FLEXIBLE LIQUID TIGHT CONDUIT SAFETY SWITCH TO EQUIPMENT. EXHAUST FAN.

(*) SHALL BE COORDINATE WITH MECHANICAL ENGINEER



			1 14		0 .	_	\ L	,	٥	0 1	, ,	-	0		
		MAINS		BRE	AKERS		W	RING	*/*CO	NDUIT	LO	AD (AM	PS)	LOAD	
DESIGNATION	TYPE M.B.	CAP. AMPS 125	VOLT 120/208	CIRCUITS	POLES	TRIP	SIZE	TYPE	SIZE	TYPE	øA	øB	øC	DESCRIPTION	REMARK
6		E: 120/208V		1,3	1	20	10	THHN	3/4"	RGS	10	10	-	LIGHTING	THRU MPLO
(LPA)	NO. WI	(S) 3PH RE: 4W		4,6	1	20	10	THHN	3/4"	RGS	-	10	10	LICHTING	THRU MPLO
		NG: SURFACE		5,7	1	20	10	THHN	3/4"	RGS	10	-	10	LIGHTING	THRU MPLO
	A.I.C.:	TY: 125 AMPS 10,000 MIN	5	8,10,12	1	20	10	THHN	3/4"	RGS	-	-	-	EMERGENCY & EXT LIGHT	
	OR SIM	HALL, SQ"D" ILAR		9/11	2	50	6	THHN	2*	EMT	-	25	25	SCORE BOARD	
		OCK DEVICE ON BREAKER		13	1	20	10	THHN	3/4"	PVC	-	-	-	FLOW SWITCH	
	TYPE: I	NEMA 1		15	1	20	10	THHN	3/4"	PVC	-	-	-	TAMPER SWITCH	
				22,24	1	20	-	-	-	-	-	-	-	SPARE	
				16 TO 20	-	-	-	-	-	-	-	-	-	SPARE	
				2	1	20	12	THHN	3/4"	PVC	4	-	-	FACP	
				17	1	20	12	THHN	3/4"	PVC	4	-	-	ттс	
LOCATION ELECTRICAL		TAL): 39 AMP		14,16	1	20	6	THWN-2	1"	PVC	5	4	-	PARKING LIGHTING	
ROOM	NCAL #B (TOTAL): 55 AMPS OM #C (TOTAL): 51 AMPS			18,20	1	20	10	THHN	3/4"	R.G.S.	-	-	-	EMERGENCY LIGHT	
				19,21,23	1	20	10	THHN	3/4"	PVC	6	6	6	FIRST AIDS	

BOX ACCESSORIES & FITTINGS SAME AS REQUIRED. FC = FLEXIBLE CONDUIT.

APPLY GENERAL NOTE No. 7, DWG. E-1. APPLY GENERAL NOTE No. 23, DWG. E-1.

APPLY GENERAL ROLE NO. 25, JUNO E-1.

ALE E-9, FOR DEFARION COORDINATE WITH MECHANICAL ENGINEER.

** PROVIDE SESSMIC HANGER PER UBC-1997.

- GROUND FAULT.

**

■ APPLY GENERAL NOTE No.19, DWG E-1.

ALL BREAKERS SHALL BE ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION CIRCUIT.

РО

Drawn by : Montilla Garcia

009100-0136,

JUAN, SAN

008136,

BOX

Date 21 SEPT 2022

No. Revision Date By

IMPROVEMENTS & EXPANSION MUNICIPAL **COLISEUM ANGEL MERCADO** VEGA Bo. PUEBLO

Drawing Title ELECTRICAL PANELBOARD AND SAFETY SWITCH SCHEDULE

SABANA GRANDE PUERTO RICO

Scale AS SHOWN File Name

Drawing Number

E-13

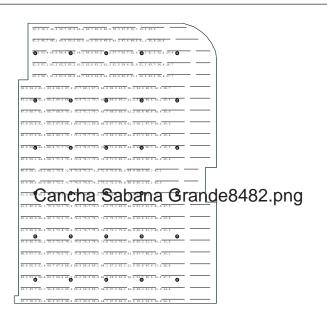
Sheet Number

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AMON A. DURAN, P.E.

PA. BOX 8308 CONCOUNTS SAN MAPEN, SUFE 2 PA. BOX 8308 MOS PORE OF USE APPLE, SAN JUAN, PA. COSTS-COOR STOP 33 SANSURC, PA. COSSE COMP. MILETAN CONTROLLER.



Symbol Qty Label Delivered Lumens Lum. Watts Description LLF ☑ 30 L1 N.A. 241.3 61132 - UFOHIBA1A-240UNVD850 0.9	Lu	minaire Sch	edule					
O 30 L1 N.A. 241.3 61132 - UFOHIBA1A-240UNVD850 0.9	Sy	/mbol		Label	Delivered Lumens	Lum. Watts	Description	LLF
		0	30	L1	N.A.	241.3	61132 - UFOHIBA1A-240UNVD850	0.920

Calculation Summary							
Label	CalcType	Units	Avg	Max Min		Avg/Min N	/lax/Min
Room_1_Workplane	Illuminance	Fc	58.11	76.4	20.8	2.79	3.67



Drawing Number E-14

AS SHOWN File Name

Sheet Number 44

CILITITION FERNANDEZ, LC.12858 P.E., CERTIFICO QUE SOY EL PROFESSIONAL, QUE [DISEÑO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIÉN CERTIFICO QUE ENTERIO QUE DE INFERNO DUE DICINOS Y ESPECIFICACIONES CUMPLED. LC.12858 P.E., CERTIFICO QUE ENTERIOR DUE DICINOS Y ESPECIFICACIONES CUMPLED. LOS LAS ESPECIFICACIONES CONTROL LOS ESPECIFICACIONES CONTROL LOS ESPECIFICACIONES CONTROL LOS ESPECIFICACIONES CONTROL LOS RECURSOR ES PLANOS Y ESPECIFICACIONES SE PLANOS Y ESPECIFICACIONES CONTROL SERVICIONES CONTROL SERVICIONES SE PLANOS Y ESPECIFICACIONES SE PLANOS Y ESPECIFICACIONES SE PLANOS Y ESPECIFICACIONES SE PLANOS Y ESPECIFICACIONES CONTROL SERVICIONES SE PLANOS Y ESPECIFICACIONES SE PLANOS Y ESPE

BOX В

Drawn by : Montilla Garcia

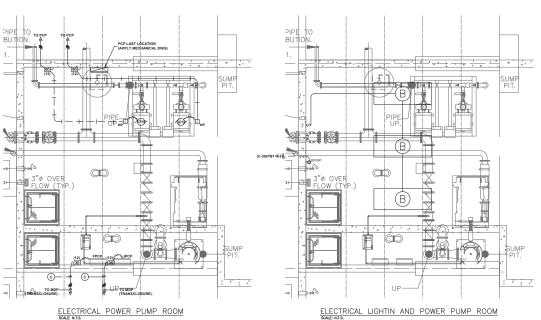
Date 21 SEPT 2022

No. Revision Date B

IMPROVEMENTS & EXPANSION MUNICIPAL COLISEUM **ANGEL MERCADO** VEGA Bo. PUEBLO SABANA GRANDE PUERTO RICO

Drawing Title

LIGHTING LAYOUT



LEGEND (PUMP ROOM)

B CEILING OUTLET WITH LED FIXTURE INSIDE LETTER INDICATES FIXTURE AS PER LIGHTING SCHEDULE, DWG E-1.

CELLING OUTLET WITH EMERGENCY AND EXIT LIGHT FIXTURE AS PER LIGHTING SCHEDULE, DING E-1.

 \oplus HEAT DETECTOR CAT NO. 4098-9613 AND BASE CAT NO. 4098-9788 SIMPLEX OR SIMILAR TO F.A.C.P.

SPECIFICATION GRADE DUPLEX RECEPTACLES 20 APMS. TAMPER RESISTANT 125 VAC, GND TYPE ARROW HART CAT. NO. 5735 WITH PLATE. CAT. NO. 93101 18" AF.F.

CONDUIT EXPOSED RIGID STEEL PVC COATED OR CONCEALED ON CONCRETE SLAB

FIRE PUMP CONTROLLER (SPECS BY OTHER).

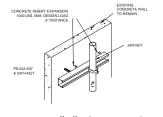
JPCP

(OHP) PUMP MOTOR 10PH, 3PH, 240 VOLTS, SPECS BY OTHER.

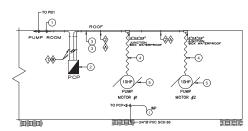
UNFUSED DISCONNECT SWITCH-60A, 3P., 600 V, NEMA 12.

PUMPS CONTROL PANEL. (SPECS. BY OTHER).

ANALY FLEXIBLE CONDUIT SEALTIGHT WITH CONNECTION SEALTIGHT



(TYPICAL)



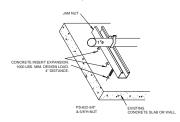
RISER DIAGRAM PUMP ROOM (WATER)

RISER DIAGRAM PUMP ROOM (WATER):

- 1 SECONDARY FEEDER 4W# 2 THHN, 90 °C & 1W#6 THHN, GND. IN 2"# RGS PVC COATED.
- 2 PUMPS CONTROL PANEL DEAD FRONT, 3PH, 4W, 240/120 VOLTS. AT 5'-6" A.F.F. (FOR DESCRIPTION APPLY, MECHANICAL DWG).
- 3 SECONDARY FEEDER 3W#8 THHN, 90 'C & 1W#10 THHN, GND. IN 1"Ø RGS PVC COATED.
- 4 SECONDARY FEEDER 3W#8 THHN, 90 'C & 1W#10 THHN, GND. IN 1° SEAL TIGHT CONDUIT..
- (5) PUMP 10HP, 230 V., 36 WITH HORSE POWER AS INDICATED BY INSIDE NUMBER. BRANCH CIRCUIT PROTECTION 30A/3P, 240 VOLTS. (FOR DESCRIPTION APPLY MECHANICAL DWG).
- $\fbox{6}$ 3W#8 THWN-2, 90'-C & 8 THWN-2, 90'-C GND IN 2"0 PVC SCH. 40, 36 BELOW FINISH GRADE.

NOTES:

- EXISTING CONCRETE SLAB OR WALL TO BE DRILL FOR INSTALLATION OF ELECTRICAL CONDUIT. COORDINATE THIS ELECTRICAL WORKS WITH IN THE FIELD WITH PROJECT INSPECTOR.
- USE STEEL STRUT PS-621-1/2" CLAMPS PS-1132 AND STANDARD BOLTS NUTS, WASHERS SAME AS REQUIRED. (SEE DETAIL "A" & "B")



(TYPICAL) (HORIZONTAL BELOW ROOF)



AMON A. DURAN, P.E. FA BIX SIDE CONTROL OF SHEET, SITE O

NO RAMON A JOHAN FERNANDEZ, UC.12858 P.E., CERTIFICO QUE SOY EL PROFESIONAL, QUE (DISERIO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMBITARIAIS. TAMBIÉN CERTIFICO QUE
EMPIRADO QUE DIDINOS PURADOS Y ESPECIFICACIONES COMPLEMBITARIAIS. TAMBIÉN CERTIFICO QUE
EMPIRADO QUE DIDINOS Y ESPECIFICACIONES COMPLEMBITARIA CONTROL
008136, BÖX 9

Drawn by : Montilla Garcia

21 SEPT 2022

IMPROVEMENTS & EXPANSION MUNICIPAL **COLISEUM ANGEL MERCADO**

VEGA Bo. PUEBLO SABANA GRANDE PUERTO RICO

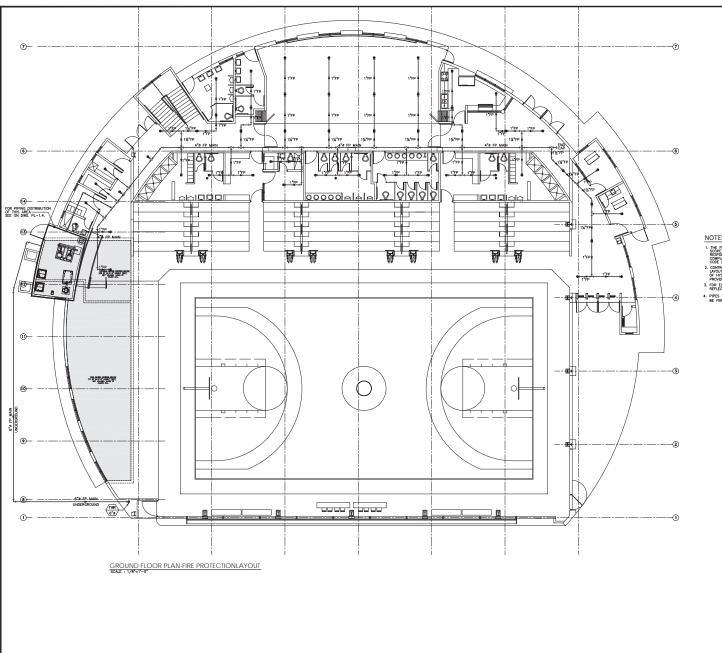
ELECTRICAL PUMP ROOM

AS SHOWN File Name

Drawing Number

E - 15

heet Number 45



LEGEND:

- FIRE PROTECTION PIPE

UP RIGHT TYPE SPRINKLER PENDANT TYPE SPRINKLER

FIRE PROTECTION RSER IDENTIFICATION

DR 4°8 RISER IDENTIFICATION

A°8 RISER IDENTIFICATION

(A) STANDPIPE

FIRE PROTECTION DRAIN RISER IDENTIFICATION

₿ STANDPIPE WITH FLOOR CONTROL & DRAIN VALVE

~< FIRE DEPT. SIAMESE

FCV FLOW CONTROL VALVE

FIRE RATED PARTITION

- THE FIRE PROTECTION SYSTEM SHOWN ON THE BID DRAWINGS IS TO ESTABLISH THE SCOPE OF WORK TO BE PERFORMED. HE INSTALLING CONTRACTOR MUST BE FULLY RESPONSIBLE FOR THE FINAL HERBALLIC ESTAIN AND PRIPMS LOVID. SHOWD DRAWINGS COMPLETE CONSIDERATION OF ELEVATIONS AND COMPLIANCE WITH THE STANDARDS AND CODE REFERENCE IN THESE NOTES.
- CODE REFERENCED IN THESE HOTES.

 CONTRACTOR SHALL COORDINATE SUBJECT SHOP DRIVANGS OF EQUIPMENT, MATERIAL LAYOUT ACCESSORIES, CONTROL & INSTALLATION AND SHALL INCLUDE COMPUTER FIRST PROVIDE TESTING OF THE INSTALLATION TO COMPAY THAT THE REPARAMENT OF PROVIDED AND THE PROVIDED OF - PIPES OR CONDUITS CROSSING FIRE RATED PARTITION AND CONCRETE FLOOR MUST BE FIRESTOP AS PER DETAIL IN DRWG. FP-200.

Drawn by : J. Hernandez

8

Checked by JOSE LUIS MARRERO

DECEMBER 2022

No. Revision Date

IMPROVEMENTS & EXPANSION MUNICIPAL

COLISEUM **ANGEL MERCADO VEGA** Bo. PUEBLO

SABANA GRANDE. PUERTO RICO Drawing Title

GROUND FLOOR PLAN-FIRE PROTECTION
LAYOUT

Scale 1/8"=1'-0"

File Name 20-061

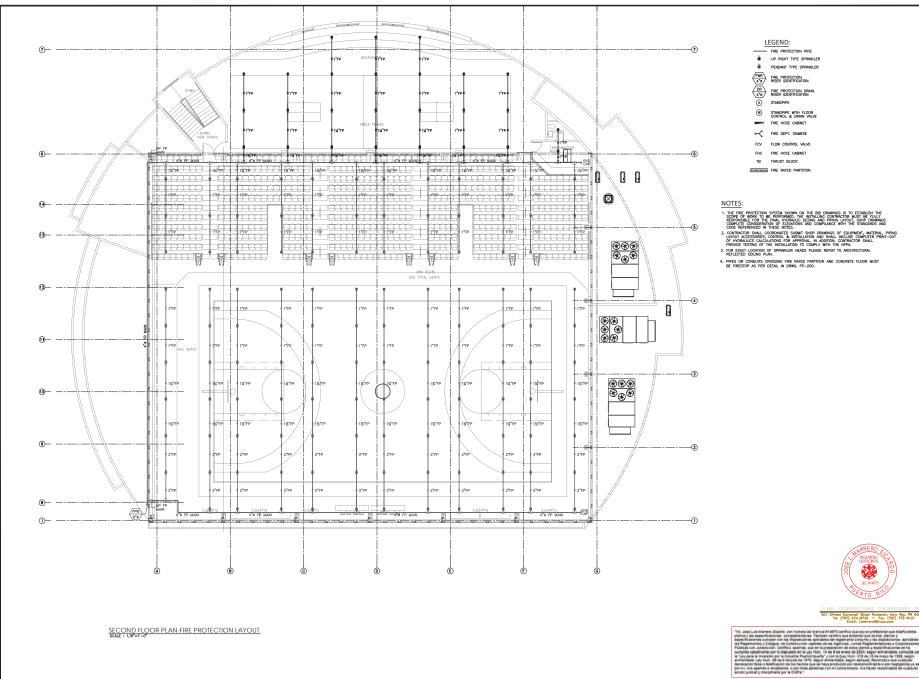
Drawing Numbe

FP-100

Sheet Number

46

TVo. Jose Julio Marver, Etzanis, con numero se learnos el 1870 centros coa ser al professiona que disado entre plantes y se apporticaciones complementares. Tembra nuntrio que entendo que cincia garcela y especificamenes majores mans deposicamen entre al productione entendo que entendo que contro garcela y especificamen entendo que majore en las deposicamens entendos que el 1870 centro entre entre participar de la majore en las deposicamens entre participar deliberar por ou trapasse en las entre participar deliberar entre entre participar entre entre participar entre entre entre participar entre e



Drawn by : J. Hernandez

Checked by JOSE LUIS MARRERO

DECEMBER 2022

No. Revision Date

Project

IMPROVEMENTS & EXPANSION **MUNICIPAL COLISEUM**

ANGEL MERCADO VEGA Bo. PUEBLO SABANA GRANDE.

PUERTO RICO Drawing Title SECOND FLOOR PLAN-**FIRE PROTECION**

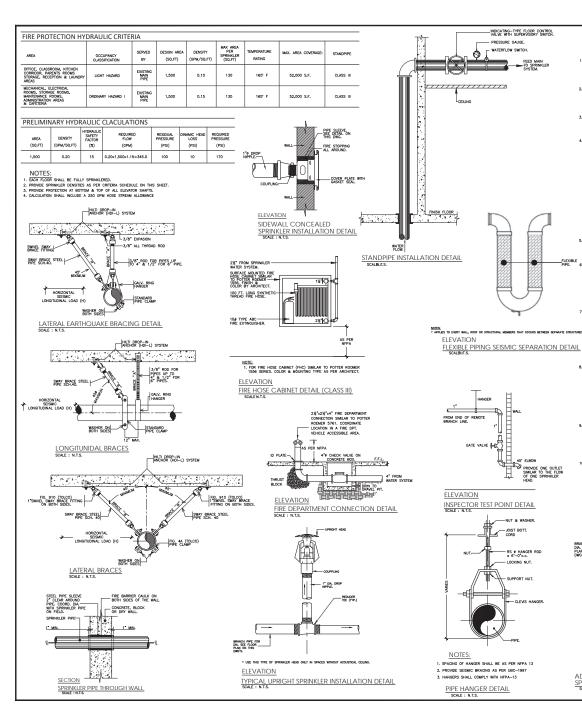
LAYOUT

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File Name 20-061

Drawing Number FP-101

Sheet Number



FIRE PROTECTION SYSTEM SPECIFICATION

SPRINKLER SYSTEM

_INDICATING-TYPE FLOOR CONTROL VALVE WITH SUPERVISORY SWITCH.

WATERFLOW SWITCH.

JOIST BOTT.

RS # HANGER ROD

- CLEVIS HANGER

- LOCKING NUT

Φ

IN GENERAL, INCLUDING THE FOLLOWING: PROVIDE AND INSTALL A COMPLETE SPRINKLER PROTECTION SYSTEM WHERE HODICATED ON THE DRAWINGS INCLUDING ALL PIPE, FITTINGS VALVES, HANGERS, PENDENT SPRINKLER HEADS, ETC. SHALL BE HISTALLED AS PER INFOR REQUIREMENTS, PAPHILLET NO. 13.

- 2. SPRINKLER LOCATIONS AS INDICATED, PIPHIG RUNS & DIMMETERS ARE TO BE LAUD OUT & SZED AS FER SPRINKLER CONTRACTOR'S SHOP DAWNINS, WHICH MUST BE SUBMITTED & APPROVED BY A/E PRIOR TO ANY FABRICATION & INSTALLATION COMMENCING.
- CONTRACTOR SHALL SUBMIT A FINAL SHOP DRAWINGS WITH HYDRAULIC CALCULATIONS FOR THE SYSTEM TO PROVIDE COVERAGE USING SPRINKLER FOR 33 FT. HEIGHT BUILDING AND MAXIMUN STORAGE HEIGHT OF 22 FT FOR COMMODITY CLASS 3
- 4. DESIGN CRITERIA:

A). INSTALLATION SHALL CONFORM TO NFPA PAMPHLET 13-LATEST EDITION.

 B). INSTALLING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS
WITH HYDRAULIC CALCULATION. PROVIDE SPRINKLER PROTECTION
WITH A WATER FLOW DENSITY OF 0.20 GPM PER SQUARE FEET OVER ENTIRE AREA NOT TO EXCEED 3,000 SQ. FT.

C). ALL SPRINKLERS TO BE 165' F CEILING SPRINKLERS FOR EXPOSES PIPING AREAS

D). MAXIMUM SPRINKLER HEAD SPACING SHALL BE 130 SQ. FT. PER HEAD

- GENERAL EQUIPMENT AND MATERIALS SPECIFICATIONS:
 ALL VALVES, HANGERS, SPRINKLERS, ACCESSORIES, AND ALL
 RELATED EQUIPMENT AND MATERIALS SHALL BE UL LISTED & FM

CONTRACTOR TEST THE ENTIRE SPRINKLER SYSTEM AT HIS THE CONTRACTOR TEST THE ENTIRE SPRINKLER SYSTEM AT HIS OWN EXPRISED, IN THE MANNER ROUNDED AND IN THE MANNER ROUNDED AND IN THE PRESENCE OF THE REPRESENTATIVES OF THE LOCAL OCCURRING BOOSES HAWING JURISECTION, THE INSURANCE RATING ORGANIZATION, AND ALL OTHER AUTHORITIES HAWING JURISECTION. CERTIFICATES OF REPROVAL SHALL BE ORTINADED FROM THE AUTHORITIES AND DELUKRED TO THE OWNER BEFORE FINAL ACCEPTANCE.

DRAWINGS AND INFORMATION REQUIRED:
 FIVE (5) COPIES OF SHOP DRAWINGS OF PIPING, SLEEVE AND HANGERS LOCATIONS, ETC., SHALL, BE SUBMITTED TO THE OWNER AND THEIR APPROVAL SECURED BEFORE THE WORK IS ASSEMBLED AND INSTALLED.

CONTRACTOR SHALL SUBMIT SHOP DRIVAINGS OF EQUIPMENT, MATERIAL, PIPING LAYOUT ACCESSIORES, CONTROL & INSTALLATION AND SHALL INCLUDE COMPUTER PRINT-OUT OF HYDRAULOS CALCULATIONS FOR APPROVAL IN ADDITION, CONTRACTOR SHALL PROVIDE TESTING OF THE INSTALLATION TO COMPLY WITH THE NFPA.

- a. THE PIRCE PROTECTION SYSTEM SHOWN ON THE BID DRAWINGS IS TO ESPACIASH THE SLOVE OF WORK TO BE PERFORMED. THE THE FIRM IMPORALLY DESIGN AND PHORE LAVOUR, "SHOW DRAWINGS, HYDRAULD DESIGN AND PHORE LAVOUR," SHOW DRAWINGS, HYDRAULD DESIGN AND PHORE LAVOUR, "SHOW DRAWINGS, AND JUST CONTRACTOR SHOW LAVES TO CHARGE STANDARD STANDARD SHOW THE STANDARD SHOW DRAWINGS AND THE CONTRACTOR SHALL VISIT THE EXISTING WASTES STANDARD DESIGNED, AND OPPORT AND THE KARREST WATER HYDRAWT AND SHALL SUBMIT PRESSURE-FLOW CHARGE OF THE SYSTEM.
- 9. THE WORK SHALL BE CERTIFIED BY A LICENSED ENGINEER IN PURETO RICO AND AN ACTIVE MEMBER OF THE COLLEGE OF ENGINEERS AND SUPERVISOR OF PURETOR RICO CONFIDENCE OR IN THE RECOURP PAYROLL OF THE INSTALLING CONFIDENCE OR LUCKES SECURE CONFIDENCE TO THE ENGINEERING WORK WINDOWS SECURE CONFIDENCES. THE RIGHT TO RECOURE PROOF OF EITHER CONDITIONS.
- ALL COMPUTATIONS AND FINAL SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER'S INSURANCE AGENCY REPRESENTATIVE FOR FINAL APPROVAL.

NIPPLE. DROP

SPRINKLER HEAD.

ELEVATION

ADJUSTABLE CONCEALED PENDANT SPRINKLER INSTALLATION DETAIL

CLEAN ROOM TYPE -COVER PLATE WITH GASKET SEAL ASSEMBLY FOR DUST FREE ENVIRONMENT.

- 11. UNDER ANY CIRCUMSTANCES CHANGE ORDERS SHALL NOT BE CONSIDERED UNLESS IT IS A CHANGE OF FIELD CONDITIONS AFTER THE AWARD OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITS TO THE SITE PRIOR TO
- AN ALARM CHECK VALVE OR OTHER LISTED WATERFLOW DETECTING ALARM SHALL BE PROVIDED WITH ALL THE NECESSARY ATTACHMENTS REQUIRED TO GIVE AN ALARM.
- 13. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NPPA STANDARDS, THE REQUIREMENTS OF FACTORY MUTUAL AND THE SPECIFICATIONS ISSUED FOR THIS PROJECT.
- 14. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE A FULLY TESTED OPERATIONAL SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS DESCRIBED ON CONTRACT DOCUMENTS. WORK REQUIRED BUT NOT SHOWN ON DRAWINGS TO ACHIEVE SUCH A SYSTEM SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- 15. THE CONTRACTOR SHALL WIST THE JOB SITE AND DETERMINE THE DISTING CONDITIONS AND LIMITATIONS UNDER WHICH THE WORK IS TO BE PERSONNED. THE SUBMISSION OF A BID SHALL BE CONSISCRED AS EMPORCE THAT SUCH EXAMINATION HAS BEEN MADE AND CONDITION VERWED. IF ANY IDDICEMENTS SHALL ARRES, THEY SHALL BE BROUGHT TO THE OWNER'S ATTENTION PRIOR TO THE SUBMISSION OF THE BID.
- ALL MATERIAL AND EQUIPMENT SHALL WITHSTAND A WORKING PRESSURE OF NOT LESS THAN 175 PSL
- 18. SPRINKLER PIPING TO BE PAINTED WITH ONE COAT OF INDUSTRIAL PRIMER AND ONE COAT OF FINISH ENAMEL. TAGS, PLACARDS TO BE FURNISHED AND INSTALLED AS PER CODES REQUIREMENTS.
- 19. ALL EQUIPMENT AND MATERIAL TO BE ULLUSTED AND FACTORY MUTUAL
- SYSTEM TO BE HYDROSTATICALLY TESTED AT 200 PSI FOR A PERIOD OF TWO HOURS. TEST PRESSURE SHALL NOT VARY MORE THAN 5 PSI.
- PROVIDE PROTECTION OF PIPING AGAINST DAMAGE FROM EARTHQUAKE AS DESCRIBED AND SPECIFIED BY IBC-2009 AND NFPA STANDARDS.
- 22. CONTRACTOR SHALL COMPLY WITH OWNER'S FIRE PROTECTION STANDARDS
- A. ALL INTERIOR PIPING SHALL BE BLACK STEEL PIPE AST-A53 SCH. AS PER NFPA.
- B. FITTINGS SHOULD BE 175 LB. CLASS (MINIMUM).

- C. PROVIDE SPARE HEADS EQUAL 1% OF THE TOTAL NUMBER OF HEADS INSTALLED UNDER THIS CONTRACT.
- D. SPRINKLER IN PROCESS ROOMS SHALL HAVE COVER PLATE WITH GASKET SEAL ASSEMBLY FOR DUST FREE ENVIRONMENT.
- 26. CONTRACTOR SHALL PROVIDE A FLOW SWITCH IN THE MAIN SUPPLY FIRE PIPE CONNECTED TO THE BULLDING'S FIRE ALARM SYSTEM AND SIGNALING TO A VISUAL AND AUDIBLE 24 HOURS SUPPERVISED ALARM.
- 27. TRUST-BLOCKS SHALL BE PROVIDED AT FIRE MAINS.
- THE CONTRACTOR SHALL COORDINATE THE SPRINKLER HEAD LAYOUT WITH FINAL ARCHITECTURAL CEILING LAYOUT.
- ALL FIRE MAINS & VALVE AT MECHANICAL ROOM SHALL BE PROVIDED WITH SUPERVISORY TAMPER SWITCHES AS PER NFPA STANDARDS.



501 Alfredo Carbonell Street Roseevelt, Halo Rey, PR 00 TeL (787) 274-8728 * Fox. (787) 772-9121 Emell: Lmorrero@limpe.com

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20-061

ANGEL MERCADO VEGA **Bo, PUEBLO** SABANA GRANDE. PUERTO RICO

IMPROVEMENTS

& EXPANSION

MUNICIPAL

COLISEUM

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JOSE LUIS MARRERO

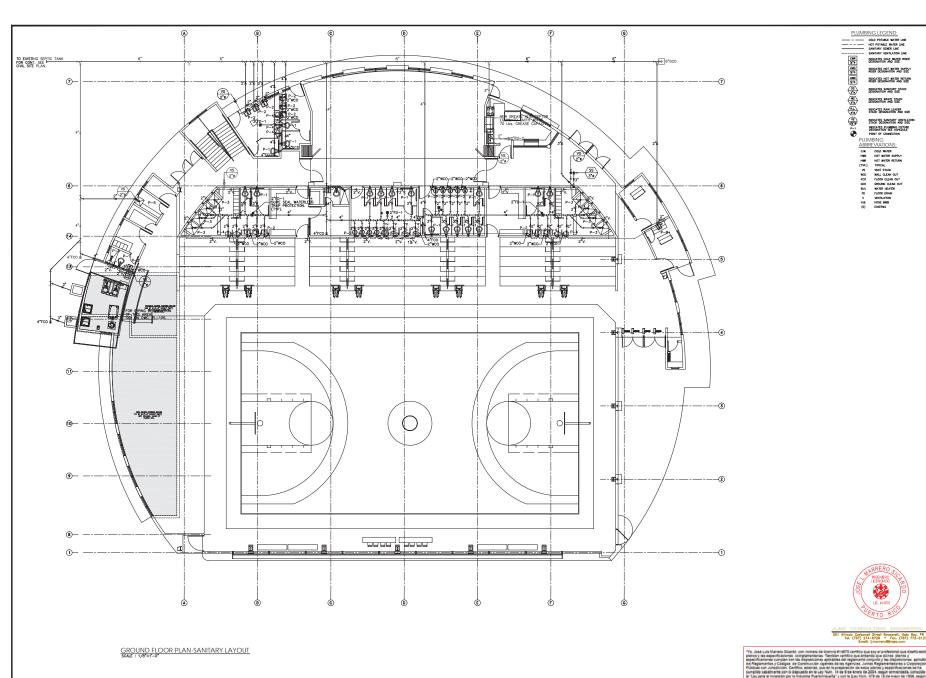
DECEMBER 2022

Revision Date

FIRE PROTECION DETAILS & NOTES

Scale N.T.S.

Sheet Number



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DECEMBER 2022

No. Revision Date

Project

IMPROVEMENTS & EXPANSION MUNICIPAL

ANGEL
MERCADO
VEGA
Bo. PUEBLO

SABANA GRANDE, PUERTO RICO

GROUND FLOOR PLAN-SANITARY LAYOUT

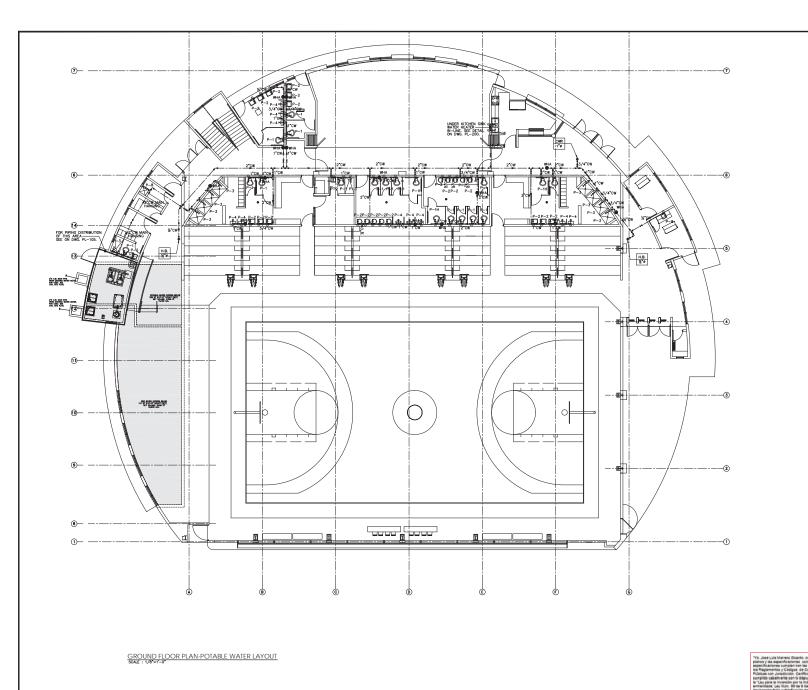
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INDICATES COLD MATER RISES DESIGNATION AND SIZE INDICATES HOT WATER SUPPLY RISER DESIGNATION AND SIZE INDICATES HOT MATER RETURN RISER DESIGNATION AND SIZE

INDICATES SANITARY STACK DESIGNATION AND SIZE INDICATES WASTE STACK DESIGNATION AND SIZE INDICATES RAIN LEADER STACK DESIGNATION AND SIZE

INDICATES SANITARY VENTILATION STACK DESIGNATION AND SIZE STACK DESIGNATION AND SIZE
INDICATES PURPING PIXTURE
INDICATES PURPING PIXTURE
INDICATES PURPING PIXTURE
INDICATES PURPING
PROVIDED OF CONNECTION
PLUMBING
ABBREVIATIONS:

ABBREVIATIONS:

ON COLD WATER
HERS HOT WATER SUPPLY
HER HOT WATER SUPPLY
VS WON STACK
WON STACK
OF MALE CLEM OUT
FLOOR CLEM OUT
FLOOR CLEM OUT
FLOOR CLEM OUT
WATER HEATER
V WENTLATION
H.B. HOUSE BBBB
(E) DASTING

Drawn by : J. Hernandez

Checked by JOSE LUIS MARRERO

DECEMBER 2022

No. Revision Date

008136,

IMPROVEMENTS & EXPANSION MUNICIPAL

COLISEUM **ANGEL MERCADO** VEGA Bo. PUEBLO SABANA GRANDE,

PUERTO RICO GROUND FLOOR PLAN-POTABLE WATER
LAYOUT

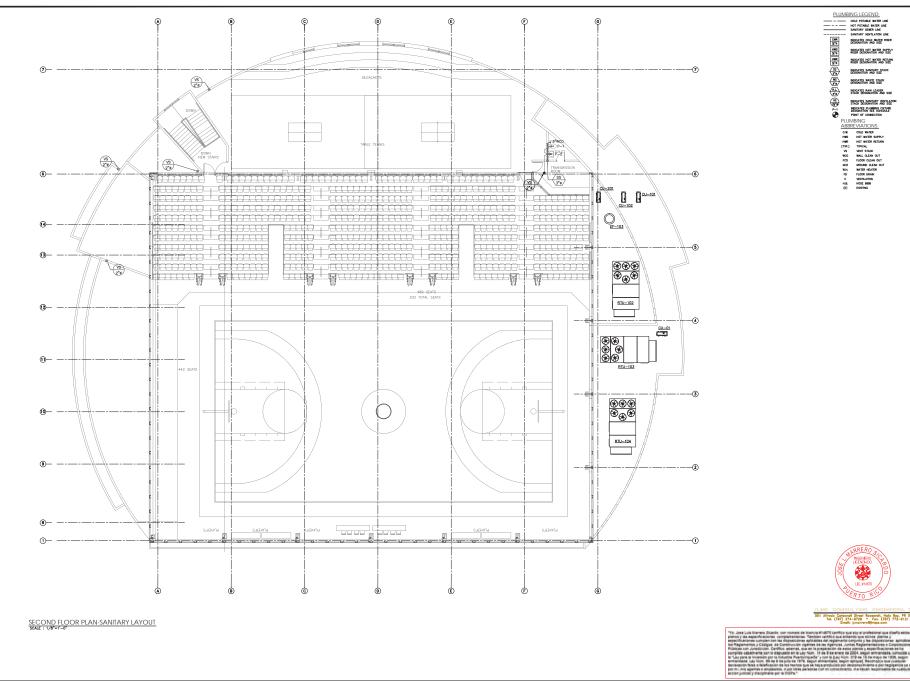
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INDICATES COLD WATER PISER DESIGNATION AND SIZE INDICATES HOT MATER SUPPLY RISER DESIGNATION AND SIZE

INDICATES HOT MATER RETURN RISER DESIGNATION AND SIZE INDICATES SANITARY STACK DESIGNATION AND SIZE INDICATES WASTE STACK

INDICATES SANITARY VENTILATION STACK DESIGNATION AND SIZE INDICATES PLUMBING FIXTURE DESIGNATION SEE SCHEDULE POINT OF CONNECTION

POINT OF COMMECTION
PULL/MBINDS

C.W. GOLD WARDS SUPPLY
WARD OF COLOR GLAN GUT
OCCUPANT OF COLOR GLAN GUT
OCCUPANT OF COLOR GLAN GUT
FOR PLOOR GLAN GUT
FOR PLOOR GLAN GUT
FOR PLOOR GLAN GUT
FOR PLOOR GRAN
WARD WARDS

FOR GRAN

WARD COLOR GUT
FOR
Drawn by : J. Hernandez

Checked by JOSE LUIS MARRERO

DECEMBER 2022

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IMPROVEMENTS & EXPANSION MUNICIPAL

COLISEUM ANGEL MERCADO VEGA Bo. PUEBLO

SABANA GRANDE. PUERTO RICO SECOND FLOOR PLAN-

SANITARY LAYOUT

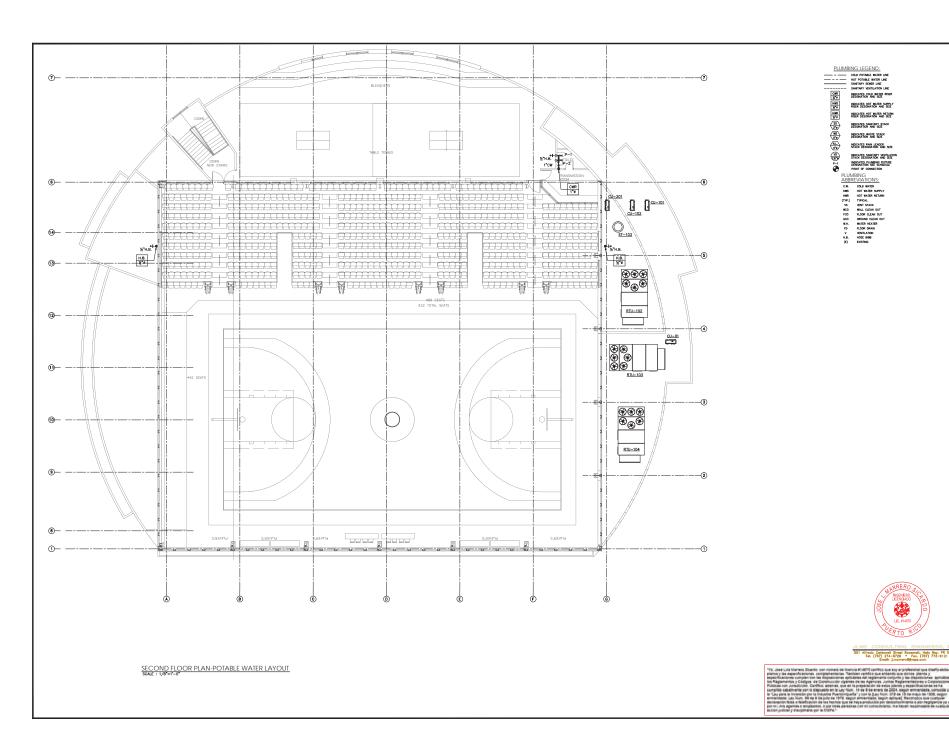
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PL-102

Sheet Number



INDICATES COLD MATER RISES DESIGNATION AND SIZE INDICATES HOT WATER SUPPLY INDICATES HOT MATER RETURN
RISER DESIGNATION AND SIZE INDICATES SANITARY STACK DESIGNATION AND SIZE

INDICATES WASTE STACK DESIGNATION AND SIZE **4** 3 **6** 5 **5** 5 INDICATES RAIN LEADER STACK DESIGNATION AND SIZE INDICATES SANITARY VENTILATION STACK DESIGNATION AND SIZE

STACK DESIGNATION AND SIZE

INDICATES PURINERS FIXTURE

INDICATES PURINERS FIXTURE

PERSONATION SEE SCHEDULE

POINT OF CONNECTION

PLUMBING

ABBREVIATIONS:

ABBREVIATIONS:

CM. COLD WATER
HIST HOT WATER SETAN
HIST WATER SETAN
10" WATER SETAN
10" WEST STACK
WEST STACK
COM MALL CLAM OUT
FOO PLORE OLDM OUT
FOO PLORE OLDM OUT
WHA WATER HEATER
1" WESTLATON
WATER HEATER
1" WESTLATON
HE HEATER
1" WESTLATON
1" WESTLATON
HE HEATER
1" DE GEORGE
1" DESTING

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IMPROVEMENTS & EXPANSION MUNICIPAL

COLISEUM ANGEL MERCADO VEGA Bo. PUEBLO

SABANA GRANDE. PUERTO RICO Drawing Title

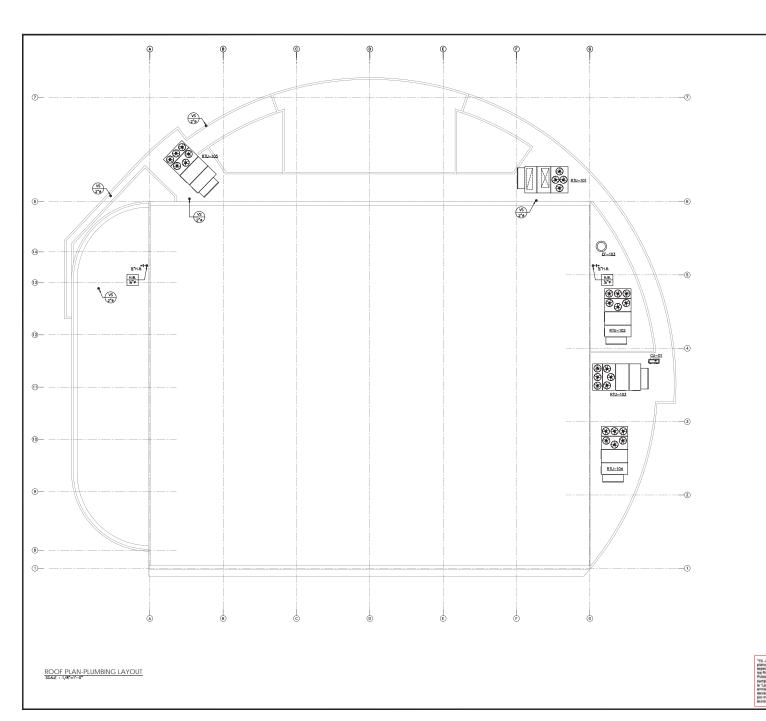
SECOND FLOOR PLAN-POTABLE WATER **LAYOUT**

Scale 1/8"=1'-0"

File Name 20-061

Drawing Numbe PL-103

Sheet Number



♣ 2 (€9 (5) (5) (5) (5) (5) (5) (5) INDICATES COLD WATER RISES DESIGNATION AND SIZE INDICATES HOT WATER SUPPLY RISER DESIGNATION AND SIZE INDICATES HOT MATER RETURN RISER DESIGNATION AND SIZE INDICATES SANITARY STACK DESIGNATION AND SIZE INDICATES WASTE STACK DESIGNATION AND SIZE

INDICATES RAIN LEADER STACK DESIGNATION AND SIZE INDICATES SANITARY VENTILATION STACK DESIGNATION AND SIZE STACK DESIGNATION AND SIZE
INDICATES PURPING PIXTURE
INDICATES PURPING PIXTURE
INDICATES PURPING PIXTURE
INDICATES PURPING
PROVIDED OF CONNECTION
PLUMBING
ABBREVIATIONS:

ABBREVIATIONS:

ON COLD WATER
HERS HOT WATER SUPPLY
HER HOT WATER SUPPLY
VS WON STACK
WON STACK
OF MALE CLEM OUT
FLOOR CLEM OUT
FLOOR CLEM OUT
FLOOR CLEM OUT
WATER HEATER
V WENTLATION
H.B. HOUSE BBBB
(E) DASTING

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IMPROVEMENTS & EXPANSION MUNICIPAL

COLISEUM **ANGEL MERCADO** VEGA Bo. PUEBLO

SABANA GRANDE, **PUERTO RICO**

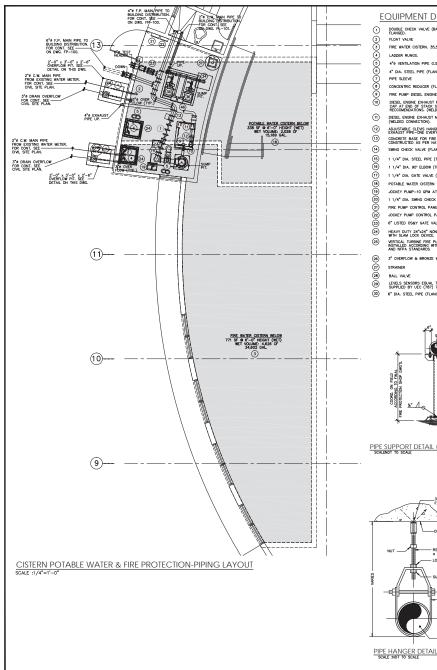
ROOF PLAN-PLUMBING LAYOUT

Scale 1/8"=1'-0"

File Name 20-061

Drawing Number PL-104

Sheet Number



EQUIPMENT DESCRIPTION

DOUBLE CHECK VALVE (BACKFLOW PROTECTION) FLANGED.

FLOAT VALVE FIRE WATER CISTERN. 35,531 GALS.

LADDER RUNGS.

4"ø VENTILATION PIPE G.S. 4" DIA. STEEL PIPE (FLANGED).

PIPE SLEEVE

CONCENTRIC REDUCER (FLANGED). FIRE PUMP DIESEL ENGINE.

DIESEL ENGINE EXHAUST PIPE WITH FIRE PROOF INSULATION AND RAIN CAP AT END OF STACK SIZED AS PER PUMP'S MANUFACTURER RECCOMENDATIONS. (WELDED CONNECTION).

DIESEL ENGINE EXHAUST MUFFLER WITH FIRE PROOF INSULATION (WELDED CONNECTION).

ADJUSTABLE CLEVIS HANGER FOR DIESEL ENGINE EXHAUST PIPE-ONE EVERY 4'-0" (HEAVY DUTY). CONCRETE BASE FOR FIRE PUMP DIESEL ENGINE-SHAL E CONSTRUCTED AS PER NATIONAL HYDRAULIC INSTITUTE.

1 1/4" DIA. STEEL PIPE (THREADED).

1 1/4" DIA. 90" ELBOW (THREADED). 1 1/4" DIA, GATE VALVE (THREADED).

POTABLE WATER CISTERN 16,035.6 GALS.

JOCKEY PUMP-10 GPM AT 85 PSI, 3HP.

1 1/4" DIA. SWING CHECK VALVE (THREADED).

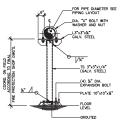
FIRE PUMP CONTROL PANEL AT 5'-6" TOP LEVEL FROM FINISHED FLOOR. JOCKEY PUMP CONTROL PANEL AT 5'-6" TOP LEVEL FROM FUINISHED FLOOR.

HEAVY DUTY 24"x24" NON-SUP ALUMINUM ACCESS DOOR WITH SLAM LOCK DEVICE.

VERTICAL TURBINE FIRE PUMP-500 GPM AT 170 PSI. INSTALLED ACCORDING WITH NATIONAL HYDRAULIC INSTITUTE AND NEPA STANDARDS

BALL VALVE

LEVELS SENSORS EQUAL TO WARRICK CONTROLS, SUPPLIED BY UEC (787) 728-2880.



PIPE SUPPORT DETAIL (WHERE NEEDED)
SCALENOT TO SCALE

(31) 3" DIA. OVERFLOW. UNIVERSAL UNION.

(33) 2" DIA. PVC AWWA C-900 SDR-14 POTABLE WATER PIPE FROM MAIN WATER PIPE. 34)

33 GATE VALVE. 36)

(37)

POTABLE WATER PUMP
CLOSE COUPLED PUMP. (2) 75 GPM
© 200 FT TDH. 10 HP, 208/3/60.
PROVIDE VSD FOR PUMP MOTORS.

COMBINATION PRESSURE REGULATING NON-SLAM CHECK VALVE.

INDIVIDUAL PUMP PURGE VALVE.

999999 FLOW SENSOR FLEXIBLE CONNECTION

FLOW CONTROL CHECK VALVE

FLOW SWITCH

€ SKID MOUNTED PRESSURE BOOSTER SYSTEM GRUNDFOS MODEL CRE20-5

47 48 NOT USED.

(49) (50) PS-1 TANK SUPPROT STRUCTURE. BY-PASS

OFF-TROL PRESSURE SWITCH LOW SYSTEM/HIGH SYSTEM PRESS, SWITCH.

> FIRE BARRER CAULK ON SPRINKLER PIPE LINE.

TYPICAL INSTALLATION DETAIL

ELEVATION PIPE THROUGH WALL

PRESSURE GAUGE.
FLOW SENSOR.
NORMALLY CLOUSE.
NORMALLY OPEN.
POTABLE WATER PUMP.

CISTERN NOTES

ABOVE SYSTEM COMPONENTS ARE TO BE FACTORY ASSEMBLED & MOUNTED ON SINGLE STRUCTURAL BASE.

4 ADDLY ON ALL INTEDIOD EACES OF CISTEDN SIXACIJADO NO 62 DV SIXA CHEMICAL CORP. APPLY AS PER MANUFACTURER'S RECOMMENDAT

6. INSTALL AT BOTTOM SLAB AND FOOTING A VAPOR BARRIER.

ALL CONTROL WIRING IN THE PUMP ROOM AND CISTERN SHALL BE IN ACCORDANCE W/THE NATIONAL ELECTRICAL CODE LATEST EDITION.

8. FOR EXACT LOCATION OF CISTERN SEE ARCHITECTURAL DRAWINGS.

 PRESSURE BOOSTER SYSTEM SHALL BE SIMILAR TO SYCROFLO SKID MOUNTED TRIPLEX PUMPING, MODEL IRON HEART. EQUIPMENT CONCRETE BASES SHOWN ARE TO ESTABLISH SCOPE OF WORK ONLY. CONTRACTOR SHALL COORDINATE WITH SHOP DRAWINGS

PUMP ROOM

STEEL FLANGE WELDED TO PIPE

- WATER LEVEL

STEEL FLANGE WELDED TO PIPE.

CISTERN VENT DETAIL SCALEN: T.S.

PUMP ROOM

CISTERN OVERFLOW DETAIL SCALE :N.T.S.

HIGH WATER

POTABLE WATER WATER PUMPS SHALL BE CONNECTED TO EMERGENCY POWER SEE ELECTRICAL DWG'S.

PLUMBING LEGEND:

HOT POTABLE WATER LINE SANITARY SEWER LINE

SANITARY VENTILATION LINE INDICATES COLD WATER RISER DESIGNATION AND SIZE INDICATES HOT WATER SUPPLY RISER DESIGNATION AND SIZE

INDICATES HOT WATER RETURN RISER DESIGNATION AND SIZE 3°6 INDICATES SANITARY STACK DESIGNATION AND SIZE

INDICATES WASTE STACK DESIGNATION AND SIZE

INDICATES RAIN LEADER STACK DESIGNATION AND SIZE VS 1½*9 INDICATES SANITARY VENTILATION

INDICATES PLUMBING FIXTURE DESIGNATION SEE SCHEDULE

PLUMBING ABBREVIATIONS:

COLD WATER HOT WATER SUPPLY HOT WATER RETURN

(TYP.) VS WCO TYPICAL VENT STACK WALL CLEAN OUT

FLOOR CLEAN OUT GROUND CLEAN OUT WATER HEATER FLOOR DRAIN

VENTILATION HOSE BIBB EXISTING Checked by JOSE LUIS MARRERO

DECEMBER 2022 lo. Revision Date

Drawn by : J. Hernandez

IMPROVEMENTS & EXPANSION **MUNICIPAL COLISEUM ANGEL**

MERCADO VEGA Bo. PUEBLO SABANA GRANDE. **PUERTO RICO**

CISTERN POTABLE WATER FIRE PROTECTION **PIPING LAYOUT**

1/4"=1'-0"

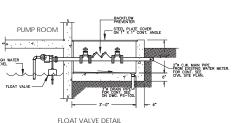
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Drawing Number PL-105

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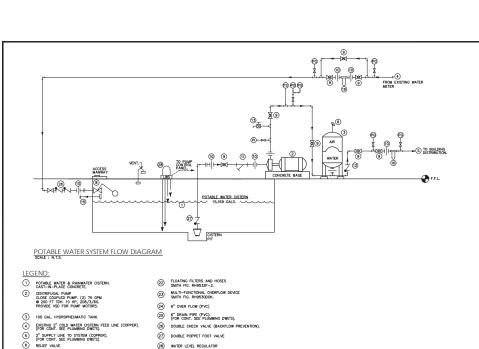
PLIMP ROOM STEEL PLATE COVER ON 1" X 1" CONT. ANGLE FLOAT VALVE FLOAT VALVE DETAIL SCALE :N.T.S.



STEEL PLATE COVER

2-5

BRONZE WIRE MESH WELDED TO PIPE.



PG PRESSURE GAUGE

PS PRESURE SWITCH

(FS) FLOW SENSOR (NO) NORMALLY OPEN

(PI) PRESSURE INDICATOR

(NC) NORMALLY CLOSED

2* DRAIN PIPE (PVC). (FOR CONT. SEE PLUMBING DWG'S). B FLOAT VALVE

(4) PRESSURE REGULATING NON-SLAM CHECK VALVE.

9 BALL VALVE (BRONZE BODY).

(10) UNIVERSAL UNION

11 STRAINER

(13) PURGE VALVE

(16) IN-LINE FILTER (5 Mc)

17 IN-LINE FILTER (50 Mc)

19 RAINWATER FROM ROOF DRAIN O VORTEX RAINWATER FILTER SMITH FIG. RH9520-06.

(18) CONTROL VALVE

21 SMOOTHING INLET SMITH FIG. RH9530SI.

CISTERN NOTES:

- 1. THESE DETAILS INDICATE GENERAL ARRANGEMENT AND ARE SCHEMATIC ONLY.
- ABOVE SYSTEM COMPONENTS ARE TO BE FACTORY ASSEMBLED & MOUNTED ON SINGLE STRUCTURAL BASE.
- APPLY ON ALL INTERIOR FACES OF CISTERN SIKAGUARD NO.62 BY SIKA CHEMICAL CORP. APPLY AS PER MANUFACTURER'S RECOMMENDATIONS
- 5. ON EXTERIOR FACES OF ALL UNDERGROUND WALLS AND SLABS, INSTALL BITUMINOUS DAMPROOFING AS MFG. BY EMULSFIED PRODUCT INC.
- 6. INSTALL AT BOTTOM SLAB AND FOOTING A VAPOR BARRIER.

- EQUIPMENT CONCRETE BASES SHOWN ARE TO ESTABLISH SCOPE OF WORK ONLY. CONTRACTOR SHALL COORDINATE WITH SHOP DRAWINGS
- 10. RAINWATER CISTERN NOT USED FOR POTABLE WATER.
- WHERE A WATER OUTLET IS SUPPLIED WITH RAINWATER BACKED UP BY A MAINS WATER SUPPLY FOR SEAMLESS TRANSITION, THE OUTLET MUST BE IDENTIFIED "RAINWATER"

CISTERN FILL TIME CALULATIONS

IA (ET/V)	9.02
VELOCITY (FPS)	11.0
WATERFLOW/GPSE	100
DURATION (HR)	22

EWATER CHITERN RESERVE PROVIDED HOW.):	THIS
MIS FIFE SIZE (M)	- 2
AliEA (FPD -	0.02
EU WELDCHY (FRIE	110
AND WATERFELDWY SPINE	1000

OFAL SPECIALONS
INTER REQUIREMENTS (OALCAYPER)
TOTAL DAILY WATER REQUIREMENTS (OALCAY)
COSTERN DURATION (DAVI) CTABLE WATER CIPTERN RESERVE REQUIRED (GAL)

STANOPIPE CLASS SELECTION	3
# OF STANDINES CALQULATED WATER FLOW/OPMI	100
WATER ILLOW REQUIRED (IPM)	500
WATER RESERVE REQUIRED FER STANDPIFE CALDULATION (UAL)	15.000
* T = CLASS / (Z) * DAME TERICONIE CTION	14,000
7+ CLASS F/ILC DAME TER COMPECTION	
3+ CLASS B/21 & T1* CAME TEN CONNECTIONS)	
FIRE PROTECTION SPRINKLER	
HAZARO CLASS SELECTION:	177
DENSTIY (OPWSF)	0.15
AREA OF STRUNGER OFFRATION (BF)	1500
WATER FLOW REQUIRED (FPM)	5479.
WATER RESERVE REQUIRED FER SPRING ER CALCULATION (GAL)	30.526
* 9+ TIO SPIRMOLERS*	
t> "KIGHT HAZARD"	
7+ "OFDINARY HAZARD I"	
3 JOHENHARK NATEMELE.	
FIRE PROTECTION REQUIREMENTS	
FIRE PROTECTION REQUIREMENTS	

Drawn by : J. Hernandez Checked by

JOSE LUIS MARRERO

DECEMBER 2022 No. Revision Date

IMPROVEMENTS & EXPANSION MUNICIPAL **COLISEUM ANGEL MERCADO VEGA Bo. PUEBLO**

SABANA GRANDE. **PUERTO RICO POTABLE WATER &**

FIRE PROTECTION

CISTERN DIAGRAMS

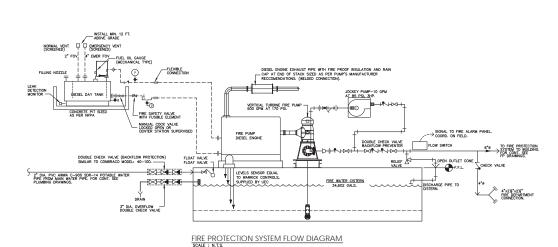
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File Name 20-061

Drawing Number

PL-106

Sheet Number



PLUMBING GENERAL NOTES:

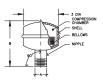
- ALL PLUMBING WORK SHALL BE IN STRICT ACCORDANCE WITH THE DEPARTMENT OF HEALTH OF P.R., THE LOCAL BUILDING CODE, THE NATIONAL PLUMBING CODE AND THE SPECIFICATIONS ISSUED FOR THIS PROJECT.
- 2. CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS THE PIPE DIAMETER UP TO 4".

- FOR FIXTURES AND/OR EQUIPMENT NOT LISTED IN THE SCHEDULE, SEE THE SPECIFICATIONS.
- 6. CLEANOUTS SHALL BE PLACED AS SHOWN ON DRAWINGS.
- THE CONTRACTOR SHALL VERIFY IN FIELD ALL INVERT ELEVATIONS AND SHALL MAKE ANY NECESSARY ADJUSTMENT AS REQUIRED BY FIELD CONDITIONS AND AS REQUIRED, TO OBTAIN THE PROPER SLOPES.
- 8. IT IS THE INTENTION OF THE DRAWINGS TO CALL FOR FINISHED WORK, COMPLETE, TESTED AND READY FOR OPERATION. MINOR DETAILS NOT SHOWN OR SPECIFIED, BUT INCESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE DONE BY THE CONTRACTOR.
- 9. BODERS SHALL WIST THE SITE AND ACQUAINT THEMSELVES WITH THE CONDITIONS AS THEY ACTUALLY DISTST AND VERSY DIMENSIONS, LOCATIONS AND DELIAS REQUESTED TO CAUGHT THE ROOKS, MIGHD MILL OF THE DOLY THE PROJECT AREA WILL IN NO MAY RELIEVE THE SUCCESSFUL BIODER OF PERHISHING AL MATERIAL AND PERFORMING ALL BOOK REQUIRED FOR THE COMPLETION OF THE CONTRACT. VISITS TO THE PROJECT AREA SHALL BE ARRANGED THROUGH THE OWNER.
- 11. THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT, AS NEEDED, TO PREVENT CONFLICT WITH WORK OF O'THER TRADES OR FOR PROPER EXECUTION OF THE WORK.

- 14. ALL UNDERGROUND COPPER PIPING SHALL BE TYPE "K"ASTM B-88, DIAMETER AS INDICATED.
- ALL COPPER PIPING ABOVE FINISH FLOOR ELEVATION SHALL BE TYPE "L"ASTM B-88, DIAMETER AS INDICATED.
- 16. ALL WASTE, SANITARY AND STORM DRAINAGE LINES SHALL BE PVC SCH.40.
- 17. ALL PIPING SHALL BE CONCEALED IN FLOOR TOPPINGS, WALL OR CHASES UNLESS OTHERWISE NOTED.
- 18. LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
- 19. CLEANOUTS SHALL NOT BE MORE THAN 100 FEET APART
- THE PLUMBING CONTRACTOR SHALL COORDINATE HIS/HER PORTION OF THE WORK WITH THE GENERAL CONTRACTOR AND SHALL PROVIDE SLEEVES AT SLABS OR BEAMS FOR PIPING LAYOUT AND FIXTURES INSTALLATION.
- 21. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS
- SIZES SHOWN IN FIXTURES SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY TO COMPLY WITH CODE REQUIREMENTS OR AS SHOWN ON DRAWINGS.

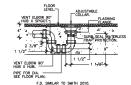
- GATE VALVES LOCATED UNDERGROUND OR BELOW FLOOR SLABS SHALL BE INSTALLED WITHIN A CAST IRON OR CONCRETE BOX WITH 9 X 9 J.R. SMITH ACCESS COVER FIG. 4915—U.
- . PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY ROUGHING-IN AND SHALL INSTALL THE PLUMBING FIXTURES INDICATED ON THESE DRAWINGS

- 33. ALL EXPOSED HOT WATER LINES SHALL BE INSULATED WITH 1-1/2" THICK MATERIAL WITH A THERMAL CONDUCTIVITY NOT TO EXCEED 0.22BTU PER SQ. INCH PER HOUR AT MEAN TEMPERATURE OF 75F

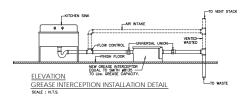


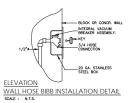
WAT	ER HAN	MER AR	REST	ER		
SYMBOL	J.R. SMITH MODEL	MAX. FIXTURE UNITS	DIMEN:	B	ACCESS DOOR, J.R. SMITH	ACCESS DOOR SIZE.
(A)	5005	1-11	3/4	4	FIG. 4735-NB-U	8" X 8"
(B)	5010	12-32	1	5	FIG. 4735-NB-U	10" X 10"
©	5020	33-60	1	6	FIG. 4735-NB-U	12" X 12"
(D)	5030	61-113	1	7	FIG. 4735-NB-U	15" X 15"

WATER HAMMER ARRESTER DETAIL

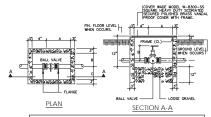


FLOOR DRAIN WITH TRAP PRIMER INSTALLATION DETAIL





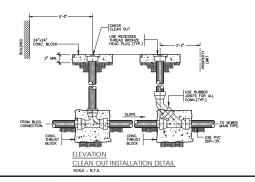
PLUN	MBING FIXTURE SH	EDULE							
DESIG-	DESCRIPTIONS	LOCATIONS	UNIT WASTE		WATER	SUPPLY	FIXT	URES	
NATION	DESCRIPTIONS	LOCATIONS	OR SOIL	SIZE	COLD	нот	COLD	нот	REMARKS
P-1	WATER CLOSET FLUSH VALVE	BATHROOM	3"	2"	1"	-	1"	-	SEE ARCH. DWGS. FOR SPECS.
P-1H	WATER CLOSET HANDICAPPED FLUSH VALVE	BATHROOM	3*	2"	1"	-	1*	-	SEE ARCH. DWGS. FOR SPECS.
P-2	LAVATORY	BATHROOM	1 1/2"	1 1/2"	1/2"	-	1/2*	-	SEE ARCH, DWGS, FOR SPECS.
P-2H	LAVATORY HANDICAPPED	BATHROOM	1 1/2*	1 1/2"	1/2"	-	1/2*	-	SEE ARCH. DWGS. FOR SPECS.
P-3	SHOWER	SHOWER ROOM	2*	1 1/2"	1/2"	1/2"	1/2*	1/2"	SEE ARCH, DWGS, FOR SPECS.
P-4	URINAL	BATHROOM	2*	2"	3/4*	-	3/4"	-	SEE ARCH. DWGS. FOR SPECS.
P-5	JANITOR SINK	JANITOR ROOM	3*	1 1/2"	1/2"	-	1/2*	-	SEE ARCH. DWGS. FOR SPECS.
P-6	KITCHEN SINK	SNACK BAR	2*	1 1/2"	1/2"	-	1/2*	-	SEE ARCH. DWGS. FOR SPECS.
P-7	WATER COOLER	LOBBY	1 1/2*	1 1/2"	1/2"	-	1/2*	-	SEE ARCH. DWGS. FOR SPECS.
P-8	SERVICE SINK	SNACK BAR	2*	1 1/2"	1/2"	-	1/2*	-	SEE ARCH. DWGS. FOR SPECS.
F.D1	FLOOR DRAIN	SEE PLUMBING DWGS.	2*	-	-	-	-	-	SMITH FIG. 2010-U-G W/TRAP PRIMER
F.D2	FLOOR DRAIN	SEE PLUMBING DWGS.	3"	-	-	-	-	-	SMITH FIG. 2210
F.C.O.	FLOOR CLEANOUT	SEE PLUMBING DWGS.	AS SHOWN	-	-	-	-	-	SMITH FIG. 4040-U
W.C.O.	WALL CLEANOUT	SEE PLUMBING DWGS.	AS SHOWN	-	-	-	-	-	SMITH FIG. 4472-U
G.C.O.	GROUND CLEANOUT	SEE PLUMBING DWGS.	AS SHOWN	-	-	-	-	-	EQUAL TO SMITH FIG. 4261-U IN 18"x18" CONC. PAD.

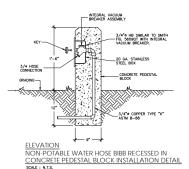


VALVE BOX SCHEDULE														
MARKED 3" 2 1/2" 2" 1 1/2" 1 1/4" 1" 3/4" 1/2"														
A 13" 13" 11" 11" 11" 8" 8" 8"														
B 6" 6" 5" 5" 5" 4" 4" 4"														
9"	9*	8"	8"	8"	6"	6*	6"							
ACCESS COVER SIZE AS REQUIRED														
	3" 13" 6"	3" 2 1/2" 13" 13" 6" 6" 9" 9"	VALVE 3" 2 1/2" 2" 13" 13" 11" 6" 6" 5" 9" 9" 8"	VALVE SIZE (II 3" 2 1/2" 2" 1 1/2" 13" 13" 11" 11" 6" 6" 5" 5" 5" 9" 9" 8" 8"	VALVE SIZE (IN INCHE 3" 2 1/2" 2" 1 1/2" 1 1/4" 13" 13" 11" 11" 11" 6" 6" 5" 5" 5" 5" 9" 9" 8" 8" 6" 6"	VALVE SIZE (IN INCHES) 3" 2 1/2" 2" 1 1/2" 1 1/4" 1" 13" 13" 11" 11" 11" 1" 6" 6" 5" 5" 5" 5" 4" 9" 9" 8" 8" 8" 8" 6"	VALVE SIZE (IN INCHES) 3" 2 1/2" 2" 1 1/2" 1 1/4" 1 3/4" 13" 13" 11" 11" 11" 6" 8" 6" 6" 5" 5" 5" 5" 4" 4" 9" 9" 8" 8" 8" 6" 6" 6"							

TO NIBCO MODEL 595-Y-66. FOR 3" VALVE USE NIBCO MODEL 590-Y-66 OR APPROVED EQUAL. VALVE BOX DETAIL

SCALE : N.T.S.







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Drawn by : J. Hernandez Checked by

JOSE LUIS MARRERO

DECEMBER 2022

IMPROVEMENTS & EXPANSION MUNICIPAL COLISEUM **ANGEL MERCADO VEGA Bo, PUEBLO** SABANA GRANDE.

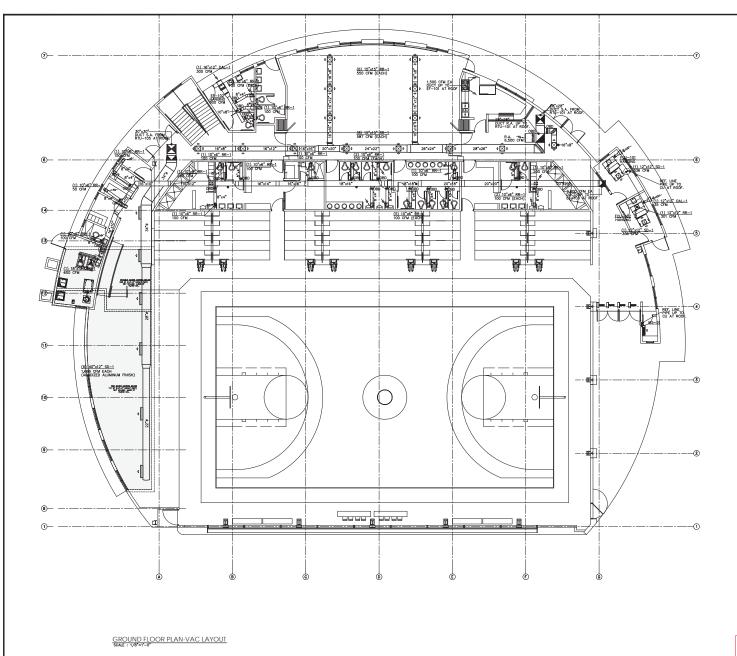
PLUMBING DETAILS, NOTES & SCHEDULES

PUERTO RICO

Scale 1/8"=1'-0"

File Name 20-061

Drawing Numbe PL-200



ABBREVIATIONS:

CFM CUBIC FEET PER MINUTE

SUPPLY AIR RETURN AIR

O.A. OUTSIDE AIR PCU PACKAGE UNIT

SUPPLY DIFFUSER RETURN REGISTER

OAL OUTSIDE AIR LOUVER

OAL OUTSIDE AIR LOUVER
LCM LOCAL CONTROL MODULE
GGM GENERAL CONTROL MODULE
TYP. TYPICAL
FCU FAN COIL UNIT
DWG DRAWING
FLEX, FLEXIBLE

CONN. CONNECTION

OPPOSED BLADE DAMPER

TEMPERATURE CONTROL TEMPERATURE SENSOR

EXISTING RETURN REGISTER

CONC. CONCRETE
(TYP.) TYPICAL
SO SMOKE DETECTOR
DFD DUCT FIRE DAMPER
PTAC PACKAGED TERMINAL AIR CONDITION

MC WASTER CONTROL TEMPERATURE CONTROLLER POINT OF CONNECTION FD FIRE DAMPER

008136,

Drawn by : J. Hernandez

9

Checked by JOSE LUIS MARRERO

DECEMBER 2022

No. Revision Date

IMPROVEMENTS & EXPANSION MUNICIPAL

COLISEUM **ANGEL MERCADO** VEGA Bo. PUEBLO SABANA GRANDE.

PUERTO RICO GROUND FLOOR PLAN-**VAC LAYOUT**



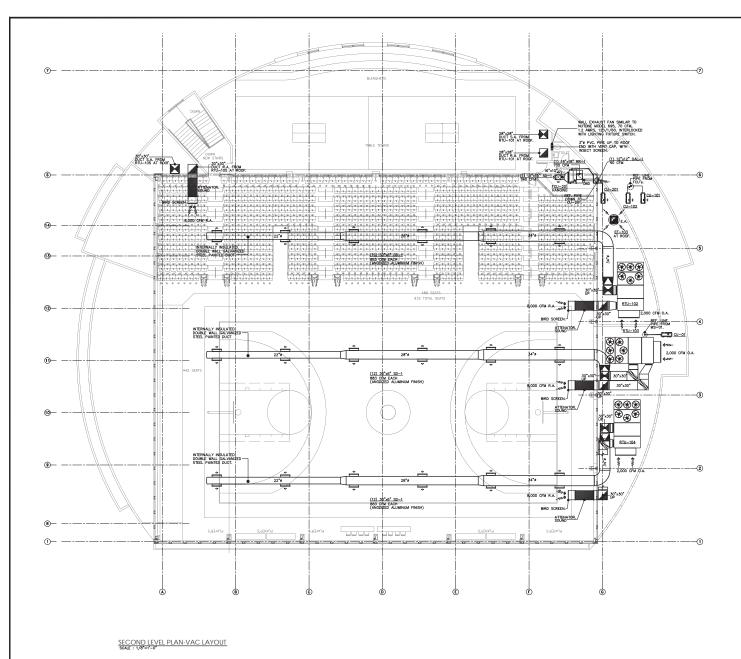
Scale 1/8"=1'-0"

File Name 20-061

Drawing Numbe

VAC-100

Sheet Number



ABBREVIATIONS:

CFM CUBIC FEET PER MINUTE SUPPLY AIR RETURN AIR

O.A. OUTSIDE AIR PCU PACKAGE UNIT SUPPLY DIFFUSER

RETURN REGISTER OAL OUTSIDE AIR LOUVER LCM LOCAL CONTROL MODULE
GCM GENERAL CONTROL MODULE
TYP. TYPICAL

GCM GENERAL CONTR
TYP. TYPICAL
FCU FAN COIL UNIT
DWG DRAWING
FLEX, FLEXIBLE

CONN. CONNECTION

TEMPERATURE CONTROL TEMPERATURE SENSOR

EXISTING RETURN REGISTER NECK

CONCRETE

TYPICAL
SMOKE DETECTOR
DUCT FIRE DAMPER

PTAC PACKAGED TERMINAL AIR CONDITION MC WASTER CONTROL TEMPERATURE CONTROLLER

POINT OF CONNECTION FD FIRE DAMPER

9

Drawn by : J. Hernandez Checked by

008136,

JOSE LUIS MARRERO

DECEMBER 2022

No. Revision Date

IMPROVEMENTS & EXPANSION MUNICIPAL COLISEUM

ANGEL MERCADO VEGA Bo, PUEBLO SABANA GRANDE.

PUERTO RICO SECONS LEVEL PLAN-**VAC LAYOUT**

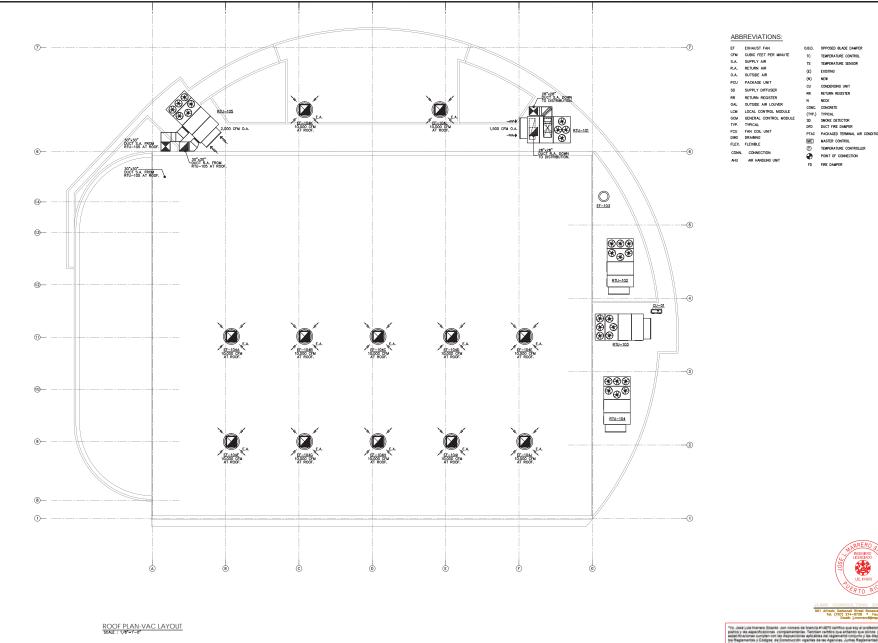


Scale 1/8"=1'-0"

File Name 20-061

Drawing Numbe VAC-101

Sheet Number



CONC. CONCRETE
(TYP.) TYPICAL
SD SMOKE DETECTOR
DFD DUCT FIRE DAMPER

MASTER CONTROL TEMPERATURE CONTROLLE

> BOX 0

> > Drawn by : J. Hernandez Checked by JOSE LUIS MARRERO

Date DECEMBER 2022

No. Revision Date

008136,

IMPROVEMENTS & EXPANSION MUNICIPAL COLISEUM

ANGEL MERCADO VEGA **Bo. PUEBLO** SABANA GRANDE,

PUERTO RICO ROOF PLAN-VAC LAYOUT

VAC-102

Sheet Number

Scale 1/8"=1'-0" File Name 20-061 Drawing Number

VAC NOTES:

GENERAL:

- BOLERS SHALL VIST THE BUILDING AND ACQUAINT THEMSELVES WITH THE CONDITIONS AS THE'S ACTUAL." DEST AND VERRY DIMENSIONS, LOCATIONS AND DETAILS REQUERY DEPOSITIONS AND DETAILS RECORDED THE SUCCESSEUL BEDDER OF FURNISHING ALL MATERIAL AND PERFORMING ALL WORK REQUIRED FOR THE COMPLETION OF THE CONTRACT. VISIT TO THE PROJECT AREA SHALL BE ARRANGED THROUGH THE BUILDING MANAGER.
- CONTRACTOR SHALL PROVIDE SUITABLE VIBRATION ISOLATION FOR THE SYSTEM AS RECOMMENDED BY MANUFACTURER OF EQUIPMENT SPECIFIED OR PROVIDED.
- CONTRACTOR SHALL FURNISH AND INSTALL PIPING VALVES, SENSORS, CONTROL SYSTEMS AND ANY OTHER ITEM REQUIRED FOR THE FUNCTIONING AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE DONE BY THE CONTRACTOR.
- IT IS THE INTENTION OF THE DRAWINGS TO CALL FOR FINISHED WORK, COMPLETE, TESTED AND READY FOR OPERATION, IMMOR DETAILS NOT SHOWN OR SPECIFED, BUT NECESSARY FOR THE PROCEPT INSTALLATION AND FOR FILINGTONING AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE DONE BY THE CONTRACTOR.
- CONTRACTOR SHALL PAINT ALL PIPING, PIPE INSULATION, FITTINGS, VALVES AND ALL EQUIPMENT TO BE INSTALLED.
- THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE DUCT AND PIPING ARRANGEMENTS AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.
- ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED WITH THE APPROVAL OF THE OWNER IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND THE SPECIFICATIONS ISSUED FOR THIS PROJECT.
- CONTRACTOR SHALL LOCATE IN FULLY ACCESSIBLE POSITIONS ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED. CONTRACTOR IS RESPONSIBLE OF COMPLY WITH EACH EQUIPMENT MANUFACTURER RECOMMENDED CLEARANCE.
- IN CASE OF DISCREPANCY BETWEEN THE EQUIPMENT SPECIFIED AND THE EQUIPMENT SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL ARRANGE FOR THE PROPER INSTALLATION OF THE EQUIPMENT.
- CONTRACTOR SHALL FURNISH AND INSTALL AIR CONDITIONING EQUIPMENT, DUCTS, INSULATION, PIPING VALVES, SENSORS, CONTROL SYSTEMS AND ANY OTHER ITEM REQUIRED FOR THE PROPER FUNCTIONING AND OPERATION OF THE SYSTEM
- MECHANICAL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.

- TO ALL WECHANICAL EQUIPMENT.

 ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND GEDMANICS. IN CASE OF CONFLICT BETWEEN THE DRAWNING-SPECIFICATIONS AND THE CODES AND GEDMANICS. THE HIGHEST STANDARD SHALL APPLY. THE MECHANICAL CONTRACTOR SHALL SATISTY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA CODE.
- THE MECHANICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE MECHANICAL WORK.
- THE SAME INSPECTIONS RECESSION TO COMPALE THE MECHANICAL WORK.

 THE MECHANICAL CONTRACTOR BALL UNCONDITIONALLY WARRANT ALL WORK
 TO BE FREE OF DETECTION WAS REPORTED AND WARRANT ALL WORK OF ONE
 OF REPORT OF DETECTION WAS REPORTED AND WARRANT OF A PERIOD OF ONE
 RESTORMAND OF DETECTION WAS REPORTED AND WARRANT OF HARMAND
 RESTORMAND OF DETECTION WAS REPORTED AND THE COURSE OF REPARAMEN
 RESTORMAND AND THE PROPERTY AND THE PROPERTY AND WARRANT OF THE MECHANICAL CONTRACTOR BALL CORDINATE CONTRACTOR SAME PRETENTATION WORKS
 WITH OWNER, STRUCTURAL ENGINEER AND ARROTHERUTARL DRAWNOS SEAL PEDIETRATIONS
 AND PROVIDE TREE DAMPIES AS REQUIRED.
- 18. ALL MATERIA, AND SPECIALTIES REQUIRED FOR THIS NORK SHALL BE NEW (INJECT CHERNISE NOCIATED), OF PRIST-CLASS QUALITY AND SHALL BE FUNDWISHED, DELEYED, DECETED, NO TO THE PROPERTY HITD THE BUILDING SPACES, DUBBING STOKAGE ON THE JAB STATE OF CONSTRUCTION, THE CONTRACTOR SHALL KEEP PIPE ENDS PLUGGED OR CAPPED TO PREVENT DIRTOR MODIFIED ENDIFFE ENDES.
- 19. ROOF "R" VALUE SHALL BE A MINIMUM OF 15.0 HR-SF-T/BTU.

INSULATION:

- ALL INSULATION REQUESTS FOR THE WORK SHALL SET NEW OF THE FIRST CLASS COULTY
 AND INSULATION REPORTS DUCKING THE GENERAL SET REPORTS AND REPORT OF THE FIRST AND REPORT OF THE FIRST OF TH
- EXPOSED AIR DUCT INSULATION SHALL BE 2" THICK JOHNS-MANNILLE NO. 817 (6 1bs/ft*) RIGID FIBERGLASS DUCT INSULATION WITH A FACTORY APPUED FOLL-SCRIM-KRAFT (FSK) VAPOR BARRIER FACINS, COVER ALL INSULATION WITH GLASS FARIOR WESH USING FOSTER SEALFSA MASTIC, INSULATION SHALL HAVE A "K" FACTOR—0.22 Btu-ins/fr-c"F © 75T-
- CONCEALED ARI DUCT INSULATION SHALL BE 1 1/2" THICK JOHNS-MANVILLE R-SERIES MICROLITE FIBER GLASS BLANKET WITH A FACTORY APPLIED FOLL-SCRIM-FRAFT (FSK) VARDIR BARRIPRE FACTOR INSULATION SHALL HAVE 1 12" FACTOR—0 AT BRIDE MOVE 10 75 F
- CHILLED WATER PIPING INSULATION MATERIAL SHALL BE PRE-FORM PHENOLIC FOAM PIPE INSULATION USE AN ALUMINUM JACKET SECURELY ATTACHED IN ALL WEATHER EXPOSED PIPE RUNS AND FITTINGS.
- AFTER THE INSTALLATION OF PIPING AND BEFORE APPLYING THE INSULATION, THE CONTRACTOR MUST CLEAN ALL PIPING THOROUGHLY AND APPLY TWO COATS OF ANTI CORROSIVE PAINT AS MANUFACTURED BY PORTER \$7100.
- INDOOR DUCTS HANDLING OUTDOOR AIR INSULATION MATERIAL: SAME AS EXPOSED AIR DUCTS INSULATION SHALL NOT BE APPLIED UNTIL ALL SURFACES ARE CLEAN AND DRY.
- ALL MATERIAL USED FOR DUCTWORK INSULATION SHALL HAVE A FLAME SPREAD INDEX NOT EXCEEDING 25 SMOKE DEVELOPED AND FUEL CONTRIBUTED NOT TO EXCEED 50 WHEN MEASURED AS DETERMINE BY ASTM E-162.
- MEASURED AS DETERMINE BY ASIM E-162.

 INSULATION SHALL BE FURNISHED WITH A FACTORY APPLIED FSK VAPOR BARRIER FACING AND SHALL HAVE AN AVERAGE THERMAL CONDUCTIVITY NOT TO EXCEED 0.25 BTU-IN/SQ.FT.- F.
- 9. PROVIDE INTERNAL ACOUSTICAL LINING TO ALL FCU'S FASCIAS.

AIR DISTRIBUTION:

- DUCT MATERIAL SHALL BE GALVANIZED SHEET METAL, AND MANUFACTURED AND INSTALLED IN ACCORDANCE WITH LATEST EDITION OF THE DUCT CONSTRUCTION STANDARDS OF SMACANA FOR THE APPLICABLE PRESSURE CLASS.
- STANDARDS OF SMICHA FOR THE APPLICABLE PRESSARE CLASS.

 DOUT WORKMANDER ALL DUCTIONS SMILL BE CONTRICTED AND EFFECTED IN A MODRAMANCE MANNER. DUTTS SMILL BE STRAIGHT AND SMOOTH ON THE A MODRAMANCE MANNER. DUTTS SMILL BE STRAIGHT AND SMOOTH ON THE PROPERTY OF THE SMILL BE WALL CONTINNS OF POPERTIAINS. THE INTERNAL DOES OF SMILL BE WALL CONTINNS OF POPERTIAINS. THE INTERNAL DOES OF SMILL BE WALL CONTINNS OF POPERTIAINS. THE MANNERS AND SMILL BE WALL SMILL BE PRANNED LASTS OF THE MANNERS AND SMILL BE SMILL BE AND ALL ARRIVED THE SMILL BE AND CONTINUED AND SMILL BE SMILL BE AND SMILL B
- INSTALLATION OF DUCTS SHALL BE BY MEANS OF ANGULAR TRAFEZE AND ROD ACCORDING TO "SMALOM" RECOMMENDATIONS. IF STRAP ARE USED WITH DUCTHOOK LESS THAN 24" MICE IT SHALL BE ATTACHED TO THE DUCT OF THIS DISELT-PHONE SCIENCE, INLESSES AND STRAPS SHALL BE ATTACHED TO THE BEAM BY EDAMASION SPELLED OR BY OUR NAILS. SCIENCE, HANGERS AND STRAPS SHALL BE ATTACHED TO THE BEAM BY EDAMASION SHELLS OR BY CUN MALS.
- 3. ALL CONCEALED DUCTWORK AND PLENUMS ABOVE THE SECOND FLOOR CEILINGS SHALL BE INSULATED.
- ALL DUCT WORK EQUIPMENT AND PIPING SHALL BE PROVIDED WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH U.B.C.—1997 & N.F.P.A. STANDARDS.
- 5. ALL SHETIMETAL DUCTWORK SEAMS & JOINTS MUST BE SPALED WITH HIGH PRESSURE DUCT SEALER AS MANUFACTURED BY WINNESOTA MINNES & MANUFACTURING CO. MODEL EC-800 OR APPROVED EQUAL. AR LEAKS MUST BE 5% OR LESS, TEST DUCTWORK BEFORE FINAL CORNECTION TO AUTUS & AR DISTRIBUTION.
- 6. FOR EXACT LOCATION OF CEILING DIFFUSERS REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
- THE CONTRACTOR MUST FURNISHED & INSTALL U.L. APPROVED FIRE DAMPER WITH 10 CAUGE METAL SLEVE AND DUT ACCESS DOOR WHERE SHOWN ON DRAWNIGS, AS REQUIRED BY N.F.P.A. FIRE DAMPERS SHALL BE CURTAIN TYPE AS MANUFACTURED BY KINSKIN MODEL 1002 STYLE C OR APPROVED EQUAL.
- 8. PROVIDE SMOKE DETECTORS AS PER N.F.P.A. 90A.
- EXPOSED SUPPLY & RETURN DUCTS SERVING SOUND SENSITIVE AREAS SHALL BE DOUBLE WALL, PAINTED AND INTERNALLY INSULATED.
- 10. ALL EXPOSED DUCTWORK SHALL BE PAINTED AS PER ARCHITECT'S COLOR CODING.
- CONTRACTOR SHALL BE RESPONSIBLE OF SUBMIT DUCTWORK SHOP DWG, FOR APPROVAL NO CHANGE ORDER WILL BE ALLOWED FOR DUCTS MODIFICATIONS RESULTING FROM NON-COORDINATED SHOP DRAWINGS.
- 12. CONNECTION FROM DUCT TO A/C UNIT SHALL BE MADE WITH A CANVAS CONNECTION.
 CANVAS CONNECTION SHALL BE NECEPREN-COATED CLASS HABIC AS MANUFACTURED
 FRAMES SEQUELY FASTENED TO DUCTS AND EQUIPMENT WITH ACCESSIVES TO
 PREVENT COLLAPSING AT 10 ING OF NEGATIVE PRESSURE. LONNAS CONNECTION SHALL
 BE ART BRIGHT VOIL LEAKAGE OR WITHITATION AT INDICATED PRESSURE CLASS.
- 13. PLENUM SUPPLY AND RETURN AREA SHALL COMPLY WITH NFPA-90A
- CONTRACTOR SHALL BE RESPONSIBLE OF RETURN AIR PLENUM SEGREGATION AND PROVIDE REQUIRED AIR PASSAGES FOR PROPER A/C SYSTEM FUNCTIONING.
- 15. ALL OUTSIDE AIR INTAKES SHALL BE PROVIDED WITH A 35% EFF. DISPOSABLE FILTERS.
- PROWDE 1" THICK INTERNAL ACQUISTICAL LINING TO FIRST 10"-0" OF SUPPLY & RETURN DUCTWORK. SIMILAR TO SCHULLER PERMACOUSTICS.
- COORDINATE DUCT ROUTE WITH SPRINKLERS AND ALL OTHER TRADES, RE-ROUTE AS REQUIRED AT NO EXTRA COST TO THE OWNER.
- 18. GRILLES AND DIFFUSERS SHALL BE AS MANUFACTURE BY "METAL"AIRE", "BARBER COLMAN", "TUTTLE & BALLEY", "ANEMOSTAT" OR "ITTUS", EACH IS TO BE FITTED BY AN AIR STREIGHTENER AND VOLUME DAMPER.
- 19. ALL DUCT DIMENSIONS SHOWN ARE NET INTERNAL.

- ALL AIR CONDITIONING EQUIPMENT SHALL BE INSTALLED IN A WORKMANLIKE MANNER MEETING THE ACCEPTED STANDARDS OF THE AIR CONDITIONING INDUSTRY. THE WORK SHALL BE DONE BY SKILLED A/C CRAFTSMEN. MAINTENANCE AND SERVICE CLEARANCES SHALL BE MAINTAIN TO EACH MECHANICAL EQUIPMENT AS PER MANUFACTURERS RECOMMENDATIONS.
- MECHANICAL EQUIPMENT AT ROOF SHALL BE ANCHORED TO WITHSTAND HURRICANE FORCE WINDS AS PER APPLICABLE CODES.
- AS PER APPLICABLE CODES.

 4. PROVIDE CORROSION PROTECTION TO ALL WEATHER EXPOSED MECH.

 EQUIPMENT BY MEANS OF FIELD APPLIED PRODUCT. SUBMITT FOR APPROVAL 5. EQUIPMENT START-UP SHALL BE PERFORMED BY EQUIPMENT MANUFACTURER.
- ALL EQUIPMENT OFFERED UNDER THESE SPECIFICATIONS SHALL BE LIMITED TO PRODUCTS REGULARLY PRODUCED AND RECOMMENDED FOR SERMICE, IN ACCORDANCE WITH ENGINEERING DATA, RATINGS, OR OTHER COMPREHENSIVE LITERATURE MADE AVAILABLE TO THE PUBLIC AND IN SPECIFIC AT THE TIME OF OPENING OF RIDS.
- EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE OF MANUFACTURE'S INSTRUCTIONS FOR TYPE AND CAPACITY OF EACH PIECE OF EQUIPMENT USE. COORDINATE MECHANICAL EQUIPMENT CONCRETE PADS WITH FINAL FOLIPMENT ARRAGEMENT.
- CONTRACTOR SHALL BE RESPONSIBLE OF VERIFY ELECTRICAL CONNECTION AT FIELD PRIOR TO EQUIPMENT PURCHASE.

BALANCING:

- THE CYN. COURT PROVINCES OF THE SECRET PROVINCES OF THE COURT PROVINCES OF THE BALANCE EPOPORT OF THE COURT PROVINCES OF THE COURT PROVINCES OF THE BALANCE EPOPORT OF THE COURT PROVINCES OF THE COURT PROVINCES OF THE BALANCE EPOPORT OF THE COURT PROVINCES OF THE COURT PROVINCES OF THE BALANCE EPOPORT OF THE COURT PROVINCES OF THE COURT PROVINCES OF THE BALANCE EPOPORT OF THE COURT PROVINCES OF THE COURT PROVINCES OF THE BALANCE EPOPORT OF THE COURT PROVINCES OF THE COURT PROVINCES OF THE BALANCE EPOPORT OF THE COURT PROVINCES OF THE COURT PROVINCES OF THE BALANCE EPOPORT OF THE COURT PROVINCES OF THE COURT PROVIN
- PRESSURIZATION LEAKAGE AND INFILTRATION TEST SHALL BE PERFORMED PER SMACNA STANDARDS AND TECHNICAL SPECIFICATIONS.
- 4. THE JUR DISTRIBUTION SYSTEM AND DEVICES SHALL BE BRAINCED FOR PROPER ARE FLOW. TEST DATA OF THE BRAINCHOOK OF THE SYSTEMS SHALL BE SUBMIT TO THE ARCHITECT FOR REVIEW. ALL ARE QUANTITIES SHALL BE SET TO WITHIN 10X OF THE LISTED QUANTITIES. DEFLECTION YAMES SHALL BE SET TO DELINIARY EAVY EXCESSIVE AN BOVGMENT IN THE AREA.
- 5. THE AIR SIDE BALANCING SHALL INCLUDE:
 - RECORD MOTOR FULL LOAD AMPS AND ACTUAL OPERATING AMPERAGE.
 - 2. RECORD SUPPLY, RETURN AND OUTSIDE AIR TEMPERATURES.
 3. MAKE PITOT TUBE TRAVERSE OF MAIN SUPPLY DUCT AND OBTAIN DESIGN CFM AT FAN AND FAN RPM. RECORD SYSTEM STATIC PRESSURES RETURN AND DISCHARGE 5. FIVE (5) COPIES OF BALANCING REPORTS CONTAINING THE DATA MENTIONED ABOVE AND SHALL BE GIVEN TO THE OWNER'S REPRESENTATIVE.
- 6. BALANCING WORK SHALL FULLY COMPLY WITH A.A.B.C. OR N.E.B.B.

REFRIGERANT PIPING:

- REFRIGERANT PIPING MATERIAL: SHALL BE TYPE "K" COPPER TUBING, HARD DRAWN WITH WROUGHT COPPER SOLDER TYPE FITTINGS SUITABLE FOR CONNECTION WITH SILVER SOLDER.
- REFRIGERANT PIPING INSULATION MATERIAL: SHALL BE CLOSED CELL ELASROMETRIC 1/2" THICK ALL PIPE SIZES, K=0.25 @ 75F, PROTECT INSULATION FROM SOLAR UV RADIATION.
- GLOBE VALVE: SHALL BE CONSTRUCTED OF FORGED BRASS AND SHALL BE OF THE BACKSEATING TYPE SUITABLE FOR 500 PSI.
- 4. CHECK VALVES: SHALL BE CONSTRUCTED OF FORGED BRASS SUITABLE FOR 500 PSI.
- 5. SOLENOID VALVES: SHALL BE CONSTRUCTED OF FORGED BRASS SUITABLE FOR 400 PSI.
- REFRIGERANT STRAINERS: SHALL BE CONSTRUCTED OF FORGED BRASS SUITABLE FOR 350 PSI.
 PROVIDE 100 MESH STRAINER.
- MOISTURE INDICATOR: SHALL BE CONSTRUCTED OF FORGED BRASS WITH OPTICAL GLASS SUITABLE FOR 500 PSI.
- 8. FILTER DRAINS: SHALL BE CONSTRUCTED OF STEEL WITH STEEL COVER REPLACEABLE FILTER DRIER COVER.
- 9. ALL ELBOWS SHALL BE OF THE LONG RADIUS TYPE.
- 10. CONTRACTOR SHALL BE RESPONSIBLE OF SUBUIT REFRIGERANT LINE SHOP DWG. FOR APPROVAL NO CHANGE ORDER WILL BE ALLOWED FOR A/C SYSTEMS MODIFICATIONS RESULTING FROM NON-CORDINATED SHOP DRAWNOS.
- 11. REFRIGERANT LINE SIZING SHALL BE DONE BY EQUIPMENT MANUFACTURER.

AUTOMATIC CONTROL SYSTEM:

- 1. ALL CONTROLLERS SHALL BE FLUSH MOUNTED. ELECTRICAL CONDUITS SHALL RUN INSIDE WALLS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CONDUITS AND WIRING FOR THE POWER OF THE LCM FROM THE NEAREST POWER SOURCE.
- ALL VERTICAL CONTROL CONDUITS MUST RUN CONCEALED INSIDE WALLS AND HORIZONTAL CONTROL IN THE PLENUM BETWEEN REFLECTED CEILING AND BOTTOM OF STRUCTURAL SLAB.
- ROOM CONDITIONS ARE: 74.0 ± 27 db 0 55 ± 5% RH FOR ALL AREAS. COORDINATE LOCATION
 OF TEMPERATURE CONTROLLERS AT FIELD WITH OWNER.
- 5 DROVIDE VANDAL BROOF COVER FOR ALL TEMPERATURE CONTROLLERS 6. PLASTIC PIPING IS NOT ALLOWED IN RETURN PLENUM AREAS.
- ALL MOTORS SHALL BE PROMDED WITH ITS REQUIRED STARTERS FOR THE PROPER ELECTRICAL CONNECTION OF THE EQUIPMENT. COORDINATE WITH ELECTRICAL CONSULTANT.

CONDENSATE DRAIN:

- 1. COOLING COIL CONDENSATE DRIP PIPING MATERIAL: SHALL BE EXTERIOR INSULATED SCH.40PVC.
- COOLING COIL CONDENSATE DRIP PIPING MATERIAL RUNNING IN RETURN AIR PLENUMS SHALL BE TYPE "M" COPPER.
- CONDENSATE DRAIN PIPING INSULATION MATERIAL: SHALL BE CLOSED CELL ELASTOMERIC 3/4" THICK ALL PIPE SIZES. K=0.25 © 75°F.
- CONTRACTOR SHALL PROVIDE INDIRECTLY CONNECTED CONDENSATE DRAIN TO A/C UNITS. COORDINATE WITH PLUMBING DRAWNOS.
- 5. PROVIDE CONDENSATE DRAIN PUMP FOR A/C EQUIPMENT IF REQUIRED PIPE SLOPE IS NOT ATTAINED. CONTRACTOR SHALL BE RESPONSIBLE OF CONNECT 1" INSULATED PVC PIPE FOR EQUIPMENT CONDENSATE DRAIN AND CONNECT TO SANITARY SEWER SYSTEM.

ABBREVIATIONS:

FLEX. FLEXIBLE

EF EXHAUST FAN O.B.D. OPPOSED BLADE DAMPER CFM CUBIC FEET PER MINUTE TC TEMPERATURE CONTROL S.A. SUPPLY AIR TEMPERATURE SENSOR R.A. RETURN AIR (E) EXISTING O.A. OUTSIDE AIR NEW (N) PCU PACKAGE UNIT CONDENSING UNIT SUPPLY DIFFUSER SD RETURN REGISTER RETURN REGISTER NECK OAL OUTSIDE AIR LOUVER CONCRETE LCM LOCAL CONTROL MODULE

GCM GENERAL CONTROL MODULE SMOKE DETECTOR TYPICAL DUCT FIRE DAMPER FCU FAN COIL UNIT PTAC PACKAGED TERMINAL AIR CONDITIONERS MC WASTER CONTROL

(TYP.) TYPICAL

(T) TEMPERATURE CONTROLLER

CONN. CONNECTION POINT OF CONNECTION FD FIRE DAMPER

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Drawn by : J. Hernandez

Checked by JOSE LUIS MARRERO

DECEMBER 2022

No. Revision Date

IMPROVEMENTS & EXPANSION MUNICIPAL **COLISEUM ANGEL MERCADO VEGA Bo, PUEBLO**



SABANA GRANDE.

PUERTO RICO



501 Alfredo Carbonell Street Rossevelt, Hato Rey, PR 009 Tel. (787) 274-8728 * Fex. (787) 772-9121 Emell: Lmorrero@limps.com

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Sheet Number 60

PACKAGED ROOF TOP UNIT SCHEDULE

	AREA SERVED	UNIT LO	VD (MBH)	TOTAL	OUTSIDE	ELECTRI	CAL DA	ATA.	COME	PRESSOR	t (e.a.)	WEIGHT	REFR.	EFF.	MODEL NO.	MANUFACTURER	REMARKS
UNIT. No.	AREA SERVED	TOTAL	SENS.	(CFM)	(CFM)	V-PH-HZ	MCA	MOCP	QTY.	RLA	LRA	(LBS.)	REFR.	(IEER)	MODEL NO.	MANUFACTURER	REMARKS
RTU-101	AEROBIC GYM	236.0	188.8	8.000	1,500	208/3/60	102.6	125	1	30.1	225	2,148	R-410	14.0	50HC-E24C1D5-	CARRIER	CP.D.E.PH.H.S
110 101	ALKODIO OTM	200.0	100.0	0,000	1,000	200/0/00	102.0	120	1	30.1	225	2,140	10 410	14.0	0A2G0	ONITION	01 ,0,0,0
RTU-102	COLISEO	282.0	225.6	10,000	2,000	208/3/60	151.6	175	1	48.1	245	2,193	R-410	14.0	50HC-E28C1D5-	CARRIER	CP.D.E.PH.H.S
K10-102	COLISEO	202.0	225.6	10,000	2,000	200/3/00	151.6	1/5	1	33.3	239	2,193	K-410	14.0	0A2G0	CARRIER	CP,D,E,PH,H,S
RTU-103	COLISEO	282.0	225.6	10.000	2,000	208/3/60	151.6	175	1	48.1	245	2,193	R-410	14.0	50HC-E28C1D5-	CARRIER	CP,D,E,PH,H,S
K10=103	COLISEO	202.0	225.6	10,000	2,000	208/3/60	151.6	1/5	1	33.3	239	2,193	K-410	14.0	0A2G0	CARRIER	CP,D,E,PH,H,S
RTU-104	COLISEO	282.0	225.6	10.000	2.000	208/3/60	151.6	175	1	48.1	245	2,193	R-410	14.0	50HC-E28C1D5-	CARRIER	CP.D.E.PH.H.S
K10-104	COLISEO	262.0	225.6	10,000	2,000	208/3/60	151.6	1/5	1	33.3	239	2,193	K-410	14.0	0A2G0	CARRIER	CP,D,E,PH,H,S
RTU-105	COLISEO	282.0	225,6	10,000	2,000	208/3/60	151.6	175	1	48.1	245	2,193	R-410	14.0	50HC-E28C1D5-	CARRIER	CP.D.E.PH.H.S
K10-105	COLISEO	202.0	225.6	10,000	2,000	200/3/00	151.6	1/5	1	33.3	239	2,193	R-410	14.0	0A2G0	CARRIER	CP,D,E,PH,H,S

C(CP), E-COATED AL/CU. (D) 254mm UVC LIGHT (FIELD INSTALLED). (E). ELECTRICAL CONVENIENCE DUTLET 115V GFL. (PH). PHASE MONITOR. (H). HUMIDI-MIZER (ADAPTIVE DEHUMIDIFICATION SYSTEM).
(S). 2-SPEED INDOOR FAN (VFD).

NOTE: CONTRACTOR SHALL BE RESPONSIBLE OF VERIFY ELECTRICAL CONNECTION AT FIELD PRIOR TO EQUIPMENT PURCHASE.

EXHAUST & MAKEUP FAN SCHEDULE

TAG. NO.	LOCATION	TYPE	DRIVE	CFM	S.P. IN W.G.	H.P.	ELECT.	MODEL NO.	MANUFACTURER	CONTROLLED WITH	ROOF/WALL OPENING	REMARKS
EF-101	ROOF	CENT.	BELT	1,500	1.5	1.0	208/1/60	165ACWB-HP	COOK	TIMER	20"×20"	B, V, S
EF-102	CEILING	CENT.	BELT	300	2.0	0.75	115/1/60	120CIC	COOK	TIMER	-	B, S
EF-103	ROOF	CENT.	BELT	3,000	0.5	0.75	208/1/60	180 ACEB	COOK	TIMER	26"×26"	B, S.
EF-104A @ 104L	ROOF	CENT.	BELT	10,000	0.25	3	208/1/60	300 ACEB	COOK	TIMER	31½"x31½"	B, S.

E (B), GRAVITY BACKORAFT DAMPER. (E). EPOXY PAINT PROTECTION. (SP). SPEED CONTROL (G). GREASE TROUGH. (V). VENTED EXTENSION. (S). STARTER (T). 24/7 PROGREMMABLE TIME CLOCK LOCATED NEXT TO ELECTRICAL PANEL. (PL). PILOT LIGHT SWITCH LOCATED INSIDE ROOM. (F). FIBER GLASS CONSTRUCTION.

NOTE: 1) CONTRACTOR SHALL BE RESPONSIBLE OF VERIFY ELECTRICAL CONNECTION AT FIELD PRIOR TO EQUIPMENT PURCHASE.

2) PROVIDE START/STOP SWITCH FOR FAN OPERATION. COORDINATE LOCATION AT FIELD.

VRF INDOOR (FCU) UNITS SCHEDULES

		AREA SERVED	UNIT LOAD (MBH) TO		TOTAL	OUTSIDE	ELECTRICAL DATA			FAN MOTOR		REFR. MANUFACTURER		REMARKS
17	TAG. NO.	AREA SERVED	TOTAL	SENS.	(CFM)	(CFM)	VOLTS/PH/HZ	MCA	MFA	KW	FLA	REFR.	MODEL	REMARKS
	FCU-101	OFFICE	12.0	9.6	335	35	208/1/60	0.8	15	0.050	0.6	R-410A	DAIKIN FXSQ32	F1,S,R1,BV.
	FCU-102	FIRST AIDS	12.0	9.6	335	35	208/1/60	0.8	15	0.050	0.6	R-410A	DAIKIN FXSQ32	F1,S,R1,BV.
	FCU-201	TRANSMISSION ROOM	24.0	19.2	740	40	208/1/60	1.4	15	0.125	1.1	R-410A	DAIKIN	F1,S,R1,BV.

(F0). FILTER FRAME WITH 35% EFF.
(F1). LONG LIFE REPLACEMENT FILTER 50%.
(F2). HIGH EFFICIENCY FILTER 65%.
(F3). HIGH EFFICIENCY FILTER 90%. (S). SET THE EXTERNAL STATIC PRESSURE TO "HIGH STATIC PRESSURE".
(C). PAINTED, COLOR BY ARCHITECT.
(P). DRAN PUMP KIT.
(R1). REMOTE CONTROLLER WRED.
(H). ARR SUCTION CANNAS W/ HALF PANEL.
(R2). REMOTE CONTROLLER WRED.

(73). HIGH EPICENCY FILTER SOX.

(F). WHISH EPICENCY FILTER SOX.

(F) VERFEY EZERGAL CONNECTION AND VOLTAGE AT FIELD PRIOR TO COUNTYS.

(F) CONTRACTOR SHALL BE RESPONDED OF SUBMIT REPROGRANT LINE SHOP DWG, FOR APPRIX

(F) CONTRACTOR SHALL BE RESPONDED OF SUBMIT REPROGRANT LINE SHOP DWG, FOR APPRIX

(NON-COORDINATE) SHOP PROGRAMS.

(S) REPROGRANT LINE SEZING SHALL BE COME BY COUPHINT MANUFACTURER.

(4) START UP SHALL BE COME FOURHMENT MANUFACTURER.

VRF OUTDOOR (CU) UNITS SCHEDULES									
DRAWING	T. CAPACITY	COMPRESSOR (CU)		OUTDOOR FAN		MCA	MAX FUSE/CB	MANUFACTURER	
SYMBOL	MBH	VOLTS/PH/HZ	RLA	RLA FLA W		AMP	MODEL		
CU-101	12	208/1/60	6.3	0.32	53	15.5	20	DAIKIN FTKS32DVMA	
CU-102	12	208/1/60	6.3	0.32	53	15.5	20	DAIKIN FTKS32DVMA	
CU-201	24	208/1/60	10.3	0.40	66	19.8	20	DAIKIN	

NOMENCLATURE

MFA:	MAX. FUSE AMPS.	(A)
MSC:	MAX. STARTING CURRENT	(A)
RLA:	RATED LOAD AMPS.	(A)
OFM:	OUTDOOR FAN MOTOR	

FLA: FULL LOAD AMPS. (A) KW: RATED MOTOR OUT PUT (KW)

VRF MS & CU UNITS SCHEDULES

	T. CAPACITY	COMPRESSOR	(CU)	OUTDOO	R FAN	INDOOR F	AN (MS)	MCA	MAX FUSE/CB		
SYMBOL	MBH	VOLTS/PH/HZ	RLA	FLA	w	FLA	w	MCA	AMP	MODEL	
(MS & CU)-01	9	208/1/60	3.5	0.20	31	0.14	38	12.0	15	DAIKIN FTKS25FVMA	

NOTE: 1) VERIFY ELECTRICAL CONNECTION AND VOLTAGE AT FIELD PRIOR TO EQUIPMENT PURCHASE.

2) REFRIGERANT LINE SIZING SHALL BE DONE BY EQUIPMENT MANUFACTURER.

ELECTRICAL REQUIREMENTS FOR

AUTOMATIC CONTROL SYSTEM

THE LECTRICA OF OWNERORS SHALL BE REPOSSIBLE OF PROVIDE DESCRIPTIONS
FOR CONTROL SYSTEM IN THE FOLLOWING MEAS.
FOR CONTROL SYSTEM IN THE FOLLOWING MEAS.
REGISTER OF THE PROVIDE SHALL BE CONTROL OF THE PROVIDE SHALL BE CONTROL OF THE PROVIDE SHALL BE CONTROL OWNERS.

NEAR CLOCK CONTROL MODIES.

NEAR CLOCK CONTROL MODIES.

NEAR MOTORIZED CAMPERS

NEAR MOTORIZED CAMPERS

NEAR MOTORIZED CAMPERS

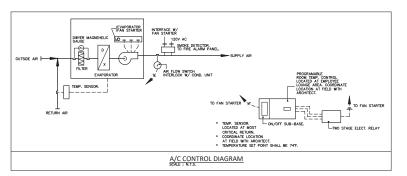
NEAR MOTORIZED CAMPERS

NEAR WAY WE OPER.

NEAR WAY WE CORE.

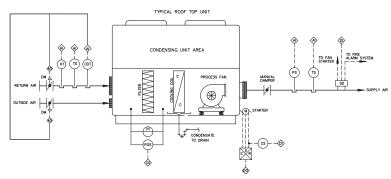
NEAR WAY WE CORE.

NEAR WAY WE CORE.



NOTE:

Exhaust and supply fans airflow and hood dimensions shall be revised as per final kitchen equipment layout. The information provided regarding kitchen ventilation shall be used for coordination purposes only.



TYPICAL RTU CONTROL DIAGRAM

IR TER	MINALS SCHEDULE					
DESIG.	TYPE	MODEL	MANUFACTURER	REMARK		
SD-1	SUPPLY DIFFUSER	5000	METAL AIRE	ALUMINUM CONSTRUCTION		
SD-2	HIGH CAPACITY SUPPLY OUTLETS	RLD-G0				
RR-1	RETURN/EXHAUST REGISTER	RHD				
RR-2	HEAVY DUTY RETURN GRILLE	HDRH				
OAL-1	OUTSIDE AIR LOUVER	OAL2 F		'		



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Drawn by : J. Hernandez

Checked by JOSE LUIS MARRERO

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IMPROVEMENTS & EXPANSION MUNICIPAL **COLISEUM ANGEL MERCADO VEGA Bo, PUEBLO** SABANA GRANDE.

SCHEDULES

PUERTO RICO

Scale N.T.S.

File Name 20-061

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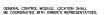
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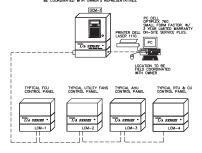
SEQUENCE OF OPERATION

- A NEW MICROPROCESSOR BASED BUILDING AUTOMATION SYSTEM (BAS) SHALL EXECUTE
 ALL CONTROL OPERATION ASSOCIATED WITH AIR CONDITIONING AND VENTILATION EQUIPMENT.
- THE NEW BAS SYSTEM SHALL BE INTELLIGENT AUTOMATION SYSTEM (I/A SYSTEM) BY INVENSYS. BUILDING SYSTEM CONTROL SHALL INCLUDE A LEAST ONE GLOBAL CONTROL. MODULE.(GCM)
- 3. THE GCM SHALL BE CAPABLE OF FUTURE COMMUNICATION VIA ETHERNET, ECHELON, OR REMOTE MODEM.
- 4. NOT USED
- 5. SYSTEM SHALL BE MODULAR TO PERMIT EASY EXPANSION BY SIMPLY ADDING MORE CONTROLLERS.
- SPECIFIED CONTROL SHALL BE LEAST INVENSYS BUILDING SYSTEM I/A SERIES CAPABLE OF COMMUNICATION
 WITH BACNET,LONWORK,LONMARK,NWB000,FOXBORO AND APPROXIMATELY 600 THIRD PARTY PROPRIETARY
 PROTOCUL.
- THE INTELLIGENT AUTOMATION SYSTEM SHALL BE OPEN & INTER OPERABLE WITH LONMARK, LONWORK AND BACNET MONE INTER OPERABLE SYSTEM WILL BE NOT ACCEPTABLE. CONTACT CONINCO FOR MORE INFORMATION
- 9. ON COMMAND TO START THE A/C SYSTEM SHALL START.
- RETURN DUCT TEMPERATURE SENSOR SHALL PROVIDE SIGNAL TO GENERAL CONTROL MODULE (GCM)
 A SMOKE DETECTOR LOCATED AT THE SUPPLY DUCT. SHALL STOP THE FAN UPON SENSING SMOKE.
- A DIFFERENTIAL PRESSURE SWITCH ACROSS THE FILTER TO ACTUATE AN ALARM WHEN THE PRESSURE DROP ACROSS THE FILTER REACHES HIGH VALUE.
- 13. A RELATIVE HUMIDITY TRANSMITTER LOCATED AT THE RETURN DUCT SHALL BE CONNECTED TO THE GENERAL CONTROL MODULE THROUGH AN ANALOG INPUT DEVICES RETURN RELATIVE HUMIDITY SHALL BE INDICATED AT THE COM.
- 14. NOT USED
- 15. A TEMPERATURE SENSOR LOCATED AT FAN INLET SHALL BE CONNECTED TO THE LOCAL CONTROL MODULE THROUGH AN ANALOG INPUT DEVICES. COOLING COIL LEAVING TEMPERATURE SHALL BE INDICATED AT THE COM.
- 16. COOLING COIL LEAVING AIR TEMPERATURE SHALL BE CONTROLLED CONSTANT BASED ON THE SPECIFIED TEMPERATURE. IN THE ANU SCHEDULE.
- 17. RETURN AIR TEMPERATURE AND HUMIDITY SHALL MODULATE ELECTRIC HEATING COIL TO ATTAIN DESIGN PARAMETER.
- A CURRENT SENSOR LOCATED AT EF'S SHALL BE CONNECTED TO THE LOCAL CONTROL MODULE TO INDICATED FAN STATUS.

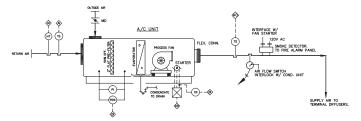
LEGEND

cs	CURRENT SENSOR	⋄	ANALOG OUTPUT	FF	FINAL FILTER	ER	EXHAUST REGISTER
(DM)	DAMPER MOTOR	(A)	ANALOG INPUT	PF	PRE FILTER	н	HOOD
FI	FLOW INDICATOR	∞	DIGITAL OUTPUT	SF	SUPPLY FAN	AS	ACID STORAGE
FT	FLOW TRANSMITTER	(DI)	DIGITAL INPUT	RA	RETURN AIR	CFM	CUBIC FEET PER MINU
HS	HAND SWITCH		ELECTRICAL SIGNAL	OA	OUTSIDE AIR	EF	EXHAUST FAN
HT	HUMIDITY TRANSMITTER	SD	SMOKE DETECTOR	EA	EXHAUST AIR	SR	SUPPLY REGISTER
HI	HUMIDITY INDICATOR	MD	MANUAL DAMPER	AHU	AIR HANDLING UNIT	(E)	EXISTING
PDS	PRESSURE DIFFERENTIAL SWITCH	3 × R	SENSING RELAY	RH	RE-HEAT COIL	(N)	NEW
PI	PRESSURE INDICATOR	HFT	HEPA FILTER TERMINAL	CU	CONDENSING UNIT	AMD	AIR MONITOR DEVICE
TS	TEMPERATURE SENSOR	FH	FUME HOOD	RR	RETURN REGISTER	СН	CANOPY HOOD
(VFD)	VARIABLE FREQUENCY DRIVE	RM	REFRIGERATION MACHINE		DUCTWORK	cc	COOLING COIL
MD	MANUAL DAMPER	>	VARIABLE FREQUENCY	\bowtie	GATE VALVE	III	UNIVERSAL UNION
PS	PRESSURE SENSOR		DRIVE	4		M	CHECK VALVE
LCM	LOCAL CONTROL MODULE	D.	AUTOMATIC AIR VENT	M	PRES. REGULATOR	*e.	BUTTERFLY VALVE



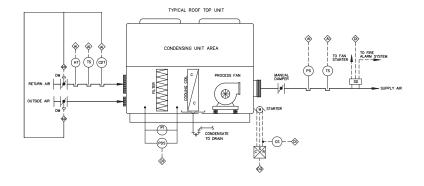


CONTROL SYSTEM ARCHITECTURE



TYPICAL A/C UNITS CONTROL DIAGRAM

TYPICAL PCU CONTROL DIAGRAM





TYPICAL CU CONTROL DIAGRAM



TYPICAL UTILITY FANS CONTROL DIAGRAM
SCALE N.T.S.

008136,

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Drawn by : J. Hernandez Checked by

JOSE LUIS MARRERO

DECEMBER 2022

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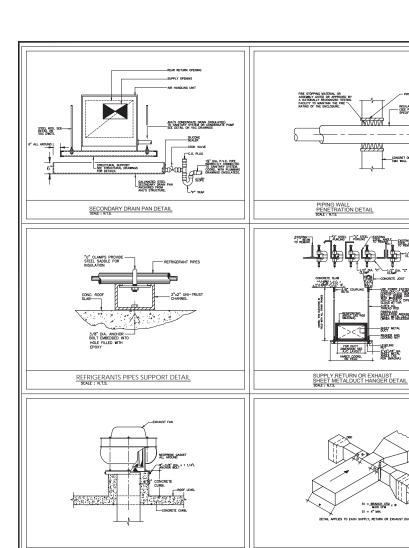
VAC CONTROLS AND DIAGRAMS

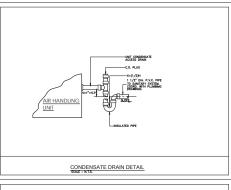
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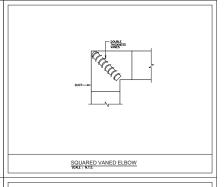
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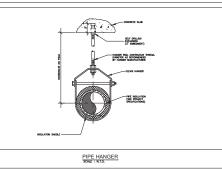
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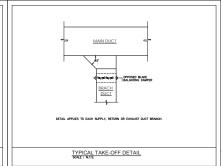
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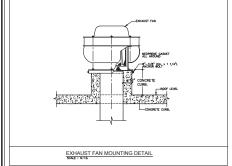


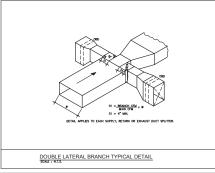


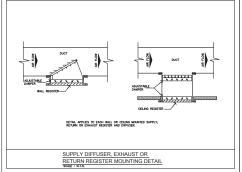


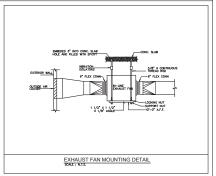


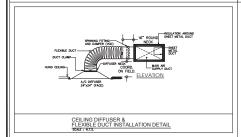


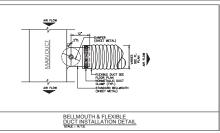


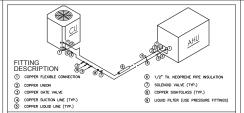












REFRIGERANT PIPING CONNECTION DETAIL

SCALE : N.T.S.



501 Alfredo Carbonell Sireel Rossevell, Hate Rey, PR 00 Tel. (787) 274-8728 ° Fex. (787) 772-9121 Emelt J.morrero@grape.com

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Drawn by : J. Hernandez JOSE LUIS MARRERO

DECEMBER 2022

IMPROVEMENTS & EXPANSION MUNICIPAL

COLISEUM **ANGEL MERCADO** VEGA **Bo. PUEBLO** SABANA GRANDE,

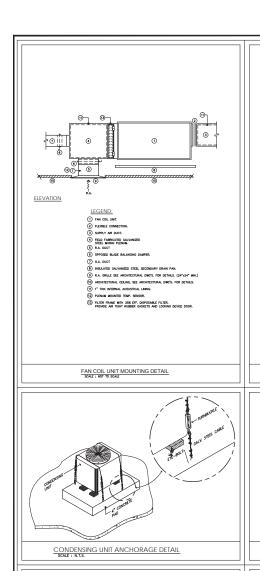
VAC DETAILS

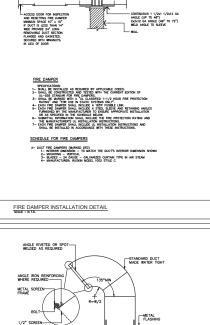
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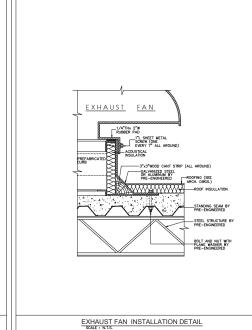
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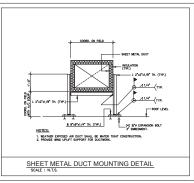
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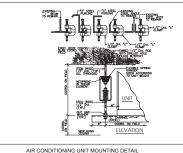
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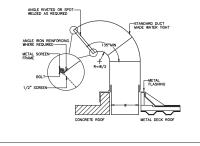




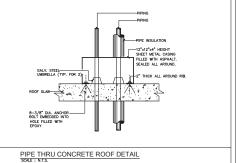


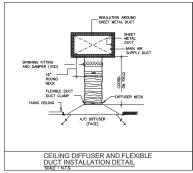


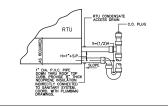
AIR CONDITIONING UNIT MOUNTING DETAIL SOME: N.T.S.



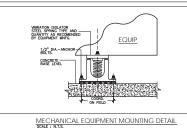
RECTANGULAR GOOSENECK DETAIL SCALE : N.T.S.

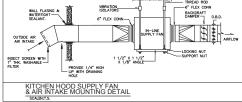


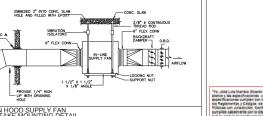




CONDENSATE DRAIN DETAIL SCALER T.S.









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Drawn by : J. Hernandez

JOSE LUIS MARRERO DECEMBER 2022

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VAC DETAILS

Scale N.T.S.

File Name 20-061

Drawing Numbe VAC-301

Sheet Number