#### PUERTO RICO PORTS AUTHORITY

## X63 REGIONAL AIRPORT / HURRICANE MARIA DISASTER RELIEF (DR-4339-PR) PROJECT #85447 / MPPA057 HUMACAO REGIONAL AIRPORT DR. HERMENEGILDO ORTIZ QUIÑONEZ AIRPORT, HUMACAO, PR

**BID NO. 1-56** 

### ADDENDUM NO. 2

### TO ALL BIDDERS:

This addendum forms part of the Project Manual for Bid No. 1-56. Acknowledge receipt of this Addendum in the space provided on the bid proposal form. Failure to do so may subject Bidder to disqualification.

### A. GENERAL

- Enclosed find a copy of the Letter from LOA Ingenieros CSP, the architectural and engineering contractor for this project, with revisions to the bid drawings set (Bid 1-56). These revisions are dated October 10, 2025, for the Humacao Regional Airport project, Dr. Hermenegildo Ortiz Quiñonez (X63), Humacao, PR. See Attachment 1.
- 2. The above-mentioned letter includes six (6) drawing sheets that are part of this Addendum. See Attachment 2.

### **END OF ADDENDUM NO. 2**

Romel Pedraza, PE Assistant Executive Director Planning, Engineering, Construction & Environmental Affairs

October 15, 2025 San Juan, PR

## **ADDENDUM NO. 2**

**Attachment 1** 



October 10, 2025

Mr. Romel Pedraza-Claudio, PE
Assistant Executive Director for
Planning, Engineering and Construction
Attention: Mr. Roberto Rivera Medina
Engineering Bureau
Puerto Rico Ports Authority
64 Lindbergh Street
San Juan, Puerto Rico 00907

200400087

PUERTO RICO PORTS AUTHORITY (000-UEYUL-00)
ARCHITECTURAL AND ENGINEERING DESIGN SERVICES
HURRICANE MARÍA DISASTER RECOVERY-SECTOR 7

RE: PROJECT #85447/MPPA057-HUMACAO REGIONAL AIRPORT (HUC) REVISION TO BID SET OF PLANS

Dear Mr. Rivera:

The plans in Attachment A have been revised as to October 10, 2025. Please download by clicking on the sheet name/number and forward to proposers as appropriate.

Should you have any questions or need further information, you may me contact me at lortiz@loaingenieros.com or mobile 787-382-7782.

Cordially,

Ladislao Ortiz, Jr., PE LOA Ingenieros, CSP

LO/JL

Enclosures (2)

c: E. Miranda-Gvelop W. Amaro-Gvelop

# PUERTO RICO PORTS AUTHORITY (000-UEYUL-00) ARCHITECTURAL AND ENGINEERING DESIGN SERVICES HURRICANE MARÍA DISASTER RECOVERY-SECTOR 7 PROJECT #85447/MPPA057-HUMACAO REGIONAL AIRPORT (HUC)

### ATTACHMENT A-REVISION TO BID SET OF PLANS (10-OCT-2025)

SH	IEET TITLE	SHEET NO.
1.	Index Sheet	<u>GR-002</u>
2.	Demolition Plan	<u>C-006</u>
3.	Site Plumbing Plan	<u>C-010</u>
4.	Mechanical Floor Plan, Notes, Details and Schedules	<u>M-1</u>
5.	Plumbing Floor Plan	<u>P-1</u>
6.	Plumbing Notes, Details and Schedules	<u>P-2</u>



### **END OF DOCUMENT**

Project #85447/MPPA057-Humacao Regional Airport (HUC)

## **ADDENDUM NO. 2**

**Attachment 2** 

2A-1.1

2A-1.2

2A-2.1

2A-3.1

3A-1.1

3A-2.1

4A-1.1

4A-2.1

ENGINEER:

LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP 334 AVE. AMERICO MIRANDA, SAN JUAN, PUERTO RICO 00927-0122 T: 787.767.7337 F: 787.767.7636



SBM'T:		
XXXXXXXX	DATE	
CHIEF OF STUDIES AND DESIGNS		
RCM'D:		
ROMEL PEDRAZA, PE	DATE	
ASST. EXEC. DIR. ENG., CONST. & PLAN		
A DDID		
APP'D:		
NORBERTO J. NEGRÓN, ESQ.	DATE	
EXECUTIVE DIRECTOR		

NO.	DATE	ISSUE DESCRIPTION	BY	
$\Lambda$	05-SEP-25	ISSUE FOR BID	L.O.	
2	10-OCT-25	BID 1-56/REVISED AS SHOWN	L.O.	

HANGAR 2 - FLOOR PLAN

HANGAR 2 - ROOF PLAN

HANGAR 3 - FLOOR PLAN

HANGAR 4 - FLOOR PLAN

HANGAR 2 - EXTERIOR ELEVATIONS

& WINDOW TYPES & SCHEDULES

HANGAR 3 - EXTERIOR ELEVATIONS

HANGAR 4 - EXTERIOR ELEVATIONS

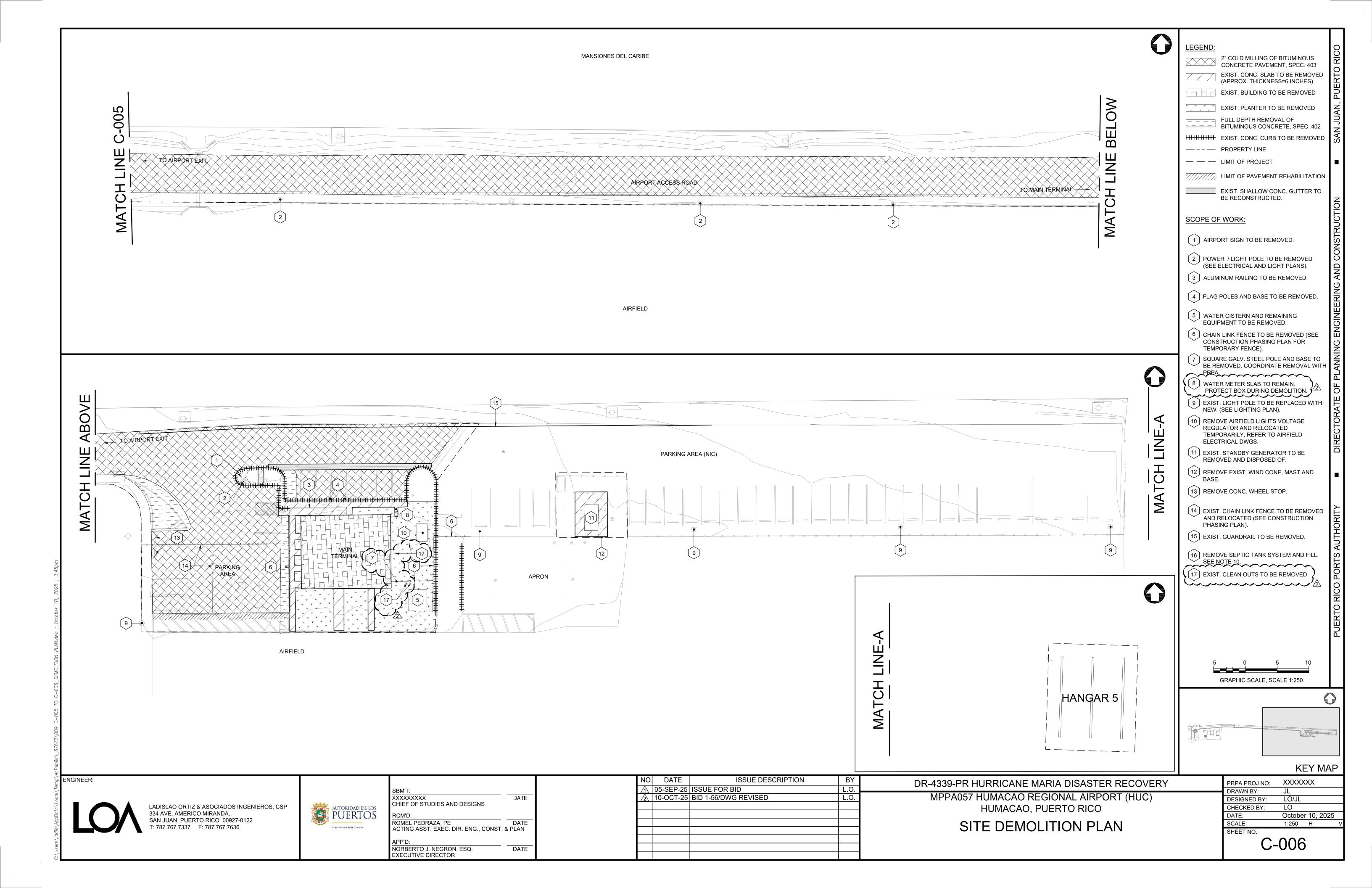
HANGAR 2 - GENERAL SECTIONS AND DOOR

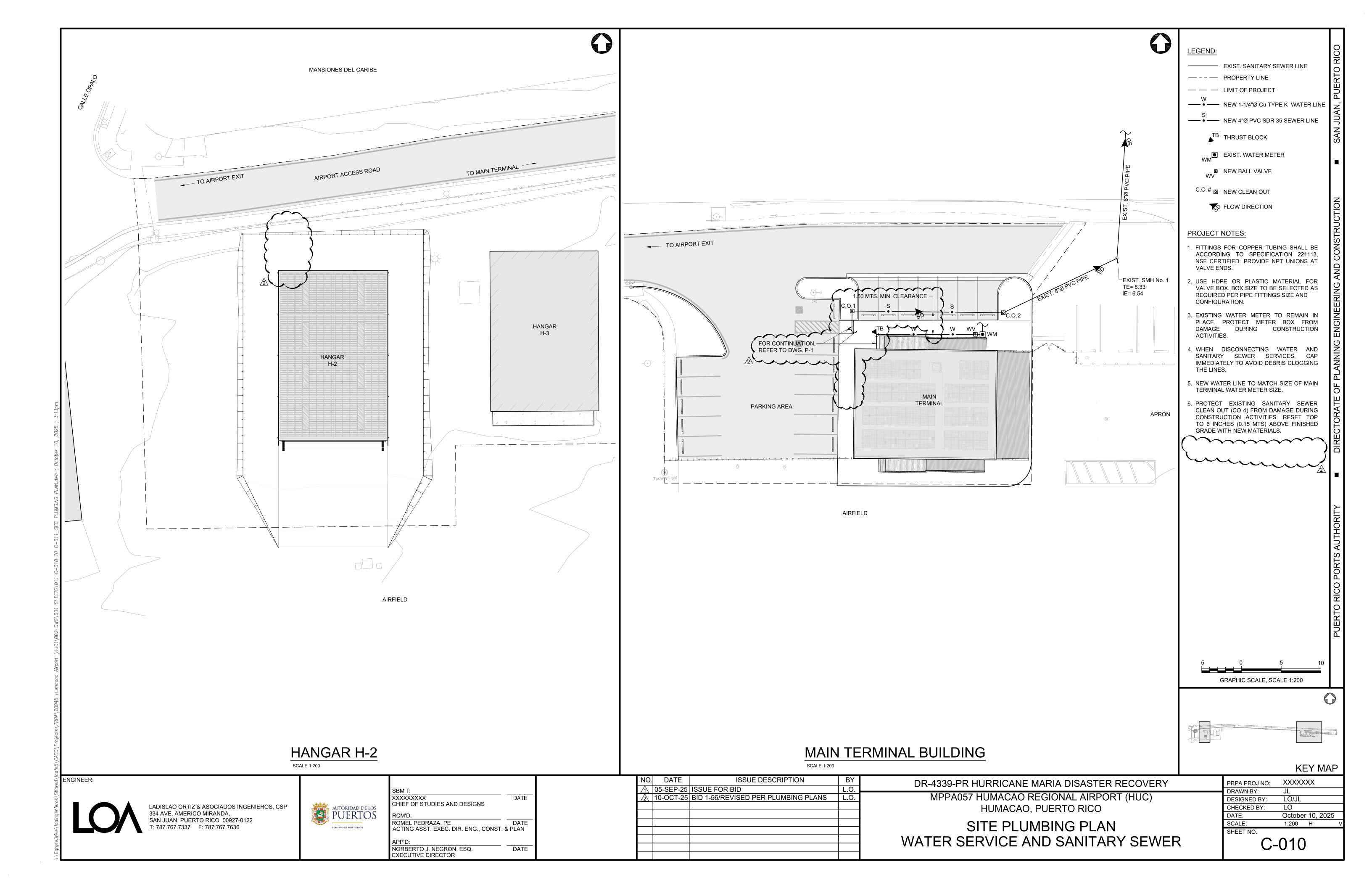
DR-4339-PR HURRICANE MARIA DISASTER RECOVERY MPPA057 HUMACAO REGIONAL AIRPORT (HUC) HUMACAO, PUERTO RICO

**INDEX SHEET** 

PRPA PROJ NO:	XXXXXX
DRAWN BY:	J. LOPEZ
DESIGNED BY:	L. ORTIZ
CHECKED BY:	L. ORTIZ
DATE:	October 10, 2025
SCALE:	NTS H
SHEET NO.	

GR-002





PRPA PROJ NO: DRAWN BY: DESIGNED BY: CHECKED BY: DATE

1. IT IS THE INTENTION OF DRAWINGS TO CALL FOR FINISHED WORK, COMPLETED, TESTED AND READY FOR OPERATION. MINOR DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND FOR FUNCTIONING AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE DONE BY THE CONTRACTOR. 2. MECHANICAL PLANS SHALL BE COORDINATED WITH THE STRUCTURAL PLANS AND ALL OTHER PERTINENT DATA.

OTHER PERTINENT DATA.

3. ALL HVAC DUCTWORK TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE DUCT CONSTRUCTION STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONALS ASSOCIATION, INC. (SMACNA) FOR THE APPLICABLE PRESSURE CLASS. 4. DUCTWORK MATERIAL, PRESSURE CLASS AND INSULATION AS PER DUCT CONSTRUCTION AND INSULATION SCHEDULE IN THIS DRAWING. 5. DUCTWORK LEAKAGE TEST TO BE PERFORMED AS PER SMACNA STANDARDS AND

6. DUCTS SHALL BE SEALED BY MEANS OF AN APPROVED DUCT SYSTEM SEALANT AS MANUFACTURED BY UNITED Mc GILL CORP. THE CONTRACTOR SHALL SUBMIT SEALANT 7. DUCT HANGERS AND SUPPORTS TO BE MADE AS PER SMACNA RECOMMENDATIONS. FOR TYPE OF DUCT CONSTRUCTION.

8. ALL SQUARE ELBOWS TO BE FITTED WITH DOUBLE THICKNESS MULTIPLE VANES.

TEST RESULTS TO MEET ALLOWED LEAKAGE LEVELS FOR THE APPLICABLE PRESSURE CLASS.

9. COOLING COIL CONDENSATE DRIP PIPING MATERIAL: SHALL BE TYPE "M" COPPER OR SCH. 40 PVC 10. CONTRACTOR TO PROVIDE SUITABLE VIBRATION ISOLATORS FOR THE SYSTEM AS REQUIRED OR AS RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT. PRECAUTIONS MUST TO BE TAKEN IN ORDER TO MINIMIZE EQUIPMENT NOISE

11. CANVAS FLEXIBLE CONNECTIONS SHALL BE SECURELY FASTENED TO DUCTS AND EQUIPMENT. CANVAS CONNECTIONS SHALL BE AIRTIGHT AT INDICATED PRESSURE CLASS. 12. EXACT AHU'S OPENINGS SHALL BE VERIFIED WITH MANUFACTURER SHOP DRAWINGS PRIOR TO DUCTWORK INSTALLATION.

13. FLEXIBLE METALLIC DUCT TO BE RUGGED ALL METAL CONSTRUCTION, SEMI-RIGID, MUST COMPLY WITH NFPA 90A & 90B AND MUST BE RATED TO A MINIMUM OF -.75" wg. THE DUCT SECTION ABOVE HUNG CEILING MUST BE INSULATED ACCORDING

14. CONTINUE REFRIGERANT LINES UP TO CONDENSING UNIT AT ROOF. PASS REFRIGERANT LINES THROUGH PIPE SLEEVE OPENING. SEAL OUTSIDE OPENING WITH URETHANE FOAM CAP.

1. ALL INSULATION REQUIRED FOR THE WORK TO BE NEW, OF THE FIRST - CLASS QUALITY AND SHALL BE, DELIVERED ERECTED AND FINISHED IN EVERY DETAIL.

2. ALL INSULATION AND SUPPLEMENTARY MATERIAL TO HAVE A COMPOSITE FIRE HAZARD RATING, AS TESTED BY ASTM E-84, NFPA 255, OR UL 723, OF A MAXIMUM FLAME SPREAD INDEX OF 25 AND A MAXIMUM SMOKE DEVELOPED INDEX OF 50. 3. INSTALL DUCT INSULATION WITH TYPE OF MATERIAL AND THICKNESS AS SHOWN ON THE

DUCT CONSTRUCTION AND INSULATION SCHEDULE ON THIS DRAWING.

4. INSULATION SHALL NOT BE APPLIED UNTIL ALL SURFACES ARE CLEAN AND DRY. 5. COOLING COIL DRIP PIPING INSULATION MATERIAL SHALL BE 1/2" THICK FLEXIBLE ELASTOMERIC CELLULAR INSULATION (K MAX @ 75F = 0.30 BTU \* INCH/H \* SQ. FT \* F).

ENVELOPE CONSTRUCTION PROPERTIES INTERNATIONAL ENERGY CONSERVATION CODE (IECC-2018) **DESCRIPTION** WALLS - MANSONRY (ALL) U = 0.58 / R = N.R.WALLS - METAL BLDG. (ALL) U = 0.078 / R = 13 Min.WALLS - STEEL FRAME (ALL) U = 0.078 / R = 13 Min.ROOF U = 0.048 / R = 20 Min.WINDOWS WALLS - NONMETAL FRAME U = 1.20 Max.SC = 0.29 / SGHF = 0.25 Max.WALLS - METAL FRAME U = 1.20 Max.SC = 0.29 / SGHF = 0.25 Max.SC = SHADDING COEFFICIENT N/A = NOT APPLICABLE

SHGF = SOLAR HEAT GAIN FACTOR N.R. = NOT REQUIRED

VALUES DIFFERING FROM SHOWN WILL REQUIRE REVISION OF AIR CONDITIONING LOADS.

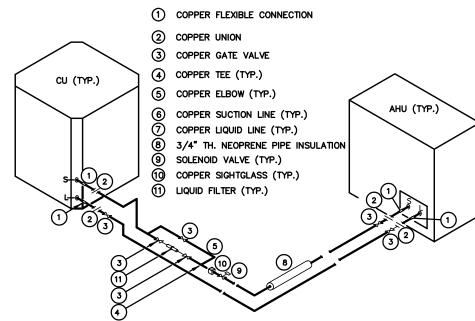
FITTING DESCRIPTIONS

MSU-1 & MSCU-1 | STAF LOUNGE | 12,000 | AR15DXFAMWKNCV | AR15DXFAMWKNCV | 21.5 | 16 | 25 | R-32 | 208-230/1/60 | SAMSUNG | NOTE 1

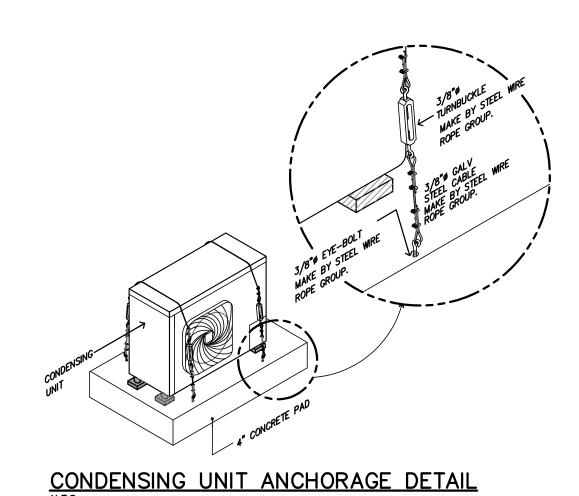
MIN. SEER MCA FUSE REFRRIGERANT ELECTRICAL MANUFACTURER REMARKS

MIN-SPLIT UNIT SCHEDULE

1. APPLY COMPRESSORS, CONDENSER COILS WITH CORROSION PROTECTION.



REFRIGERANT LINES CONNECTION DETAIL



AIR CONDITIONING - DETAILS & SCHEDULES

AIR CONDITIONING - FLOOR PLAN
SCALE: 1/4" = 1'-0"

- REFRIGERANT

STORAGE

FAM. B/R

WAITING AREA

RESTROOM

MNGR. OFFICE

FJM Engineering, psc

Consulting Engineers

To, Francisco J. Maté, ingeniero, licencia #13947, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del reglamento conjunto y las disposiciones aplicables del los reglamentos y códigos de las agencias, juntas reglamentadoras o corporaciones públicas con jurisdicción. certifico, ademas, que en la preparacion de estos planos y especificaciones se ha cumplido cabalmente con lo dispusto en la ley num. 14 de 8 de enero de 2004, segun enmendada, conocida Son Claudio St., STE 1, PMB 367, San Juan, PR 00926-4144
Tel: (787) 722-4641 / Cel: (787) 632-1494
E-mail: FMate@fjm-eng.com

Tel: (787) 722-4641 / Cel: (787) 632-1494

E-mail: FMate@fjm-eng.com



SBM'T:	
XXXXXXXXX CHIEF OF STUDIES AND DESIGNS	DATE
RCM'D:	
ROMEL PEDRAZA, PE ASST. EXEC. DIR. ENG., CONST. & PLAN	DATE
APP'D:	
NORBERTO J. NEGRÓN DÍAZ, ESQ.	DATE

LIC. #13947
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W R/R

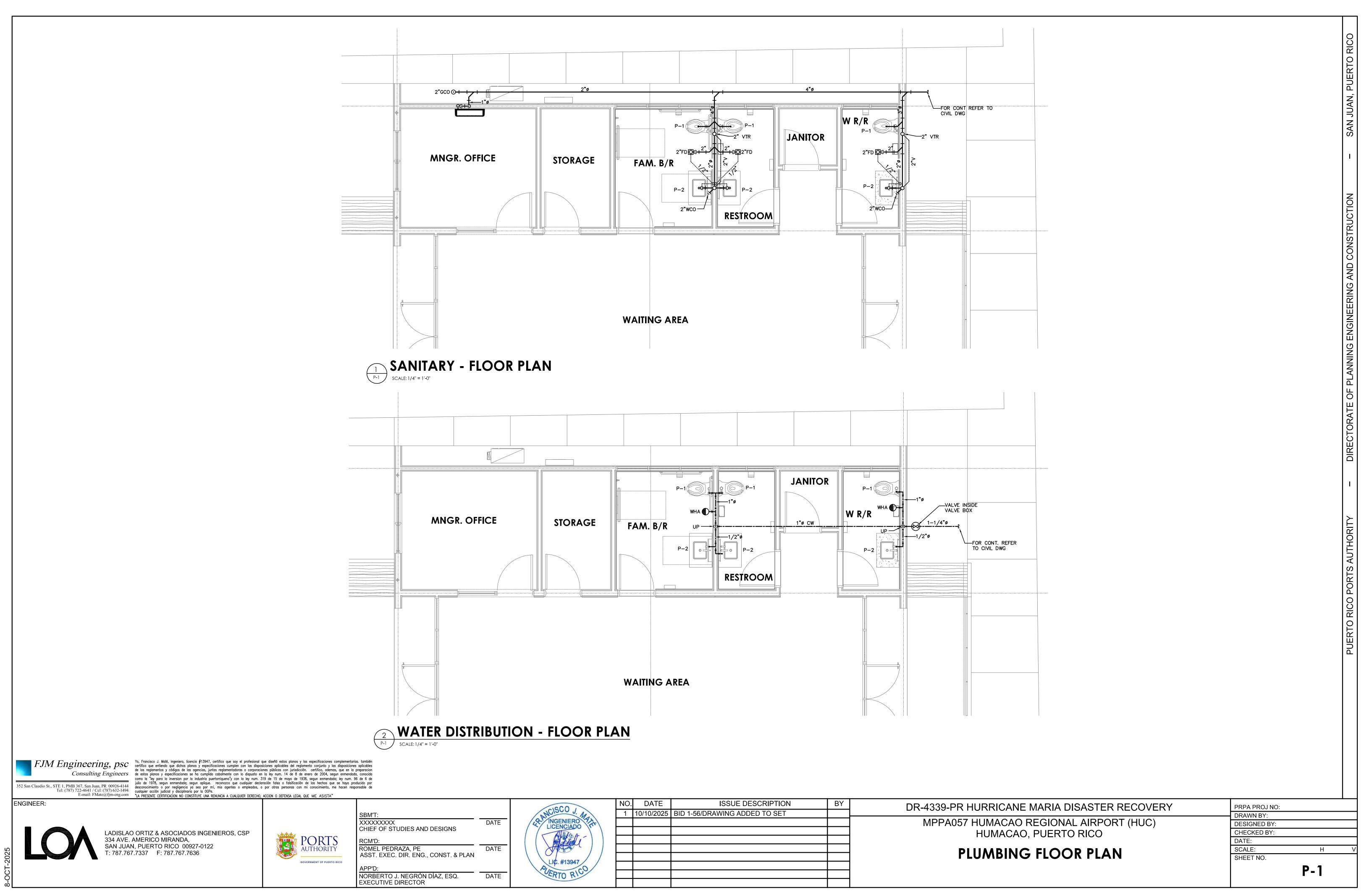
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LI¢. #13947				
PUERTO BICO				
W10 K				

DR-4339-PR HURRICANE MARIA DISASTER RECOVERY MPPA057 HUMACAO REGIONAL AIRPORT (HUC) HUMACAO, PUERTO RICO

MECHANICAL FLOOR PLAN, NOTES DETAILS AND **SCHEDULES** 

SCALE: M-1

ENGINEER:



## PLUMBING NOTES:

- 1. THESE NOTES AS WELL AS THE LEGEND AND DETAILS APPLIES TO ALL PLUMBING WORK.
- 2 WATER PIPING BELOW GRADE TO BE TYPE "K" COPPER AND WATER PIPING ABOVE GRADE TO BE TYPE "L" HARD DRAWN COPPER. SIZE IS 1/2" OR AS INDICATED DRAWINGS.
- 3. SOLDER USED IN ANY POTABE OR DOMESTIC WATER SYSTEM MUST BE LEAD-FREE.
- 4. ALL WATER SUPPLY LINES ARE TO BE SEPARATED A MINIMUM OF 1'-0" FROM SANITARY LINES.
- 5. ALL WASTE, SANITARY AND STORM DRAINAGE LINES 4" IN DIAMETER AND LARGER SHALL BE PVC SDR 35 AND SCHEDULE 40 FOR 3" AND SMALLER.
- 6. TRENCHES FOR ALL UNDERGROUND PIPES ARE TO BE EXCAVATED TO REQUIRED DEPTHS. AFTER THE PIPES HAVE BEEN TESTED, INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER, THE TRENCHES MUST BE FILLED WITH APPROVED FILL COMPACTED TO A MINIMUM OF 95% OF THE SOIL MAX. DRY UNIT WEIGHT.
- 7. ALL PIPING SHALL BE CONCEALED IN FLOOR TOPPINGS, WALL OR CHASES UNLESS OTHERWISE NOTED.
- 8. LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
- 9. CLEANOUTS IN HORIZONTAL DRAINAGE LINES SHALL BE SPACED AT INTERVALS NOT EXCEEDING 75 FEET FOR PIPES 4" AND SMALLER, AND 100 FEET FOR PIPES THROGH 10" IN DIAMETER.
- 10. HORIZONTAL DRAINAGE PIPES SHAL BE INSTALLED ALIGNED AT UNIFORM SLOPES NOT LESS THAN 1/4" INCH PER FEET FOR 2-1/2-INCH DIAMETER AND LESS, AND NOT LESS THAN 1/8 INCH PER FEET FOR DIAMETERS OF 3 INCHES OR MORE.
- 11. CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS PIPES UP TO 4" DIAMETER AND NOT LESS THAN 4" FOR LARGER DIAMETERS.
- 12. FIXTURES, FITTINGS, ACCESSORIES, MATERIALS AND ALL PLUMBING PRODUCTS SHALL BE AS PER SPECIFICATIONS ON THESE DRAWINGS. EQUAL OR SIMILAR SHALL BE ONLY ACCEPTED IF PREVIOUSLY APPROVED BY THE ARCHITECT/ENGINEER.
- 13. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.
- 14. THE PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LATEST LOCAL BUILDING CODE, THE NATIONAL STANDARD PLUMBING CODE, THE HEALTH DEPARTMENT AND THE SPECIFICATIONS ISSUED FOR THE PROJECT.
- 15. SIZES SHOWN IN FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY TO COMPLY WITH CODE REQUIREMENTS OR AS SHOWN ON DRAWINGS.
- 16. BEFORE STARTING CONSTRUCTION, THE PLUMBING CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATIONS OF EXISTING PIPE LINES TO REMAIN IN USE . ANY SIGNIFICANT DISCREPANCY WITH THE INFORMATION SHOWN ON THESE DRAWINGS SHALL BE NOTIFIED TO THE ARCHITECT/ENGINEER
- 17. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICES AND/OR CONNECTIONS REQUIRED FOR THE PLUMBING FIXTURES AND EQUIPMENT SHOWN ON PLANS AND FIXTURES SCHEDULE.
- 18. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY ROUGHING-IN AND INSTALL THE PLUMBING FIXTURES AS INDICATED ON THESE DRAWINGS.
- 19. THE PROPOSED WATER DISTRIBUTION SYSTEM MUST BE TESTED TO A HYDROSTATIC PRESSURE OF 125 PSI AND PROVED TIGHT AT THIS PRESSURE FOR FOUR CONSECUTIVE HOURS BEFORE PIPES ARE CONCEALED AND PRIOR TO ANY FIXTURE INSTALATION.
- 20. ALL WASTE AND DRAIN PIPES ARE TO BE TESTED USING WATER AND PROVED TIGHT TO THE ARCHITECT/ENGINEER BEFORE TRENCHES ARE BACKFILED, PIPES CONCEALED OR FIXTURE

PLUMBING FIXTURE SCHEDULE

DESCRIPTIONS

4472

WATER CLOSET

LAVATORY

FLOOR DRAIN

NATION

- 21. OTHER QUALIFIED MANUFACTURERS' PRODUCTS CAN BE SUBMITTED FOR APPROVAL TO THE ARCHITECT OR ENGINEER ALONG WITH A COMPARATIVE TABLE SHOWING CHARACTERISTICS OF THE SPECIFIED AND
- 22. ALL HOT WATER PIPING SHALL BE INSULATION SHALL BE 1/2" THICK CLOSED CELL FLEXIBLE ELASTOMERIC THERMAL INSULATION (K=0.25 BTU\*in/h\*ft^2\*F @ 75F MAX). PROVIDE WEATHER-RESISTANT PROTECTIVE FINISH FOR OUTDOOR USE.

UNIT WASTE VENT

SIZE

OR SOIL

WATER SUPPLY

COLD

1/2"

1/2"

### PIPING SYMBOLS

$\Gamma \Gamma $	G STWIDULS
0+	ELBOW UP
CH	ELBOW DOWN
$\leftarrow$	VALVE IN DROP
	DIRECTION OF FLOW (SANITARY)
<del>-101-</del>	TEE PIPE DOWN
$\vdash$	SANITARY TEE
$-\!\!\bowtie\!\!-$	GATE VALVE
	WATER HAMMER ARRESTOR
• <del>(                                     </del>	P-TRAP
<b>O</b> C+-	FLOOR DRAIN W/P-TRAP

☐C+ FLOOR SINK W/P-TRAP

FLOOR DRAIN W/P-TRAP

WALL CLEANOUT PLUG

SANITARY SEWER PIPE

SANITARY VENT PIPE

COLD WATER PIPE

HOT WATER PIPE

CLEANOUT PLUG

SANITARY STACK

FREE DISCHARGE

PIPING TYPES

+→ HOSE BIBB

ON.)	DOWN
WR	COLD WATER RISER
W	COLD WATER
W	HOT WATER
.S.	SANITARY STACK
.S.	VENT STACK
D	CONDENSATE DRAIN
.L.	RAIN LEADER
_	5665 55444

**ABBREVIATIONS** 

HUNG FROM CEILING

CEILING

UNDERGROUND

WATER HEATER

(H.F.C.)

CLG

W.H.

H.B.

V.T.R.

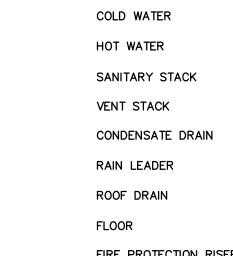
C.O.P.

FCU

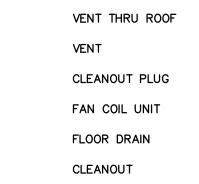
F.D.

W.H.A.

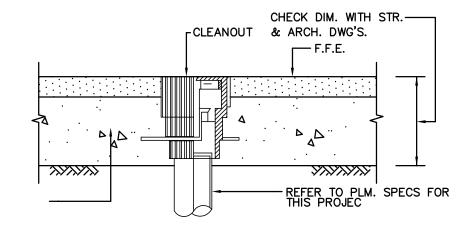
DWG.

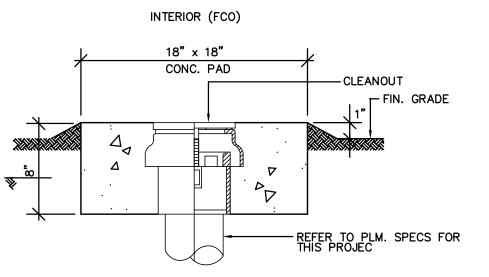


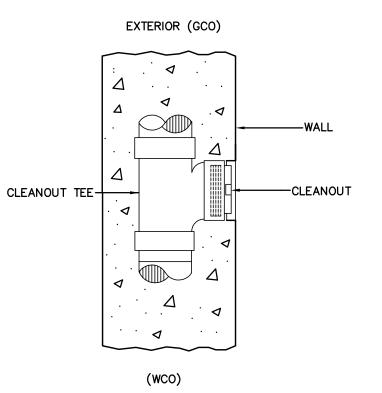




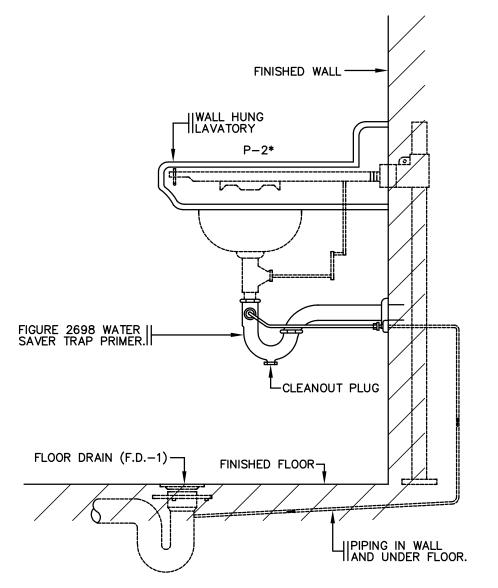
WATER HAMMER ARRESTOR DRAWING TYPICAL CONCRETE











ROOF SLAB-

-ROOF FLASHING

TO PIPE

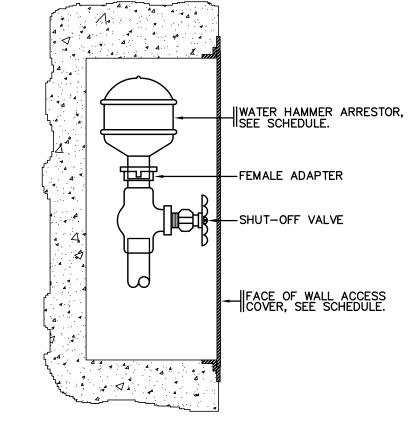
STACK VENT TERMINAL

ROOF SLAB

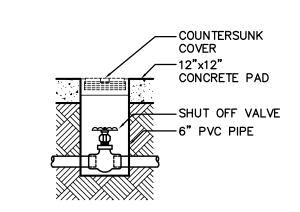
BY ROOFING

CONTRACTOR

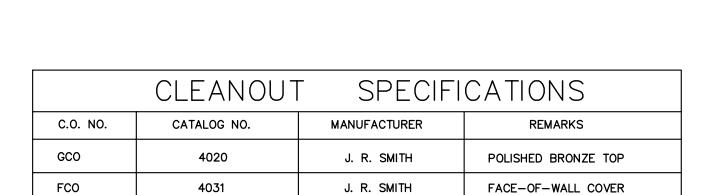




WATER HAMMER ARRESTOR
NOT TO SCALE



TYPICAL PVC VALVE BOX



J. R. SMITH

J. R. SMITH

FJM Engineering, psc

Yo, Francisco J. Maté, ingeniero, licencia #13947, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. también certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del reglamento conjunto y las disposiciones aplicables de los reglamentos y códigos de las agencias, juntas reglamentadoras o corporaciones públicas con jurisdicción. certifico, ademas, que en la preparacion Consulting Engineers de estos planos y especificaciones se ha cumplido cabalmente con lo dispusto en la ley num. 14 de 8 de enero de 2004, segun enmendada, conocido como la "ley para la inversion por la industria puertorriquena"y con la ley num. 319 de 15 de mayo de 1938, segun enmendada; ley num. 96 de 6 de julio de 1978, segun enmendada; segun aplique. reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por 352 San Claudio St., STE 1, PMB 367, San Juan, PR 00926-4144
Tel: (787) 722-4641 / Cel: (787) 632-1494
E-mail: FMate@fjm-eng.com

E-mail: FMate@fjm-eng.com

Table (2012) A presente certificacion no constitute una reconozco que cualquier decidio que cualquier que cualquier decidio que cualquier decidio que cualquier q

LESS COVER AND SCREW

LESS COVER AND SCREW

ENGINEER:



REMARKS

SEE ARCHITECTURAL DWG'S FOR SPEC'S

SEE ARCHITECTURAL DWG'S FOR SPEC'S

SIMILAR TO JAY R. SMITH Fig. 2005

SBM'T: XXXXXXXXX CHIEF OF STUDIES AND DESIGNS	DATE	W.A.W.C
RCM'D: ROMEL PEDRAZA, PE ASST. EXEC. DIR. ENG., CONST. & PLAN	DATE	
APP'D: NORBERTO J. NEGRÓN DÍAZ, ESQ. EXECUTIVE DIRECTOR	DATE	PUE

	NO.	DATE	ISSUE DESCRIPTION	BY
	1	10/10/2025	BID 1-56/DRAWING ADDED TO SET	
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DR-4339-PR HURRICANE MARIA DISASTER RECOVERY MPPA057 HUMACAO REGIONAL AIRPORT (HUC) HUMACAO, PUERTO RICO

PLUMBING NOTES, DETAILS AND SCHEDULES

	SHEET NO.	P-2	
	SCALE:	H	V
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	PRPA PROJ NO:		