

AERIAL VIEW
NOT TO SCALE

CONSTRUCTION DRAWINGS FOR:

CALABAZAS FACILITY DAMAGES REPAIR

SAN SEBASTIAN, PUERTO RICO

NAD83 COORDINATES
X= 144920.7907, Y= 251916.8388
LAT: 18.30169449
LON: -66.95430984

OWNER
DEPARTAMENTO DE RECREACION Y DEPORTE

PROJECT PHASE
BID DRAWINGS

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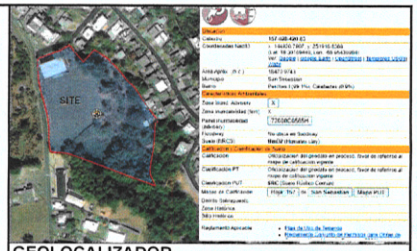
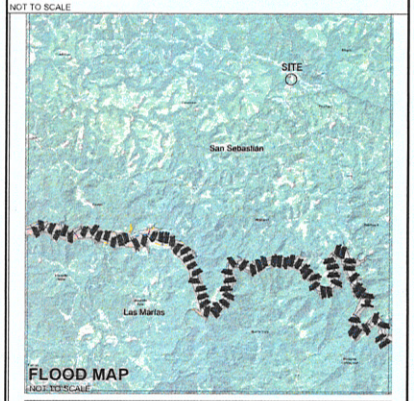


GEOLOCALIZADOR
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



FLOOD MAP
NOT TO SCALE



SERRANO & ASSOCIATES, LLC
ENGINEERING & CONSTRUCTION MANAGEMENT SERVICES

Project Name and Address
CALABAZAS FACILITY DAMAGES REPAIR
SAN SEBASTIAN, PUERTO RICO

Client Name and Address
DEPARTAMENTO DE RECREACION Y DEPORTES DE PR
PO Box 9023207 San Juan
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Design by:		
No.	Revision/Issue	Plot Date:

DRD
DEPARTAMENTO DE RECREACIÓN Y DEPORTES
PO Box 9023207
San Juan PR
00902-3207

Title this Page: TITLE SHEET

Scale: NOT TO SCALE
Details scale: AS NOTED

Job # 2023-08 DRD
Date: 12 09 2023
Check by:
Sheet no. T-1

01 Perimeter Fence

01.1 Remove and replace damaged chain link fence, approximately 380 LF x 6 FT H.
01.2 Clear and grub vegetation along fence line. .04 acre (162 SM).
01.3 Remove and replace damaged cyclone fence at backstop, approximately 1400 SFT.







02 Baseball Metal Lights Poles

02.1 Remove and replace two (2) metal light poles 35 FT.
02.2 Remove existing light fixtures luminary (19 EA).
02.3 Install new LED light fixtures (6 poles, 2 luminary per pole, 12 total EA).
02.4 Remove and install new metal lighting poles PVC junction box (6 EA). Raintight, waterproof, 12"Lx12"Wx6"D, NEMA3R.
02.5 Remove and replace new wiring for poles (300 LFT).
02.6 Install new underground lighting circuit conduits and wiring to main panel Connection loop PVC conduits, SCH. 40, 2.5" diam. (1,000 LFT).
02.7 Water pressure, apply primer and painting (2 coats) to existing steel base and post up to 30 FT. Repair concrete base. 4EA










03 Covered Basketball Court Improvement

03.1 Repair (4) Steel columns base plate and web approximately 1´-2" x 3´-0" (28 SFT Total).
03.2 Remove and replace basketball court luminaries (8 EA).
03.3 Selective demolition and pour new concrete slab (approximately 12 SFT X 6IN THK).
03.3 Repair court surface (approximately 40 SFT).
03.4 Water pressure and apply surface paint new coat (4,500 SF) equal or similar to ALPHA GRIP
03.5 Install anti- bird net (approximately 8,500 SFT).
03.6 Install new Hoops Nets, 2 EA.
03.7 Remove and replace electrical exposure of systems.
03.8 Replace gutters (200 LFT), Downspout (6 EA, approximately 144 LFT), galvanized metal siding (approximately 100 SFT), Corner Trim Flashing (approximately 120 LFT).
03.9 Remove and dispose existing water fountain.
3.10 Water pressure wash, prime and paint (2 coats) steel frame columns and beams.















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04 Electrical Pedestal

04.1 Verify and replace all damage electrical breakers, fixture and system. Provide Electrician Certification after finish the project. All electrical system must have properly function.



05 Concrete Bleachers

05.1 Selective demolition of fist bench 20" x 45 LFT. 75 SFT X 4IN.
05.2 Construct new concrete bench (approximately 75 SFT X 5IN).
05.3 Repair concrete benches approximately 30 SFT X 4IN.
05.4 Repair galvanized canopy steel columns anchor (6 EA).
05.5 Water pressure wash, prime and paint (2 coats). Surface and laterals. (600 SFT).
05.6 Water pressure wash, prime and paint (2 coats) steel columns, beams and metal roof. (1,600 SFT)



06 Dugouts Structures

06.1 Repair concrete and surface (approximately 24 SFT).
06.2 Water pressure wash, prime and paint (2 coats), approximately 500 SFT EA Dugout, Total 1,000 SFT.
06.3 Water pressure wash and apply elastomeric waterproofing membrane (108 SFT EA, 216 SFT Total).



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07 Baseball Field

07.1 Regrading and preparation of infield (approximately 1,114.84 SM). (12,000 SFT). Remove all grown sod inside the infield area and apply an industrial herbicide to prevent future grow. rake the area and remove all debris. To repair the infield surface, use a mix equal to 55 percent sand, 30 percent clay, and 15 percent silt covering material. Install baseball bases set.
07.2 Regrading, preparation and plant grass of all other areas (approximately 278.71 SM). (3,000 SFT).






08 Sidewalks

08.1 Surface repair of entrance sidewalk approximately 108 SFT.




09 Bathrooms Structure

09.1 Remove and dispose all structure around vegetation. Approximately 20CYD.
ALTERNATE SERVICES:
09.2 Water pressure wash, apply prime and two (2) coats of paint. Interior and exterior. Approximately 1,400 SFT.
09.3 Remove existing watercloset and lavatory with all plumbing fixtures.
09.4 Install new plumbing equipment watercloset (2 EA) and lavatory (2 EA). Include faucet and fixtures for proper function.




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Sheet No.
SOW-3

SCOPE OF WORKS AREAS KEY PLAN ID



LEGEND

1. Existing Basketball Court
2. Existing Bleacher Area
3. Existing Dugouts
4. Existing Bathrooms
5. Existing North Gate Entrance
6. Existing Electrical Pedestal Meterbank, Panelboards
7. Existing Lighting Poles to Repair and Install New High bay lighting fixtures poles (L-1)
8. Lighting Poles to be Replace and Install New High bay lighting fixtures poles (L-1)
9. Sidewalk to be Repair
10. Baseball Field

Yamil Duran Serrano
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Licenciado
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Puerto Rico
Fecha de Expiración: 2024-12-13

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Sheet No.: SOW-4

GENERAL NOTES

GENERAL NOTES:

ALL WORK IS TO CONFORM WITH DRAWINGS AND SPECIFICATIONS. THESE DRAWINGS ARE REPRESENTATIONS OF WORK TO BE UNDERTAKEN. THEIR INTENT IS TO OUTLINE THE EXTENT OF THE WORK TO BE EXECUTED BY THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS. THE DRAWING ARE COMPLIMENTARY AND WHAT IS CALLED FOR IN ONE SHALL BE CALLED FOR IN ALL.

THE CONTRACTOR SHALL COMPLY WITH ALL AFLICABLE LAWS, RULES, CODES, REGULATIONS AND ORDINANCES RELATED TO BUILDING CONSTRUCTION AND ZONING, INCLUDING LOCAL AND MUNICIPAL REQUIREMENTS AND FEDERAL SAFTTY STANDARDS AS INDICATED IN THE O.S.H.A. REGULATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL NECESSARY INSURANCES, LICENSES, AND PERMITS, EXCLUDING THE BUILDING PERMIT.

THE CONTRACTOR IS REQUIRED TO VISIT AND INSPECT THE SITE TO FAMILIARIZE HIMSELF AND HIS SUB-CONTRACTORS WITH EXISTING FIELD CONDITIONS PRIOR TO BIDDING OR START OF WORK. HE SHALL FIELD VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND CONFIRM IN HIS FIELD VERIFICATION THE EXACT LOCATION OF ALL OBJECTS, LINES, STRUCTURES, RIGHT OF WAYS, BOUNDARIES, ETC. ANY DISCREPANCIES FOUND FROM SITE INSPECTION WITH DRAWINGS SHALL BE INFORMED TO THE ARCHITECT DURING THE BIDDING PROCEDURES. NO CLAIMS SHALL BE MADE AFTER CONTRACT HAS BEEN AWARDED FOR UNSEEN FEATURES.

IT IS THE CONTRACTOR'S RESPONSABILITY TO INFORM THE ARCHITECT OF ANY DISCREPANCIES, INCORRECT SILLUTIONS, NEED FOR AMPLIFICATION OR ANY SUCH AREA IN THE DRAWINGS. THIS INFORMATION SHALL BE IMPARTED AT THE TIME OF DISCOVERY AND IN ALL CASES WILL CAUSE THE CESSATION OF THE WORK IN THAT AREA UNTIL THE ARCHITECT CLARIFIES THE SITUATION.

ALL DRAWINGS ARE REPRESENTATIONAL AND FOR THE PURPOSE OF MEASUREMENTS SHALL BE DEEMED NOT TO SCALE. THE ARCHITECT ASSUMES NO RESPONSABILITY FOR DIMENSIONS SCALED FROM COPIES OR ORIGINAL DRAWINGS. DO NOT SCALE DRAWINGS, USE WRITTEN DIMENSIONS ONLY. LARGE SCALE DRAWINGS GOVERN AND HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS.

THE CONTRACTOR SHALL SUBMIT SAMPLES AND MANUFACTURER'S LITERATURE FOR ALL MATERIALS, FINISHES AND EQUIPMENT REQUIRED HEREIN FOR ARCHITECT'S APPROVAL PRIOR TO ORDERING OR FABRICATION. SUBMIT SAMPLES NOT LESS THAN

SHOP DRAWINGS: CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT'S APPROVAL WHERE SO MENTIONED IN DRAWINGS OR SPECIFICATIONS. ALL SHOP DRAWINGS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO ORDERING OR FABRICATION, AND SHALL BE SUBMITTED WITH AMPLE TIME FOR REVIEW.

THE MENTIONING OF A SPECIFIC PRODUCT IN THESE DOCUMENTS ASSUMES THAT THE SPECIFIC PRODUCT OR AN APPROVED EQUAL WILL BE USED. WHEN "APPROVED EQUAL", "EQUAL TO", OR OTHER GENERAL QUALIFYING TERMS ARE USED, THEY SHALL BE INTERPRETED AS REVIEW AND APPROVED BY THE ARCHITECT.

NO PART OF THE WORK SHALL PROCEED UNTIL THE ARCHITECT HAS APPROVED: (A) MATERIALS DIFFERENT FROM THE ONES SPECIFIED, AND (B) SHOP DRAWINGS. THERE WILL BE NO SUBSTITUTIONS WITHOUT PRIOR WRITTEN PERMISSION FROM THE

WHERE NOT MENTIONED, THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S STRICTEST RECOMMENDATIONS FOR THE HANDLING, INSTALLATION, AND APPLICATION OF ALL MATERIALS AND PRODUCTS CONSISTENT WITH THE SKILL AND CARE NECESSARY FOR THE ORDERLY PROGRESS OF WORK.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMORDINATION OF ALL THE WORK TO BE EXCUTED BY HIM, SUB-CONTRACTORS, AND OTHER TRADES TO PROVIDE FOR THE PROPER EXECUTION OF THE CONTRACT.

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 PREVIOUSLY 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 CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS PRIOR TO STARTING CONSTRUCTION. IF ANY DISCREPANCY ARISES IN THE STRUCTURAL AND MECHANICAL PLANS, THE ARCHITECTS AND ENGINEERS SHALL BE NOTIFIED

PROVISIONS FOR DETAILS NOT SPECIFICALLY DRAWN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACI-318 BUILDING CODE AND/OR AISC SPECIFICATIONS AND CLARIFIED WITH THE STRUCTURAL ENGINEER.

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.

QUALITY ASSURANCE:

THE CONTRACTOR WILL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY OR LABORATORY TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS. THE TESTING AGENCY SHALL BE LICENSED IN PUERTO RICO AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN PUERTO RICO.

FAILURE OF QUALITY ASSURANCE TESTING AND INSPECTIONS TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS NOTED, NOR SHALL IT OBLIGATE THE OWNER'S REPRESENTATIVE FOR

THE TESTING AGENCY OR LABORATORY AND ITS REPRESENTATIVES ARE NOT AUTHORIZED TO REVOKE, ALTER, RELAX, ENLARGE OR RELEASE ANY PORTION OF THE WORK, PERFORM ANY DUTIES OF THE CONTRACTOR, OR BE A PARTY TO SCHEDULING OF WORK.

THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY OR LABORATORY AND THE OWNER'S REPRESENTATIVE A MINIMUM OF 24 HOURS IN ADVANCE OF ALL WORK REQUIRING QUALITY ASSURANCE TESTING AND INSPECTIONS AND ALL REASONABLE FACILITIES SHALL BE MADE AVAILABLE FOR

RECORDS OF INSPECTIONS SHALL BE KEPT AVAILABLE TO THE OWNER & BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND FOR TEN YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT TESTING

REFERENCES:

DESIGN, FABRICATION & CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS AND PROVISIONS OF THE FOLLOWING CODES AND SPECIFICATIONS THEIR COMMENTARIES AND THE STANDARDS REFERENCED THEREIN:

PUERTO RICO BUILDING CODES (2018) AS AMENDED
INTERNATIONAL BUILDING CODES 2018
AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
AMERICAN WELDING SOCIETY (AWS)
AMERICAN CONCRETE INSTITUTE (ACI)
CONCRETE REINFORCED STEEL INSTITUTE (CRSI)
MINIMUM DESIGN LOADS AND ASSOCIATE CRITERIA FOR BUILDINGS AND OTHERS STRUCTURES (ASCE 7)

SOIL GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR TESTS AND GEOTECHNICAL INVESTIGATIONS. CONTRACTOR MUST SUBMIT STRUCTURAL FOUNDATION DESIGN AS PART OF THE SCOPE.
2. IF DIFFERENT SITE CONDITION EXIST, CONTRACTOR MUST NOTIFY TO THE OWNER AND ENGINEER.
3. ALL WALLS AND PEDESTALS SHALL BE PLACED MONOLITHICALLY.
4. BACKFILLING AT FOUNDATION AND PEDESTALS SHALL BE PLACED SUCH THAT SYMMETRICAL LOADING SHALL BE MAINTAINED ON BOTH SIDES.
5. WHERE DESIGN CONDITIONS REQUIRE BACKFILLING EACH SIDE TO UNEQUAL HEIGHTS, WALLS SHALL BE SECURELY SHORED IN POSITION, AND SHORES SHALL REMAIN UNTIL FLOORS ARE PLACED AND PROPERLY SET TO PROVIDE FULL SUPPORT.
6. HORIZONTAL JOINTS IN FOUNDATION WALLS, GRADE BEAMS, OR SLABS, WILL NOT BE PERMITTED, UNLESS NOTED.
7. PLACE FOOTINGS IMMEDIATELY AFTER THE BOTTOM OF THE EXCAVATION HAS BEEN APPROVED, OR USE A 2" MUD SLAB TO PROTECT THE SOIL.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ANY REQUIRED SHORING, OR BRACING OF EXISTING
9. FOUNDATION CONCRETE WORK SHALL INCLUDE SETTING OF COLUMN ANCHOR BOLTS AND LEVELING PLATES SUPPLIED BY THE STRUCTURAL STEEL CONTRACTOR, & GROUTING AT COLUMN BASES AS SHOWN ON THE DWGS. GROUT & LEVELING PLATES TO BE INSTALLED BEFORE STEEL ERECTION

DEMOLITION NOTES

1 - THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO THE BEGINNING OF DEMOLITION WORK. NOTIFY "A / E FIRM" OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK.

2 - THE INTENT OF EXISTING CONDITIONS AND DEMOLITION DRAWINGS IS TO NOTE GENERALLY THE PORTIONS OF THE PROJECT TO BE DEMOLISHED, REMOVED AND AND / OR RELOCATED. OTHER PORTIONS OF THE PROJECT MAY REQUIRE DEMOLITION FOR STRUCTURAL, ELECTRICAL , MECHANICAL AND / OR PLUMBING WORK, SEE THOSE SECTIONS DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION, OR DEMOLISHED ACCORDING TO ARCHITECTURAL DEMOLITION DRAWINGS REQUIREMENTS.

3 - CONSTRUCTION AND FINISHES SHOWN AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.

4 - ALL ITEMS SHOWN AS REMOVED SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE IMMEDIATELY REMOVED FROM THE SITE, UNLESS NOTED OTHERWISE.

5 - PROTECT PORTIONS INDICATED TO REMAIN, INCLUDING UTILITIES, FROM DAMAGE REPAIR OR REPLACE IF DAMAGED BY THIS WORK AT NO ADDITIONAL COST TO THE OWNER.

6 - BEFORE REMOVING LOAD BEARING WALL, COLUMN, BEAM OR ANY OTHER STRUCTURAL MEMBER, THE CONTRACTOR SHALL VERIFY THE EXISTING STRUCTURE AND SUBMIT FOR THE "A/E FIRM" REVIEW, A PLAN FOR THE SEQUENCE AND TYPE OF TEMPORARY SHORING TO BE USED DURING THE WORK.

7 - REMOVE ALL FINISHES AS NECESSARY FOR NEW CONSTRUCTION AND AS INDICATED ON DRAWINGS WITHOUT DAMAGE TO SUBSTRATES OR ADJACENT SURFACES.

WATERPROOF ROOF COATING SPECIFICATIONS

1. THE CONTRACTOR MUST SUBMIT FOR APPROVAL WATERPROOF ROOF COATING WITH THE FOLLOWING PROPERTIES: Algae Resistant, Cool Roof Certified, Extreme Heat, High Impact/Hail Resistant, High Reflectivity, High Wind Resistant, Ice and Water Shield, Impact Resistant, Mildew Resistant, Quick Dry, Permanent ponding water resistant, VOC compliant - solvent, free Mold and mildew resistant, Chemically bonds with roof substrates as it cures 10 years or Lifetime limited warranty.

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Fecha de Expiración: 2024-12-31

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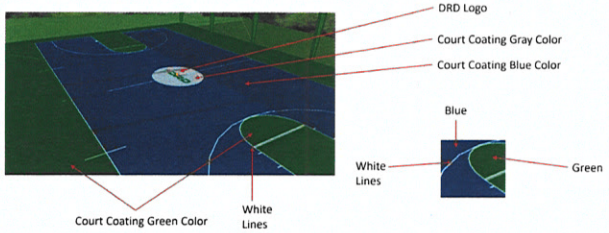
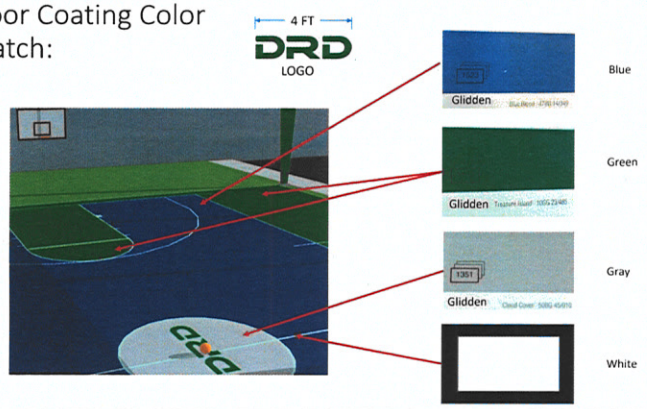
BASKETBALL COURT PAINT AND REPAIR DETAILS

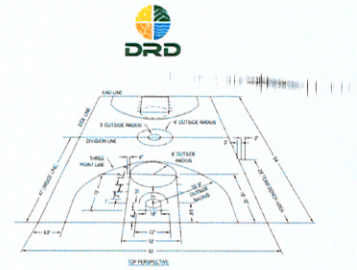


Basketball Court Floor Paint Color



Floor Coating Color Match:

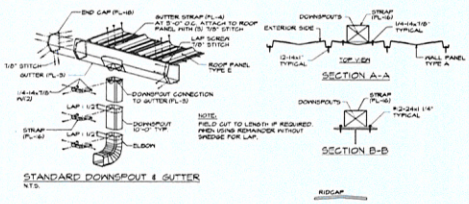


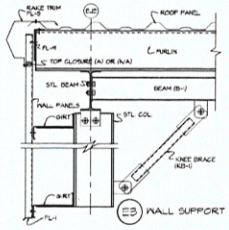


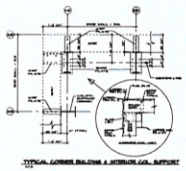
DETAILED DRAWINGS

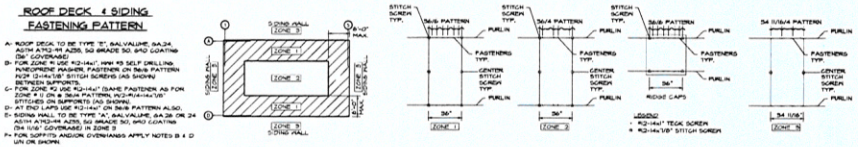
BASKETBALL

2023 - Departamento de Recreación y Deportes









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BASKETBALL COURT PAINT AND REPAIR DETAILS

Scale: NOT TO SCALE
Details scale: AS NOTED

Job # 2023-08 DRD
Date: 12 06 2023
Check by:
Sheet No. C-1

BASKETBALL COURT AND BLEACHERS PAINT AND REPAIRS DETAILS



SlipDoctors
LEADERS IN FLOOR SAFETY

ALPHA GRIP
TECHNICAL DATA SHEET

SlipDoctors' Alpha Grip is a multicolorite acrylic anti-slip paint formulated to increase traction on concrete, sport courts, sidewalks, and parking lots. Our commercial grade coating is easy to apply and offers a durable, barefoot-friendly textured coating for long-lasting anti-slip protection to help prevent slips and falls.

Special Features
- Interior and Exterior Use
- Barefoot Friendly
- Increases Traction
- UV & Chemical Resistant
- Fast & Easy Application

Suggested Uses
- Commercial & Residential
- Warehouse Floors
- Traffic Paint & Line Blockings
- Sidewalks, Pools & Stairs
- Parking Lots & Asphalt
- Sport Courts, Driveways & Portigo

Product Characteristics and Benefits

Surfaces	Concrete, asphalt, steel, metal, pavers and many other common hard surfaces
Colors	Available in Red, White, Black, and Yellow
Container Size	One Gallon (3.78L)
Product Type	Waterborne Acrylic - Matte Finish
Coverage	Apply 300sq ft per gallon, depending on porosity of substrate
Mode of Application	3/8" Nap Roller (not included)
Application Temperature	Surfaces, air, and product temperature above 50°F (10°C), relative humidity less than 50%. Do not apply if precipitation is expected within 24 hours of application
Dry Time	4-6 Hours @ 77°F (25°C)
Recoat Time	1-2 Hours. Apply up to 2 coats is recommended
Water Resistant	Yes
Stain Resistant	Yes
Storage	Protect from freezing. Store locked up in a well-ventilated area. Keep container tightly closed.
Shelf Life	2 years (original unopened container); 1 year (original opened container)
Warranty	2 years
Removal	Xylene, Paint Thinner or High-Pressure Power Wash
Disposal	Dispose of contents and unused contents in accordance with local, state, and federal regulations

Precautions & Technical Support

Please refer to Safety Data Sheet (SDS) for detailed Precautions and First Aid instructions. Alpha Grip Safety Data Sheet can be found at www.slipdoctors.com

Technical Support:
Please contact SlipDoctors at support@slipdoctors.com

www.SlipDoctors.com

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Directions for Preparation, Application and Use

Safety Precautions	• Use in a well-ventilated area • If you scrape, sand, or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. Contact the National Lead Hotline at 1-800-424-LEAD or www.epa.gov/lead for more information.
Optional Safety Equipment	• Chemical-resistant gloves • Eye Protection • Mask
Surface Preparation	Surface preparation varies by surface. Please see chart below for specific instructions for your surface type.

Surface Preparation

Surface Type	Surface Preparation
All Surfaces	Care should be taken to ensure that surface is clean, dry and free of loose material. A simple leaf blower is typically sufficient to remove gravel and dust in most cases as. Areas with oil buildup or existing safety markings may require power washing or abrading the surface before application. Alpha Grip should not be applied on surfaces less than 50°F (10°C), when the relative humidity is greater than 80% and/or less than 24 hours before expected precipitation.
Painted Surfaces	When applying over previously coated areas, take special care to remove any loose or peeling paint.
Sealed Surfaces	Use caution when painting over freshly sealed surfaces. Sealers can affect adhesion and cure times.
Concrete & Asphalt	New concrete and asphalt should be aged for a minimum of 30 days prior to painting.

Application Instructions

1. Avoid evening and night applications when possible due to cooler temperatures. All lower temperatures or higher humidity, a significant amount of extra cure will be required for the paint to dry. Do not apply when temperature and humidity are near or below the dew point.
2. Use a drill mixer or hand stir to thoroughly mix Alpha Grip before application. Stir frequently to ensure even additive distribution. No thinning is required.
   NOTE: Slight color variations are possible between different container numbers. For this reason, we recommend mixing paint from different containers together to achieve consistent color results.
3. Apply using a 3/8" Nap roller. For best results, apply in uniform coats with light even pressure. Avoid thick coats. Wait 1-2 hours to apply second coat. The second coat should be applied at a right angle to the first coat.

Clean Up	Clean spills, splatters, tools, and other equipment promptly with warm soapy water.
Maintenance	Clean with pH-neutral cleaner and low pressure rinse

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Warranty & Disclaimer

SlipDoctors® All properly installed SlipDoctors products are guaranteed to increase the coefficient of friction of your surface for two (2) years (provided surface preparation and cleaning procedures are followed and no contaminants are present). If at any time during the warranty period the treated surface should lose its coefficient of friction, SlipDoctors shall at its option replace any product that proves defective. This warranty applies only to the product itself. Neither the Seller nor the Manufacturer shall be liable for any injury, loss or damage direct or consequential, arising out of the use or the inability to use the product. Before using, Buyer shall determine the suitability of the product for the intended use, and the Buyer assumes all risk and liability whatsoever in connection therewith. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by Seller and Buyer. Buyer assumes all risks and responsibility associated with disposal. SlipDoctors cannot accurate all possibilities of use and fall accidents. Please visit www.slipdoctors.com to find further warranty information. KEEP OUT OF REACH OF CHILDREN.

www.SlipDoctors.com



PAINT NOTES:

1. ALL INTERIOR AND EXTERIOR WALLS SHALL BE PAINTED WITH THREE COATS OF PAINT. THE INTERIOR THREE COAT SYSTEM CONSISTS OF A SEALER PRIMER COAT AND TWO FINISH COATS WITH 100 % ACRYLIC LATEX PAINT, EGGSHELL FINISH. EXTERIOR THREE COAT SYSTEM CONSISTS OF A QUICK DRY STAIN BLOKER AND SEALER PRIMER AND TWO FINISH COAT OF 100% ACRYLIC PAINT. COLOR TO BE SELECTED BY THE ENGINEER. PATCH AND REPAIR WITH CONCRETE PLASTER ALL SURFACE IF NECESSARY, BEFORE PAINT.

2. ITEMS NOT TO BE PAINTED WHICH ARE IN CONTACT WITH OR ADJACENT TO PAINTED SURFACES SHALL BE REMOVED OR PROTECTED PRIOR TO SURFACE PREPARATION AND PAINTING OPERATIONS. ITEMS REMOVED PRIOR TO PAINTING SHALL BE REPLACED WHEN PAINTING COMPLETED.

3. EXTERIOR WALL TO BE PAINTED SHALL BE CLEAN WITH WATER BLASTER MACHINE AND BE FREE OF FOREING MATTER BEFORE APPLICATION OF PAINT OR SURFACE TREATMENTS. OIL AND GREASE SHALL BE REMOVED PRIOR TO MECHANICAL CLEANING. CLEANING SHALL BE PROGRAMED SO THAT DUST AND OTHER CONTAMINANTS WILL NOT FALL ON WET, NEWLY PAINTED SURFACES.

4. BLISTERING, CRACKING, FLAKING AND PEELING OR OTHER DETERIORATED COATINGS SHALL BE REMOVED. SLICK SURFACES SHALL BE ROUGHENED. DAMAGED AREAS SUCH AS, BUT NOT LIMITED TO, NAIL HOLES, CRACKS, CHIPS, AND SPALLS SHALL BE REPAIRED WITH SUITABLE MATERIAL TO MATCH ADJACENTS UNDAMAGED AREAS.

5. STEEL STRUCTURE SHALL BE SANDED AND PAINTED WITH ONE ANTI –RUST PRIMER AND TWO COAT OF STOPS RUST INDUSTRIAL WATER BASE ENAMEL PAINT. BLISTERING, CRACKING, FLAKING AND PEELING OR OTHER DETERIORATED COATINGS SHALL BE REMOVED.

6. SEE PAINTING SPECIFICATIONS

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Puerto Rico
Fecha de Expiración 2024-12-31

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ALL MEASUREMENTS ARE APROXIMATE.

SERRANO & ASSOCIATES, LLC
INGENIERIA Y CONSTRUCCION MANAGEMENT SERVICES

Project Name and Address
CALABAZAS FACILITY DAMAGES REPAIR
SAN SEBASTIAN, PUERTO RICO

Client Name and Address
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Design by:

No.	Revision/Issue	Plot Date

DRD
DEPARTAMENTO DE RECREACIÓN Y DEPORTES

PO Box 9023207
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Work Title
BASKETBALL COURT & BLEACHERS PAINT & REPAIR DETAILS

Scale: NOT TO SCALE
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Job # 2023-06 DRD
Sheet No. C-2
Date: 12 09 2023
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ELECTRICAL DETAILS

ELECTRICAL NOTES:
METAL POLES AND LUMINARIES:

1. Metal Poles for Sport Facilities shall be galvanized steel with galvanized steel metal base plate for installation on a concrete pedestal. Poles shall be rated for 180 mph continuous winds with an additional 3% for gusts winds. A new (3000 psi) concrete pedestal 24" in diameter x 6" high painted yellow shall be provided at each pole location. The poles shall be properly grounded by using a ¾" x 10'-0" copperweld ground rod (top of rod at 6" below finished grade), ground conductor shall be 1#6 THWN – CU – 1" PVC SCH. 40 conduit. Grounding connection shall be made to the pole's ground terminal inside the pole.
   A.-When the poles are located inside a playing field and are not protected by a chain link fence or other suitable safety feature, each pole shall be provided with a safety padding protection mat installed around the pole and on top of the pole base up to a height of 12'-0".
   B.- For baseball fields, each pole will be provided with metal climbing steps and twin top bracket mounts for at least eight (8) LED type sport floodlights each.
   C.- Safety retainer cables shall also be furnished with each floodlight to provide an additional safety mounting feature. Power connection to each pole shall be made through a pole mounted polymer gasketed pull box (12" high x 12" wide x 6" deep) NEMA 3R located 5'-6" above the pole's base plate. Provide new 3" PVC SCH 40 conduits from the existing power facilities up to the pole mounted junction box, exposed part of the conduits shall be heavy wall rigid galvanized steel including the riser elbow. Exposed part of conduits shall be painted same color as pole. Provide appropriate code approved terminations, fittings and supports. Install new wiring accordingly, to obtain a maximum 3% voltage drop from the metering facilities up to the floodlights. Install a top mounted NEMA 3R polymer gasketed pull box 8" high x 8" wide x 6" deep at 2'-0" (top of box) below the floodlights lowest bracket mount for final connections to said floodlights. Use suitable connectors inside the box with the conductors feeding the floodlights being of the flexible rainproof type. Provide drip loops in those conductors to prevent any water getting into the junction box. Both pole mounted pull boxes shall be provided with vandal proof center pin reject stainless steel screws.
   D.- If it is determined that a pole meets all the conditions indicated above, the contractor shall submit a certification to the effect that the pole has been inspected and the conditions above are fully met. Photographic evidence of all the items indicated above which include, all sides of the pole's concrete base with the pole's support bolts, the pole's metal base plate attached to the support bolts, several photos around the entire length of the pole, and the floodlights supporting structure, shall be submitted together with the certification attesting to the claim that the pole can be re-used. All new lighting fixtures must be of the LED type to comply with the Energy Conservation Code.

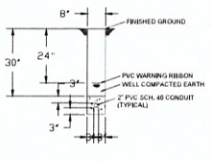
HIGH BAY POLE MOUNTED (L-1)

1. Lighting Fixture shall be a pole mounted LED type Floodlight equal or similar to: Eaton/Ephesus cat. no. AF-750-5-VL(for 120-240 volts) or VH(for 277-480 volts) depending on available site voltage - 40(4000K) – White finish - NC (to be controlled by playing field controls) – 85000 lumens – 750 watts – 70 CRI – IP66 – NEMA 4X – 1.4 EPA - approximate weight = 45 pounds.

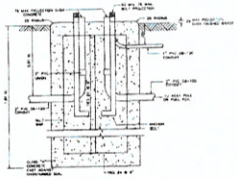
BASKETBALL SURFACE/PENDANT MOUNTED (L-2)

1. Lighting Fixture shall be equal or similar to: Patriot cat. no. PT-H-240W-MDZ-120-4000KUNV. (31680 lumens, CRI=80,100000 hrs. rated life) or Paraflex LED High Bay PFX-5209-120-240V, 215 w, 4000K, 31000 lumens, 100000 hrs rated life).

NOTE: REFER TO TECHNICAL SPECIFICATIONS FOR ELECTRICAL SYSTEMS. CONTRACTOR MUST SUBMIT FOR APPROVAL PRIMER AND (2) COAT FOR EXISTING LIGHTING POLES PAINTING UP TO 30 FEET.



UNDERGROUND SECONDARY FEEDER DETAIL
SCALE: N.T.S.


FRONT VIEW
ANCHOR & BASE DETAIL

PANELBOARDS:

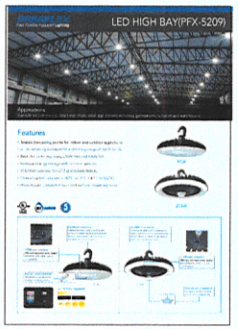
1.- Existing panelboard to remain in place. Before the contractor performs any work in the panelboard, the following precautions must be taken:
   a.- Verify the physical integrity of the panelboard including open knockouts and corrosion on its housing.
   b.- Verify the panelboard is not either partially or completely energized.
   c.- Verify that all current carrying, neutral and ground bus bars are correctly supported inside the panelboard as to achieve its specified short circuit rating.
   d.- Verify that all the conduits entering or leaving the panelboard are properly terminated with their corresponding locknuts and grounding bushings in place.
   e.- Verify that all feeder(s) and branch circuit wiring are installed in an orderly manner (not bundled together), properly labeled color wise regarding the phase sequence and with the circuit numbers indicated correctly on the conductors.
   f.- Verify that all branch circuit conductors are properly installed into the terminals of their corresponding circuit breakers and that the feeders are correctly terminated into their corresponding terminals with the required torque pressure and without any cable strands having been cut in order to make the cable fit into the terminal.
   g.- Verify that the panelboard has the code required clearances in front so that it can be worked upon in a safe manner and is provided with a door mounted card listing the loads fed from each circuit breaker.
   h.- Contractor to re-use the existing circuit breakers if found to be in a good physical condition, are installed properly whether they are plug-in or bolt-on, the circuit breakers match in interrupting capacity the one of the panelboard and are still commercially available.
   i.- Contractor to replace all circuit breakers found defective. Contractor to provide (furnish and install) all the new circuit breakers necessary to make the panelboard a functional code approved electrical equipment (new circuit breakers must have the same integrated short circuit rating as the panelboard and be of the same manufacturer and type as the existing ones).
2.- Replacement of existing panelboards: contractor to replace in place an existing panelboard if anyone of the following conditions are met:
   a.- The housing is found to have open knockouts that can not be properly sealed and/or its housing is so corroded that it is beyond repair.
   b.- The bus bars are not properly supported as its short circuit rating has become compromised.
   c.- The panelboard lacks separate ground and neutral terminals connection bus bars.
   d.- The type of panelboard is not suitable for the area on which it is installed. An example of this is a NEMA 1 panelboard installed outdoors.
   e.- The busbars of a panelboard have been removed from its housing and are re-installed inside a vandal proof cabinet with the improper assembly used as a panelboard for wiring circuits.
3.- New panelboard(s) shall be equal or similar to Eaton Manufacture surface mounted, (1 phase, 3 wires, $\frac{120}{240}$ volts) / (3 phase, 4 wires, 120/208 volts), (125 amps) / (225 amps) copper bus bars, (125 amps/200 amps main circuit breaker), ground bus, 22,000 sym. amps. interrupting capacity, 42 circuit capacity. Bolt-on type breakers, mono-flat door in-door front, extra wide gutters. NEMA (1), (3R), (4x stainless steel outdoor construction).
4.- General Contractor must consider all electrical coordination's and payments with LUMA Energy or Genera PR for the proper function of electrical pedestal and electrical power system. Must provide an Electrician Certification of all works.

NOTE: REFER TO TECHNICAL SPECIFICATIONS FOR ELECTRICAL SYSTEMS. CONTRACTOR MUST SUBMIT FOR APPROVAL ALL MATERIAL AND EQUIPMENT.

L-1 LUMINARY



L-2 LUMINARY



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SERRANO & ASSOCIATES LLC
ENGINEERING • CONSTRUCTION MANAGEMENT SERVICES

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ELECTRICAL DETAILS

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CONCRETE NOTES AND STRUCTURAL DETAILS

CONCRETE GENERAL NOTES:

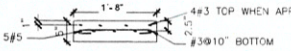
1. CONCRETE WORK SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318), AND SHALL COMPLY WITH ALL LOCAL LAWS AND ORDINANCES. WHERE CONFLICTING REQUIREMENTS OCCUR, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
2. DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE ACI BUILDING CODE (ACI-315)
3. CONCRETE DESIGN IS BASED ON THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318).
4. DESIGN IS BASED ON THE FOLLOWING:

   CONCRETE SHALL BE 3,000 PSI FOR WALLS & FOUNDATIONS, 3,000 PSI FOR SLABS & PEDESTALS; REINFORCING STEEL: FY = 60,000 PSI.
5. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
6. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS:

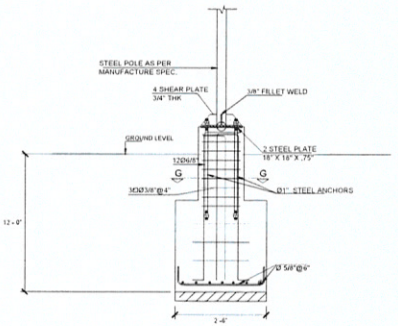
   CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH..... 3"
   EXPOSED TO EARTH OR WEATHER, WHERE FORMS ARE USED:
   #6 BARS AND LARGER..... 2"
   #5 BARS AND SMALLER..... 1-1/2"
   NOT EXPOSED TO WEATHER NOR IN CONTACT WITH GROUND:
   SLABS AND WALLS..... 3/4"
   BEAMS, GIRDER AND COLUMNS..... 1-1/2"
7. CONSTRUCTION AND CONTROL JOINTS IN SLABS ON GRADE SHALL BE LOCATED BY THE GENERAL CONTRACTOR AFTER APPROVAL BY THE ENGINEER.
8. ALL SLOTS, SLEEVES AND OTHER EMBEDDED ITEMS SHALL BE SET BEFORE CONCRETE IS PLACED. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND VENDORS DRAWINGS FOR SIZE AND LOCATIONS.
9. ALL TOP BARS AT DISCONTINUOUS ENDS SHALL HAVE STANDARD HOOKS. SPLICE TOP BARS AT CENTER OF SPAN AND BOTTOM BARS AT SUPPORT.
10. PROVIDE ADDITIONAL #5 DIAGONAL BARS, 4'-0" LONG AT ALL RE-ENTRANT CORNERS.
11. ALL BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES (48" MIN.).
12. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE WHILE POURING CONCRETE. ADDITIONAL BARS, STIRRUPS, TIES, SPACERS AND TEMPERATURE STEEL SHALL BE PROVIDED BY THE CONTRACTOR, IF REQUIRED.
13. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3\4 x 45 DEG. CHAMFER, UNLESS OTHERWISE NOTED.
15. CONTRACTOR SHALL SUBMIT, PRIOR TO INSTALLATION ALL REINFORCING STEEL SHOP DRAWINGS. SHOP DRAWINGS SHALL BE SEALED & SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN PUERTO RICO.
16. CONCRETE ITEMS AND REINFORCEMENT SHALL BE ERECTED IN STRICT ACCORDANCE WITH OWNER APPROVED SHOP AND ERECTION DRAWINGS FOLLOWING THE DETAILS SHOWN ON PLANS.
17. NO DEFECTIVE CONCRETE SHALL BE CORRECTED OR COVERED WITH MORTAR, PLASTER ETC. WITHOUT THE INSPECTORS' APPROVAL.
18. SLUMP OF CONCRETE SHALL NOT EXCEED 4" UNLESS A SHRINKAGE WATER-REDUCING ADMIXTURE IS USED. THE SLUMP OF CONCRETE PRIOR TO ADDITION OF A HIGH RANGE WATER- REDUCING ADMIXTURE SHALL NOT EXCEED 4". THE SLUMP OF CONCRETE CONTAINING A HIGH RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 10".
19. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE BETWEEN 4 AND 8 PERCENT.
20. THE NOMINAL MAXIMUM AGGREGATE SIZE SHALL BE A MINIMUM OF 3/4".
21. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS FOR EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY A REGISTERED LICENSED ENGINEER. PHYSICAL TESTS RESULTS FOR COARSE AND FINE AGGREGATES SHALL ALSO BE SUBMITTED CERTIFIED BY A REGISTERED ENGINEER.
22. MINIMUM CONCRETE COVER AS PER ACI-318, UNLESS NOTED OTHERWISE.
23. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH ACI DETAILING MANUAL AND "THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" BY THE CRSI.
24. ALL REINFORCING SHALL BE SUPPORTED IN FORMS USING STEEL CHAIRS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE".
25. CONCRETE WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES.
26. ALL SYMBOLS AND STRESSES AS WELL AS CONCRETE WORK SHALL CONFORM TO THE STANDARD OF THE AMERICAN CONCRETE INSTITUTE (ACI-318).
27. ALL SLAB AND CORRESPONDING BEAMS, CURBS, OR APRONS SHALL BE POURED MONOLITHICALLY.
28. ALL REINFORCING, SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE WELL SECURED AND IN PLACE BEFORE CONCRETE IS POURED.
29. FOR CONSTRUCTION JOINTS IN STRUCTURAL MEMBERS A VERTICAL BULKHEAD AND KEY JOINT MUST BE PROVIDED.
30. SLAB ON GROUND, AS INDICATED ON DRAWINGS.
31. FOR CONCRETE FORMWORK, SURFACE FINISHING, BEVELED CORNERS AND RIBBS, SEE ARCHITECTURAL PLANS.
32. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 304.
33. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES IN SUCH CASES. HOOPERS OR VERTICAL CHUTES OR TRUNKS SHALL BE USED. THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED THE ABOVE REQUIREMENTS.
34. THE SIZE OF NAILS AND SIMILAR FASTENERS DRIVEN INTO CONCRETE SHALL BE SUCH, AS NOT TO CRACK OR IMPAIR IT. NEVERTHELESS, IF THE CONCRETE IS DAMAGED, IT SHALL BE PROPERLY REPAIRED AFTER REMOVING THE DAMAGED PORTION AND SUITABLE JOINT SURFACE ARE PROVIDED.
35. ALL CAST IN PLACE REINFORCED CONCRETE STRUCTURAL MEMBERS SHALL BE PROPERLY CURED IN ACCORDANCE WITH ACI-318 AND ACI 308.
36. ALL LAPPING, BENDING AND PLACING OF REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH ACI-318 BUILDING CODE.
37. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
38. WELDING OF REINFORCEMENT IS PROHIBITED.
39. NO JOINT, OPENING, SLOT OR GROOVE OTHER THAN THAT SHOWN ON DRAWINGS SHALL BE PERMITTED WITHOUT PREVIOUS APPROVAL BY THE ENGINEER. ALL CONSTRUCTION JOINT SURFACES SHALL BE CLEANED AND ROUGHENED IMMEDIATELY BEFORE CONCRETING AND TREATED AS INSTRUCTED IN THE "ACI MANUAL OF CONCRETE PRACTICE."
40. WATER-CEMENT RATIO REQUIREMENTS FOR DIFFERENT COMPRESSIVE STRENGTHS OF CONCRETE:

COMPRESSIVE STRENGTH AT 28 DAYS, psi	WATER-CEMENT RATIO BY WEIGHT	
	NON-AIR ENTRAINED CONCRETE	AIR ENTRAINED CONCRETE
4,000	0.55	0.45
3,500	0.58	0.50
3,000	0.62	0.56

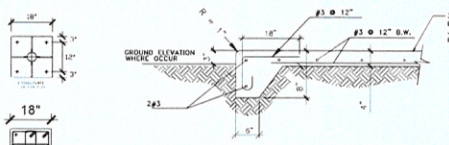
41. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCEMENT BAR WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED U.N.O.
42. CONTRACTION SAW JOINT MUST BE 10' OR LESS IN DIRECTION OF MINOR DISTANCE OF SLAB AREA.



BENCH DETAIL
NOT TO SCALE



TYPICAL STEEL POLES FOOTING (SUBMIT FOR APPROVAL)



TYPICAL SIDEWALK DETAIL
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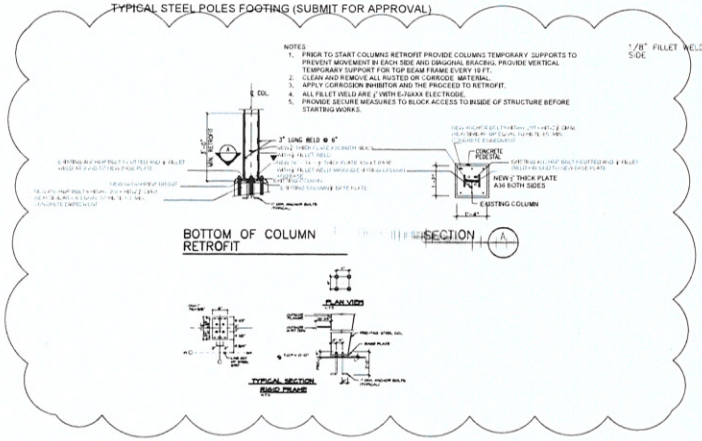
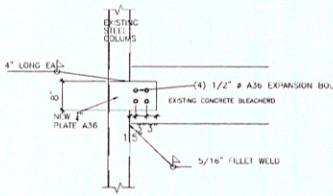
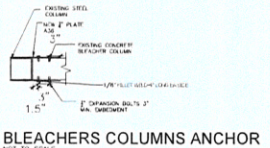


BOTTOM OF COLUMN RETROFIT



BLEACHERS COLUMNS ANCHOR
NOT TO SCALE



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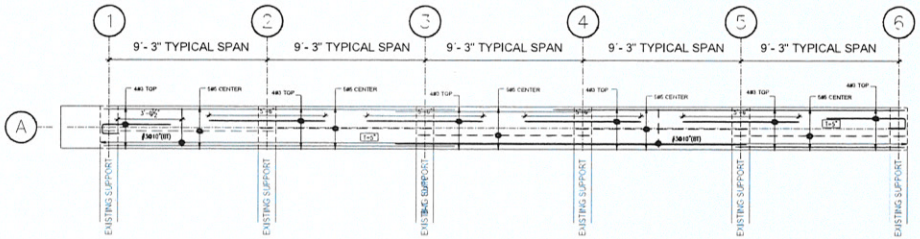

NEW BLEACHERS SEAT SLAB (1ST SEAT REPLACEMENT)
NOT TO SCALE

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ENGINEERING + CONSTRUCTION MANAGEMENT SERVICES

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SAN SEBASTIAN, PUERTO RICO

Client Name and Address
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San Juan, PR 00902-3207
Tel (787) 721-2900 Fax (787) 268-1845
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1	DETAIL REVISION 1	06/18/2024

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CONCRETE NOTES STRUCTURAL DETAILS

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Sheet No.: C-4
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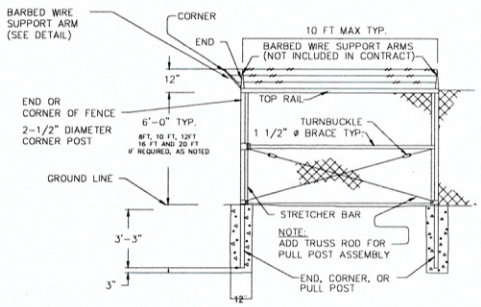
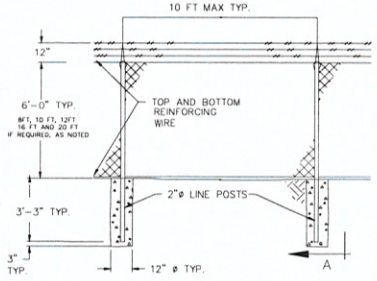
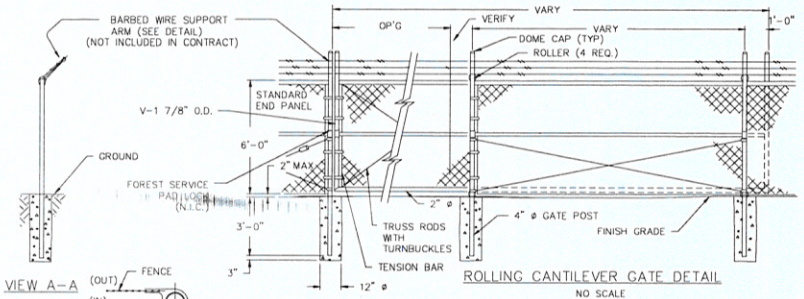
CHAIN LINK FENCE TYPICAL DETAILS



CORNER OR END PANEL ASS'Y
PULL POST ASS'Y SIMILAR (EXCEPT AS INDICATED)

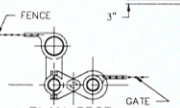


TYPICAL LINE FENCE DETAIL

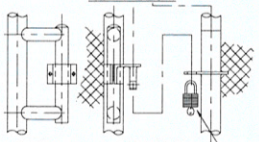


ROLLING CANTILEVER GATE DETAIL
NO SCALE

VIEW A-A

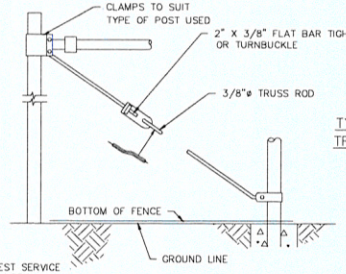


PLAN SECT.



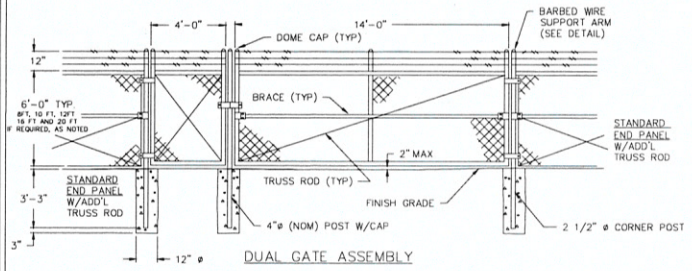
SIDE ELEVATION

GATE LATCH DETAIL
NO SCALE

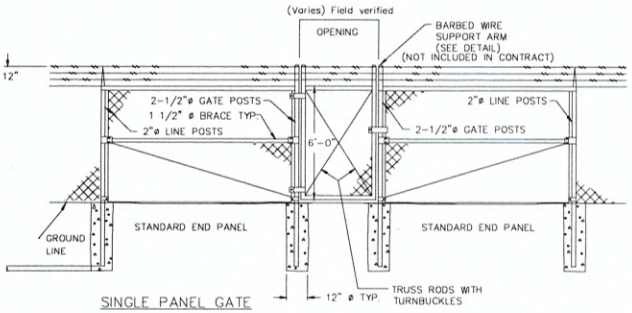


TYPICAL DETAIL
TRUSS ROD TIES
NO SCALE

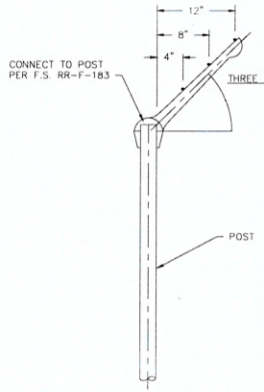
FOREST SERVICE PAD LOCK (N.I.C.)



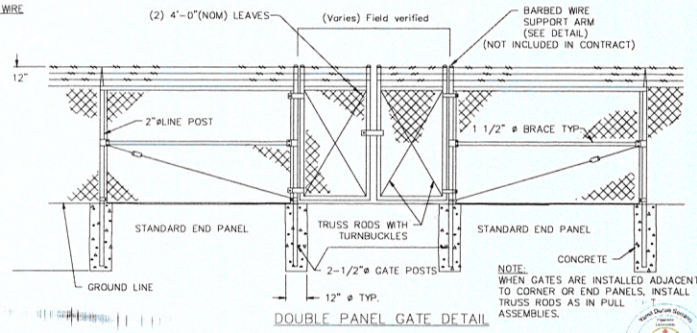
DUAL GATE ASSEMBLY



SINGLE PANEL GATE



DETAIL BARBED WIRE
SUPPORT ARM AND POST CAP



DOUBLE PANEL GATE DETAIL

NOTE:
WHEN GATES ARE INSTALLED ADJACENT TO CORNER OR END PANELS, INSTALL TRUSS RODS AS IN PULL ASSEMBLIES.

NOTE:
ALL FOOTING CONCRETE MUST BE 3,000 PSI

DO NOT SCALE DRAWING.

DEPARTAMENTO DE RECRECION Y DEPORTES PUERTO RICO			6'-0" CHAIN LINK FENCE 8FT, 10 FT, 12FT 16 FT AND 20 FT IF REQUIRED, AS NOTED
APPROVED / RECOMMENDED	DRAWN ON KEY LLC DATE JAN 2023 DESIGNED ON KEY LLC DATE JAN 2023 CHECKED DATE REVIEWED DATE	STANDARD DRAWINGS	SHT. 1 OF 2

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Title:
CHAIN LINK FENCE TYPICAL DETAILS

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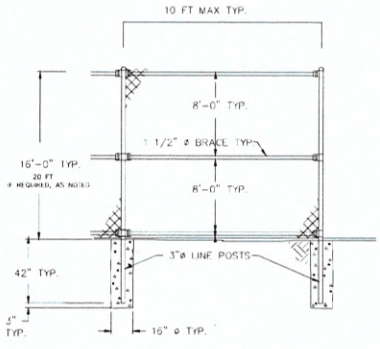
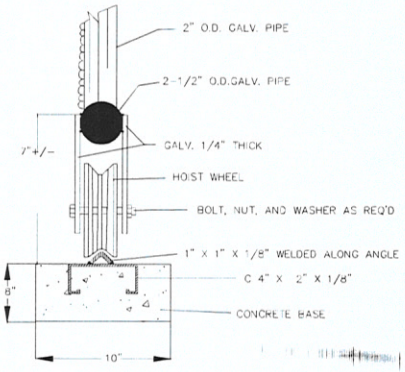
C-5

CHAIN LINK FENCE AND FOOTING TYPICAL DETAILS



TYPICAL 16FT LINE FENCE DETAIL

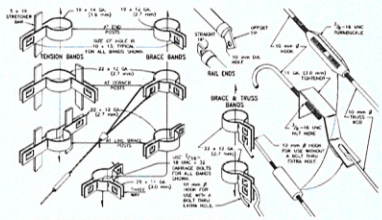
SCALE: NOT TO SCALE



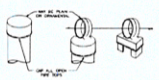
GATE WHEEL DETAIL

NO SCALE

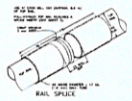
TYP. WHER OCCUR



BANDS, RAIL ENDS & TIGHTENERS (DIMENSIONS SHOWN ARE MINIMUMS)



POST TOPS



RAIL SPLICE

NOTE:

ALL FOOTING CONCRETE MUST BE 3,000 PSI

GENERAL NOTES

"H" (HEIGHT OF FABRIC) SHALL 3.048 M.

CHAIN LINK FENCE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 181.

CHAIN LINK FABRIC SHALL BE 50 mm MESH NO. 9 GAGE (3.76mm) GALVANIZED OR ALUMINUM COATED WIRE SECURELY FASTENED TO TENSION WIRE, LINE POSTS, RAILS, BRACES AND STRETCHER BARS SPACED AS SHOWN HEREON. WIRE FASTENERS AND TIE CLIPS SHALL BE NO. 11 GAGE (W&M) (3.05 mm) GALVANIZED STEEL WIRE OR NO. 7 GAGE (B&S) (3.66 mm) ALUMINUM WIRE, AND HOG RINGS SHALL BE NO. 9 GAGE (3.76 mm), ALL IN CONFORMANCE WITH ASTM F 626.

STEEL POSTS, RAILS AND GATE FRAMES SHALL CONFORM TO AASHTO M 181 TYPE 1, GRADE 1 OR GRADE 2.

AT THE CONTRACTOR'S OPTION, PIPE USED FOR FENCE CONSTRUCTION SHALL CONFORM TO THE DIMENSIONS AND WEIGHTS FOR EITHER "ORDINARY PIPE" OR " ALTERNATIVE PIPE". "ALTERNATIVE PIPE" SHALL BE HIGH STRENGTH STEEL PIPE MEETING THE REQUIREMENTS OF FED. SPEC. RR-F-191/3C.

TENSION WIRE SHALL BE CONTINUOUS BETWEEN END OR CORNER POST AND LINE BRACE POST. A TURNBUCKLE OR OTHER APPROVED TIGHTENING DEVICE SHALL BE USED FOR EACH CONTINUOUS SPAN OF TENSION WIRE.

TENSION WIRE SHALL BE AS SPECIFIED IN AASHTO M 181.

CONCRETE FOOTINGS SHALL HAVE TOPS CROWNED AT GROUND LEVEL AND SHALL BE CLASS A. CONCRETE WITH LIGHTWEIGHT AGGREGATE CONFORMING TO AASHTO M 195, WILL BE PERMITTED.

CHAIN LINK FABRIC UP TO 1520 mm HIGH SHALL BE KNUCKLED AT THE TOP AND BOTTOM SELVAGES. FABRIC OVER 1520 mm HIGH SHALL BE TWISTED AND BARBED ON THE TOP SELVAGE AND KNUCKLED ON THE BOTTOM SELVAGE.

Yamil Duran Serrano
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Puerto Rico
Prueba de Impresión: 2024-12-12

DO NOT SCALE DRAWING.

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APPROVED RECOMMENDED	DRAWN ON KEY LLC DATE JAN 2023 DESIGNED ON KEY LLC DATE JAN 2023 CHECKED DATE REVIEWED DATE	STANDARD DRAWINGS	SHT 2 OF 2

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CHAIN LINK FENCE TYPICAL DETAILS

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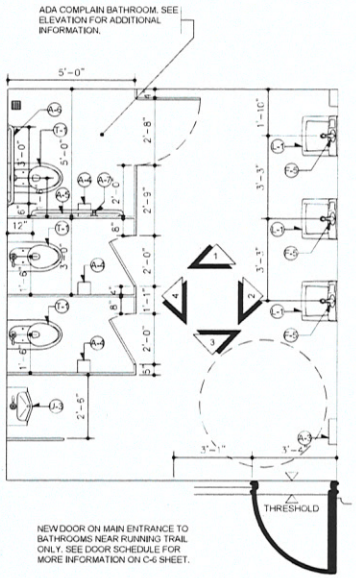
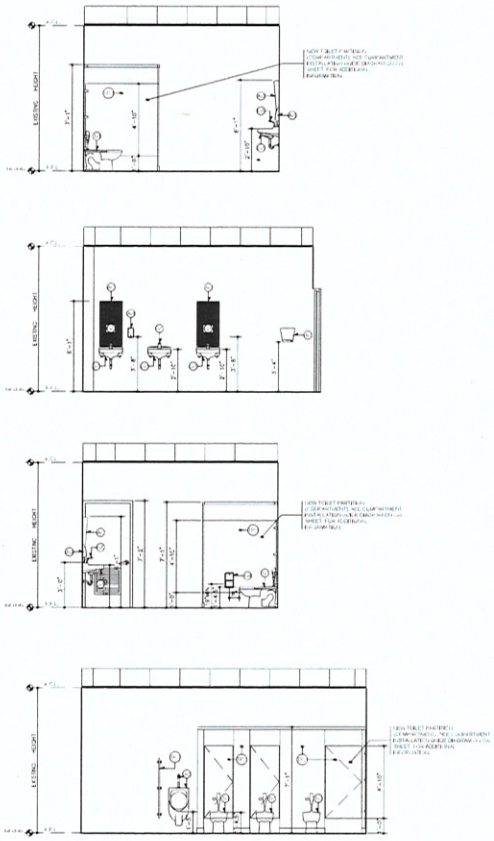
TYPICAL BATHROOM DETAILS



TYPICAL BATHROOM PLAN



TYPICAL ELEVATIONS

BATHROOM FIXTURES & ACCESSORIES SCHEDULE

ITEM	ITEM NAME	PRODUCT DESCRIPTION	MATERIAL	COLOR/FINISH	FITTINGS	MOUNTING TYPE	MOUNTING HEIGHT	REMARKS
TOILETS								
T-1	FLUSH VALVE TOILET	1.1 GPF FLUSH VALVE TOILET	VITREOUS CHINA	WHITE	WATER SAVER FLUSH VALVE	FLOOR MOUNT	VARIES	HEIGHT OPTIONAL, CLOSET SEAT TO BE OF ANTIMICROBIAL SURFACE
URINALS								
U-1	FLUSH VALVE URINAL	0.5 GPF TOP INLET MANUAL FLUSH VALVE	VITREOUS CHINA	WHITE	SLIM JET WASHDOWN FLUSH VALVE	WALL HUNG	17"	HIGH EFFICIENCY, 0.5 GPF, WITH INTEGRAL TRAP, WASHOUT
LAVATORIES								
L-1	WALL HUNG LAVATORY	WALL HUNG LAVATORY WITH INTEGRAL OVERFLOW	VITREOUS CHINA	WHITE	GENDER JET LAVATORY FAUCET SEE SCHEDULE	WALL HUNG	34"	FAUCET MOUNTED ON CONCRETE WITH BOTTOM SURFACE
FAUCETS								
F-1	GENDER JET LAVATORY FAUCET	1.5 GPM SINGLE HANDLE LAVATORY FAUCET WITH SPOUT AND HANDLE	STAINLESS STEEL	CHROME	---	LEVER SET	---	CONCRETE BODY WITH WITH HANDLE MEETS ADA AND ANSI A117.1 STANDARDS
TOILET ACCESSORIES								
A-1	NOT USED							
A-2	TOILET PAPER	SURFACE MOUNTED STAINLESS STEEL DOUBLE ROLL TISSUE DISPENSER	STAINLESS STEEL	SATIN	---	WALL MOUNT	19" AFF	TYPE TWO PER STALL, STAINLESS STEEL TWIN ROLL DISPENSER WITH HOOD
A-3	HAND DRYER (ELECTRIC)	AUTOMATIC HAND DRYER	THERMOPLASTIC WITH STAINLESS STEEL	WHITE/SATIN STAINLESS STEEL	---	WALL MOUNT	40"	
A-4	TOILET PAPER DISPENSER	SCREEN SET DOUBLE ROLL TOILET TISSUE DISPENSER	THERMOPLASTIC WITH STAINLESS STEEL	WHITE/SATIN	---	WALL PARTITION	19" AFF/ SEE ELEV.	
A-5	SOAP DISPENSER (ADA)	STAINLESS STEEL SOAP DISPENSER WITH SATIN FINISH	THERMOPLASTIC WITH STAINLESS STEEL	WHITE/SATIN	---	WALL PARTITION	42" MAX. SEE ELEV.	
A-6	SOAP DISPENSER	STAINLESS STEEL SOAP DISPENSER WITH SATIN FINISH	THERMOPLASTIC WITH STAINLESS STEEL	WHITE/SATIN	---	WALL PARTITION	42" MAX. SEE ELEV.	
A-7	SOAP DISPENSER	STAINLESS STEEL SOAP DISPENSER WITH SATIN FINISH	THERMOPLASTIC WITH STAINLESS STEEL	WHITE/SATIN	---	WALL PARTITION	42" MAX. SEE ELEV.	
A-8	[illegible]	[illegible]	THERMOPLASTIC WITH STAINLESS STEEL	WHITE/SATIN	---	WALL MOUNT	40" TO PUSH BUTTON	
TOILET COMPARTMENTS								
TC-1	TOILET PARTITION	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

BATHROOM FIXTURES & ACCESSORIES SCHEDULE

ITEM	DESCRIPTION	MODEL	COMMENTS
1	TOILET (ADA COMPLIANCE)	[illegible]	CERAMIC WHITE
2	SINK	[illegible]	STAINLESS STEEL UNDERMOUNT COUNTER TOP
3	FAUCET	[illegible]	ADA PUSH BUTTON TYPE
4	SOAP DISPENSER	[illegible]	PUSH BUTTON TYPE
5	TOILET PAPER DISPENSER	[illegible]	STAINLESS STEEL (WITH SCREEN)
6	PAPER TOWEL DISPENSER	[illegible]	STAINLESS STEEL (WITH SCREEN)
7	[illegible]	[illegible]	STAINLESS STEEL (WITH SCREEN)
8	[illegible]	[illegible]	STAINLESS STEEL (WITH SCREEN)
9	[illegible]	[illegible]	STAINLESS STEEL (WITH SCREEN)
10	[illegible]	[illegible]	STAINLESS STEEL (WITH SCREEN)
11	[illegible]	[illegible]	WHITE CERAMIC
12	[illegible]	[illegible]	BY MANUFACTURER
13	[illegible]	[illegible]	BY MANUFACTURER

NOTE: ALL BATHROOMS WILL BE FLUSH MOUNTED INSTALLED ON THE BACK OF THE DOOR. EXHIBIT IN DETAIL MODEL.

DO NOT SCALE DRAWING AND /OR PHOTOS.
ALL MEASUREMENTS ARE APROXIMATE.

Yamil Duran Serrano
Ingeniero Licenciado
Lic. 26544 PE
Puerto Rico
Fecha de Expiración: 2024-12-31

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TYPICAL BATHROOM DETAILS & FIXTURES

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