

**MAYOR**

SYLVESTER TURNER

**CITY COUNCIL MEMBERS**

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TARSHA JACKSON - DISTRICT B

ABBIE KAMIN - DISTRICT C

CAROLYN EVANS-SHABAZZ - DISTRICT D

DAVID MARTIN - DISTRICT E

TIFFANY D. THOMAS - DISTRICT F

MARY NAN HUFFMAN - DISTRICT G

KARLA CISNEROS - DISTRICT H



**CONTROLLER**

CHRIS B. BROWN

**CITY COUNCIL MEMBERS**

ROBERT GALLEGOS - DISTRICT I

EDWARD POLLARD - DISTRICT J

MARTHA CASTEX-TATUM - DISTRICT K

MIKE KNOX - AT LARGE POSITION 1

DAVID ROBINSON - AT LARGE POSITION 2

MICHAEL KUBOSH - AT LARGE POSITION 3

LETITIA PLUMMER - AT LARGE POSITION 4

SALLIE ALCORN - AT LARGE POSITION 5

**HAS HOBBY AIRPORT  
RESTROOM RENOVATION  
PHASE III**

AT

**HOUSTON HOBBY AIRPORT**

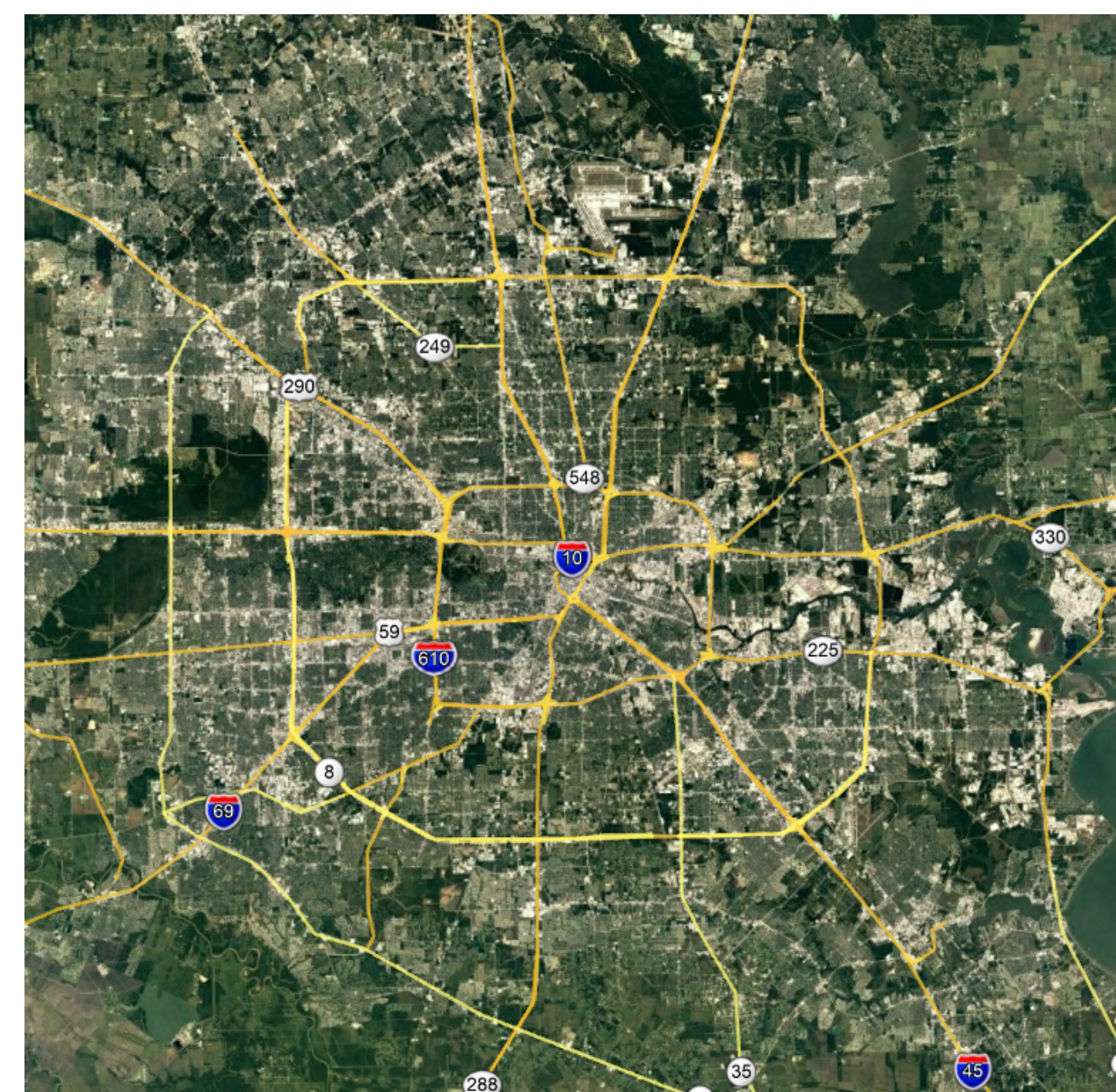
PREPARED BY

**RDLR**

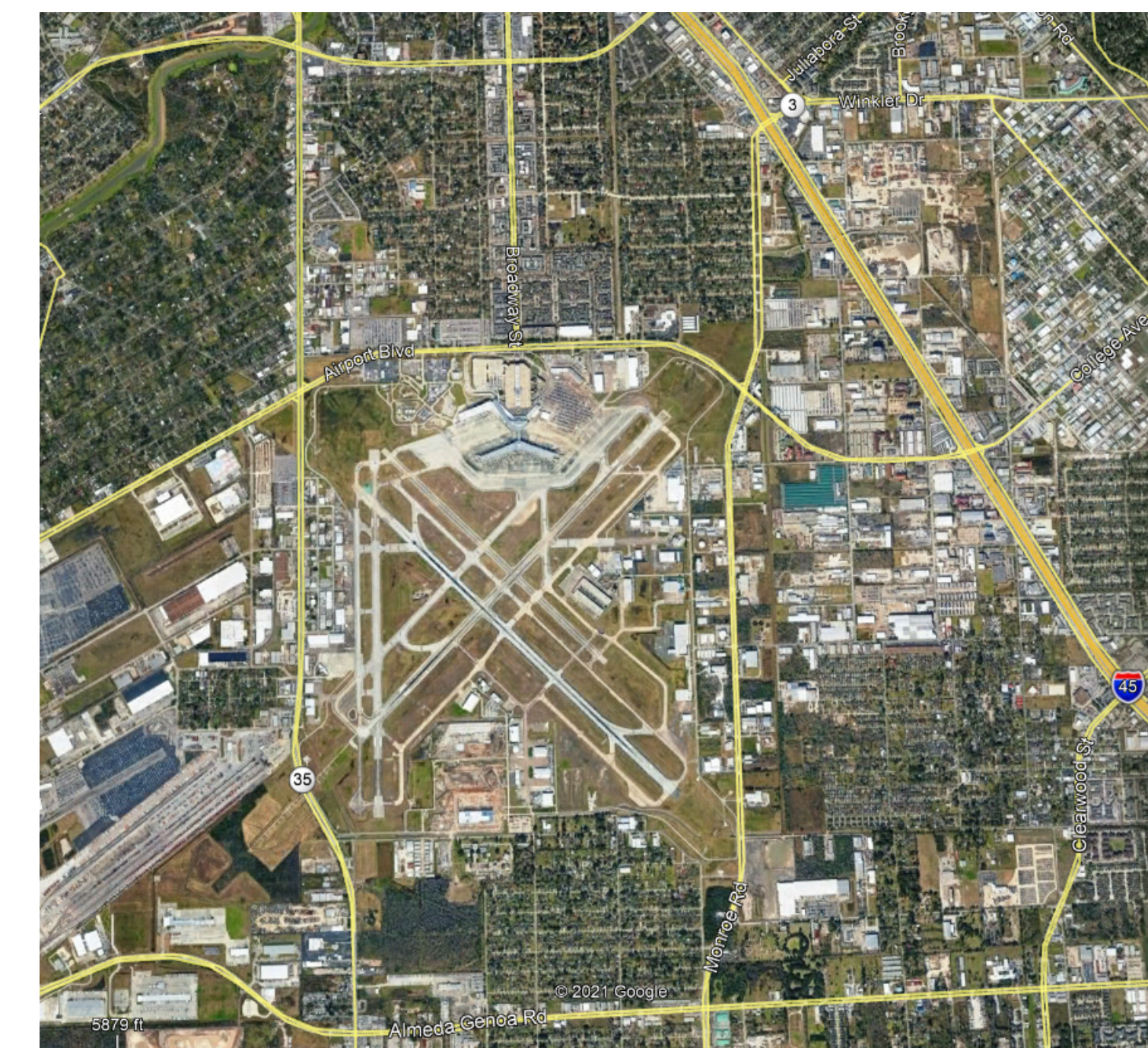
01/25/2023

**HOUSTON AIRPORT SYSTEM**

**MARIO C. DIAZ - DIRECTOR**



AREA MAP - N.T.S.



VICINITY MAP - N.T.S.



7800 Airport Blvd  
Houston, TX 77061

HAS HOBBY AIRPORT RESTROOMS  
PHASE 3

C.I.P. No. PN209B A.I.P. No.  
C.O.H. No. D.O.A. No.

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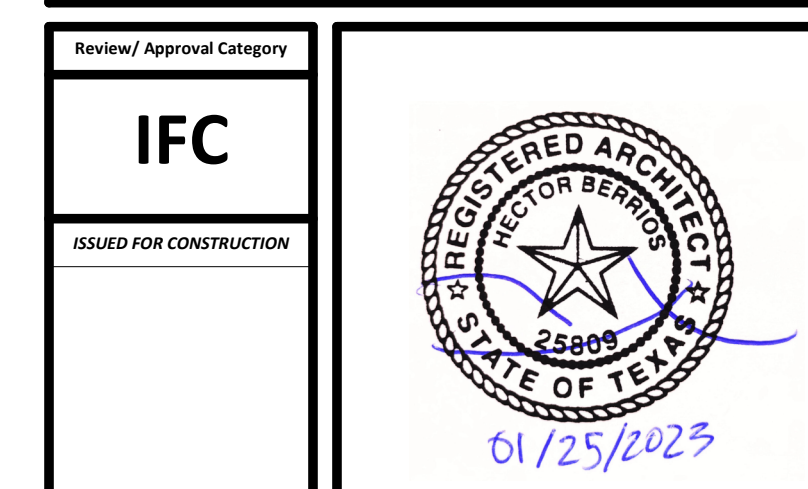
DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
2	30% CD	10.28.22	HB
3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

DESIGN BY: FF  
DRAWN BY: CT  
CHECKED BY: HB  
ISSUE DATE: 01/25/2023  
APPROVED BY: Hector Berrios  
APPROVAL DATE: 01/25/2023

DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM



SHEET NAME: COVER SHEET  
SHEET No. G-000 SCALE:  
SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/1429.15\_HOU\_Restroom\_Phase3.rvt

HAS FILE:

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No.:









A

B

C

D

E

### PARTITION TYPE NOTES

- PARTITION TYPES SCHEDULED DEFINES ASSEMBLY TYPES AND VARIATIONS WITHIN EACH TYPE REFER TO FLOOR PLANS TO DETERMINE THE LOCATION FOR EACH TYPE.
- REFER TO G-003 FOR GENERAL NOTES
- ALL GYPSUM WALLBOARD (INCLUDING CEILINGS) TO BE INSTALLED IN WET OR DAMP AREAS SUCH AS TOILETS, KITCHENS, JANITOR CLOSETS, MECHANICAL ROOMS, UNCONDITIONED SPACES, BELOW GRADE AREAS, OR ANY OTHER AREAS SUSCEPTIBLE TO MOISTURE OR DAMPNESS SHALL BE WATER RESISTANT TYPE, U.N.O.
- ALL WALLBOARD INSTALLED WHERE TILE FINISH IS SCHEDULED SHALL BE 5/8" CEMENT BACKER BOARD U.N.O.
- USE DEEP LEG DEFLECTION TRACK @ THE TOP OF ALL PARTITIONS SECURED TO UNDERSIDE OF STRUCTURE.
- AT FIRE RATED WALLS APPLY AN ADDITIONAL LAYER OF WALLBOARD ON ANY FACES RECEIVING REVEALS.
- PROVIDE ADDITIONAL METAL FRAMING AS REQUIRED TO SUPPORT GYPSUM BOARD FINISHES. IF NO SUPPORT IS INDICATED PROVIDE FRAMING ASSEMBLY THAT COMPLIES WITH MIN. DESIGN LOAD OF L/420 & 10 PSF AND 5PSF LOADING, TYPICAL FOR MECHANICAL PLENUMS AND ELEVATOR SHAFTS.
- LIMITING HEIGHTS ARE CONTRACTOR'S RESPONSIBILITY. TO BE BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) LIMITING WALL HEIGHT TABLES. ALL PARTITIONS SHALL BE BRACED AS REQUIRED TO MEET MINIMUM DEFLECTION CRITERIA.
- ALL METAL STUDS EXTEND TO STRUCTURE U.N.O. BY TYPE DESIGNATION OR SPECIFIC DETAIL.
- ALIGN EXTERIOR CORNERS AND JOINTS IN FINISHED AREAS, TYP.
- PROVIDE CONTINUOUS CAULKING AT ALL DUCT AND PIPE PENETRATIONS THROUGH WALLS IN ACCORDANCE WITH SPECIFICATIONS.
- AT CHASE WALLS PROVIDE HORIZONTAL BRACING FOR SEPARATIONS LESS THAN 9" WITH MIN. 4 1/4" METAL BRACE. AT SEPARATIONS GREATER THAN 9" PROVIDE 12" WIDE GYPSUM WALL BOARD BRACE. ALL BRACES AT 32" O.C. MIN.
- DIMENSION PLANS SHALL INDICATE PARTITION CLEAR DIMENSIONS FROM FACE OF WALLBOARD TO FACE OF WALLBOARD UNLESS NOTED OTHERWISE.

### PARTITION TYPE KEY CODE

**AS4A**

FIRST CHARACTER: PARTITION TYPE - REFERENCE DIAGRAMS THIS SHEET

- A TYPICAL CFMF STUD PARTITION
- B TYPICAL CFMF FURRING WALL FINISH ON 1 SIDE ONLY TYP
- C TYPICAL CFMF CHASE WALL PARTITION
- D TYPICAL CFMF DOUBLE WALL PARTITION
- E TYPICAL CFMF SINGLE SIDED PARTITION AT EXTERIOR
- M TYPICAL CMU WALL PARTITION
- P TYPICAL CFMF "PONY" WALL (FINISH WRAPS TOP OF WALL)
- S SPECIALTY FRAMED PARTITION - REFER TO DETAILS
- W WOOD FRAMED PARTITION - DIMENSIONAL LUMBER

SECOND CHARACTER GROUP: SPECIALTY CHARACTERISTIC (IF APPLICABLE)

- NO CHARACTER SIGNIFIES STANDARD PARTITION TYPE
- [ GWB FINISH TERMINATES 6" ABOVE CEILING - DOES NOT EXTEND TO STRUCTURE. BRACE AS REQUIRED
- [ S SOUND ATTENUATING PARTITION WITH STC RATING
- [ STC RATING IS NOTED BELOW DETAIL
- X 1 HR FIRE RATED PARTITION ASSEMBLY WITH UL LISTING
- UL DESIGNATION IS NOTED BELOW DETAIL
- 2X 2 HR FIRE RATED PARTITION ASSEMBLY WITH UL LISTING
- UL DESIGNATION IS NOTED BELOW DETAIL
- 3X (.ETC)

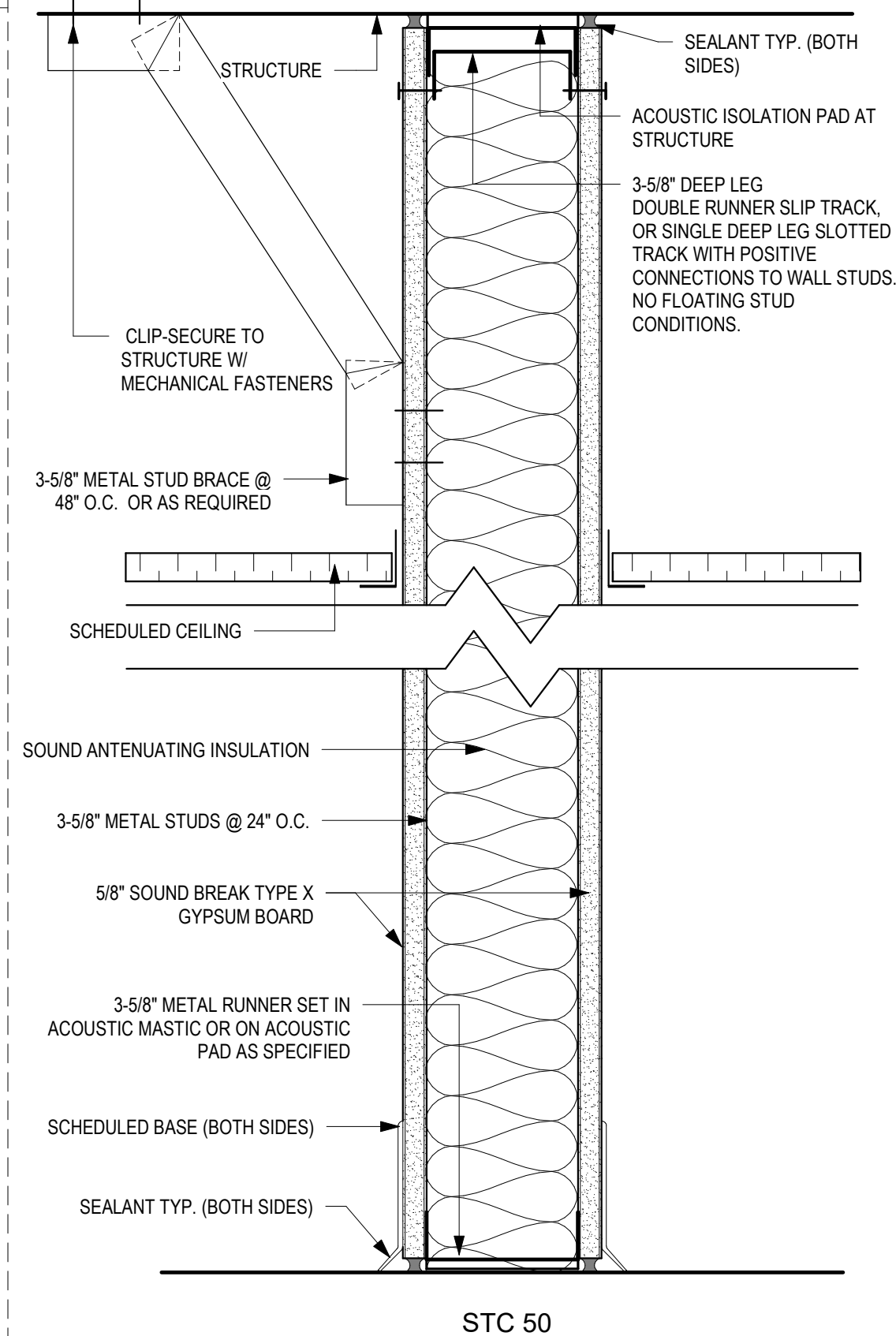
THIRD CHARACTER: STUD THICKNESS AS FOLLOWS (REFER TO PLAN):

- 0 7/8" METAL FURRING CHANNEL
- 1 1-5/8" METAL STUD OR 1-1/2" FURRING CHANNEL
- 2 2-1/2" METAL STUD OR FURRING CHANNEL
- 4 3-5/8" METAL STUD OR 4" CMU
- 6 6" METAL STUD
- 8 8" METAL STUD OR 8" CMU

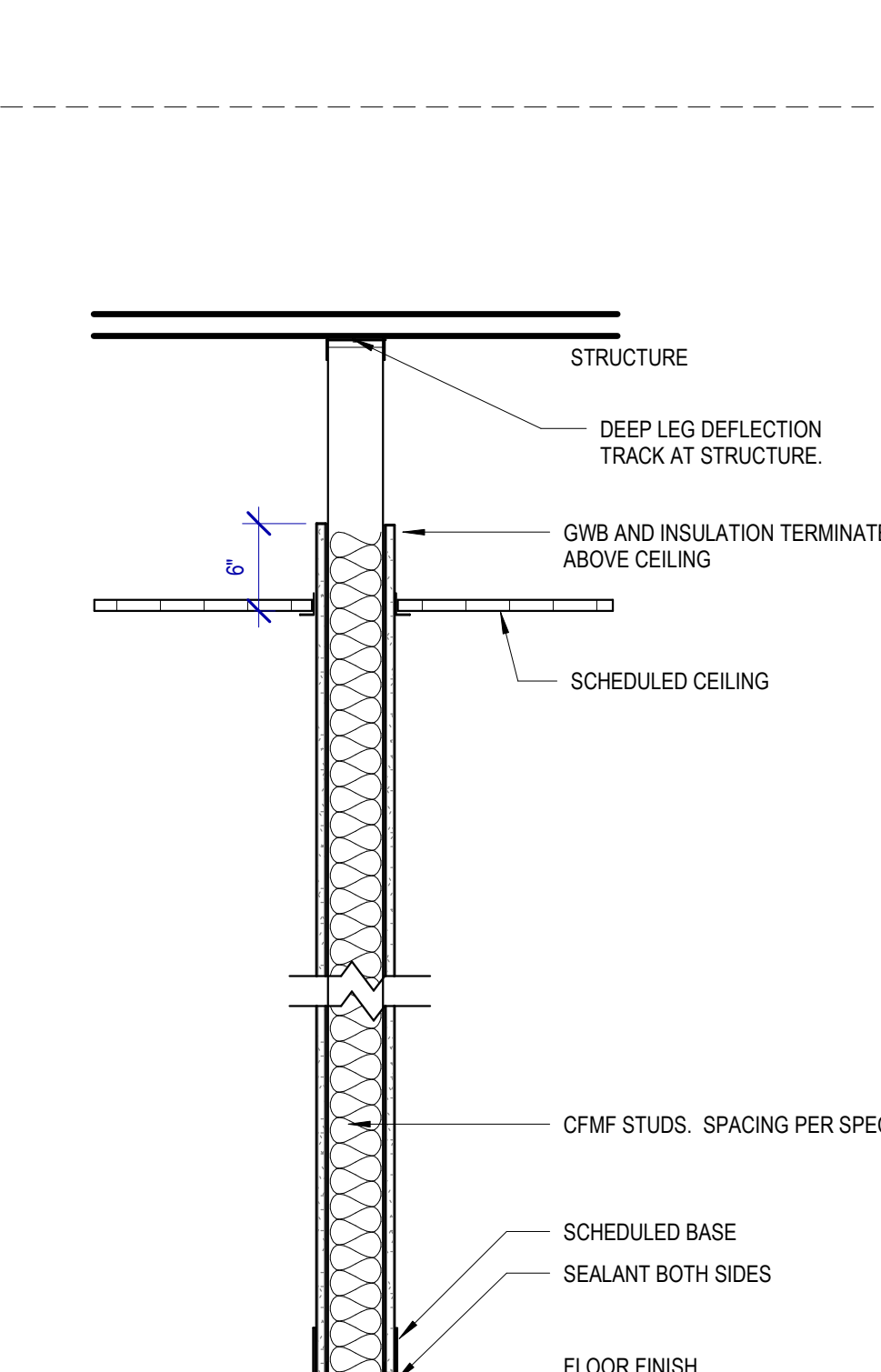
FOURTH CHARACTER: PARTITION INSULATION SCHEDULE (REFER TO PLAN):

- I STANDARD FIBERGLASS BATTS TO FILL STUD CAVITY
- S SPECIALTY SOUND ATTENUATING INSULATION TO FILL CAVITY
- F SPRAY FOAM INSULATION TO FILL CAVITY
- R THERMAL RIGID FOAM INSULATION
- T THERMAL FIBER-GLASS INSULATION TO FILL CAVITY
- NO CHARACTER INDICATES NO INSULATION USED

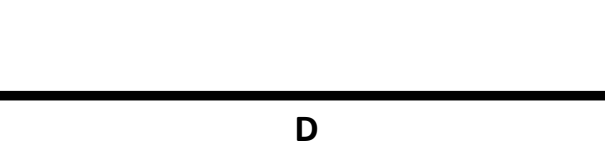
### GRAPHIC EXAMPLE: PARTITION TYPE AS4S



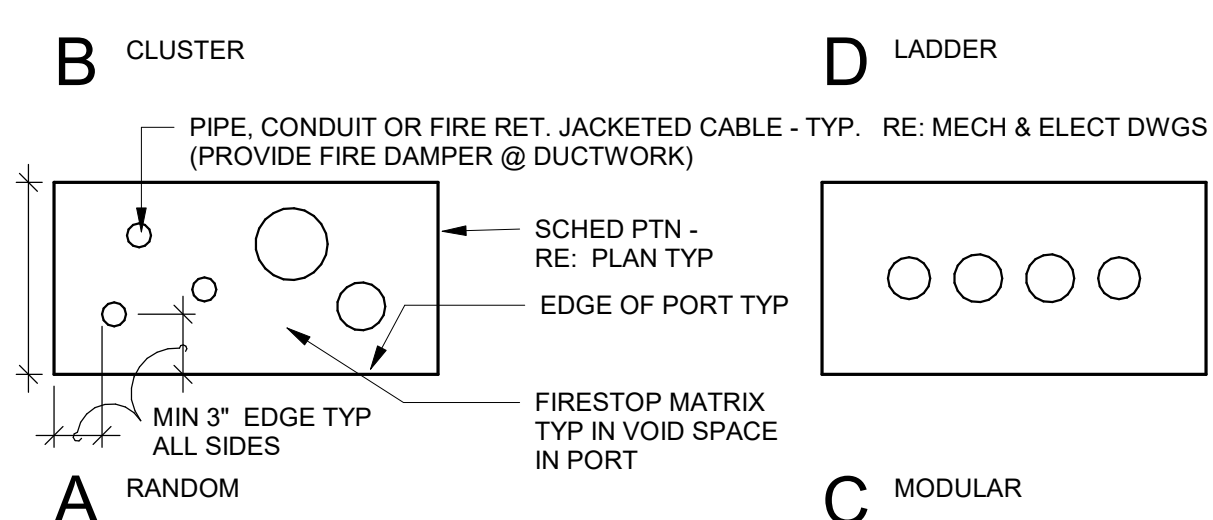
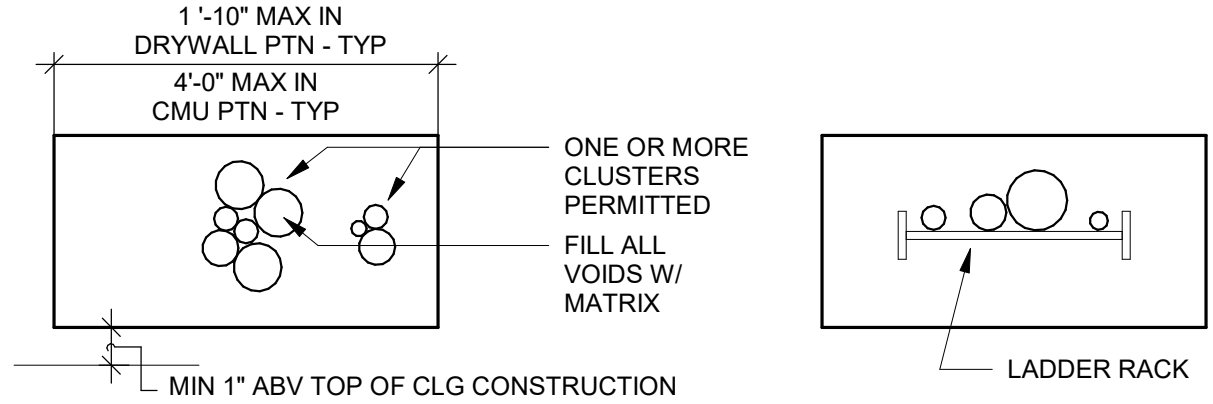
### B PARTITION TYPE B - SINGLE SIDED



### AL PARTITION TYPE AL

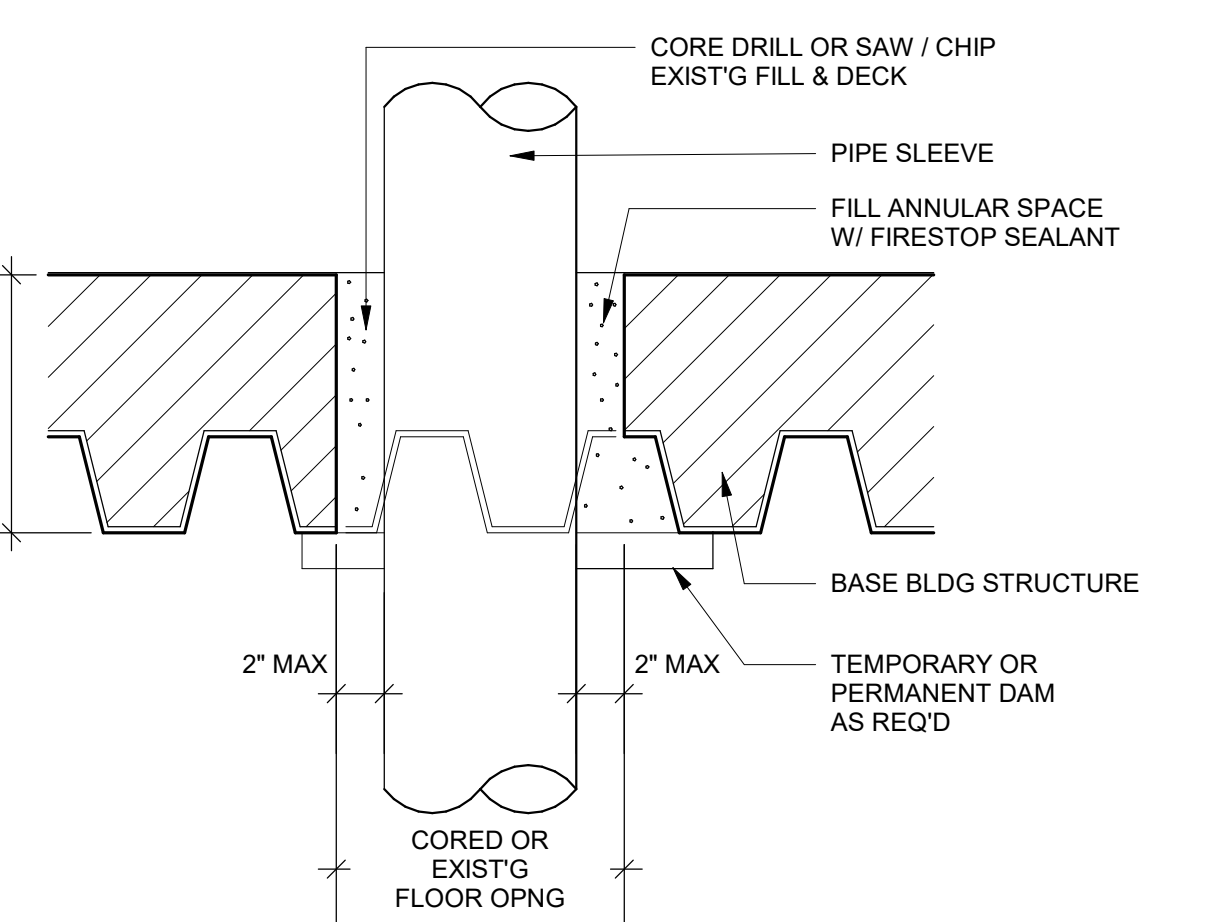


### A PARTITION TYPE A



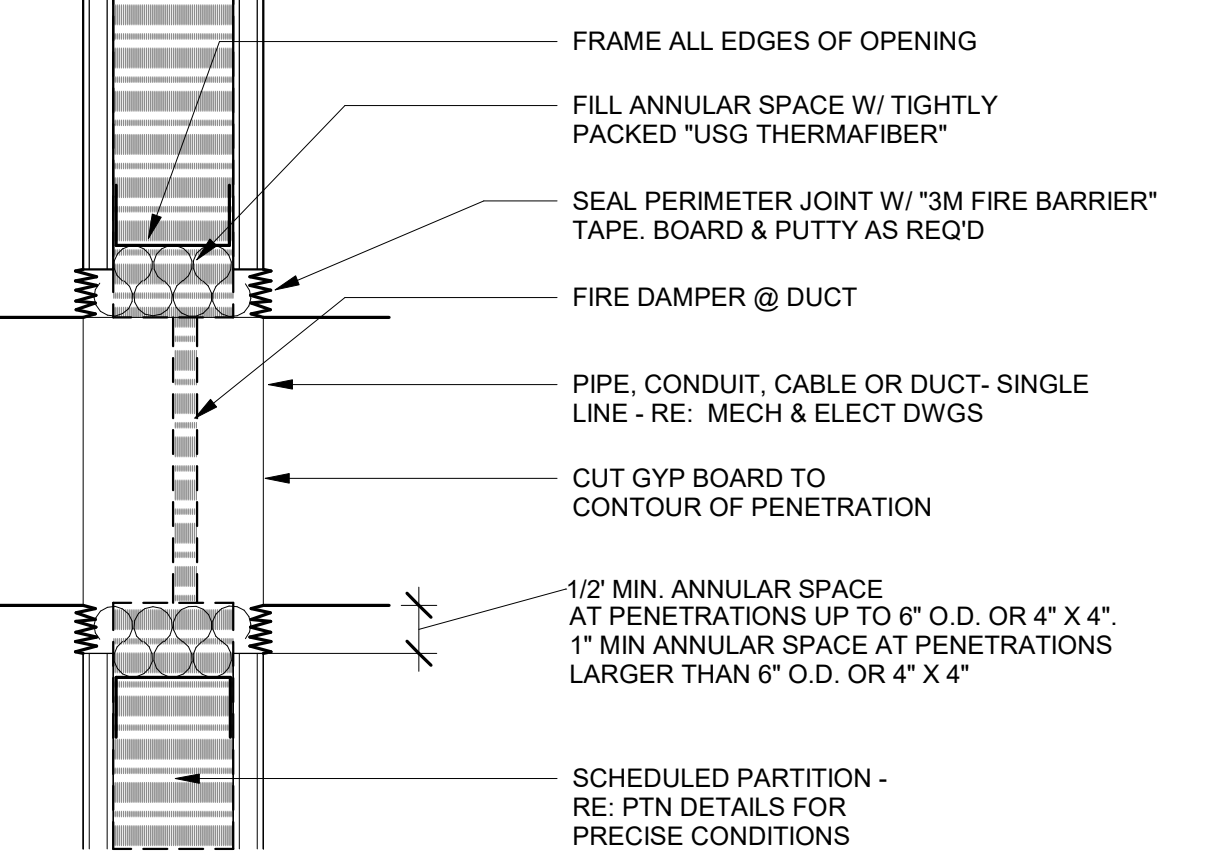
### 1 FIRESAFING DETAIL CONDUIT

SCALE: 3" = 1'-0"



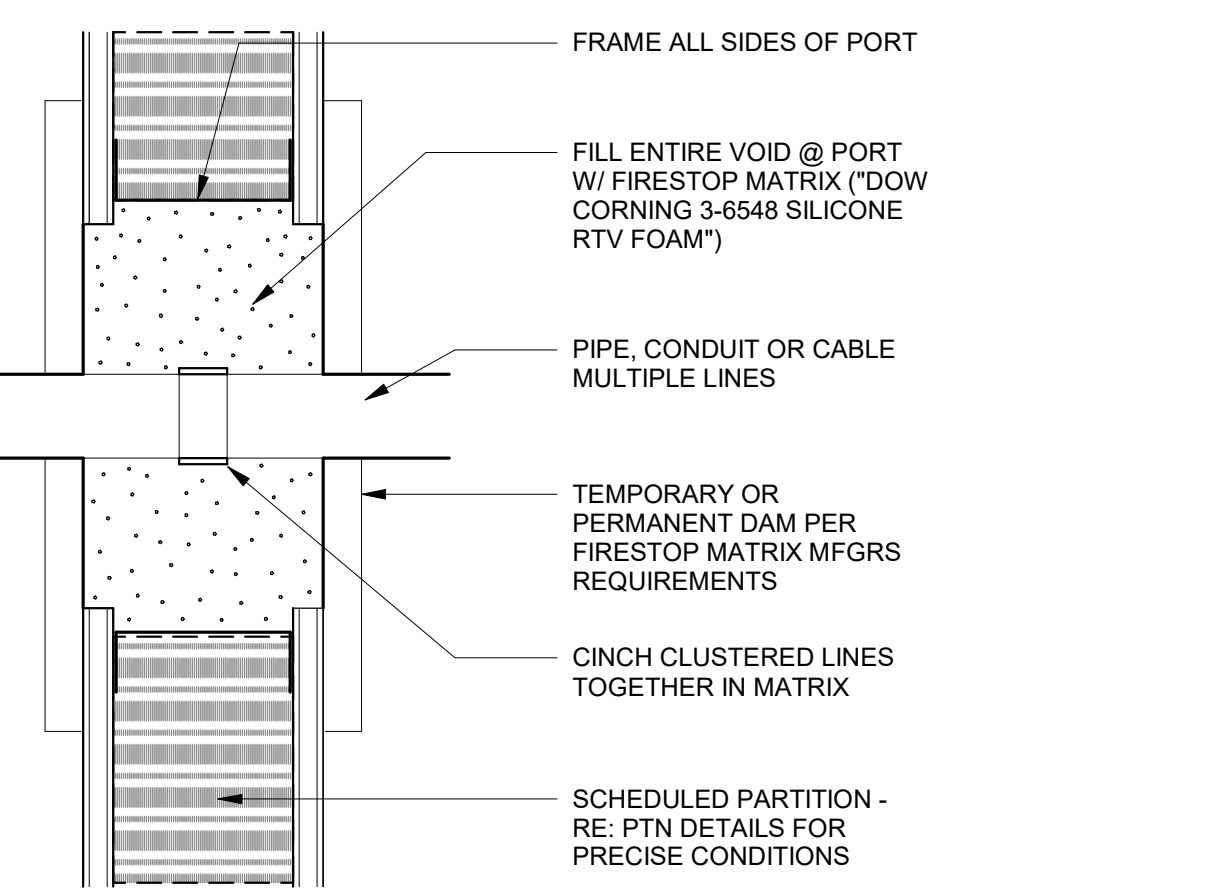
### 2 FIRESAFING FLOOR CORE

SCALE: 3" = 1'-0"



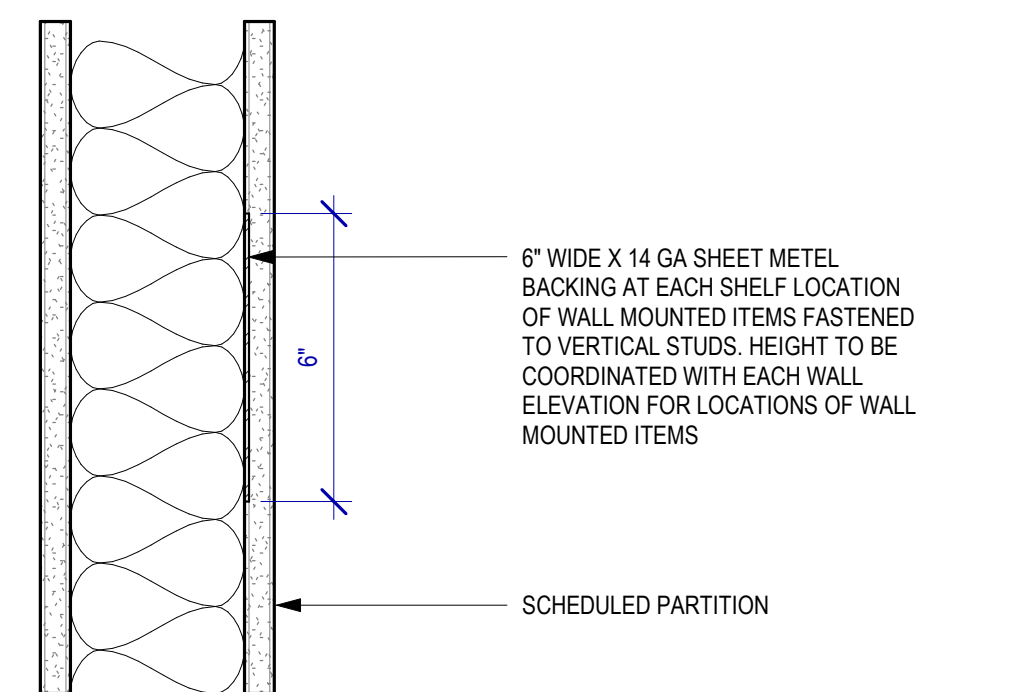
### 3 FIRESAFING DETAIL DAMPER

SCALE: 3" = 1'-0"



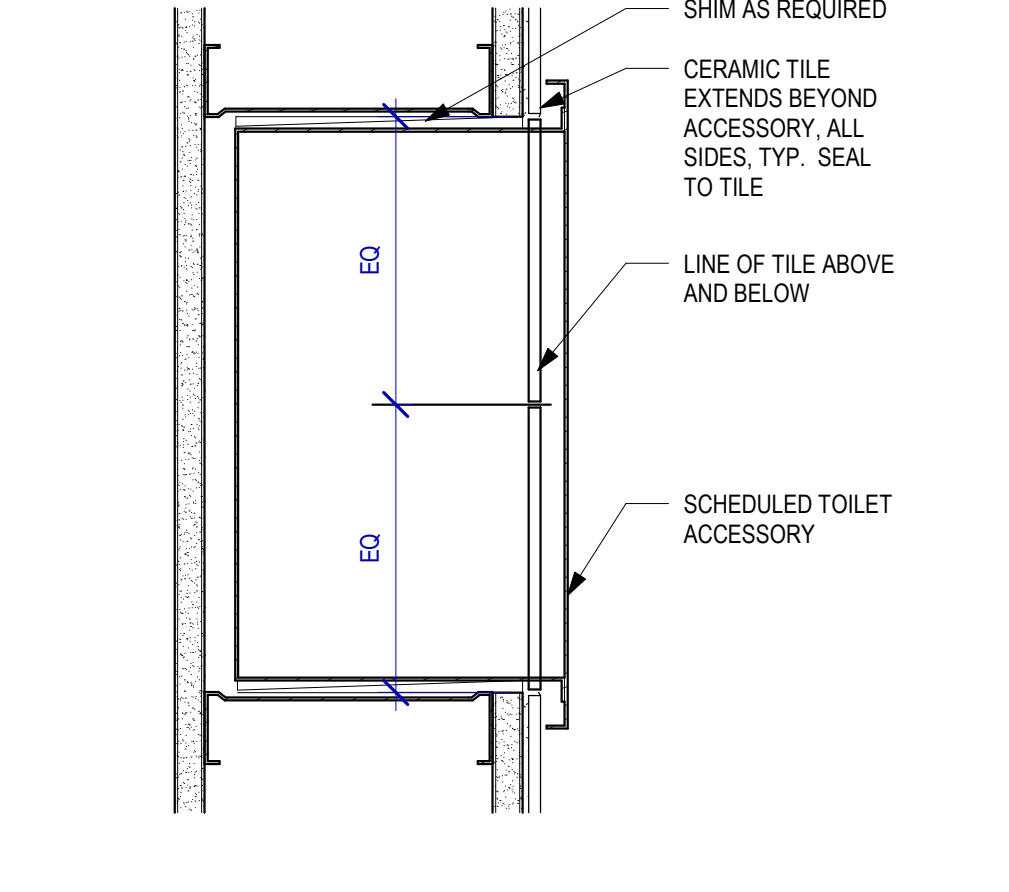
### 5 TYPICAL PLUMBING CHASE DETAIL

SCALE: 1 1/2" = 1'-0"



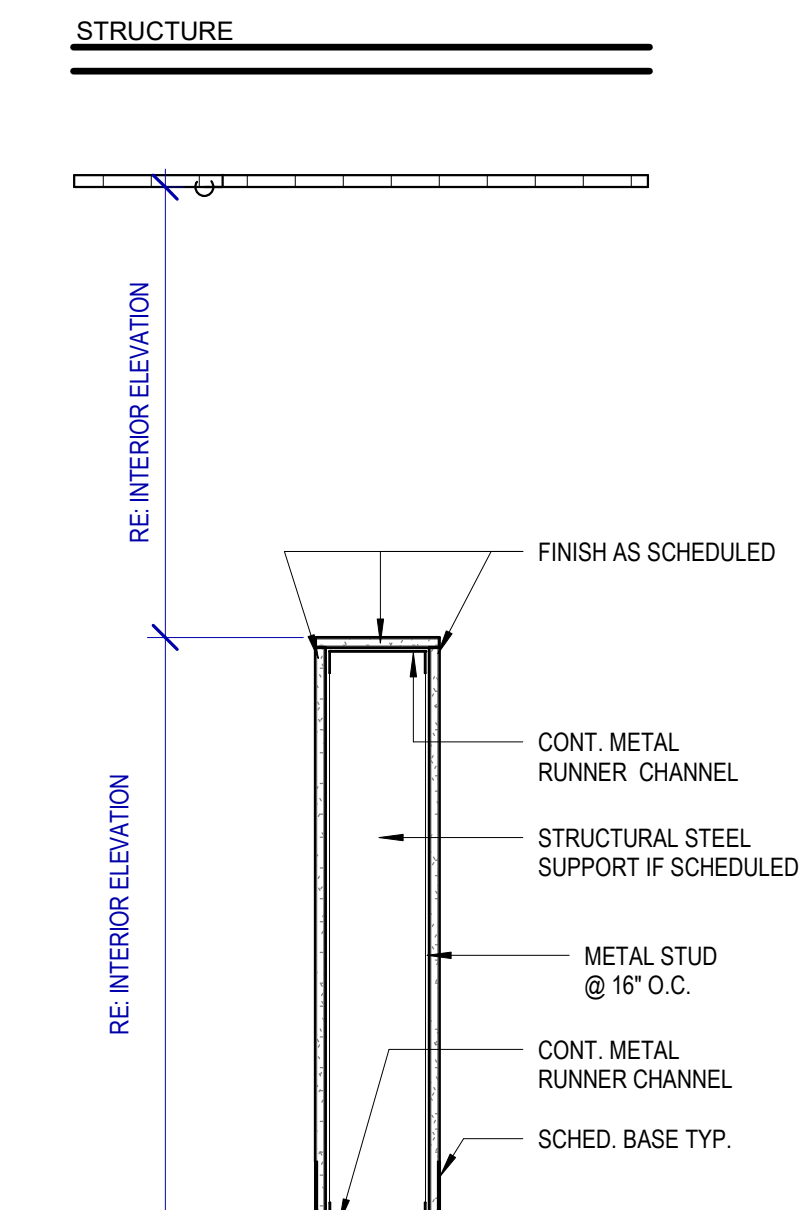
### 6 PLAN SECTION - TYP. PARTITION BACKING

SCALE: 3" = 1'-0"



### 7 PLAN / SECTION - RECESSED ITEM IN TILE

SCALE: 3" = 1'-0"



### P PARTITION TYPE P

SCALE: 1" = 1'-0"

FILE PATH: BIM 360://1429 Hobby Restroom Renovation Phase III/1429\_15\_HOU\_Restroom\_Phase3.rvt  
 HAS FILE:  
 PLOT DATE:  
 DOA DWG FILE:  
 OLD DOA No.:  
 PLOT DATE:



7800 Airport Blvd  
Houston, TX 77061

HAS HOBBY AIRPORT RESTROOMS  
PHASE 3

C.I.P. No. PN209B A.I.P. No.  
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DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

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1	15% SD	09.30.22	HB
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3	95% CD	12.09.22	HB
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APPROVAL DATE: 01/25/2023

DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM

Review/Approval Category  
**IFC**  
ISSUED FOR CONSTRUCTION

SHEET NAME: PARTITION SCHEDULE  
SHEET No. G-101 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

PLOT DATE: DOA DWG FILE: DOA DOA No.: PLOT DATE: HAS FILE: FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/1429\_15\_HOU\_Restroom\_Phase3.rvt

RESTROOM		USE GROUP	WATER CLOSETS MEN	WATER CLOSETS WOMEN	URINAL MEN	LAVS MEN	LAVS WOMEN	SINGLE OCCUPANT RESTROOM	SERVICE SINK
RR 3-4	EXISTING	B	3	5	3	4	4	1	1
	PROPOSED	B	3	5	3	4	4	1	1
RR 5-6	EXISTING	B	3	5	4	3	3	1	1
	PROPOSED	B	3	5	4	3	3	1	1
RR 58-59	EXISTING	B	2	7	5	4	4	1	1
	PROPOSED	B	2	7	5	5	5	1	1

### APPLICABLE BUILDING CODES

2015 INTERNATIONAL BUILDING CODE  
 2015 INTERNATIONAL FIRE CODE  
 2015 UNIFORM MECHANICAL CODE  
 2015 UNIFORM PLUMBING CODE  
 2020 NATIONAL ELECTRICAL CODE  
 2015 HOUSTON COMMERCIAL ENERGY CONSERVATION CODE  
 CITY OF HOUSTON SIGN CODE  
 CITY OF HOUSTON BUILDING CODE AMENDMENTS  
 HAS STANDARDS  
 STATE OF TEXAS ACCESSIBILITY STANDARDS

### SCOPE OF WORK

- THE WORK SHALL BE DONE IN COMPLIANCE OF THESE DRAWINGS AND SPECIFICATIONS, AND FACILITIES CRITERIA DOCUMENT OF THE HOUSTON AIRPORT AUTHORITY.
- THE WORK INCLUDES MINOR DEMOLITION; SAW CUTTING AND REMOVING PORTIONS OF BUILDING WALLS, CEILINGS, WALL AND FLOOR FINISHES AND ASSOCIATED MECHANICAL, PLUMBING AND ELECTRICAL DEMOLITION.
- THE WORK INCLUDES RESTROOMS RENOVATIONS AT HOBBY AIRPORT NONSECURE AREA. CONSTRUCTION INCLUDES INTERIOR BUILDING IMPROVEMENTS INCLUDING WALLS, CEILINGS, ACCESSORIES, FINISHES AND LIGHTING, TECHNOLOGY, MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS WORK AS PER TECHNOLOGY AND MEP DRAWINGS AND SPECIFICATIONS.
- THE WORK REQUIRES CAREFUL AND THROUGH COORDINATION WITH OWNER FURNISHED ITEMS AND SYSTEMS.

### BUILDING CODE SUMMARY

**OCCUPANCY CLASSIFICATION**  
**EXISTING AIRPORT**  
 OCCUPANCY TYPE: A3, RESTROOMS IN TRANSPORTATION TERMINALS, ACCESSORY OCCUPANCY  
 CONSTRUCTION TYPE: IA  
 SPRINKLER: YES  
 BUILDING/PROJECT ADDRESS: 7800 AIRPORT BLVD HOUSTON, TX 77061

EXISTING TO REMAIN - OCCUPANCY CLASSIFICATION/OCCUPANCY LOAD NOT AFFECTED BY WORK

### ACCESSORY OCCUPANCIES

508.2.3 AGGREGATE ACCESSORY OCCUPANCIES SHALL NOT OCCUPY MORE THAN 10 PERCENT OF THE FLOOR AREA OF THE STORY IN WHICH THEY ARE LOCATED AND SHALL NOT EXCEED THE TABULAR VALUES FOR NONSPRINKLERED BUILDINGS IN TABLE 506.2 FOR EACH SUCH ACCESSORY OCCUPANCY

508.3.1 NONSEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. CODE REQUIREMENTS SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE. IN ADDITION, THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 THAT APPLY TO THE NONSEPARATED OCCUPANCIES SHALL APPLY TO THE TOTAL NONSEPARATED OCCUPANCY AREA, WHERE NONSEPARATED OCCUPANCIES OCCUR IN HIGH-RISE BUILDING. THE MOST RESTRICTIVE OF SECTION 403 THAT APPLY TO THE NONSEPARATED OCCUPANCIES SHALL APPLY THROUGHOUT THE HIGH-RISE BUILDING.

### CONSTRUCTION REQUIREMENTS

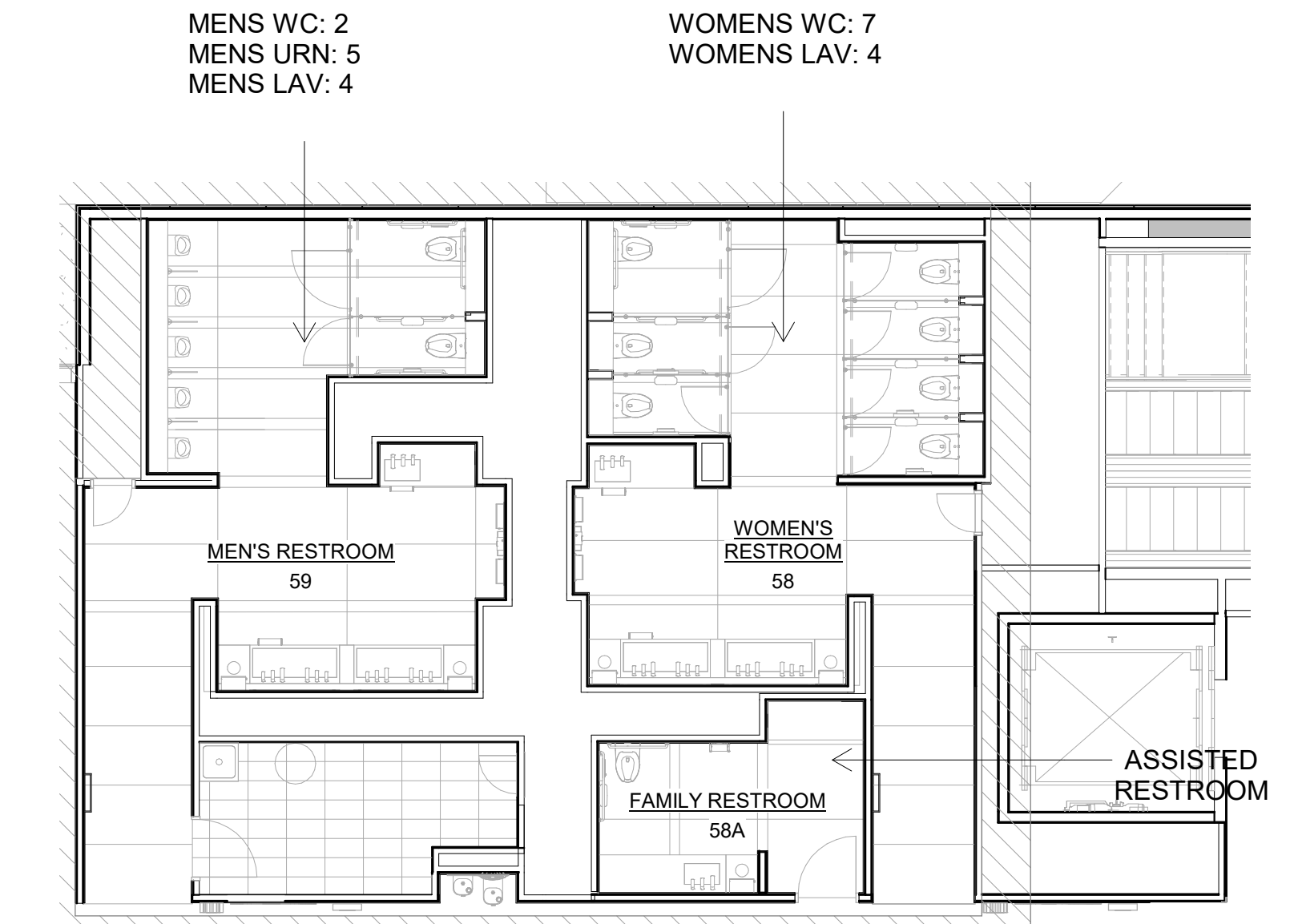
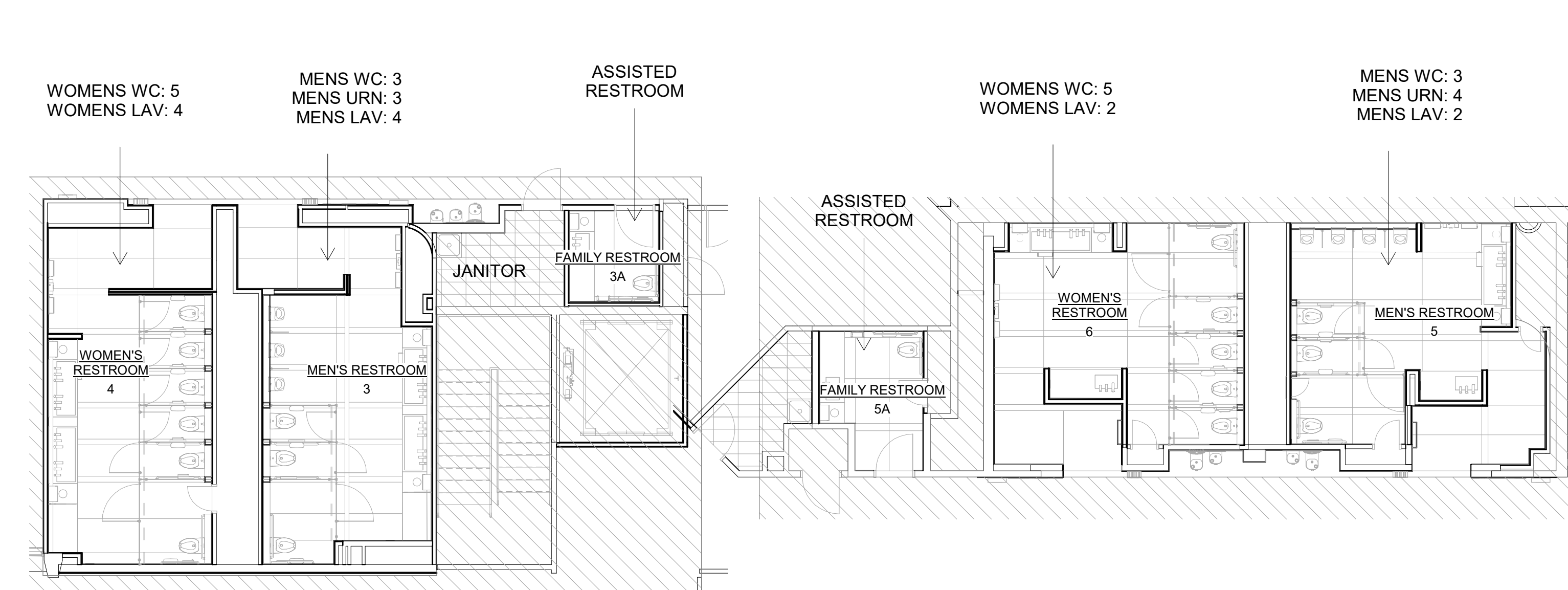
CONSTRUCTION TYPE: TYPE 1A, [FULLY SPRINKLERED]

TABLE 601	FIRE RESISTIVE REQUIREMENTS FOR BUILDING ELEMENTS
STRUCTURAL FRAME	3-HOUR
BEARING WALLS	3-HOUR
NONBEARING WALLS (INTERIOR)	0-HOUR
FLOOR CONSTRUCTION	2-HOUR
ROOF CONSTRUCTION	1.5-HOUR

### INTERIOR FINISHES

803.1.1 INTERIOR WALL AND FINISH MATERIALS  
 INTERIOR WALL AND FINISH CEILING MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723

	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
CLASS A	0-25	0-450
CLASS B	26-75	0-450
CLASS C	76-200	0-450
GROUP A-3 (SPRINKLERED)	CORRIDORS ROOMS & ENCLOSED SPACES	CLASS B CLASS C



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PHASE 3**

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APPROVAL DATE: 01/25/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

IFC ISSUED FOR CONSTRUCTION

SHEET NAME: PLUMBING COUNT AND CODE SUMMARY  
SHEET No. G-201 SCALE: As indicated  
SHEET SIZE: 30"x42" ARCH E1

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
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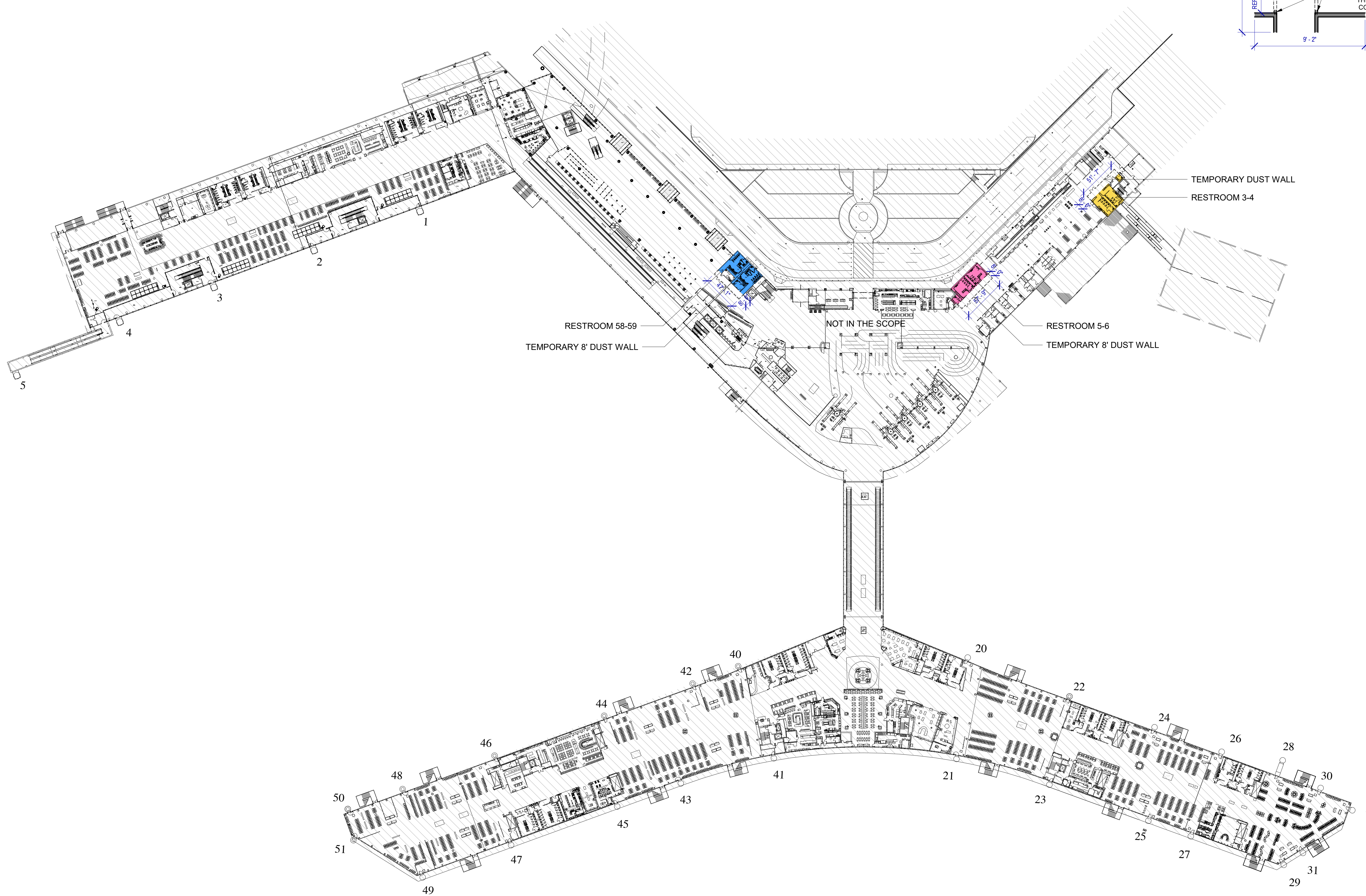
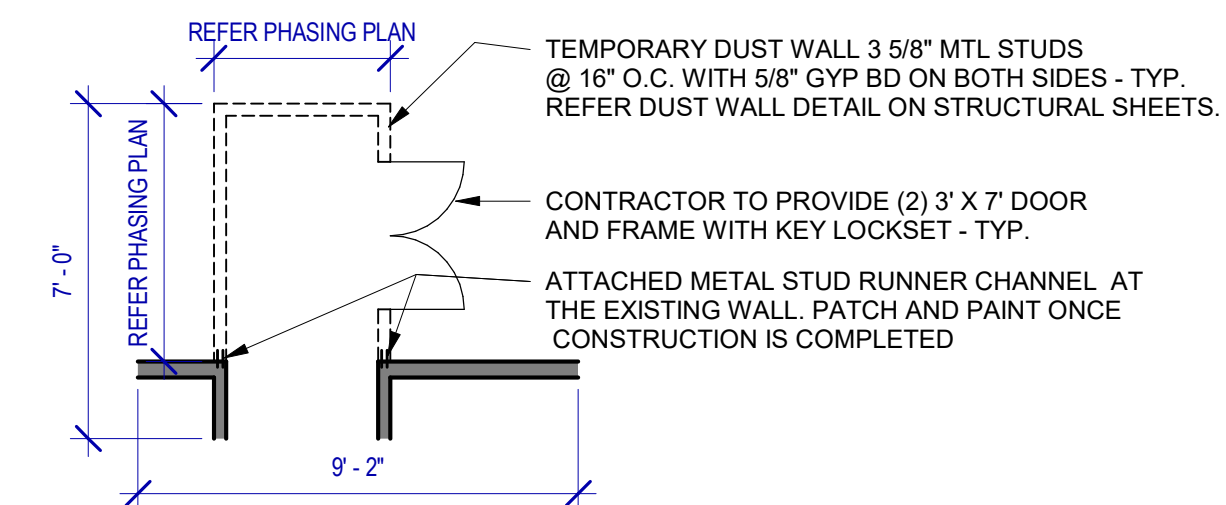
SHEET NAME: CONSTRUCTION PHASING PLAN  
SHEET No. G-202 SCALE: As indicated  
SHEET SIZE: 30"x42" ARCH E1

**CONSTRUCTION PHASING NOTES**

1. PHASE TWO CONSTRUCTION SHALL BEGIN WHEN ALL OF PHASE 1 CONSTRUCTION HAS BEEN COMPLETED AND IS OPENED FOR CUSTOMER USE.
2. PHASE THREE CONSTRUCTION SHALL BEGIN WHEN ALL OF PHASE 2 CONSTRUCTION HAS BEEN COMPLETED AND IS OPENED FOR CUSTOMER USE.
3. COORDINATE CONSTRUCTION SCHEDULE WITH HOUSTON AIRPORT SYSTEMS AND HOBBY AIRPORT.
4. TEMPORARY PARTITIONS SHALL BE INSTALLED PRIOR TO EACH PHASE OF CONSTRUCTION. RE: PLAN FOR LOCATIONS. PARTITION TO BE MIN. 8' AFF. TYP. DUST FENCE DETAILS REFER STRUCTURAL SHEETS.
- 5.

**LEGEND**

- PHASE 1
- PHASE 2
- PHASE 3



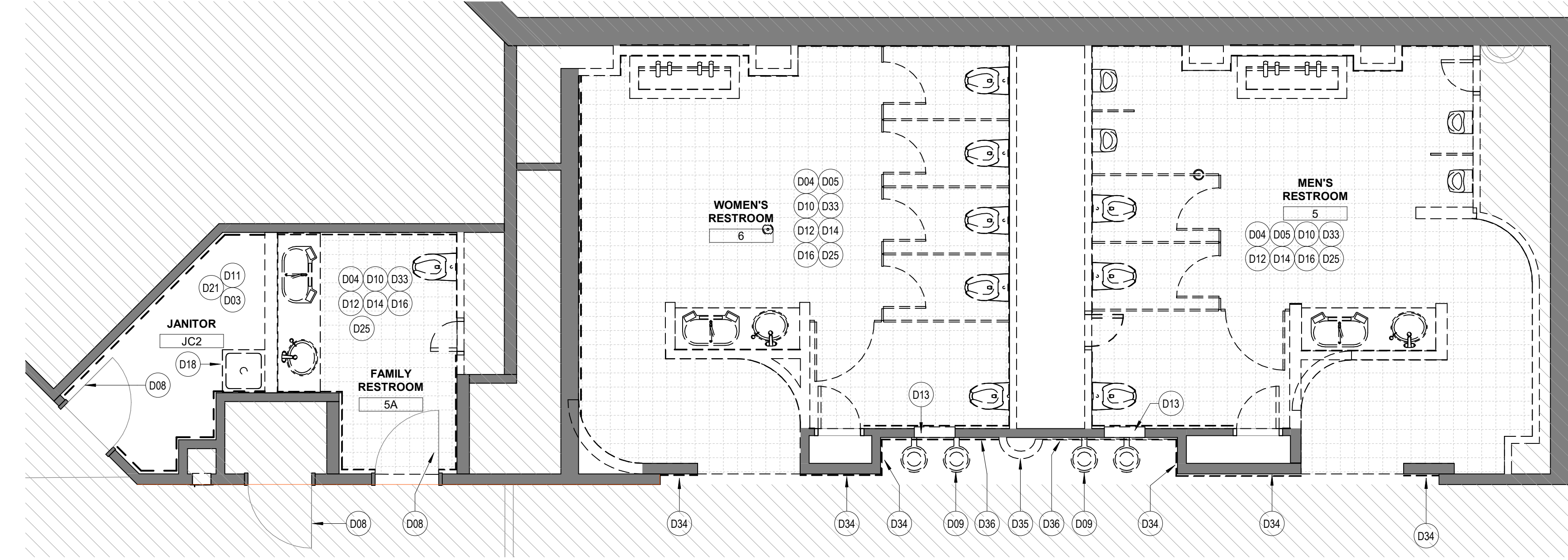
**1 CONSTRUCTION PHASING PLAN**  
SCALE: 1/64" = 1'-0"

PLOT DATE: DOA DWG FILE: OLD DOA No.: PLOT DATE:  
 FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/1429.15\_HOU\_Restroom\_Phase3.rvt  
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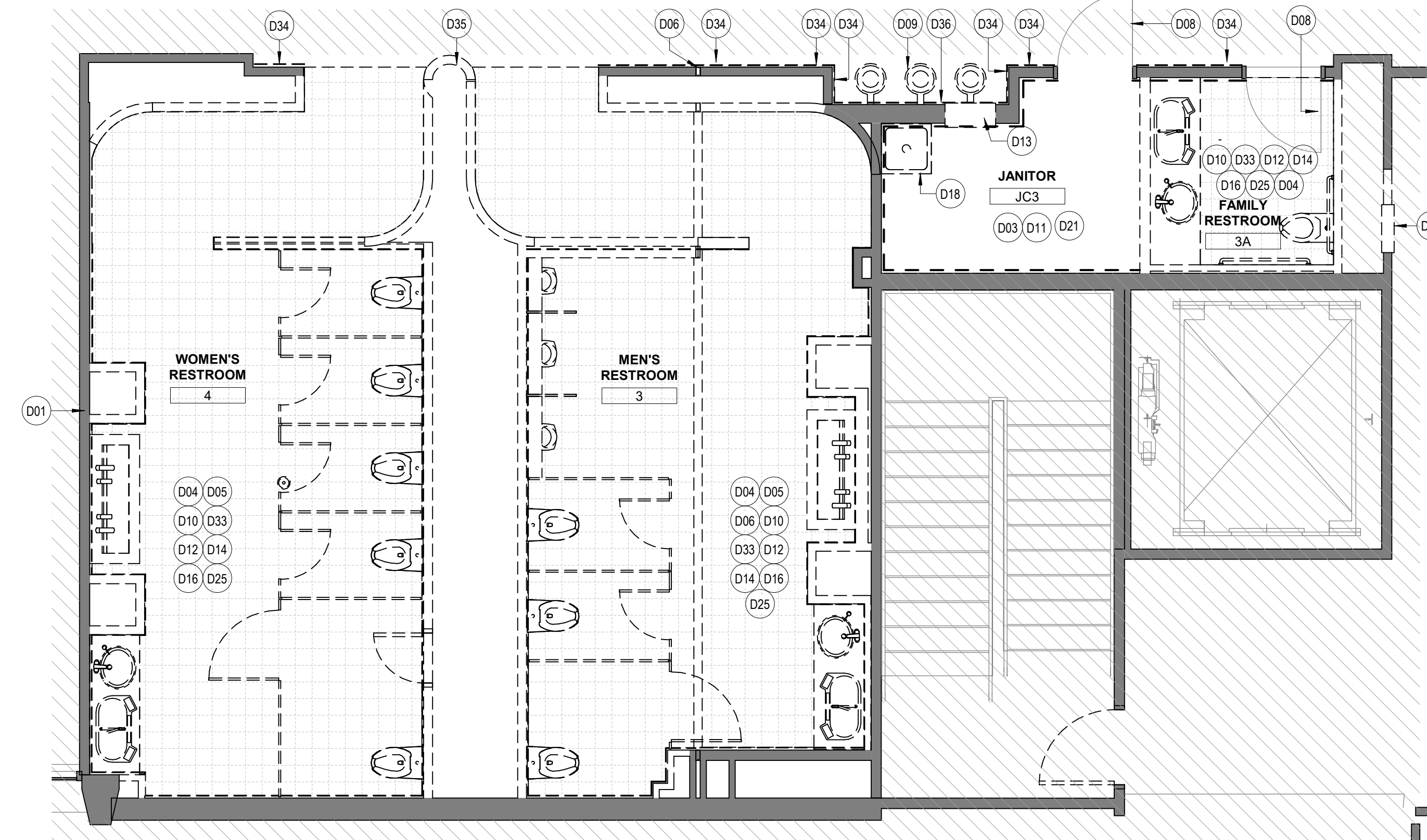


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PLOT DATE:

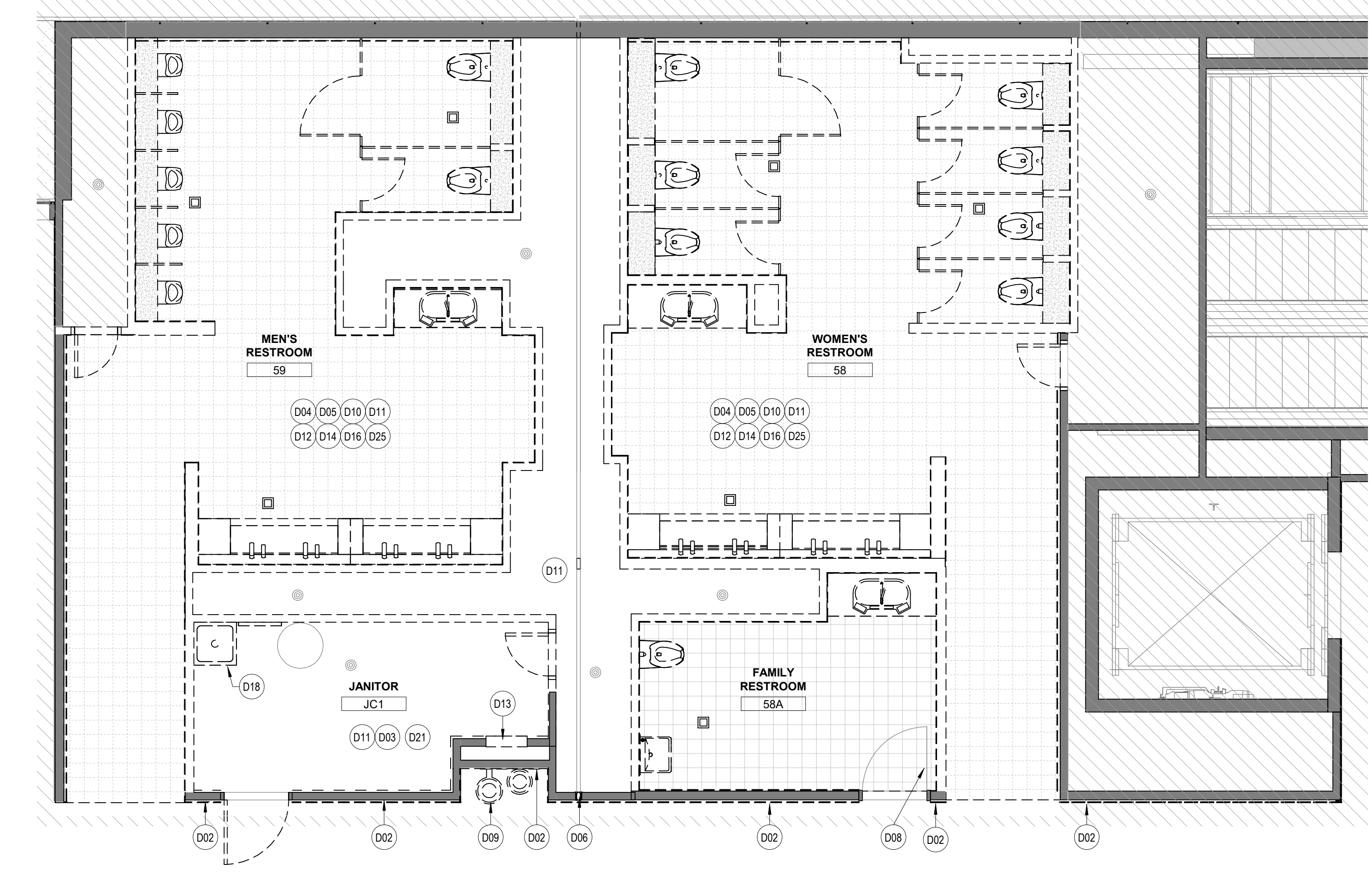
FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/1429\_15\_HOU\_Restroom\_Phase3.rvt  
HAS FILE:



**1 ENLARGED DEMO PLAN - RESTROOM 5, 5A, 6, JC2**  
SCALE: 1/4" = 1'-0"



**2 ENLARGED DEMO PLAN - RESTROOM 3, 3A, 4 AND JC3**  
SCALE: 1/4" = 1'-0"



**3 ENLARGED DEMO PLAN - RESTROOM 58, 58A, 59 AND JC1**  
SCALE: 1/4" = 1'-0"

**DEMOLITION GENERAL NOTES**

- NOT ALL EXISTING CONDITIONS AND DEVICES/EQUIPMENT ARE REPRESENTED IN THESE PLANS AND THEREFORE THE INTENT OF THE DEMOLITION PLANS ARE TO INDICATE TYPICAL WORK REQUIRED. GENERAL CONTRACTOR TO DETERMINE EXACT QUANTITIES IN THE FIELD.
- EXISTING SURFACE MOUNTED CONDUIT WHERE DEVICES ARE SHOWN TO REMAIN, SHALL BE CONCEALED BEHIND NEW SCHEDULES PARTITION. EXISTING SURFACE MOUNTED POWER OUTLETS, DATA, AND THERMOSTATS, NOTED FOR REINSTALLATION, SHALL BE CONVERTED TO RECESSED WITHIN NEW WALL AND PROVIDED WITH A NEW FACE PLATE.
- ALL DOOR FRAMES AT EXISTING AND NEW WALLS TO RECEIVE DOUBLE STUDS AT JAMBS & BOX HEADERS AT HEAD CONDITIONS. VERIFY ROUGH OPENINGS REQUIRED.
- OWNER HAS FIRST RIGHT OF SALVAGE.
- ALL EXISTING FINISHES TO BE REMOVED AND REMAINING SURFACES TO BE REPAIRED AND PREPARED FOR NEW FINISHES.
- ALL EXISTING EQUIPMENT HOSTED IN ACOUSTICAL CEILING TILE TO BE REMOVED AND SALVAGED FOR REINSTALLATION, U.N.O
- ALL CEILING MOUNTED FIRE ALARM HORN & STROBE TO BE PROTECTED DURING CONSTRUCTION.
- ALL IT EQUIPMENT, SMART RESTROOM TECHNOLOGY SHALL BE REMOVED AND TURNED OVER TO HAS IT BY CONTRACTOR.
- CONTRACTOR TO SUBMIT TEMPORARY PROTECTION LAYOUT FOR APPROVAL AND BEFORE STARTING INSTALLING WORK.
- CONTRACTOR SHALL REVIEW AND COORDINATE MEP DEMO AND NEW WORK DRAWINGS FOR ALL THE PLUMBING, ELECTRICAL, LIGHTING FIXTURES, HVAC AND DATA TO REMAIN AND/OR BEING MODIFIED OR NEW WORK TO BE PROVIDED.
- CONTRACTOR TO CAREFULLY REMOVE ALL TILE FINISH TO AVOID DAMAGE TO EXISTING GYP BOARD TO REMAIN AND STUD FRAMING OR AS REQUIRED PER DRAWING.
- ALL KEY NOTES INSIDE A ROOM WITHOUT LEADERS POINTING SPECIFIC ITEMS ARE TO BE CONSIDERED GENERAL NOTES FOR WORK TO BE POINTING IN EACH SPECIFIC ROOM WHERE THESE KEY NOTES ARE SHOWN.

KEYNOTES	
D01	NOT IN SCOPE. EXISTING CONSTRUCTION TO REMAIN AND PROTECT DURING CONSTRUCTION.
D02	REMOVE EXISTING CERAMIC WALL TILE AND EXISTING GYP BD. FROM METAL STUDS.
D03	EXISTING ELECTRICAL/MECHANICAL EQUIPMENT TO REMAIN. ANY POWER/DATA TO BE LEAVE IN PLACE AND SUPPORT FROM STRUCTURE DURING CONSTRUCTION.
D04	REMOVE EXISTING COUNTERTOP/SHELF
D05	REMOVE EXISTING TOILET PARTITIONS AND URINAL DIVIDERS. TYP
D06	EXPANSION JOINT AT FLOOR, WALL AND CEILING TO BE REMOVED.
D08	EXISTING DOOR AND FRAME TO REMAIN. PROTECT DURING CONSTRUCTION AND RE PAINT TO MATCH EXISTING.
D09	REMOVE EXISTING DRINKING FOUNTAINS.
D10	REMOVE EXISTING FLOOR TILE AND PREPARE SLAB FOR INSTALLATION OF NEW PORCELAIN TILE.
D11	EXISTING FLOOR DRAIN CAP COVER TO BE REMOVED. FLOOR DRAIN TO REMAIN IN THE SAME PLACE
D12	EXISTING PLUMBING FIXTURES AND STEEL SUPPORT TO BE REMOVED. PLUMBING LINES TO BE PREPARED/RELOCATED FOR NEW WORK. REFER MEP DRAWINGS. TYP
D13	REMOVE EXISTING GYP BOARD FOR INSTALLATION OF NEW ACCESS PANEL.
D14	SALVAGE EXISTING IPAD AND RETURN TO HAS IT DEPARTMENT
D16	REMOVE EXISTING TOILET ACCESSORIES
D18	REMOVE EXISTING MOP SINK
D21	ALL CUSTODIAN EQUIPMENT ATTACHED TO WALLS TO BE PROTECTED DURING CONSTRUCTION.
D25	REMOVE EXISTING MIRRORS.
D33	EXISTING FLOOR DRAIN CAP COVER AND FLOOR DRAIN TO BE REPLACED.
D34	REMOVE EXISTING SLATE FINISH, S.S. BASE AND GYP BD.
D35	REMOVE S.S. COLUMN COVER
D36	REMOVE EXISTING GRANITE FINISH, S.S. BASE AND GYP BD. REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.

**DEMOLITION LEGEND**

- DASHED LINE INDICATED OBJECT OR PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- NOT IN SCOPE
- REMOVE EXISTING WALL FINISH (WALL TILE, SS PANELS) AND GYP BOARD. EXISTING METAL STUDS TO REMAIN.
- LIGHT FIXTURES TO BE REMOVED. REFER MEP DWGS FOR ADDITIONAL INFORMATION ON EXISTING LIGHT FIXTURES, HVAC, DATA, SPEAKERS TO BE REMOVED.
- DOOR AND FRAME TO BE REMOVED



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DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
2	30% CD	10.28.22	HB
3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

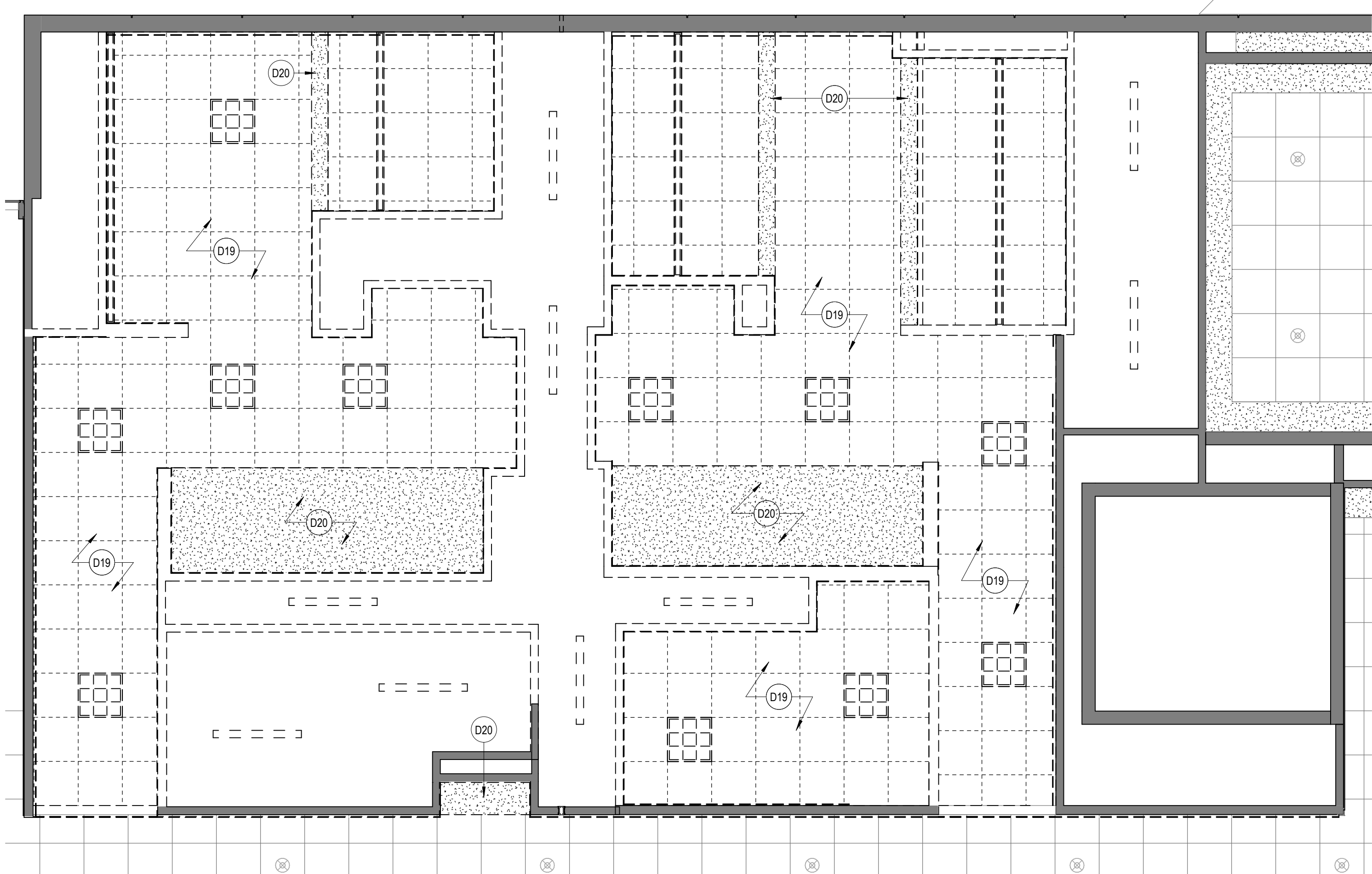
DESIGN BY: FF  
DRAWN BY: CT  
CHECKED BY: HB  
ISSUE DATE: 01/25/2023  
APPROVED BY: Hector Berrios  
APPROVAL DATE: 01/25/2023

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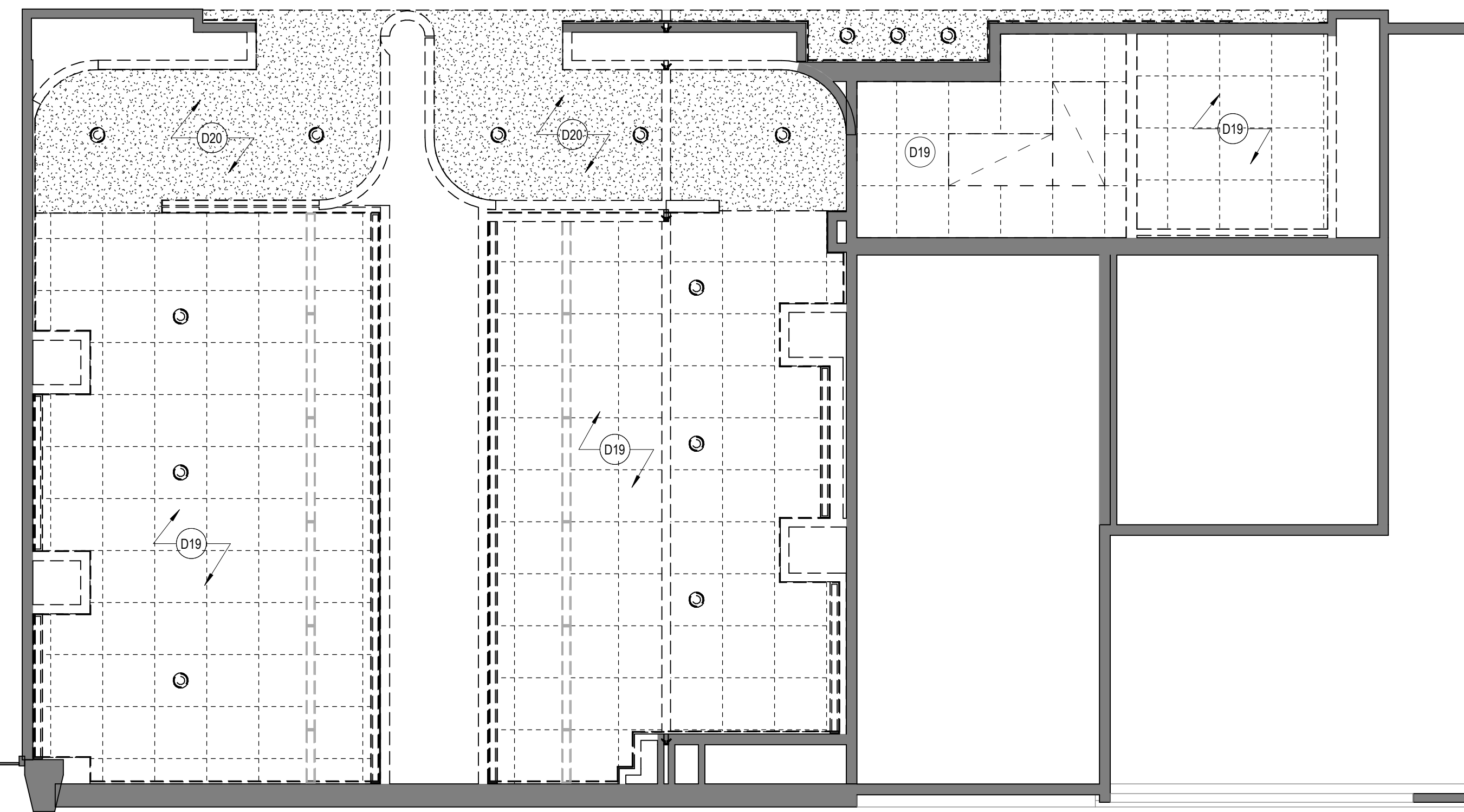
Review/Approval Category  
**IFC**  
ISSUED FOR CONSTRUCTION

SHEET NAME: DEMOLITION PLAN  
SHEET No. AD-101 SCALE: As indicated  
SHEET SIZE: 30"x42" ARCH E1

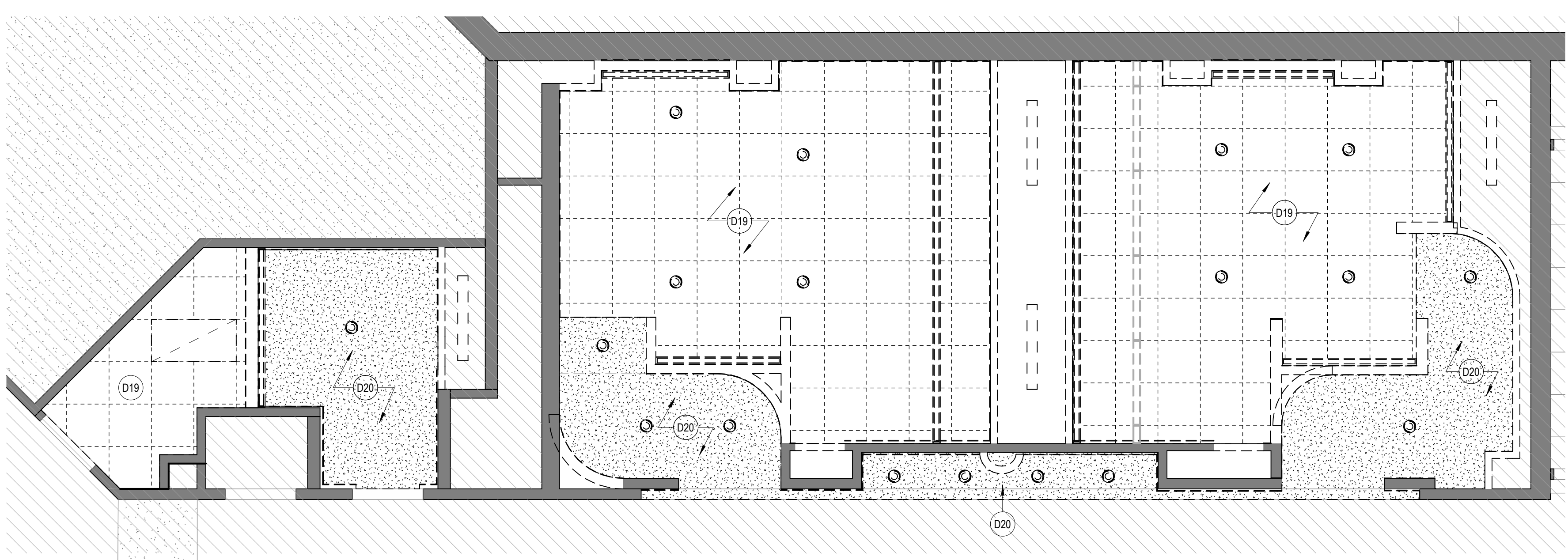
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 HAS FILE:  
 PLOT DATE:  
 DOA DWG FILE:  
 OLD DOA No.:



**3 ENLARGED RCP DEMO PLAN - RESTROOM 58, 58A, 59, AND JC1**  
 SCALE: 1/4" = 1'-0"



**2 ENLARGED RCP DEMO PLAN - RESTROOM 3, 3A, 4 AND JC3**  
 SCALE: 1/4" = 1'-0"



**1 ENLARGED RCP DEMO PLAN - RESTROOMS 5, 5A, 6, AND JC2**  
 SCALE: 1/4" = 1'-0"

**DEMOLITION GENERAL NOTES**

- NOT ALL EXISTING CONDITIONS AND DEVICES/EQUIPMENT ARE REPRESENTED IN THESE PLANS AND THEREFORE THE INTENT OF THE DEMOLITION PLANS ARE TO INDICATE TYPICAL WORK REQUIRED. GENERAL CONTRACTOR TO DETERMINE EXACT QUANTITIES IN THE FIELD.
- EXISTING SURFACE MOUNTED CONDUIT WHERE DEVICES ARE SHOWN TO REMAIN, SHALL BE CONCEALED BEHIND NEW SCHEDULES PARTITION. EXISTING SURFACE MOUNTED POWER OUTLETS, DATA, AND THERMOSTATS, NOTED FOR REINSTALLATION, SHALL BE CONVERTED TO RECESSED WITHIN NEW WALL AND PROVIDED WITH A NEW FACE PLATE.
- ALL DOOR FRAMES AT EXISTING AND NEW WALLS TO RECEIVE DOUBLE STUDS AT JAMES & BOX HEADERS AT HEAD CONDITIONS. VERIFY ROUGH OPENINGS REQUIRED. OWNER HAS FIRST RIGHT OF SALVAGE.
- ALL EXISTING FINISHES TO BE REMOVED AND REMAINING SURFACES TO BE REPAIRED AND PREPARED FOR NEW FINISHES.
- ALL EXISTING EQUIPMENT HOSTED IN ACOUSTICAL CEILING TILE TO BE REMOVED AND SALVAGED FOR REINSTALLATION, I.N.O
- ALL CEILING MOUNTED FIRE ALARM HORN & STROBE TO BE PROTECTED DURING CONSTRUCTION.
- ALL IT EQUIPMENT, SMART RESTROOM TECHNOLOGY SHALL BE REMOVED AND TURNED OVER TO HAS IT BY CONTRACTOR.
- CONTRACTOR TO SUBMIT TEMPORARY PROTECTION LAYOUT FOR APPROVAL AND BEFORE STARTING INSTALLING WORK.
- CONTRACTOR SHALL REVIEW AND COORDINATE MEP DEMO AND NEW WORK DRAWINGS FOR ALL THE PLUMBING, ELECTRICAL, LIGHTING FIXTURES, HVAC AND DATA TO REMAIN AND/OR BEING MODIFIED OR NEW WORK TO BE PROVIDED.
- CONTRACTOR TO CAREFULLY REMOVE ALL TILE FINISH TO AVOID DAMAGE TO EXISTING GYP BOARD TO REMAIN AND STUD FRAMING OR AS REQUIRED PER DRAWING.
- ALL KEY NOTES INSIDE A ROOM WITHOUT LEADERS POINTING SPECIFIC ITEMS ARE TO BE CONSIDERED GENERAL NOTES FOR WORK TO BE REQUIRED IN EACH SPECIFIC ROOM WHERE THESE KEY NOTES ARE SHOWN.

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
D19	REMOVE EXISTING CEILING TILE AND GRID. REMOVE ALL DEVICES IN CEILING. REFER MEP DWGS
D20	EXISTING GYP, BD, CEILING TO BE REMOVED. REMOVE ALL DEVICES IN CEILING. REFER MEP DWGS.

**DEMOLITION LEGEND**

- DASHED LINE INDICATED OBJECT OR PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- NOT IN SCOPE
- REMOVE EXISTING WALL FINISH (WALL TILE, SS PANELS) AND GYP BOARD. EXISTING METAL STUDS TO REMAIN.
- LIGHT FIXTURES TO BE REMOVED. REFER MEP DWGS FOR ADDITIONAL INFORMATION ON EXISTING LIGHT FIXTURES, HVAC, DATA, SPEAKERS TO BE REMOVED.
- DOOR AND FRAME TO BE REMOVED

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DESIGNER PROJECT No.: 1429.15  
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REGISTERED ARCHITECT  
 HECTOR BERRIOS  
 STATE OF TEXAS  
 01/25/2023

SHEET NAME: DEMOLITION RCP  
 SHEET No. AD-140 SCALE: As indicated  
 SHEET SIZE: 30"x42" ARCH E1



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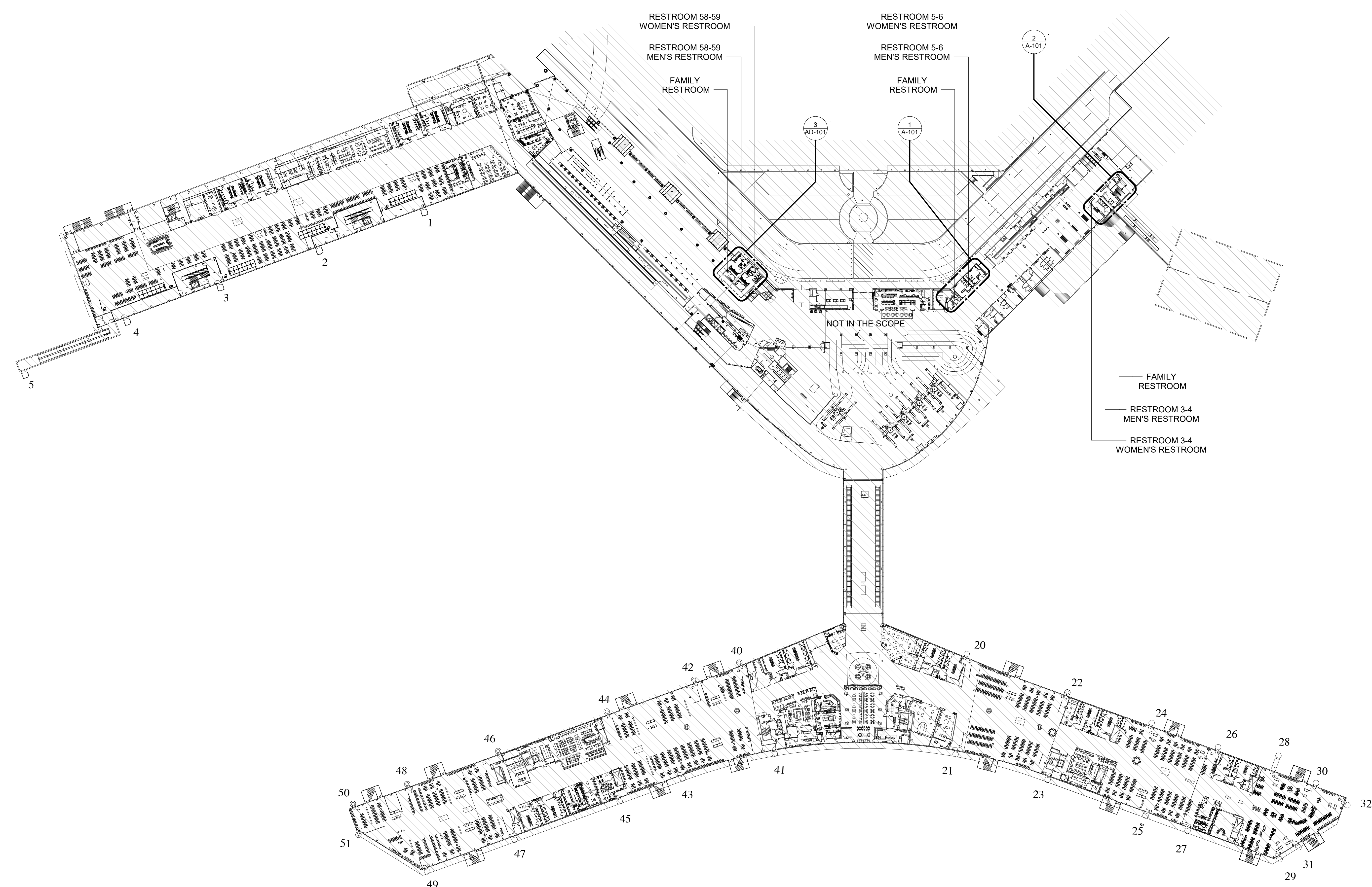
IFC  
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SHEET NAME: OVERALL FLOOR PLAN - LEVEL 2

SHEET No. A-100 SCALE: 1/64" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

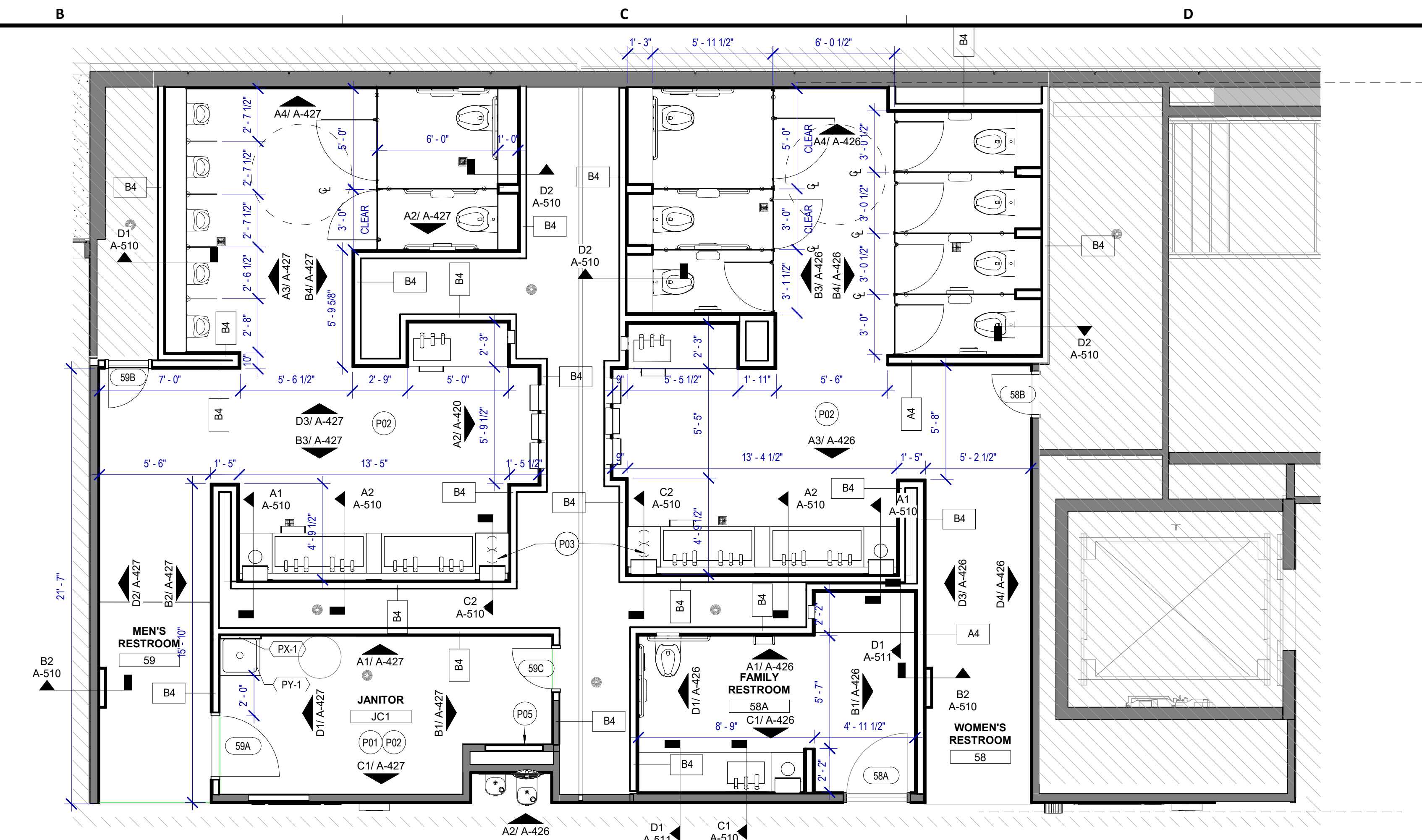


## 1 OVERALL FLOOR PLAN

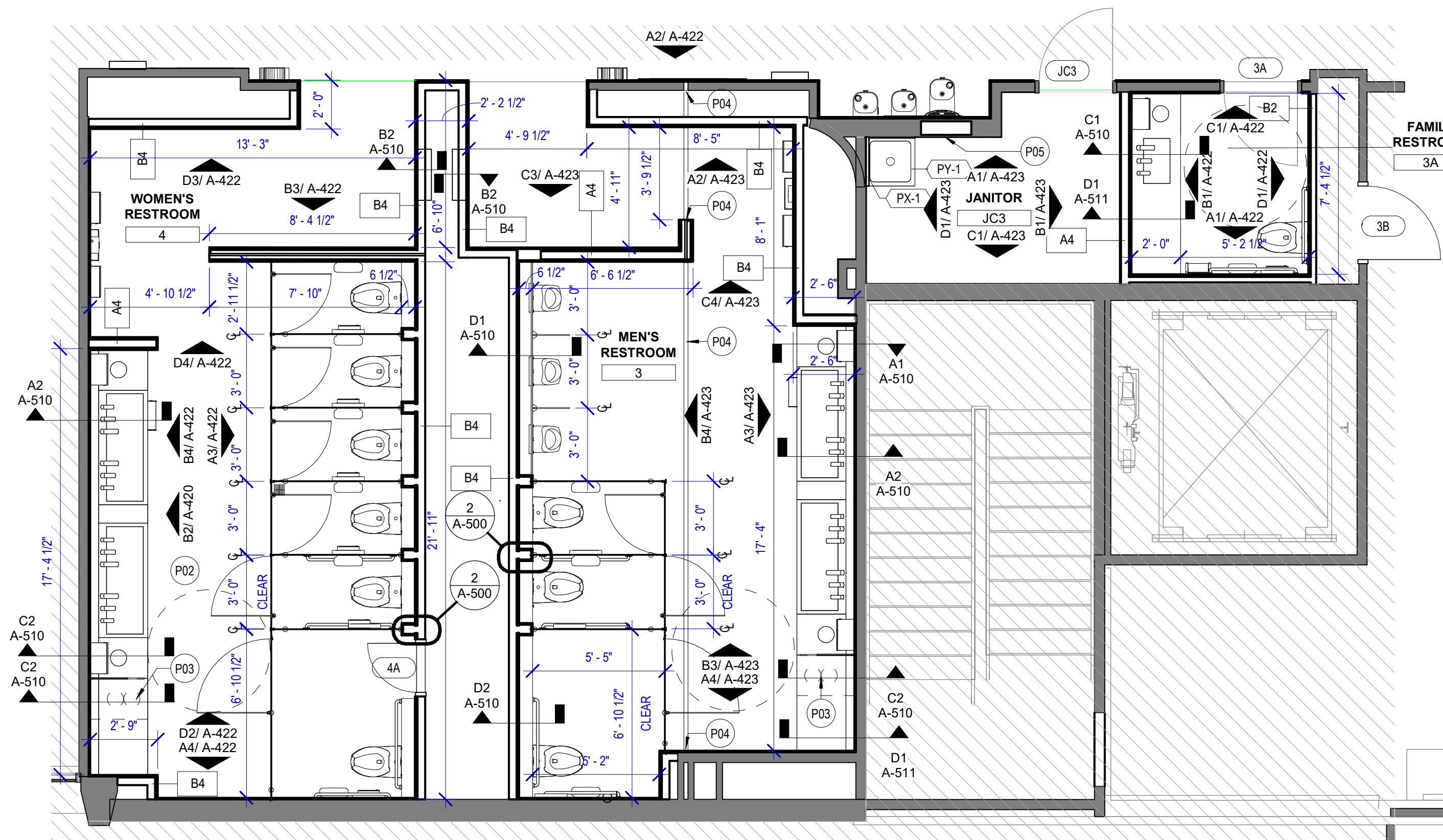
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FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/1429.15\_HOU\_Restroom\_Phase3.rvt  
HAS FILE:  
PLOT DATE:  
DOA DWG FILE:  
OLD DOA No.:

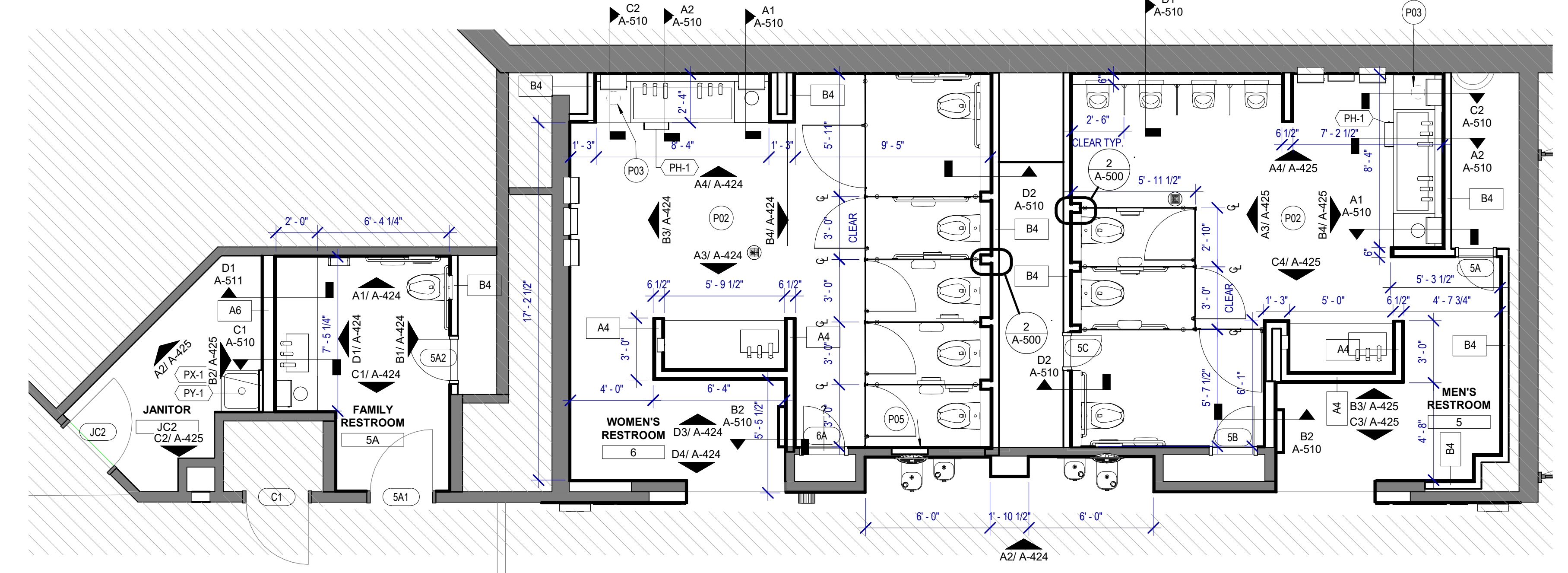
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**3 ENLARGED PLAN - RESTROOM 58, 58A, 59 AND JC1**  
 SCALE: 1/4" = 1'-0"



**2 ENLARGED PLAN - RESTROOM 3, 3A, 4 AND JC 3**  
 SCALE: 1/4" = 1'-0"



**1 ENLARGED RESTROOMS 5, 5A, 6 AND JC2**  
 SCALE: 1/4" = 1'-0"

**FLOOR PLAN GENERAL NOTES**

- REFER TO SHEET G-002 FOR KEY TO SYMBOLS LEGEND AND ABBREVIATIONS. REFER TO SHEET G-003 FOR GENERAL NOTES. REFER TO G-031 FOR PARTITION TYPES & FIRE SAFETY DETAILS.
- ALL LOCATIONS OF ELECTRICAL DEVICES SHALL BE VERIFIED IN THE FIELD WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.
- EXISTING HM FRAME TO BE PAINTED.

**KEYNOTE LEGEND - PLANS**

KEY VALUE	KEYNOTE TEXT
P01	EXISTING ELECTRICAL/MECHANICAL EQUIPMENT TO REMAIN.
P02	NEW FLOOR DRAIN CAP COVER.
P03	SOAP DISPENSER RESERVOIRS.
P04	CONTRACTOR TO REPLACE EXPOSED EXISTING EXPANSION CONTROL COVERS FOR FLOOR, WALL AND CEILING. NEW EXPANSION CONTROL COVERS TO MATCH EXISTING.
P05	PROVIDE 32 INCHES WIDE BY 36 INCHES HEIGHT ACCESS PANEL.



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DESIGNER PROJECT No.: 1429.15  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

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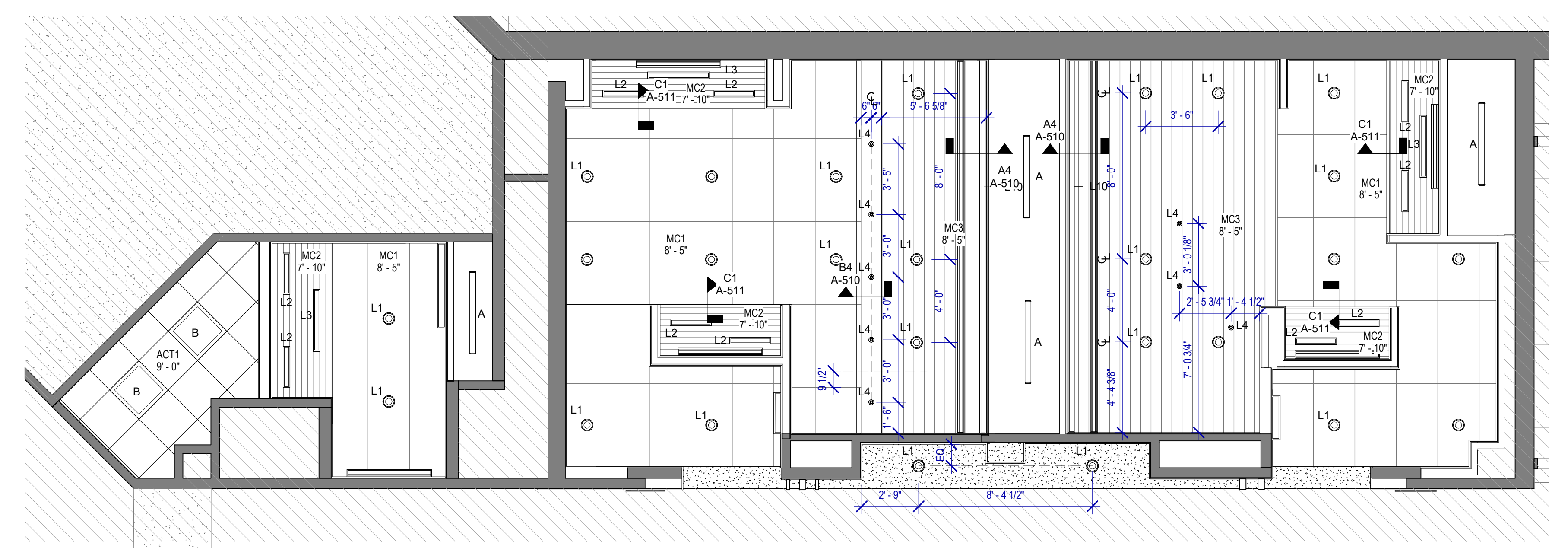
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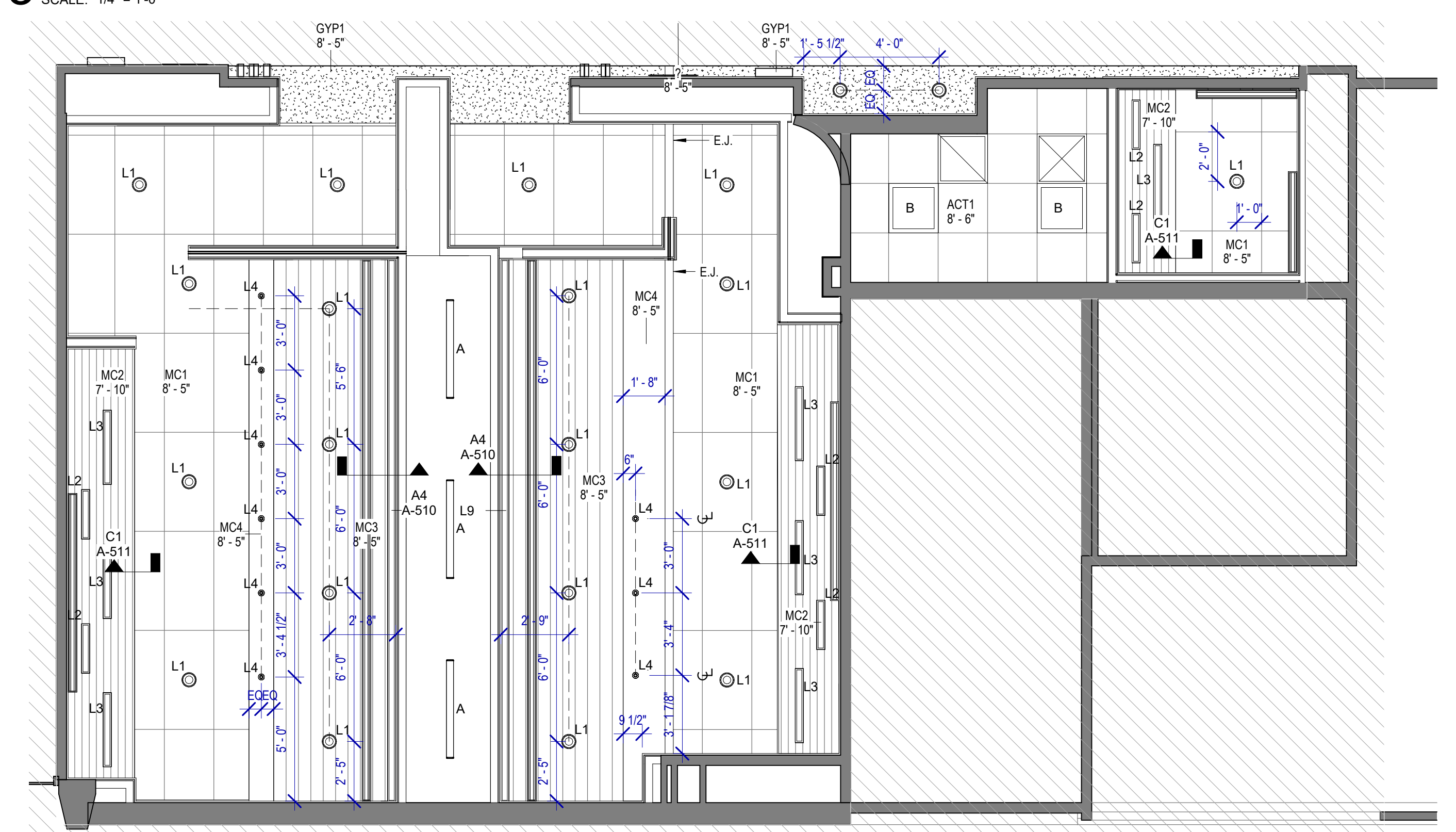
SHEET NAME:  
 ENLARGED RESTROOM FLOOR PLANS  
 SHEET No. A-101 SCALE: 1/4" = 1'-0"  
 SHEET SIZE: 30"x42" ARCH E1

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No. :  
PLOT DATE:

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/1429.15\_HOU\_Restroom\_Phase3.rvt  
HAS FILE:



**1 ENLARGED RESTROOMS 5, 5A, 6 AND JC2**  
SCALE: 1/4" = 1'-0"



**2 ENLARGED RCP PLAN - RESTROOM 3, 3A, 4 AND JC3**  
SCALE: 1/4" = 1'-0"



**3 ENLARGED RCP PLAN - RESTROOM 58, 58A, 59 AND JC1**  
SCALE: 1/4" = 1'-0"

**RCP GENERAL NOTES**

- REFER TO G-003 FOR LIGHTING GENERAL NOTES
- REFER TO SHEET A-600 FOR MATERIAL LEGEND
- REFER TECHNOLOGY DRAWINGS
- ALL EXISTING CEILING AND CEILING DEVICES ARE TO REMAIN.
- PATCH, REPAIR & REFINISH EXISTING CONDITIONS DAMAGED DURING CONSTRUCTION
- REMOVE, STORED AND REINSTALL CEILING PANELS AS REQUIRED FOR INSTALLATION OF NEW STALL LIGHTS.

**REFLECTED CEILING PLAN LEGEND**

- GYP. BD. CEILING
- ROUND RECESSED CAN LIGHT FIXTURE
- LINEAR RECESSED LIGHT FIXTURE
- DECORATIVE LINEAR LIGHT FIXTURE
- NEW 2'x2' TROFFER LIGHT FIXTURE
- NEW PARTITION
- EXISTING PARTITION TO REMAIN
- SUPPLY/EXHAUST LINEAR AIR DEVICE
- SMART STALL OCCUPANCY LIGHTS
- SUPPLY AIR DEVICE
- EXHAUST GRILLE
- MC1
- MC2
- MC3
- MC4

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SHEET NAME: REFLECTED CEILING PLAN  
SHEET No. A-140 SCALE: As indicated  
SHEET SIZE: 30"x42" ARCH E1

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
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SHEET NAME: TYPICAL ELEVATIONS AND PLANS

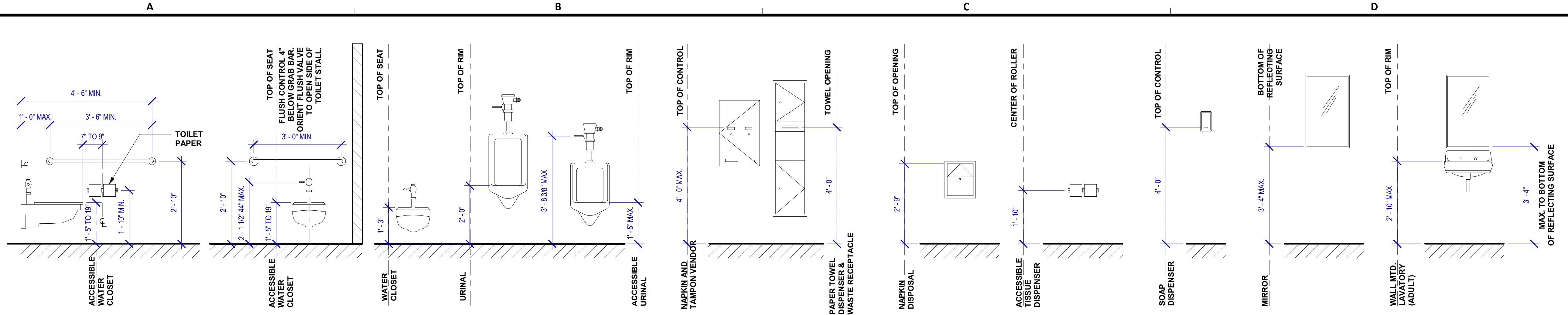
SHEET No. A-420 SCALE: As indicated

**TOILET ACCESSORIES**

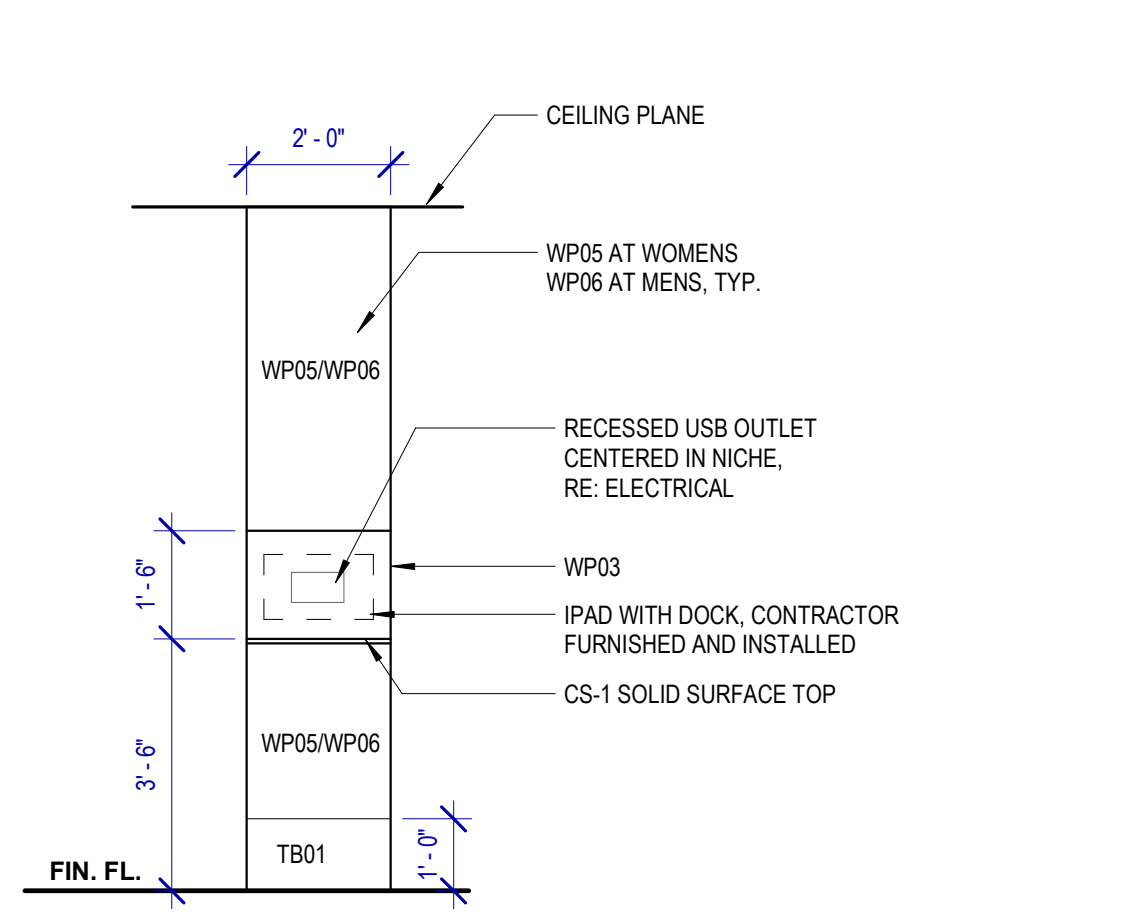
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- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE FOR BABY PRODUCTS 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSL.R.030.CS.H
- PF-2 THE SPLASH LAB RIBBON SENSOR FAUCET TSL.R.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PH-1 STEP 'N WASH FLOOR MOUNTED SELF-RETRACTING STEPT STOOL SNW-SS 975B
- PI-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LA
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LA
- PM-1 CARVART FLOATING MIRROR
- PM-2 CARVART FRAMELESS LED MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSL.R.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LA
- PX-1 BOBRICK MOP & BROOM HOLDER B-223
- PY-1 ZURN MOP SINK 1996-24
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 URINAL PARTITION RE: MATERIAL LEGEND
- PZ-3 BABY CHANGING STATION GLASS PARTITION
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202

**INTERIOR ELEVATIONS NOTES**

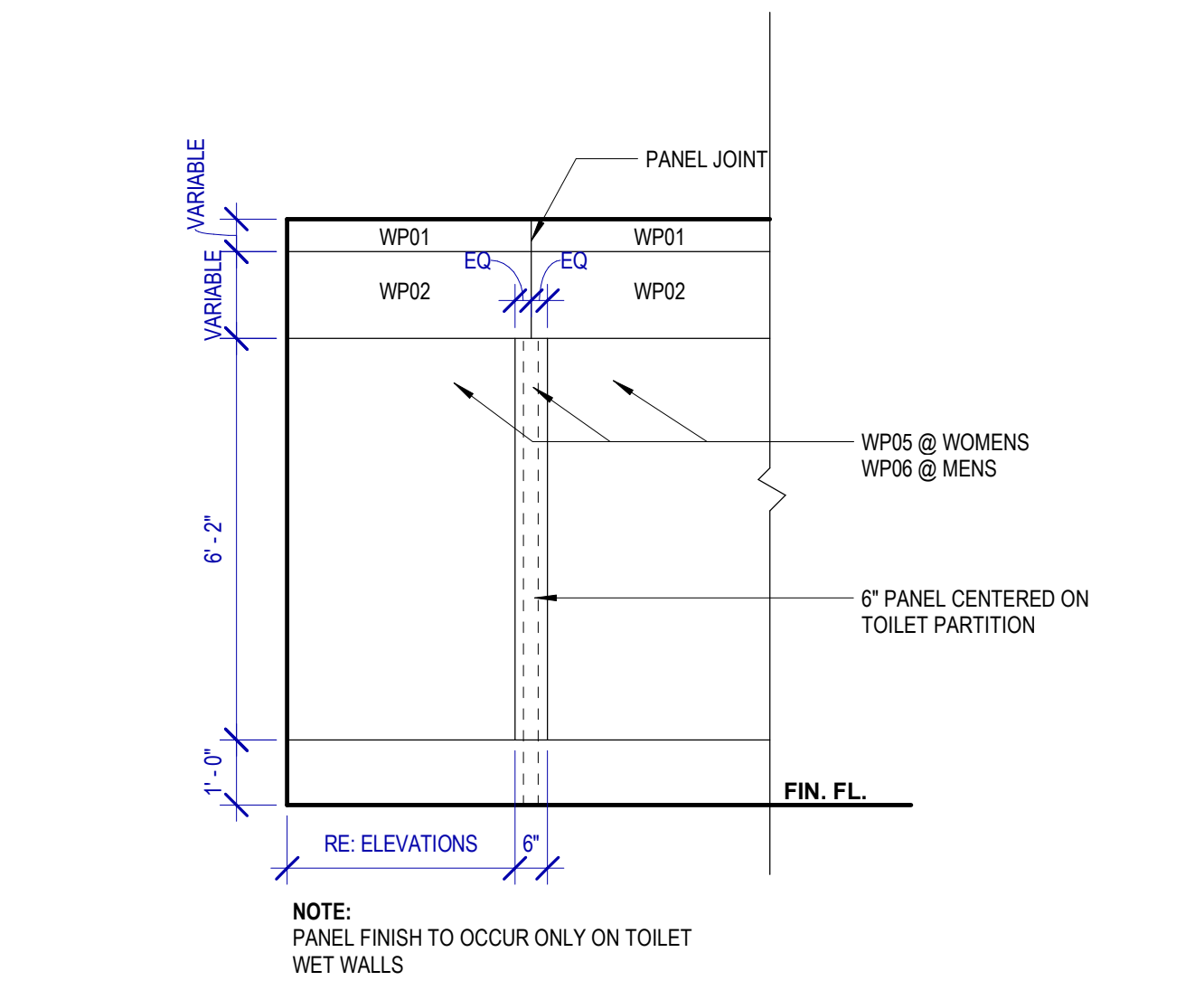
- REFER TO SHEET A600 FOR FINISH LEGEND.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.



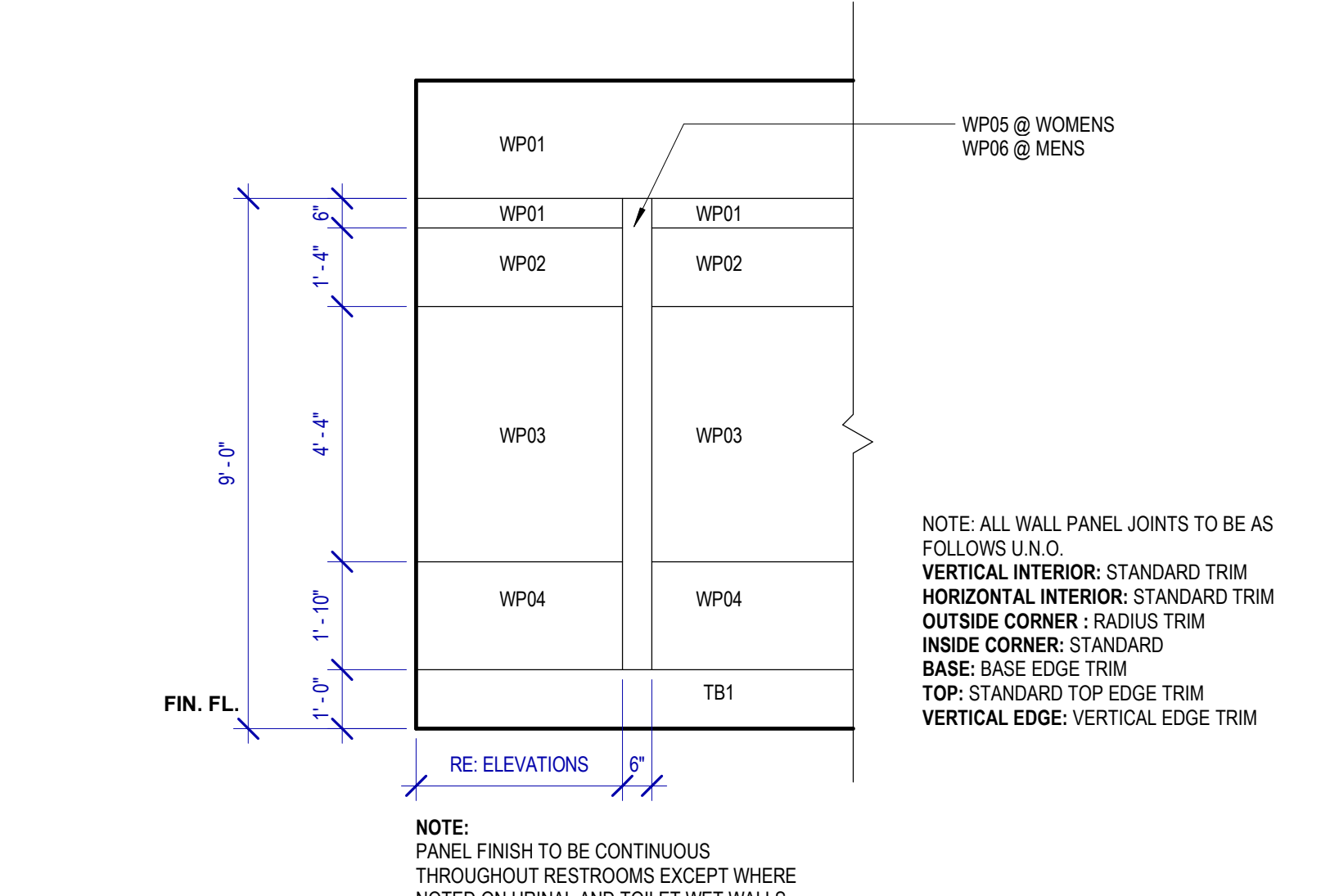
**A4 ADA MOUNTING LOCATIONS - RESTROOMS**  
SCALE: 1/2" = 1'-0"



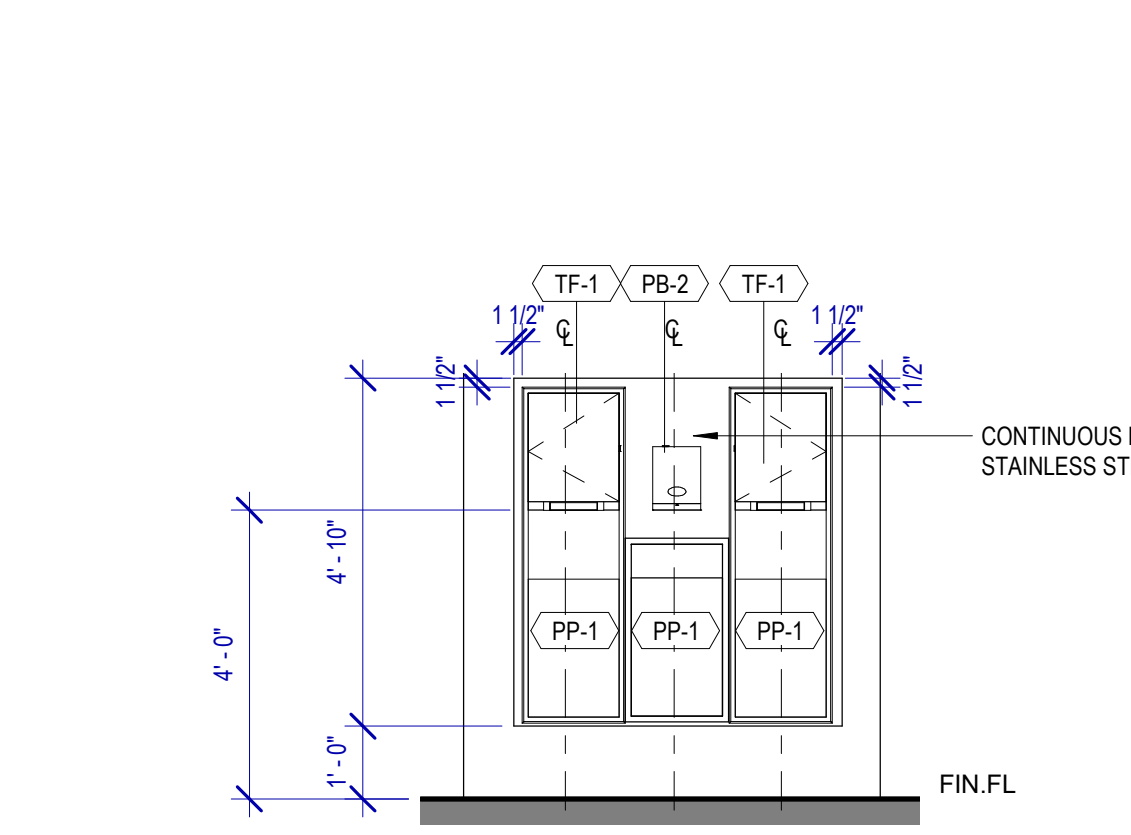
**A3 TYPICAL IPAD STATION ELEVATION**  
SCALE: 3/8" = 1'-0"



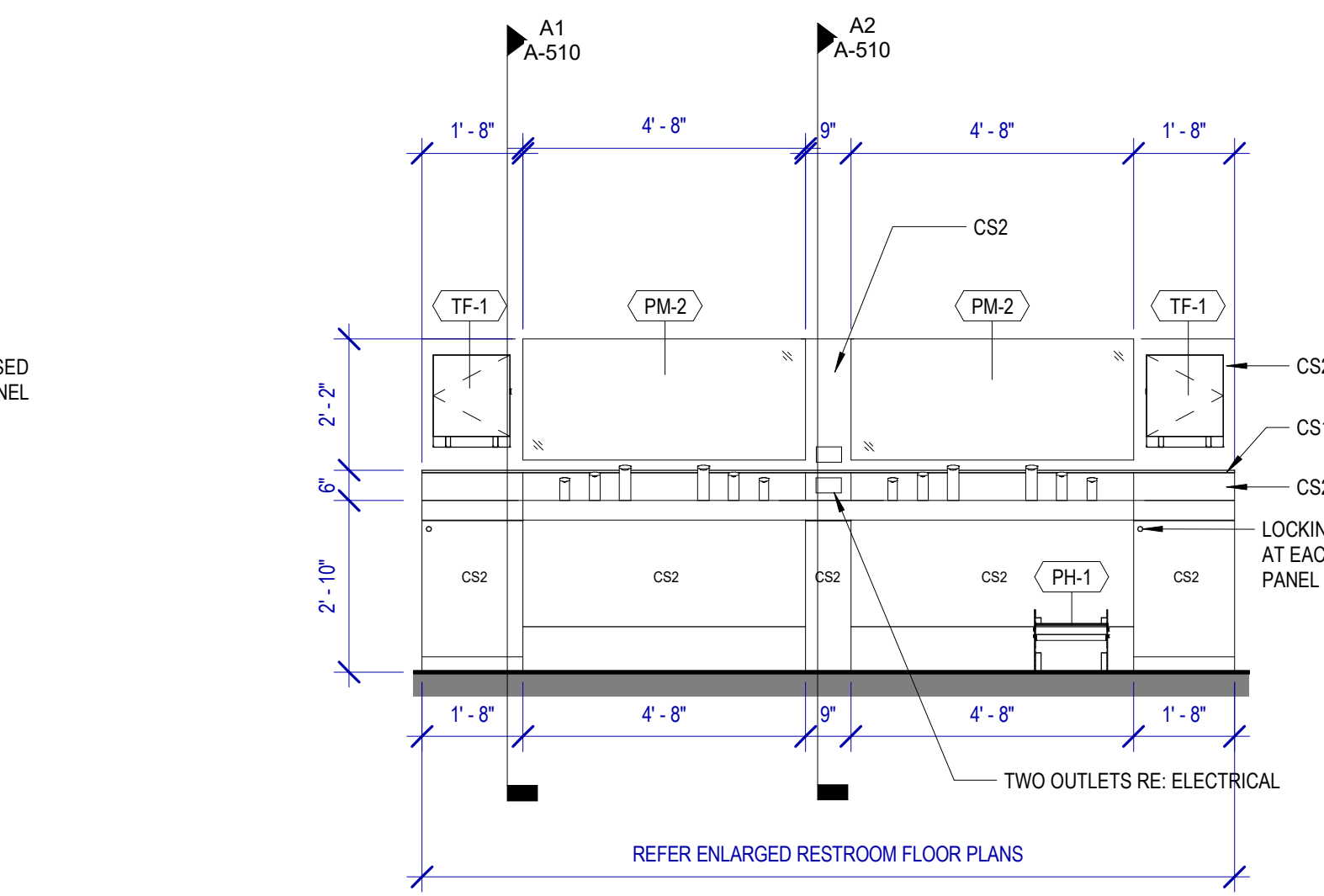
**B3 TYPICAL WALL PATTERN @ PLUMBING WALL**  
SCALE: 3/8" = 1'-0"



**C3 TYPICAL WALL PATTERN**  
SCALE: 3/8" = 1'-0"



**A2 TYP. ELEVATION AT SANITIZING STATION**  
SCALE: 3/8" = 1'-0"



**B2 TYP. LAVATORY**  
SCALE: 3/8" = 1'-0"

FILE PATH: BIM 360//1429 Hobby Restroom Renovation Phase III/1429.15\_HOU\_Restroom\_Phase3.rvt  
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**REVISIONS**

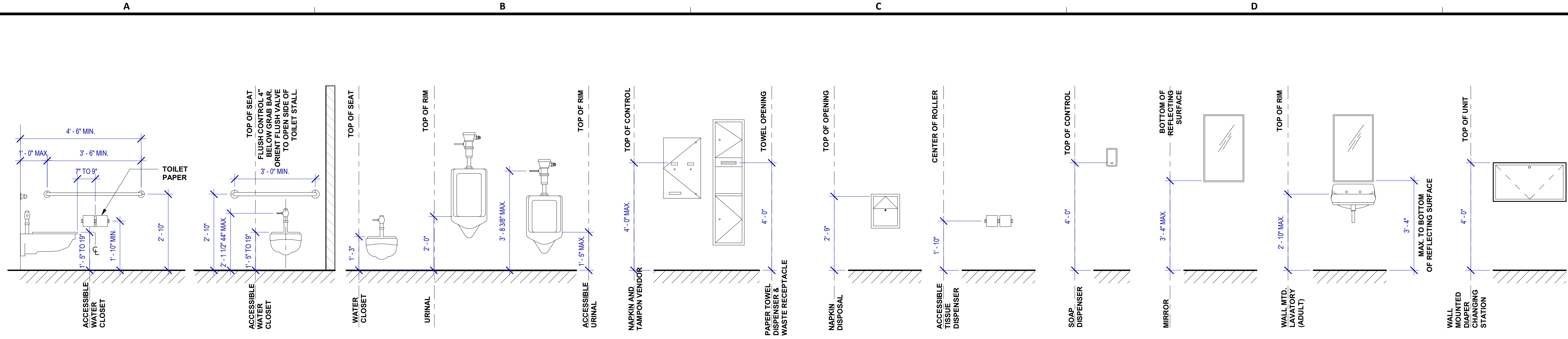
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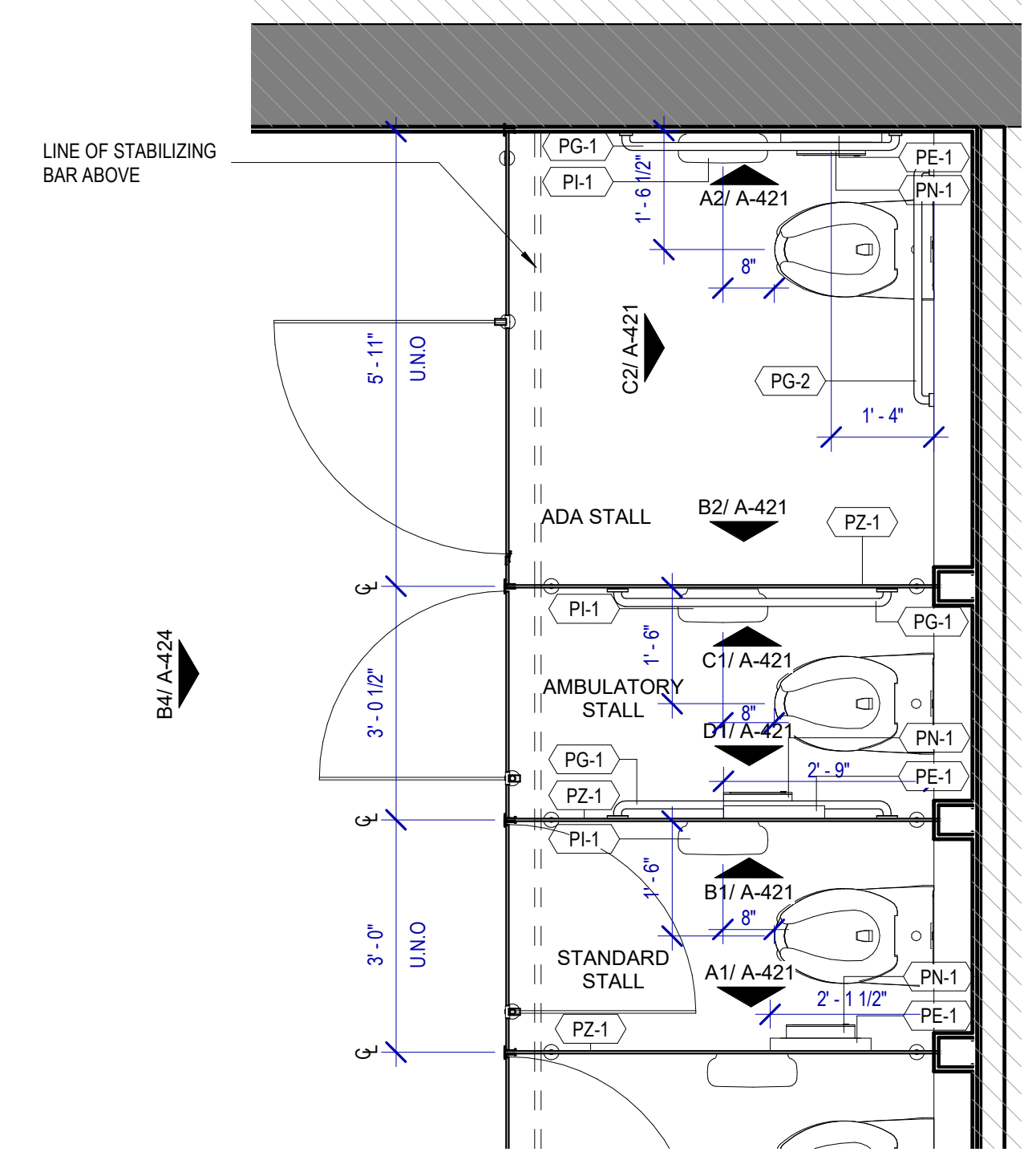
SHEET NAME: TYPICAL STALL PLANS & ELEVATIONS  
SHEET No. A-421 SCALE: As indicated  
SHEET SIZE: 30"x42" ARCH E1



**A4 ADA RESTROOM MOUNTING LOCATIONS**  
SCALE: 1/2" = 1'-0"

**TOILET ACCESSORIES**

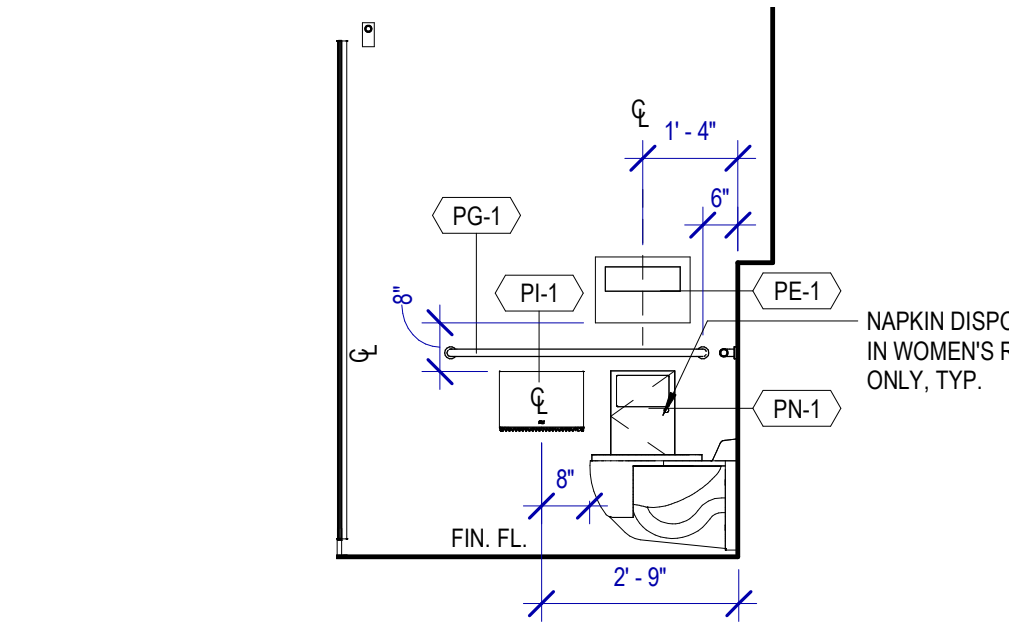
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- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE FOR BABY PRODUCTS 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSL.R.030.CS.H
- PF-2 THE SPLASH LAB RIBBON SENSOR FAUCET TSL.R.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PH-1 STEP 'N WASH FLOOR MOUNTED SELF-RETRACTING STEPT STOOL SNW-SS 975B
- PI-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LA
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LA
- PM-1 CARVART FLOATING MIRROR
- PM-2 CARVART FRAMELESS LED MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSL.R.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LA
- PX-1 BOBRICK MOP & BROOM HOLDER B-223
- PY-1 ZURN MOP SINK 1996-24
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 URINAL PARTITION RE: MATERIAL LEGEND
- PZ-3 BABY CHANGING STATION GLASS PARTITION
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202



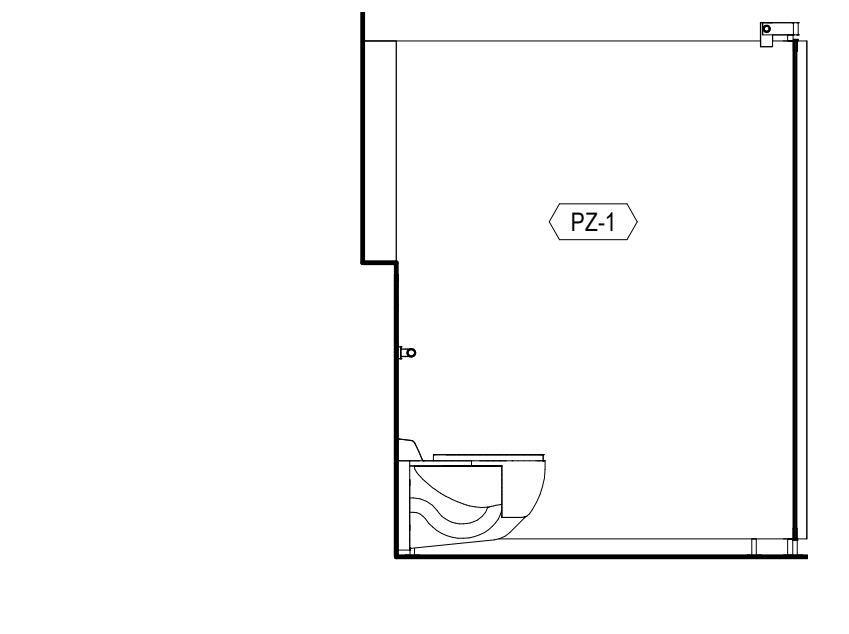
**D2 TYP. TOILET STALL FLOOR PLANS**  
SCALE: 1/12" = 1'-0"

**INTERIOR ELEVATIONS NOTES**

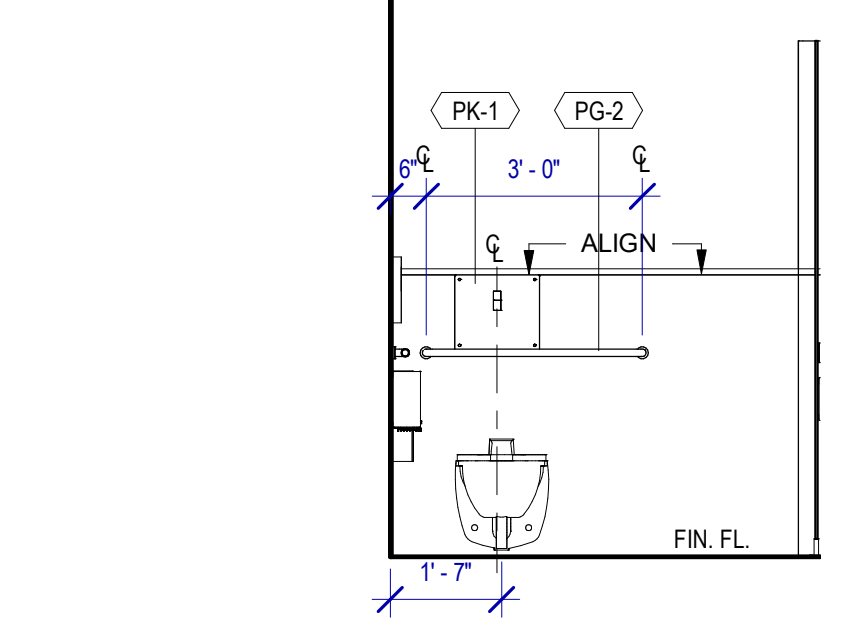
- REFER TO SHEET A600 FOR FINISH LEGEND.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.



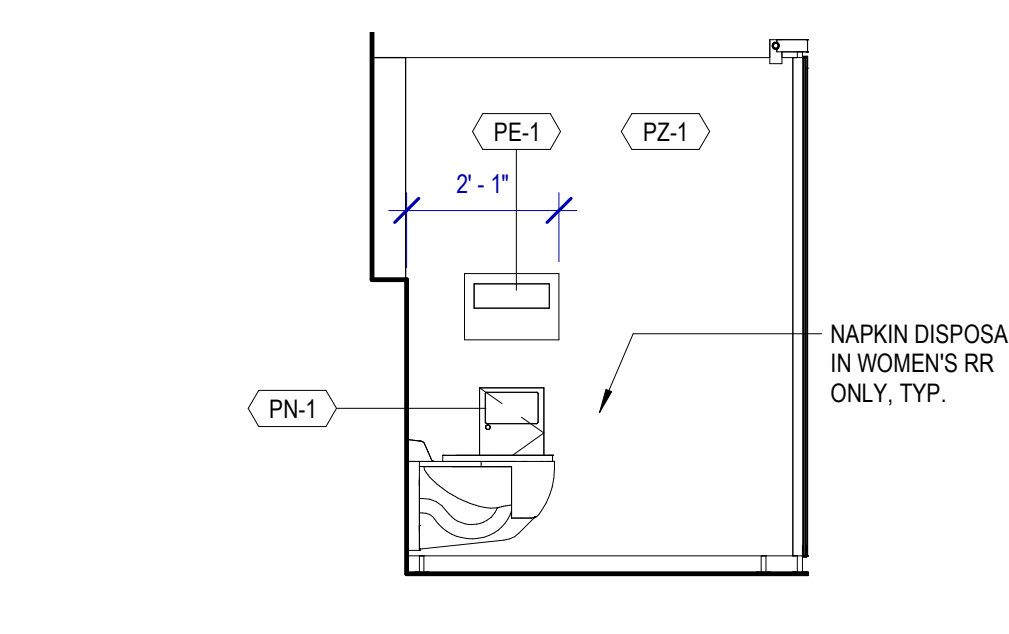
**A2 TYP. ADA STALL ELEVATION - A**  
SCALE: 3/8" = 1'-0"



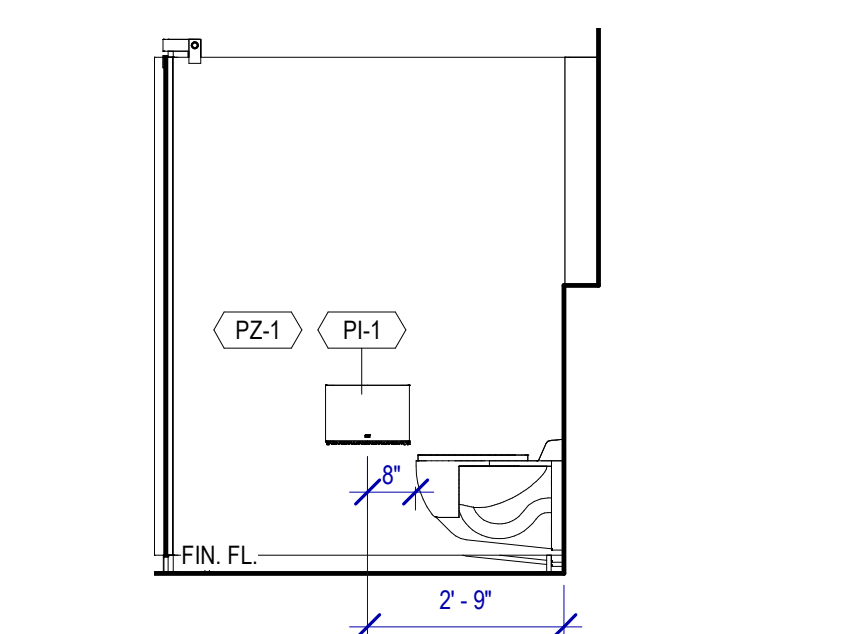
**B2 TYP. ADA STALL ELEVATION - B**  
SCALE: 3/8" = 1'-0"



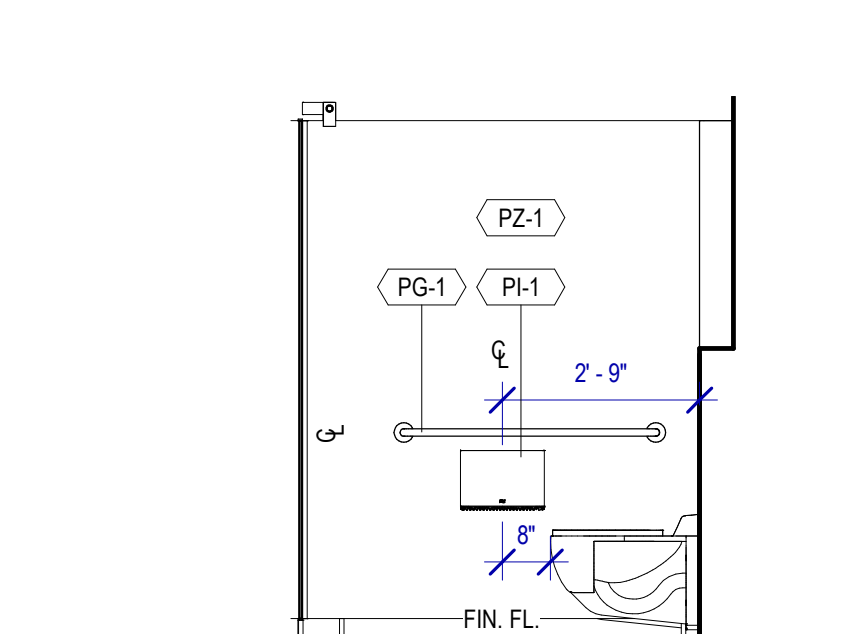
**C2 TYP. ADA STALL - BACK**  
SCALE: 3/8" = 1'-0"



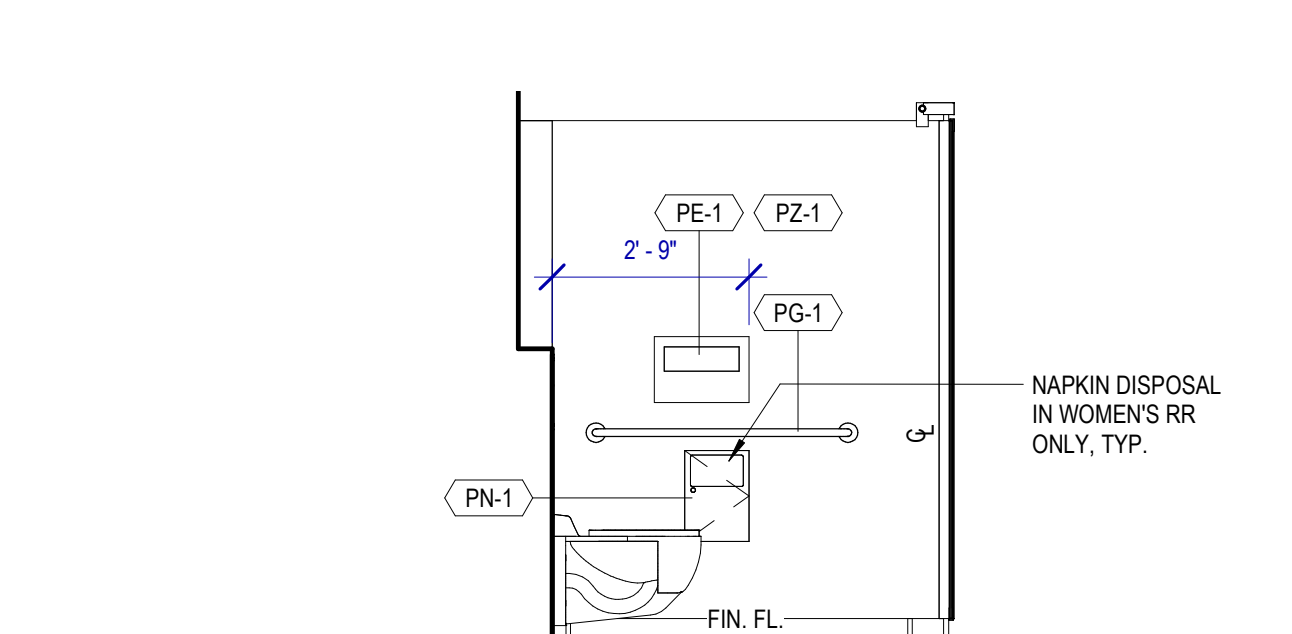
**A1 TYP. STANDARD STALL ELEVATION - A**  
SCALE: 3/8" = 1'-0"



**B1 TYP. STANDARD STALL ELEVATION - B**  
SCALE: 3/8" = 1'-0"



**C1 TYP. AMBULATORY STALL ELEVATION - A**  
SCALE: 3/8" = 1'-0"



**D1 TYP. AMBULATORY STALL ELEVATION - B**  
SCALE: 3/8" = 1'-0"

FILE PATH: BIM 360//1429 Hobby Restroom Renovation Phase III/1429.15\_HOU\_Restroom\_Phase3.rvt  
 HAS FILE:  
 PLOT DATE:  
 DOA DWG FILE:  
 OLD DOA No.:  
 PLOT DATE:

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
2	30% CD	10.28.22	HB
3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

DESIGN BY: FF  
DRAWN BY: CT  
CHECKED BY: HB  
ISSUE DATE: 01/25/2023  
APPROVED BY: Hector Berrios  
APPROVAL DATE: 01/25/2023

DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM

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**INTERIOR ELEVATIONS NOTES**

- REFER TO SHEET A600 FOR FINISH LEGEND.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.

**TOILET ACCESSORIES**

- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
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- PC-3 BRADLEY WASTE RECEPTACLE FOR BABY PRODUCTS 315-35
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- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSL.R.030 CS.H
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- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LA
- PX-1 BOBRICK MOP & BROOM HOLDER B-223
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- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
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- PZ-3 BABY CHANGING STATION GLASS PARTITION
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202

**SIGNAGE**

**DESIGN INTENT NOTES:**

- F1 PAINTED ACRYLIC BACKGROUND AREAS: BACKGROUND AREAS TO BE PAINTED WITH SOLID SATIN FINISH COLOR AS SHOWN.
- F2 PAINTED ACRYLIC LETTERS: PRECISION CUT AND PAINT LETTERS WITH SATIN COLOR TO MATCH AS SHOWN; KERNING (SPACE BETWEEN LETTERS) TO MATCH AS SHOWN (I.E. STANDARD FONT MAKER'S KERNING SETTING); APPLIED TO FINISH FACE OF F1.
- F3 PAINTED ACRYLIC LETTERS: PRECISION CUT AND PAINT LETTERS WITH SATIN COLOR TO MATCH AS SHOWN; KERNING (SPACE BETWEEN LETTERS) TO MATCH AS SHOWN (I.E. STANDARD FONT MAKER'S KERNING SETTING); APPLIED TO FINISH FACE OF F1.

**ADDITIONAL NOTES:**

- FIELD VERIFICATION: FABRICATOR TO FIELD VERIFY ALL INSTALLATION CONDITIONS AT EACH LOCATION AND DETERMINE THE APPROPRIATE FABRICATION/INSTALLATION METHODS AND MATERIALS TO BE USED AS CONDITIONS REQUIRE (TO BE COORDINATED WITH AND APPROVED BY HAS PRIOR TO FABRICATION AND INSTALLATION).
- INSTALLATION: FABRICATOR TO COORDINATE INSTALLATION OF ACRYLIC PANELS WITH WALL PANEL SYSTEMS, FACEMOUNT SYSTEM AND MOUNTING REQUIREMENTS PRIOR TO FABRICATION/MOCK-UP OF ACRYLIC PANELS IN INSTALLATION SYSTEM TO BE APPROVED BY HAS PRIOR TO FABRICATION AND INSTALLATION.

**LETTERING (TYPEFACES)/SYMBOLS/ARROWS:**

- L5 PEDESTRIAN WAYFINDING TYPEFACE: CLEARVIEW TEXT MEDIUM
- L6 SUPPLEMENTAL TYPEFACE: CLEARVIEW ONE BOOK CONDENSED
- S1 ARROW(S): USE ONLY OFFICIAL HAS WAYFINDING ARROWS
- S2 UNIVERSAL SYMBOLS: USE ONLY OFFICIAL HAS WAYFINDING SYMBOLS
- W1 WATERMARK GRAPHIC: USE ONLY OFFICIAL HAS "GLOBE" VECTOR ART (ART CAN BE EXTRACTED FROM DIGITAL VERSION OF THIS DRAWING)

**COLORS:**  
NOTES: "D" = DIGITALLY PRINTED COLORS ON 3M 7725-20 WHITE UNLESS OTHERWISE NOTED; "PP" = MATTHEWS ACRYLIC POLYURETHANE (MAP) PAINT (OR EQUAL) SATIN FINISH; "V" = 3M VINYL FILMS (OR EQUAL); "T" = TACTILE

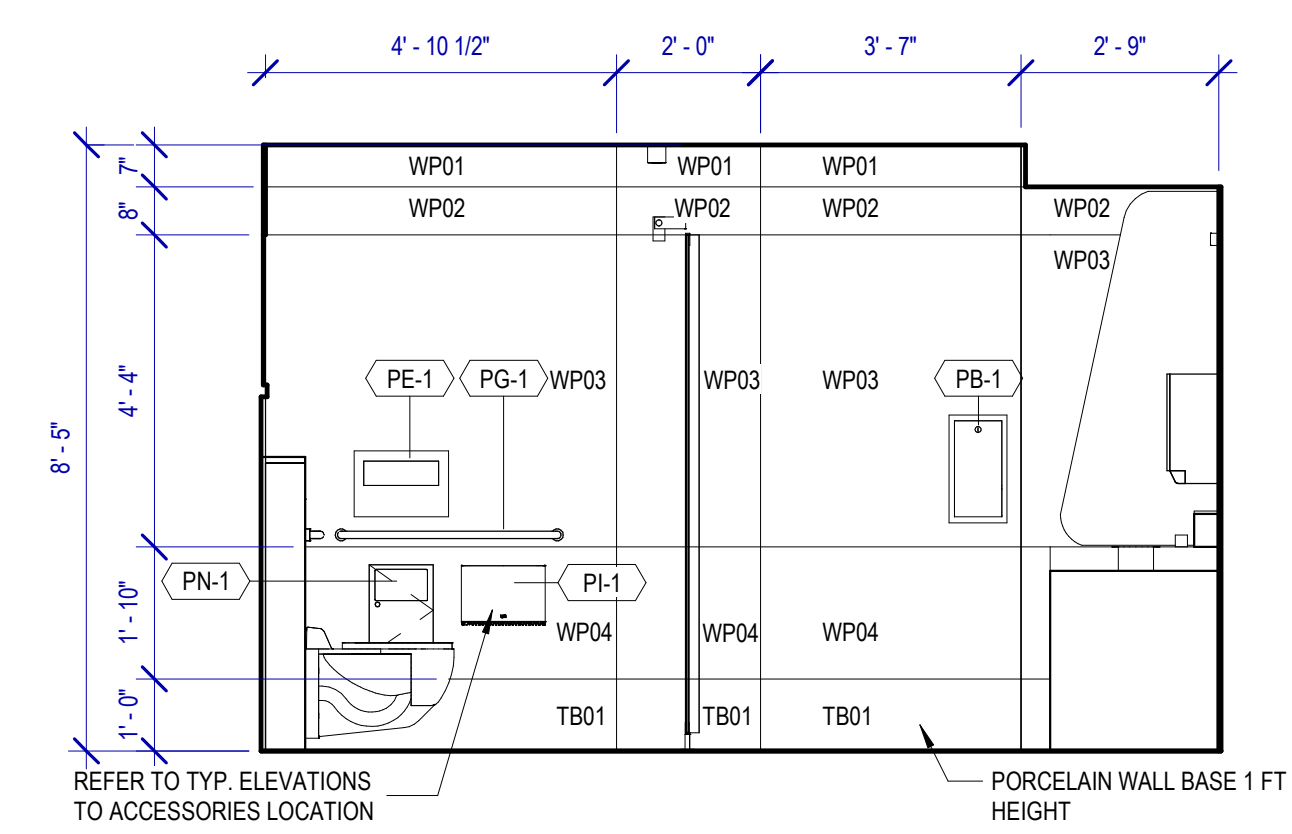
- V4.1 WHITE: 3M 7725-20 WHITE OPAQUE
- D5 DARK GRAY: PMS 433C
- D7.2 MED. GRAY: PMS 431C
- D17 C BLUE: PMS 300C
- D23 TRAIN YELLOW: PMS 3965C
- D6 MED. DARK GRAY: PMS 432C
- D18 C WATERMARK: PMS 294C
- D24 TRAIN WATERMARK: PMS 3975C

**DIGITAL SIGNAGE:**

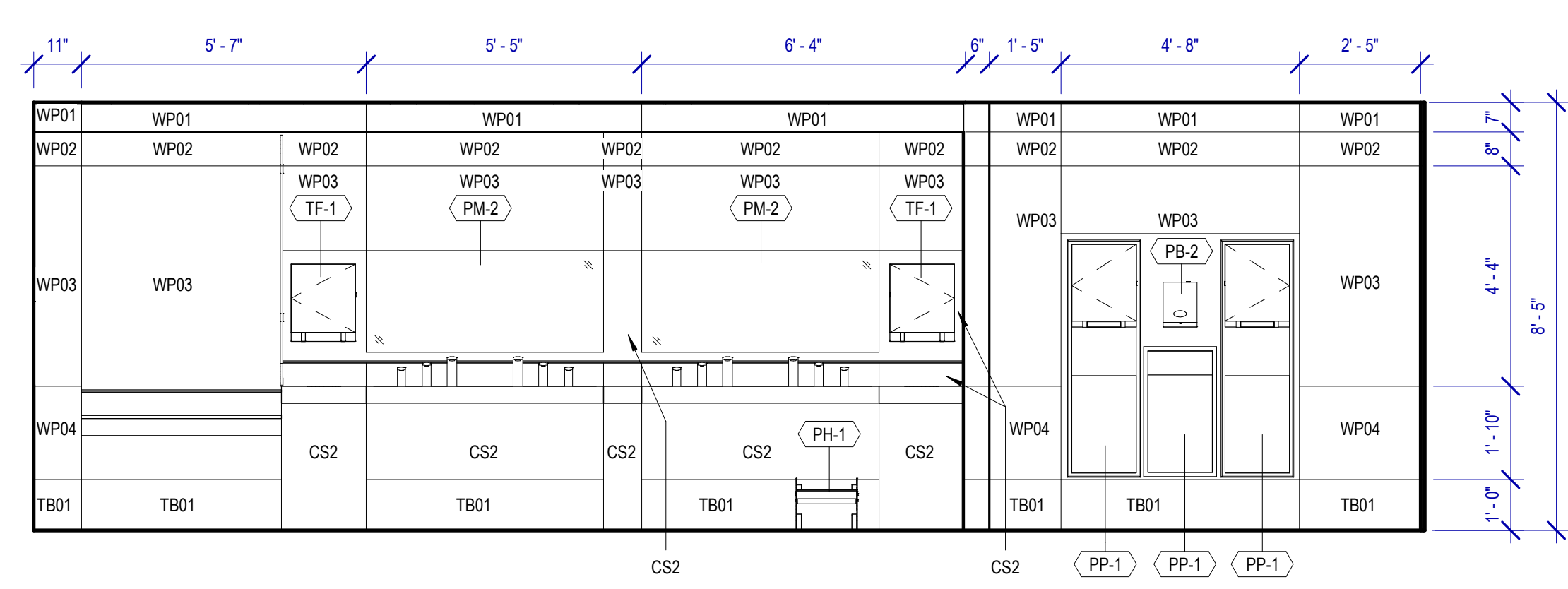
- DS1 SMART RESTROOM DIGITAL SIGNAGE: 32" DISPLAY. REFER TO ELECTRICAL AND TELECOM DRAWINGS.
- DS3 PROVIDE POWER OUTLET AND DATA OUTLETS. REFER TO ELECTRICAL AND TELECOM DRAWINGS.

**IDENTIFICATION SIGNAGE:**

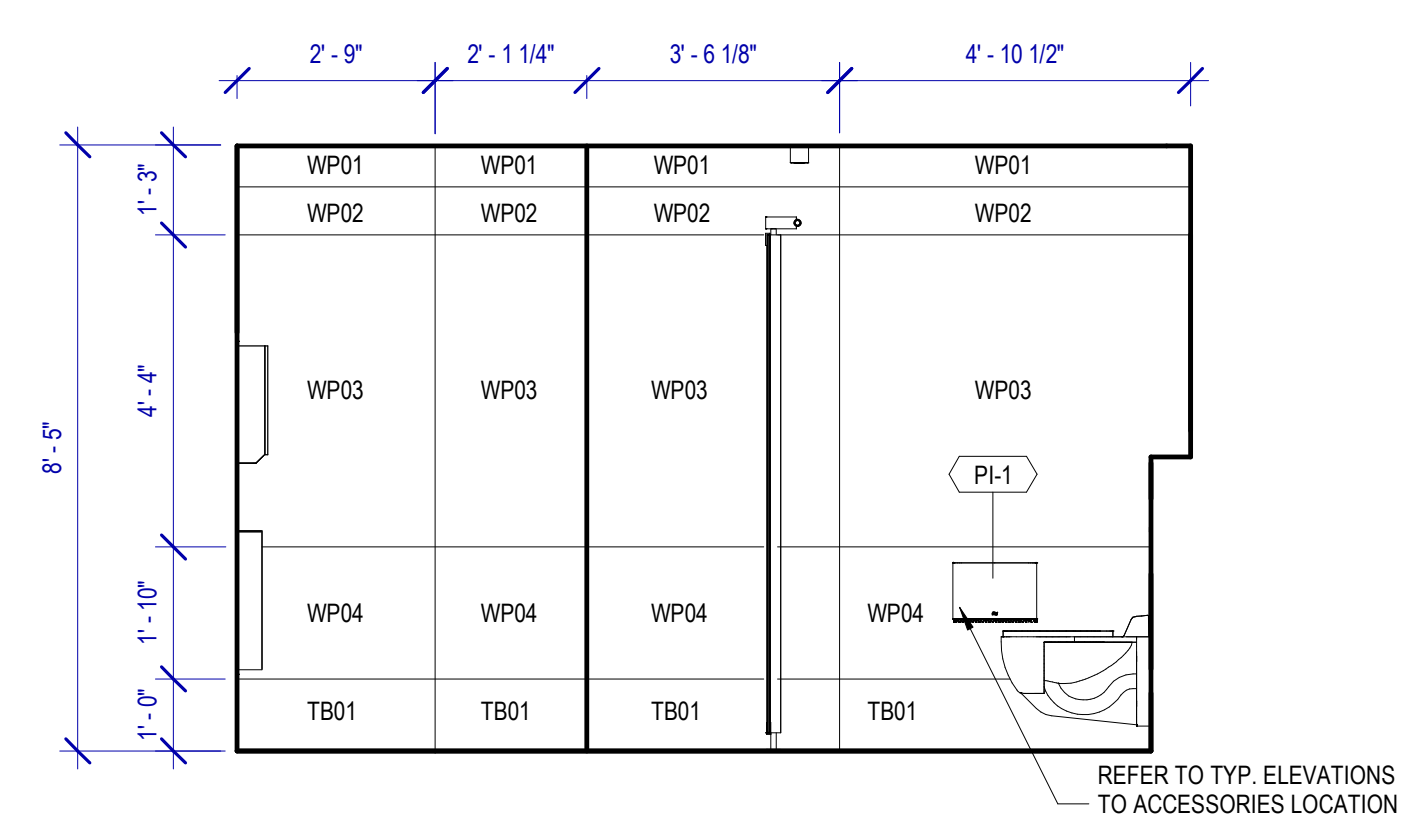
- EXISTING ROOM IDENTIFICATION AND WAYFINDING SIGNAGE TO BE SALVAGED PRIOR TO CONSTRUCTION FOR REINSTALLATION, INCLUDING, BUT NOT LIMITED TO, ROOM SIGNS AND BLADE/FIN SIGNS.
- ALL EXISTING SIGNAGE REMOVED TO BE REVIEWED BY HAS AND THE WAYFINDING DESIGN CONSULTANTS FOR ANY CHANGES OR UPDATES MADE TO THE HAS STANDARDS AND GRAPHICS.
- NEW SIGNAGE REQUIRED PER OWNER TO BE COORDINATED BY THE CONTRACTOR. ALL FINAL DETAILING AND SPECIFICATIONS TO BE PROVIDED BY THE CONTRACTOR/FABRICATOR/INSTALLER WITHIN THEIR FINAL APPROVED FABRICATION-READY SHOP DRAWINGS.
- INSTALLATION OF EXISTING AND NEW SIGNAGE TO BE PER ALL APPLICABLE CODES, TDLR/ADA STANDARDS, AND HAS STANDARDS.



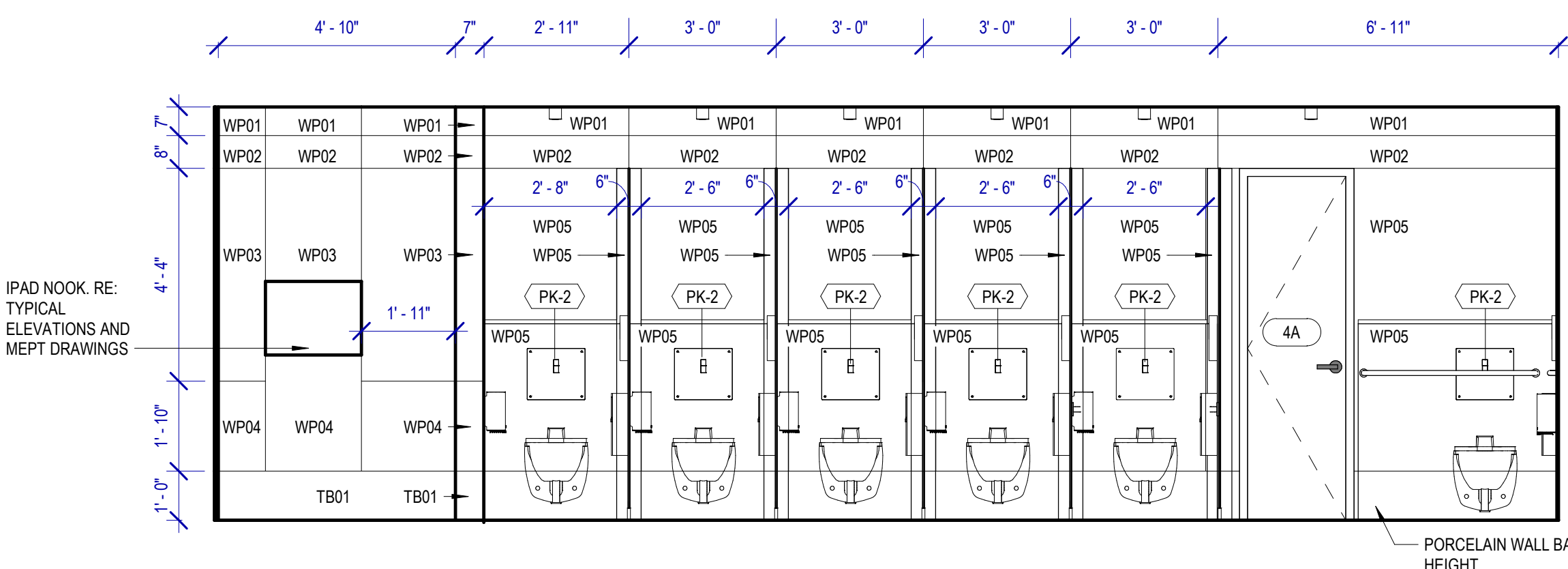
**A4 WOMEN'S RESTROOM - GATE 4-A**  
SCALE: 3/8" = 1'-0"



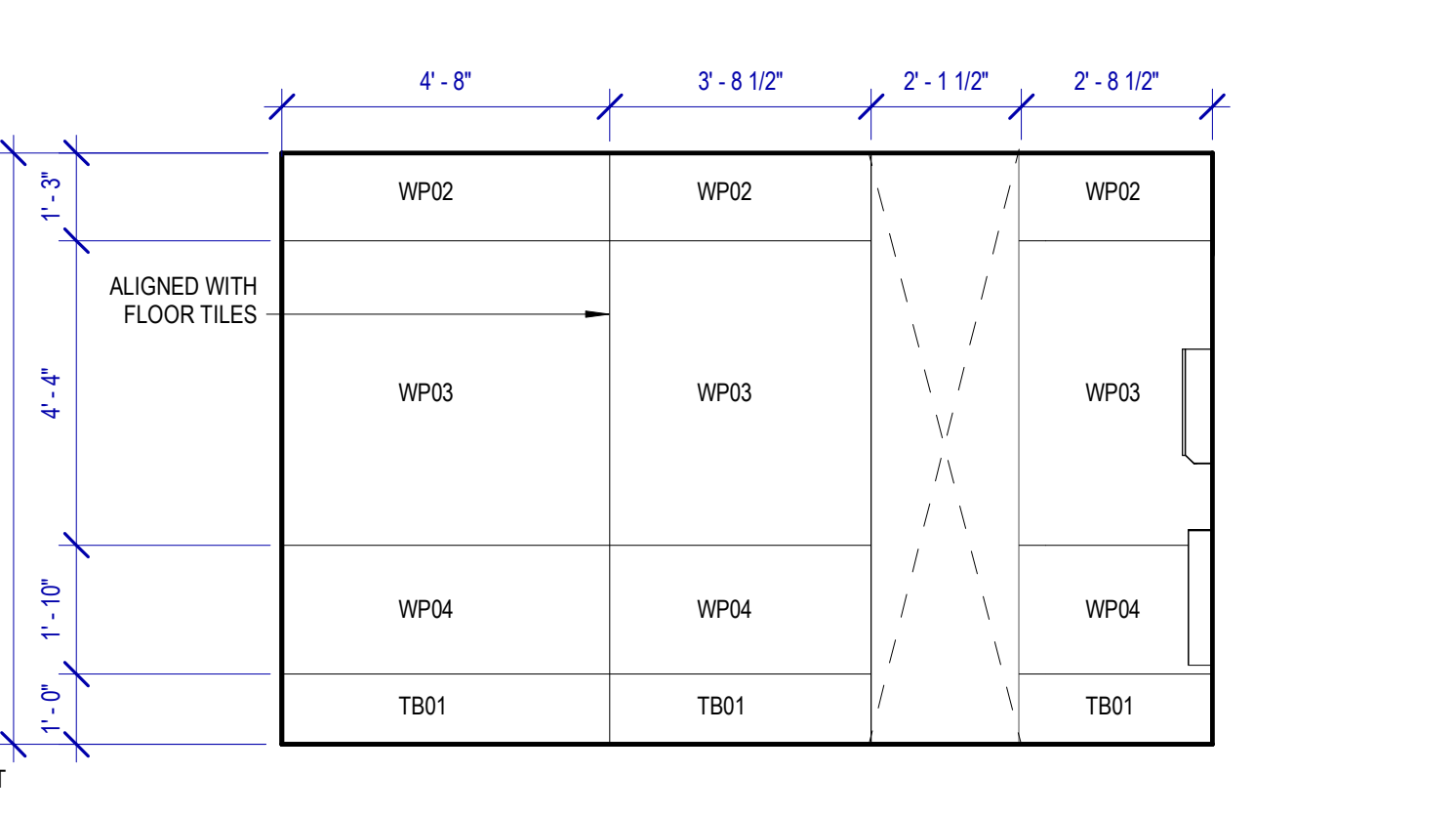
**B4 WOMEN'S RESTROOM - GATE 4-B**  
SCALE: 3/8" = 1'-0"



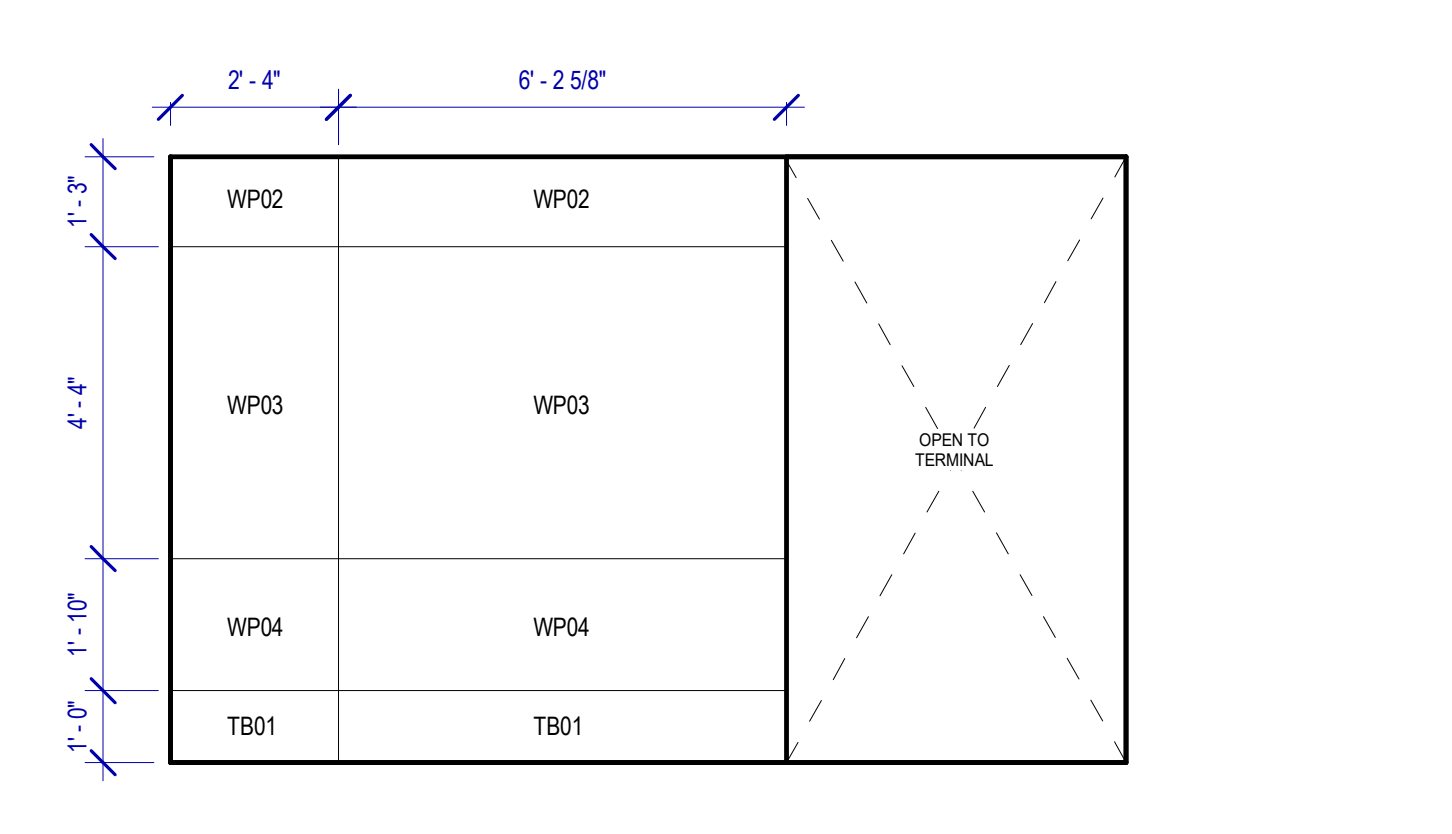
**D4 WOMEN'S RESTROOM - GATE 4-C**  
SCALE: 3/8" = 1'-0"



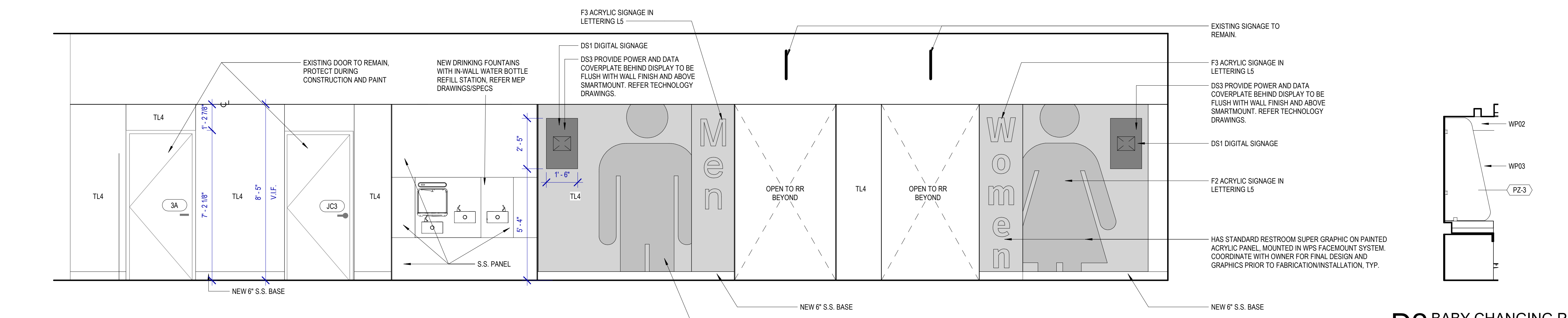
**A3 WOMEN'S RESTROOM - GATE 4-D**  
SCALE: 3/8" = 1'-0"



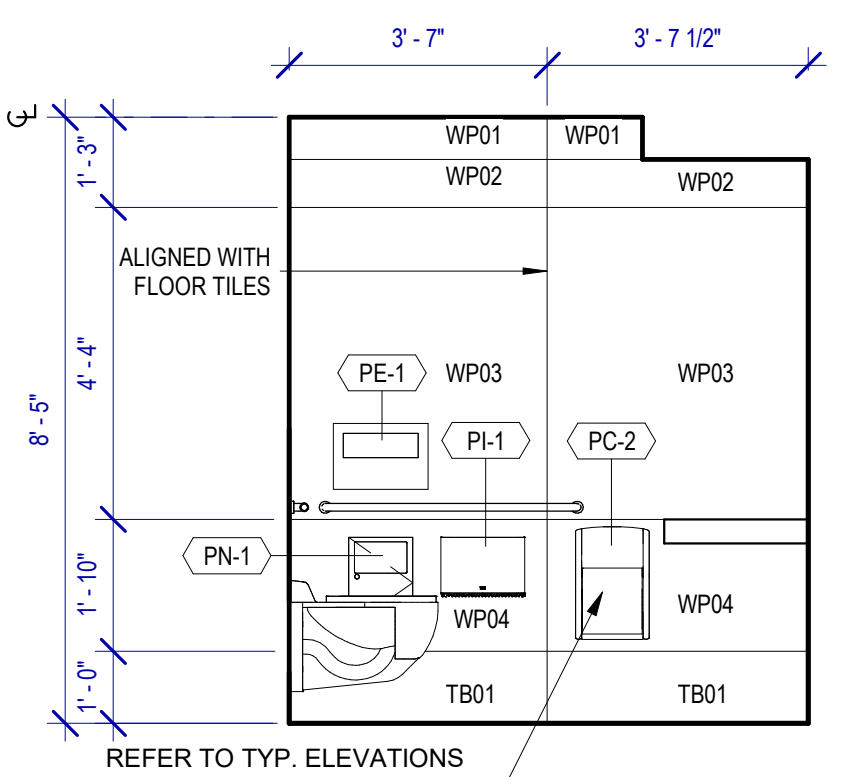
**B3 WOMEN'S RESTROOM - GATE 4-G**  
SCALE: 3/8" = 1'-0"



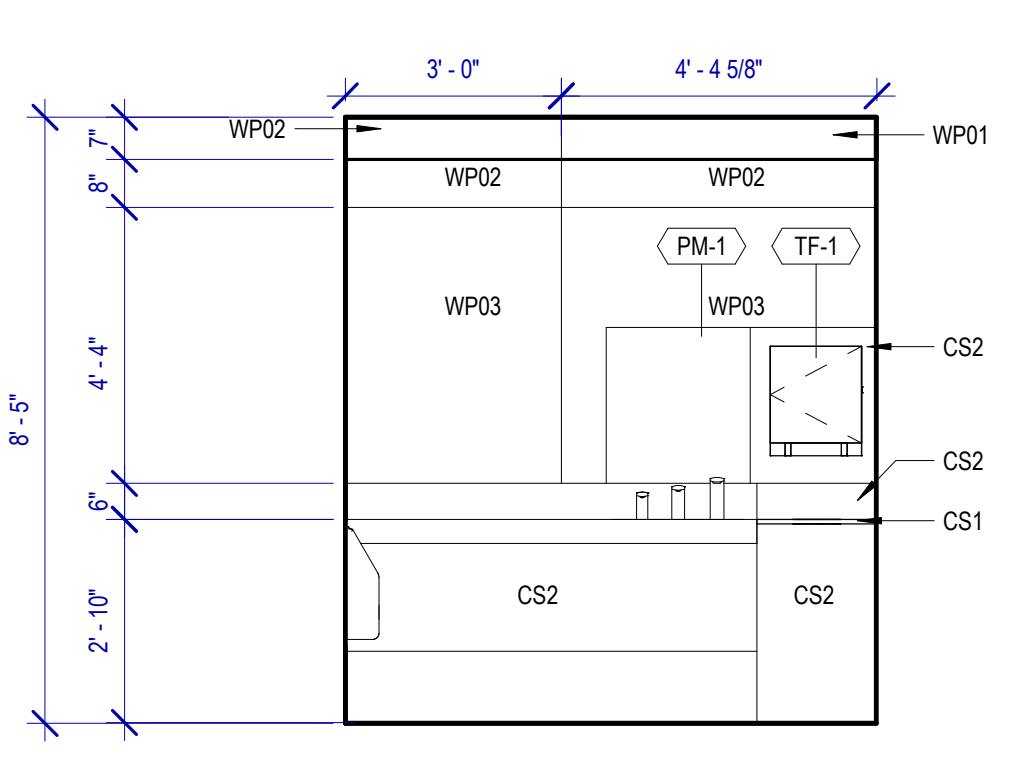
**D3 WOMEN'S RESTROOM - GATE 4-F**  
SCALE: 3/8" = 1'-0"



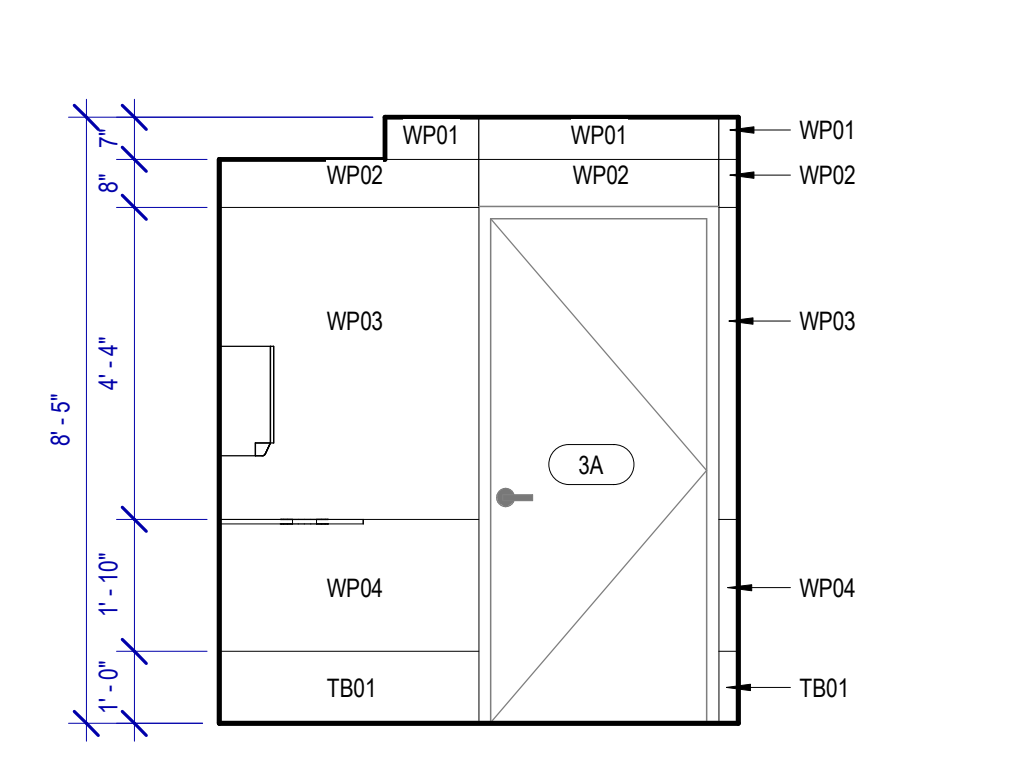
**A2 ELEVATION - RESTROOMS 3.3A, 4 AND JC3 @ CORRIDOR**  
SCALE: 3/8" = 1'-0"



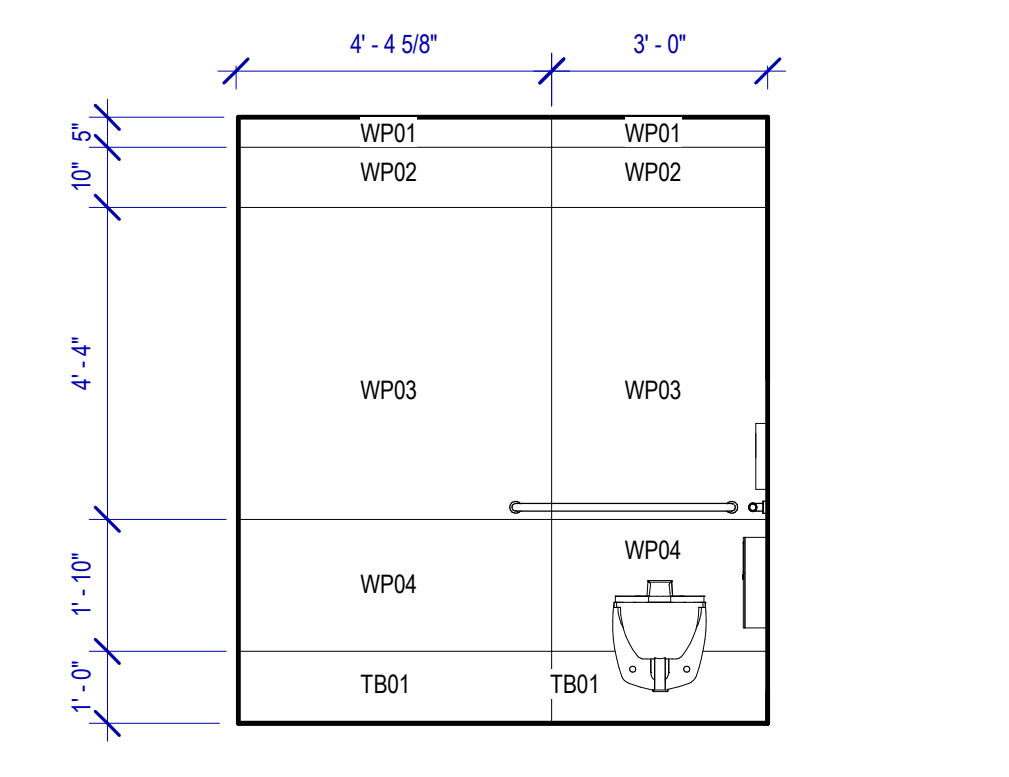
**A1 FAMILY RESTROOM - GATE 3A-A**  
SCALE: 3/8" = 1'-0"



**B1 FAMILY RESTROOM - GATE 3A-B**  
SCALE: 3/8" = 1'-0"



**C1 FAMILY RESTROOM - GATE 3A-C**  
SCALE: 3/8" = 1'-0"



**D1 FAMILY RESTROOM - GATE 3A-D**  
SCALE: 3/8" = 1'-0"

**D2 BABY CHANGING PARTITION**  
SCALE: 3/8" = 1'-0"

FILE PATH: BIM 360//1429 Hobby Restroom Renovation Phase III/1429\_15\_HOU\_Restroom\_Phase3.rvt  
 PLOT DATE: HAS FILE:  
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 OLD DOA No.: PLOT DATE:



REVISIONS			
No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
2	30% CD	10.28.22	HB
3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

DESIGN BY: FF  
DRAWN BY: CT  
CHECKED BY: HB  
ISSUE DATE: 01/25/2023  
APPROVED BY: Hector Berrios  
APPROVAL DATE: 01/25/2023

DIRECTOR  
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HOUSTON AIRPORT SYSTEM

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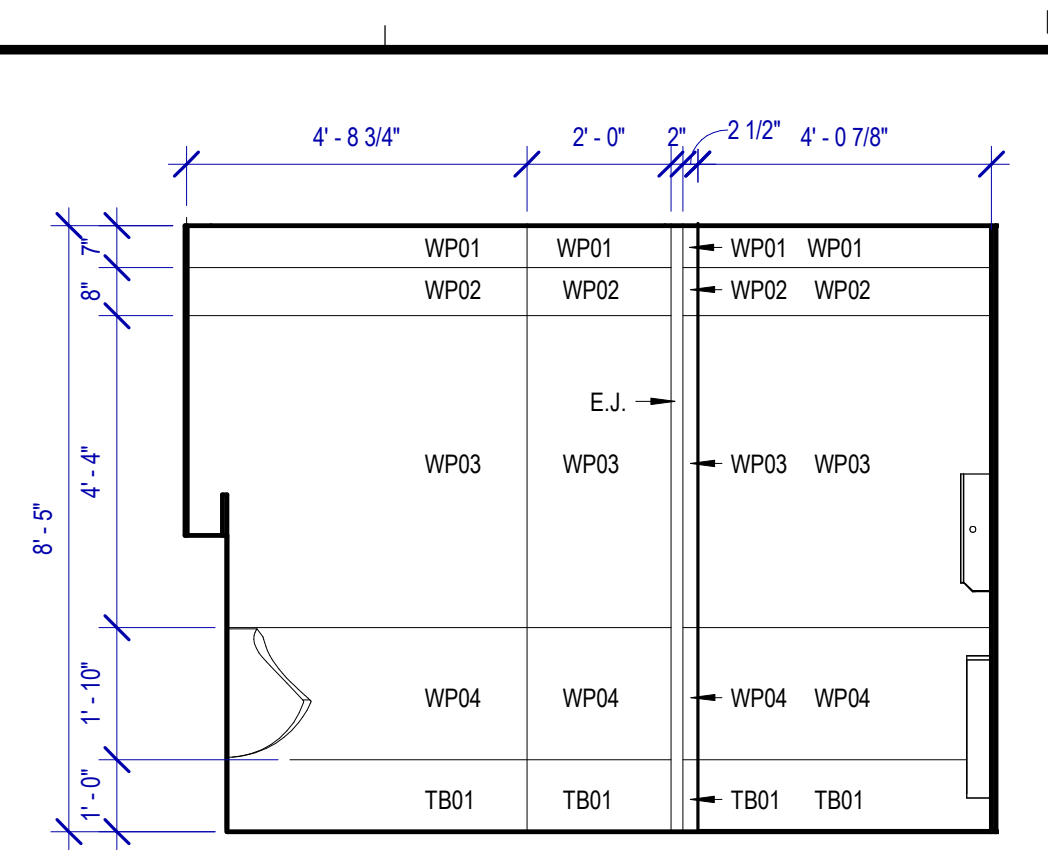
ISSUED FOR CONSTRUCTION

**TOILET ACCESSORIES**

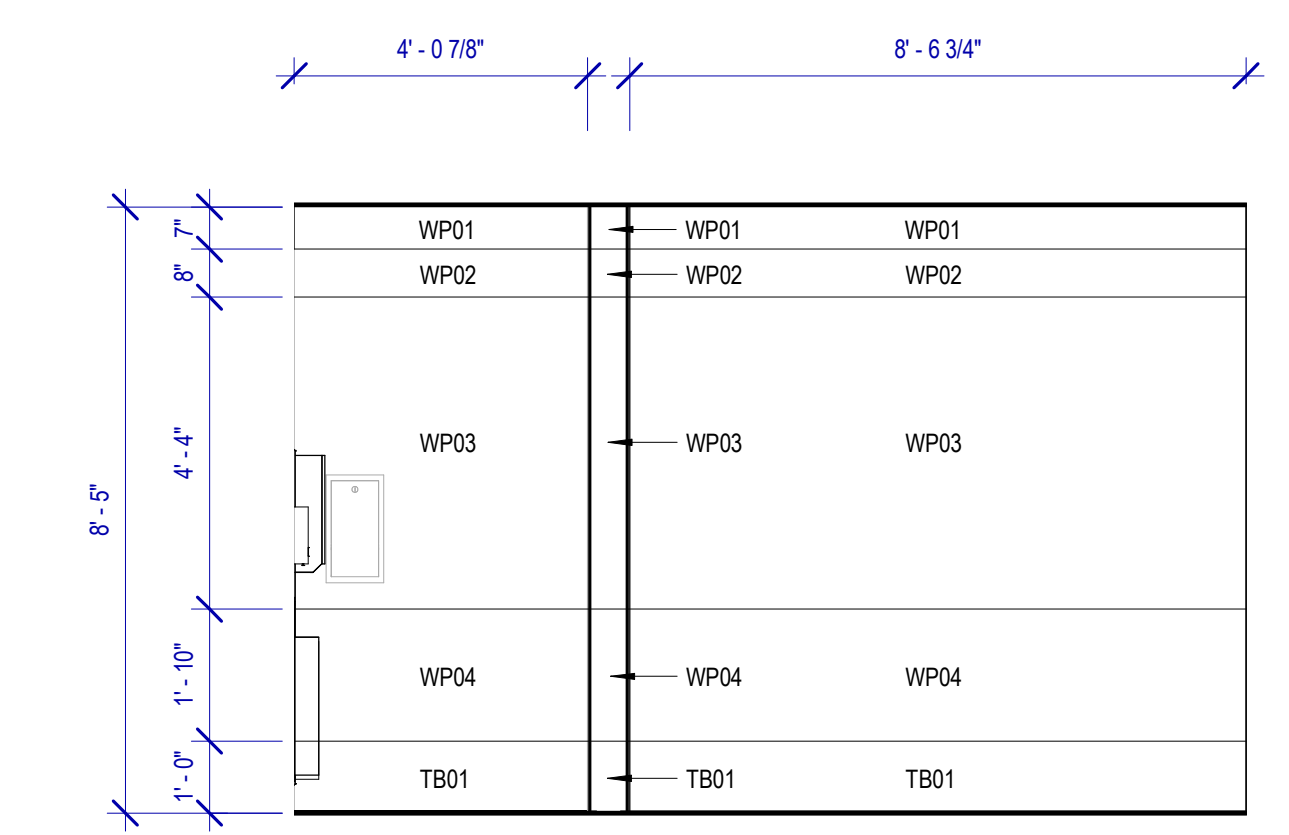
- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE FOR BABY PRODUCTS 315-335
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSL.R.030.CS.H
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- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSL.R.010.CS.H
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- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LA
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**INTERIOR ELEVATIONS NOTES**

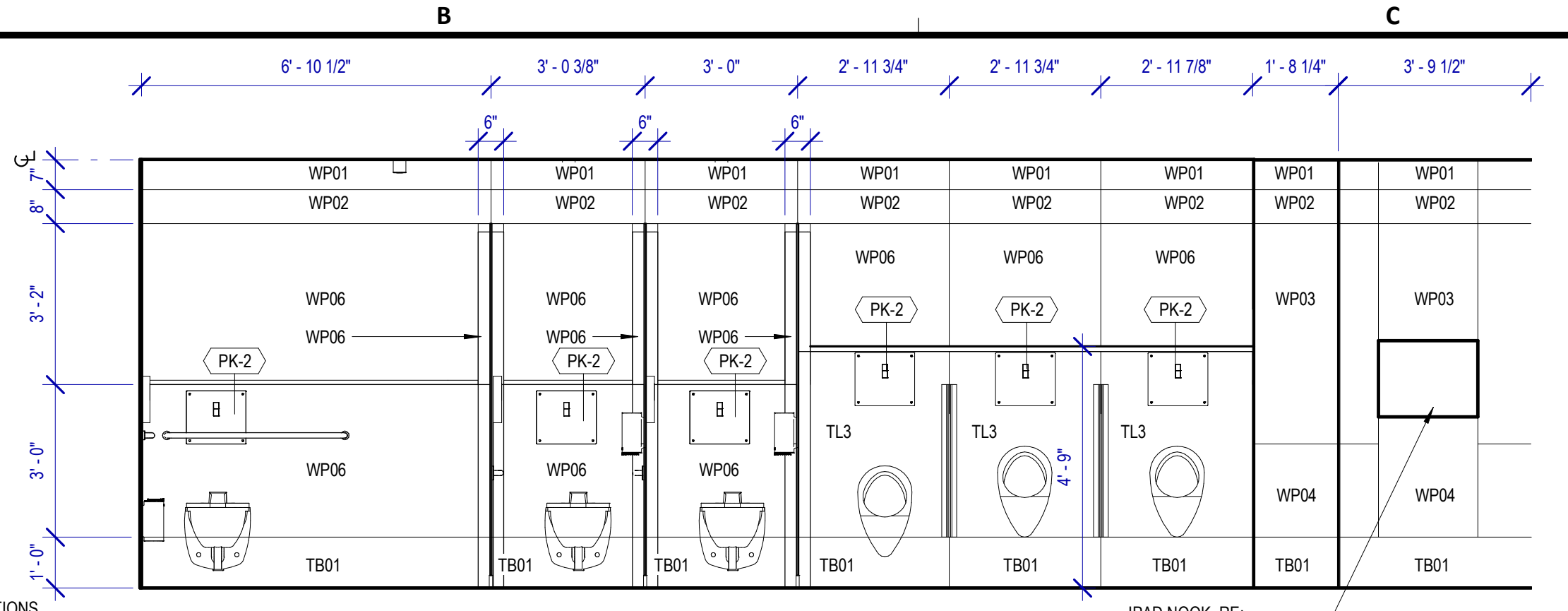
1. REFER TO SHEET A600 FOR FINISH LEGEND.
2. ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
3. PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
4. INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.



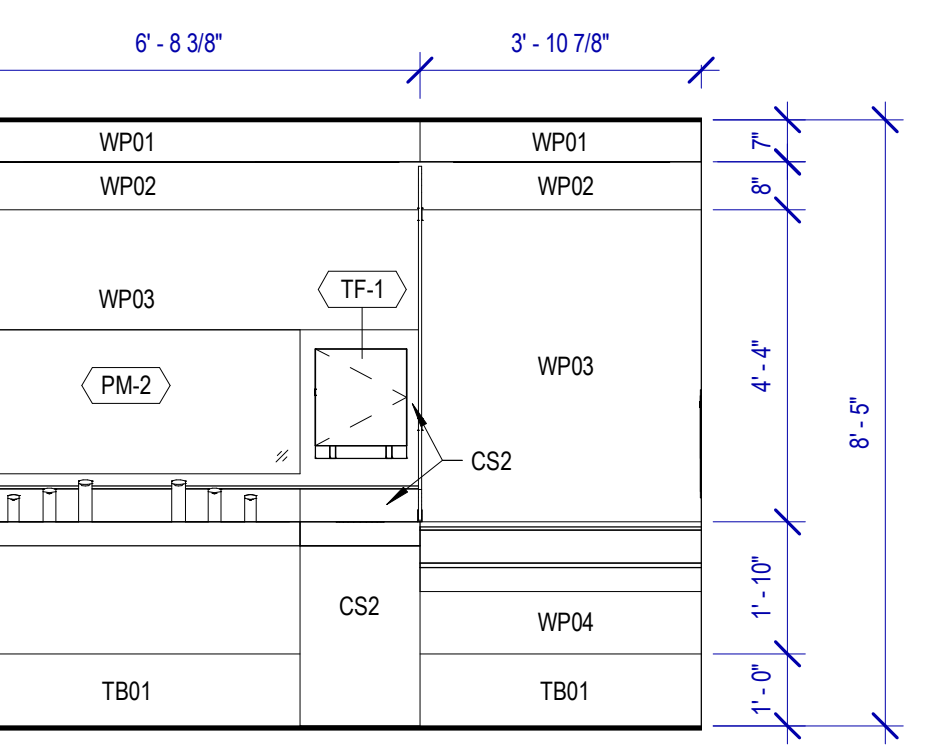
**C4 MEN'S RESTROOM - GATE 3-C**  
SCALE: 3/8" = 1'-0"



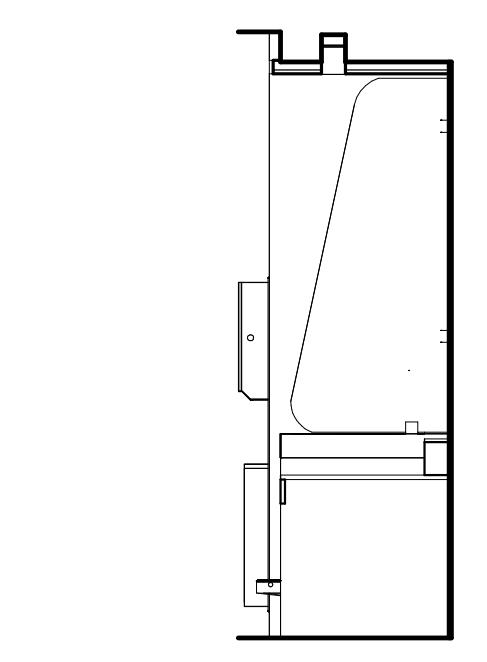
**C3 MEN'S RESTROOM - GATE 3-F**  
SCALE: 3/8" = 1'-0"



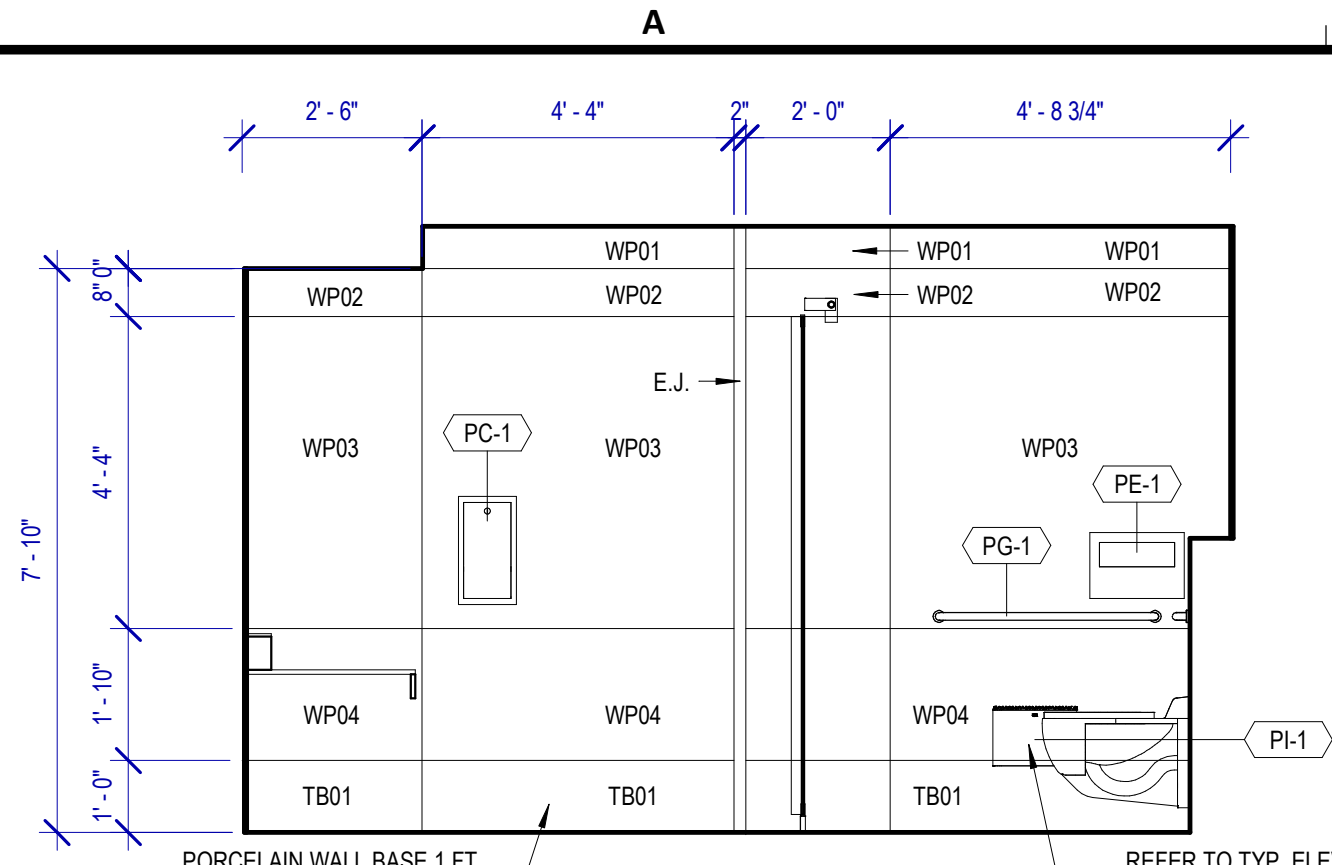
**B4 MEN'S RESTROOM - GATE 3-B**  
SCALE: 3/8" = 1'-0"



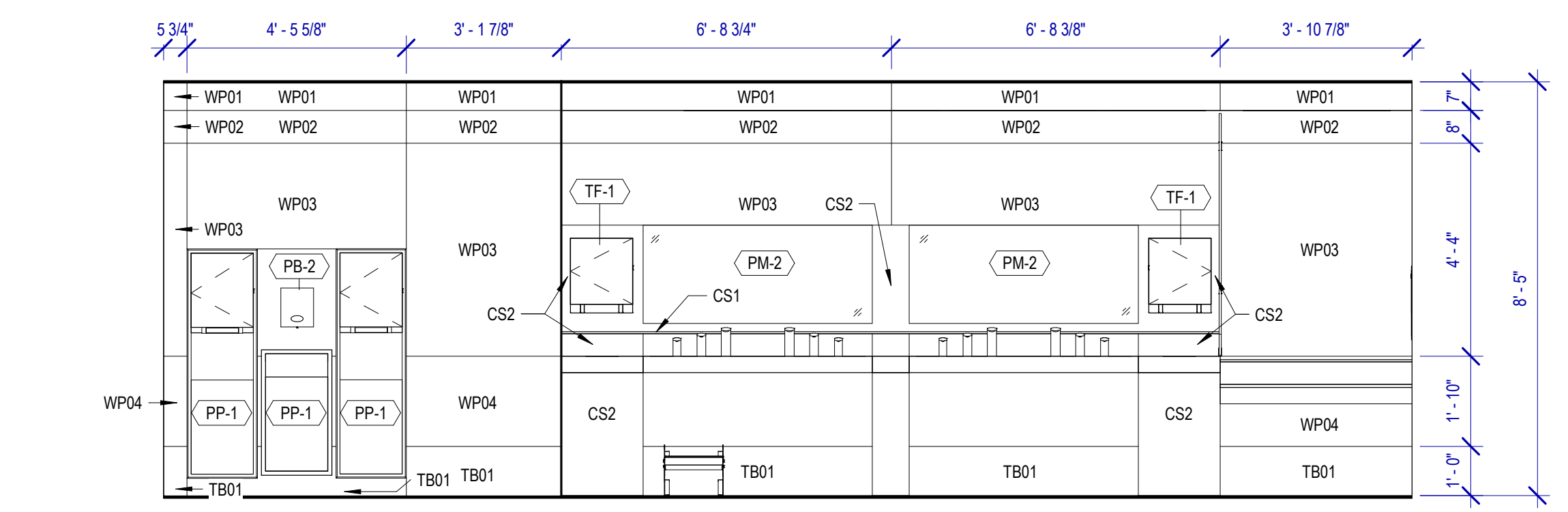
**A3 MEN'S RESTROOM - GATE 3-D**  
SCALE: 3/8" = 1'-0"



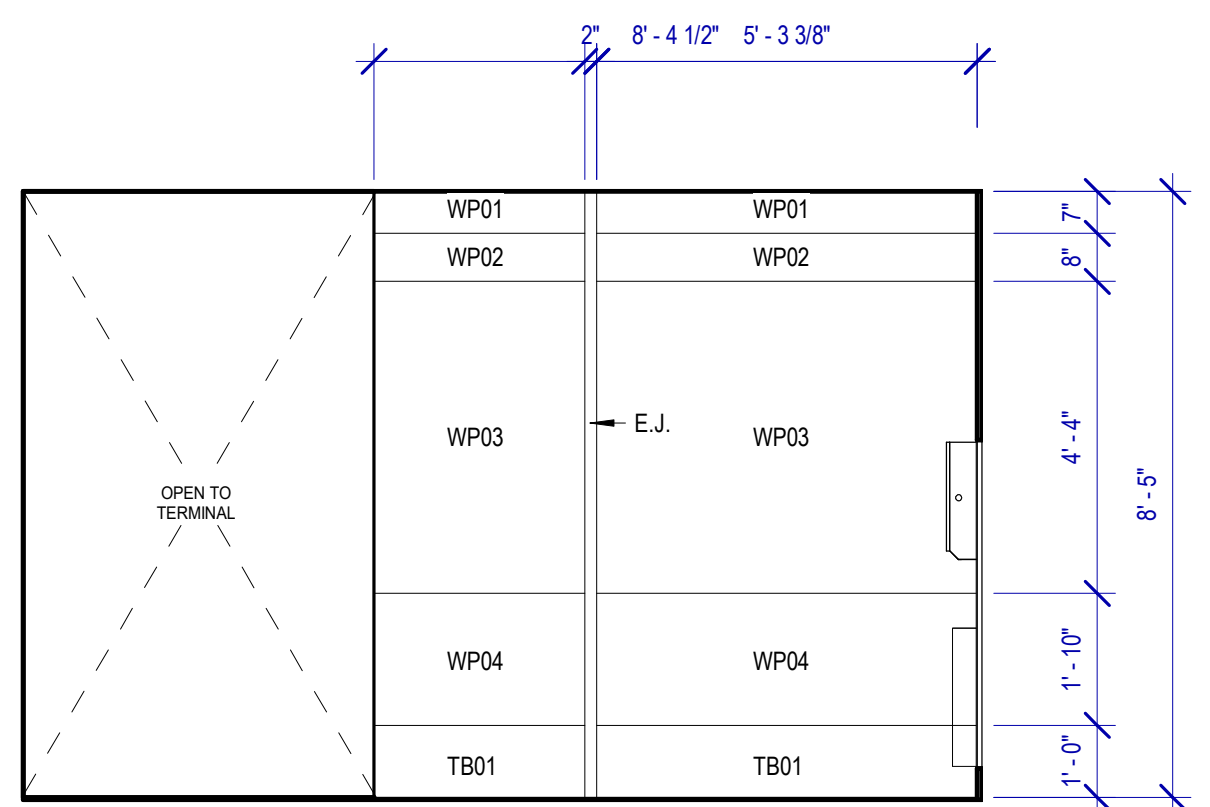
**B3 MEN'S RESTROOM - GATE 3-E**  
SCALE: 3/8" = 1'-0"



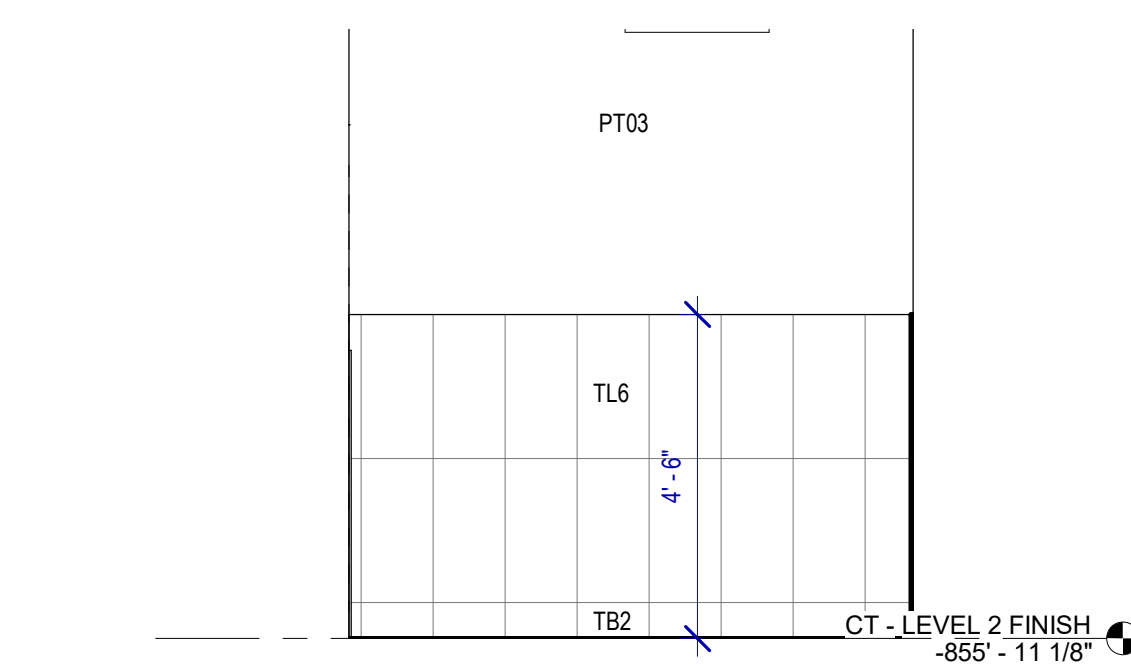
**A4 MEN'S RESTROOM - GATE 3-A**  
SCALE: 3/8" = 1'-0"



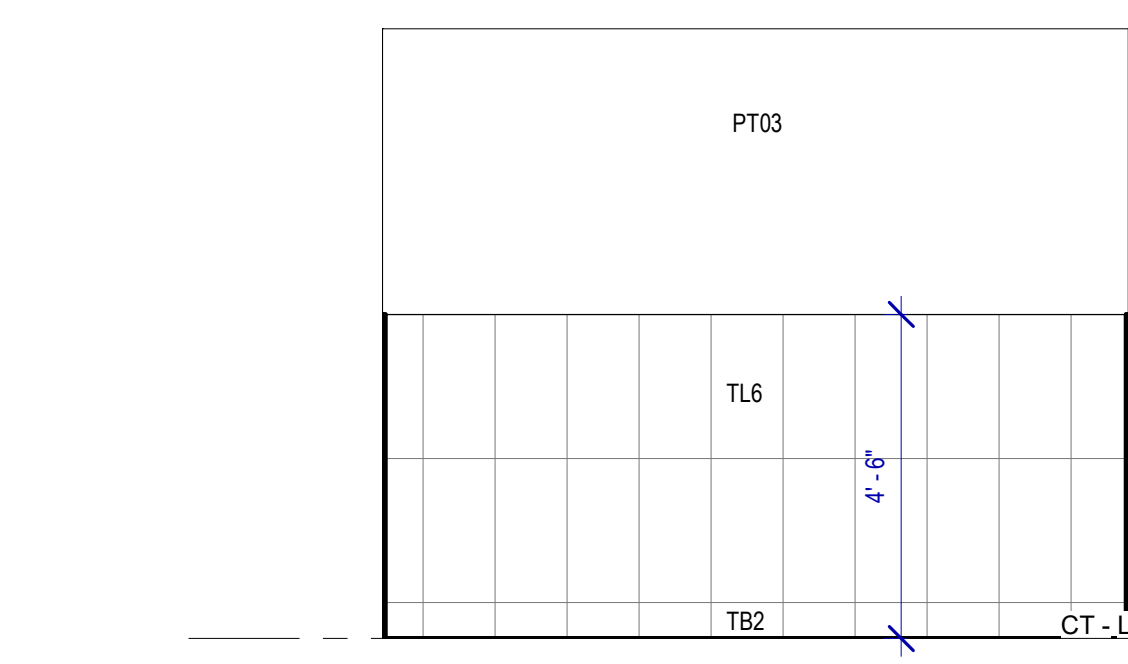
**A2 MEN'S RESTROOM - GATE 3-G**  
SCALE: 3/8" = 1'-0"



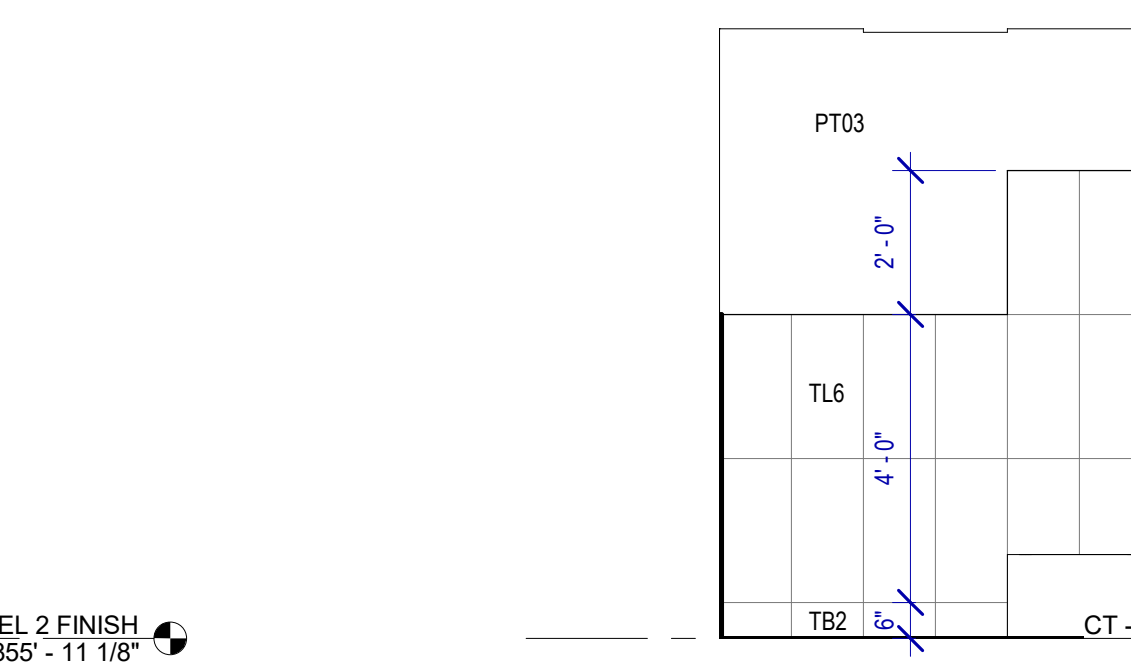
**A1 JANITOR - JC3 - A**  
SCALE: 3/8" = 1'-0"



**B1 JANITOR - JC3 - B**  
SCALE: 3/8" = 1'-0"



**C1 JANITOR - JC3 - C**  
SCALE: 3/8" = 1'-0"



**D1 JANITOR - JC3 - D**  
SCALE: 3/8" = 1'-0"

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 PLOT DATE: DOA DWG FILE: OLD DOA No.: PLOT DATE: HAS FILE:

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- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202

### SIGNAGE

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- F3 PAINTED ACRYLIC LETTERS: PRECISION CUT AND PAINT. LETTERS WITH SATIN COLOR TO MATCH AS SHOWN. KERNING (SPACE BETWEEN LETTERS) TO MATCH AS SHOWN (I.E. STANDARD FONT MAKERS' KERNING SETTING). APPLIED TO FINISH FACE OF F1.

#### ADDITIONAL NOTES:

- FIELD VERIFICATION: FABRICATOR TO FIELD VERIFY ALL INSTALLATION CONDITIONS AT EACH LOCATION AND DETERMINE THE APPROPRIATE FABRICATION/INSTALLATION METHODS AND MATERIALS TO BE USED AS CONDITIONS REQUIRE (TO BE COORDINATED WITH AND APPROVED BY HAS PRIOR TO FABRICATION AND INSTALLATION).
- INSTALLATION: FABRICATOR TO COORDINATED INSTALLATION OF ACRYLIC PANELS WITH WALL PANEL SYSTEMS. FACEMOUNT SYSTEM AND MOUNTING REQUIREMENTS PRIOR TO FABRICATION MOCK-UP OF ACRYLIC PANELS IN INSTALLATION SYSTEM TO BE APPROVED BY HAS PRIOR TO FABRICATION AND INSTALLATION.

#### LETTERING (TYPEFACES/SYMBOLS/ARROWS):

- L5 PEDESTRIAN WAYFINDING TYPEFACE: CLEARVIEW TEXT MEDIUM
- L6 SUPPLEMENTAL TYPEFACE: CLEARVIEW ONE BOOK CONDENSED
- S1 ARROWS(S): USE ONLY OFFICIAL HAS WAYFINDING ARROWS
- S2 UNIVERSAL SYMBOLS: USE ONLY OFFICIAL HAS WAYFINDING SYMBOLS
- W1 WATERMARK GRAPHIC: USE ONLY OFFICIAL HAS "GLOBE" VECTOR ART (ART CAN BE EXTRACTED FROM DIGITAL VERSION OF THIS DRAWING)

#### COLORS:

NOTES: "D" = DIGITALLY PRINTED COLORS ON 3M 7725-20 WHITE UNLESS OTHERWISE NOTED; "P" = MATTHEWS ACRYLIC POLYURETHANE (MAP) PAINT (OR EQUAL), SATIN FINISH; "V" = 3M VINYL FILMS (OR EQUAL); "T" = TACTILE

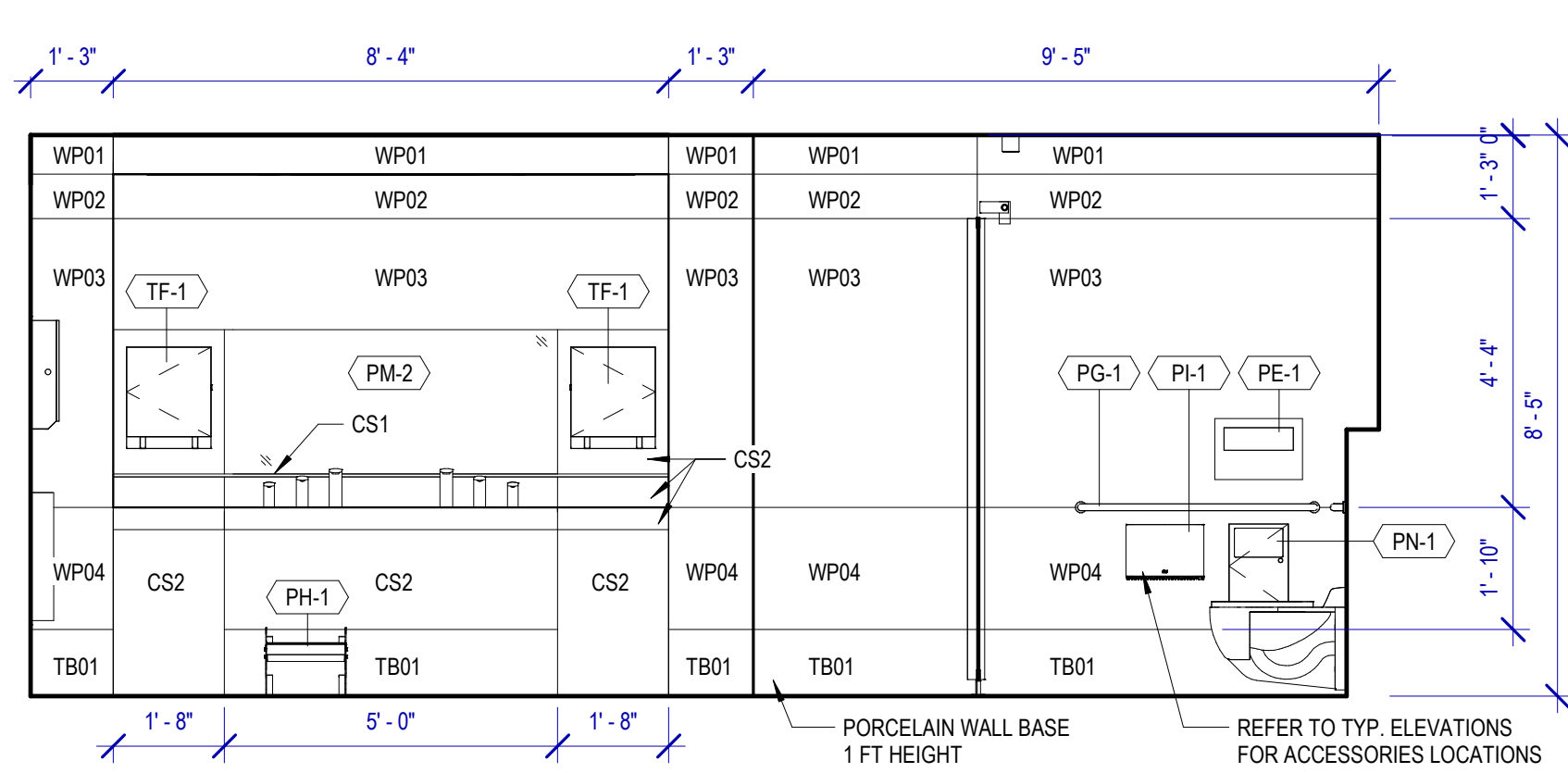
- V4.1 WHITE: 3M 7725-20 WHITE OPAQUE
- D5 DARK GRAY: PMS 433C
- D7.2 MED. GRAY: PMS 431C
- D17 C BLUE: PMS 300C
- D23 TRAIN YELLOW: PMS 3965C
- D6 MED. DARK GRAY: PMS 432C
- D18 C WATERMARK: PMS 294C
- D24 TRAIN WATERMARK: PMS 3975C

#### DIGITAL SIGNAGE:

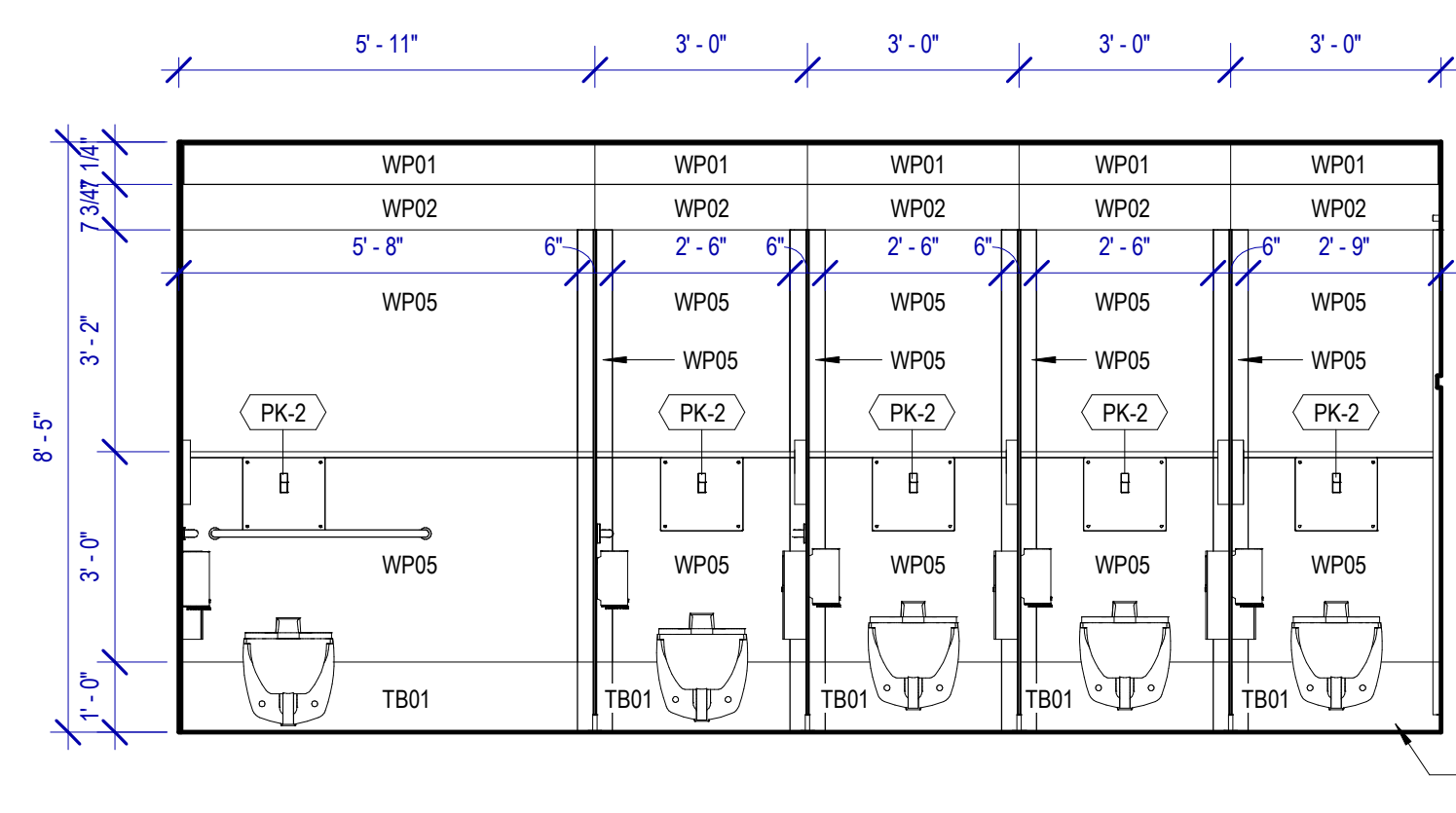
- DS1 SMART RESTROOM DIGITAL SIGNAGE: 32" DISPLAY. REFER TO ELECTRICAL AND TELECOM DRAWINGS.
- DS3 PROVIDE POWER OUTLET AND DATA OUTLETS. REFER TO ELECTRICAL AND TELECOM DRAWINGS.

#### IDENTIFICATION SIGNAGE:

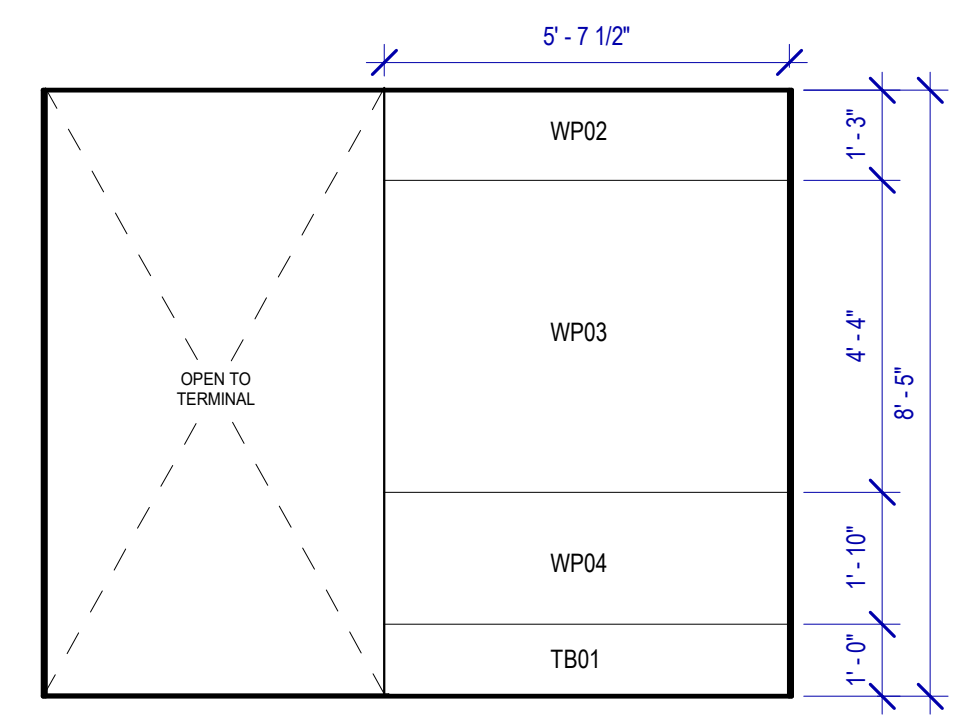
- EXISTING ROOM IDENTIFICATION AND WAYFINDING SIGNAGE TO BE SALVAGED PRIOR TO CONSTRUCTION FOR REINSTALLATION, INCLUDING, BUT NOT LIMITED TO, ROOM SIGNS AND BLADE/FIN SIGNS
- ALL EXISTING SIGNAGE REMOVED TO BE REVIEWED BY HAS AND THE WAYFINDING DESIGN CONSULTANTS FOR ANY CHANGES OR UPDATES MADE TO THE HAS STANDARDS AND GRAPHICS
- NEW SIGNAGE REQUIRED PER OWNER TO BE COORDINATED BY THE CONTRACTOR. ALL FINAL DETAILING AND SPECIFICATIONS TO BE PROVIDED BY THE CONTRACTOR/FABRICATOR/INSTALLER WITHIN THEIR FINAL APPROVED FABRICATION-READY SHOP DRAWINGS
- INSTALLATION OF EXISTING AND NEW SIGNAGE TO BE PER ALL APPLICABLE CODES, TOLRADA STANDARDS, AND HAS STANDARDS.



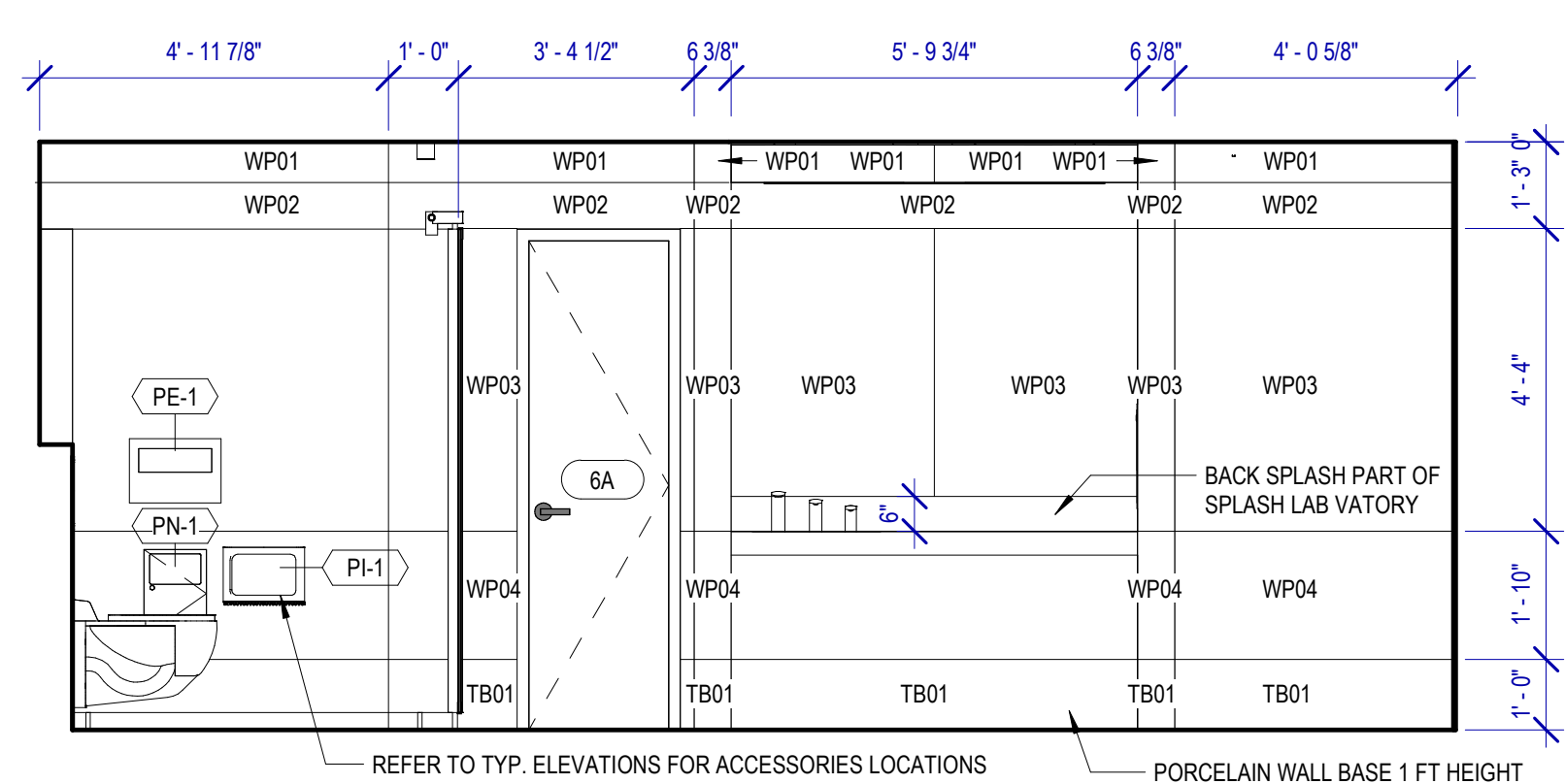
**A4 WOMEN'S RESTROOM - GATE 6-A**  
SCALE: 3/8" = 1'-0"



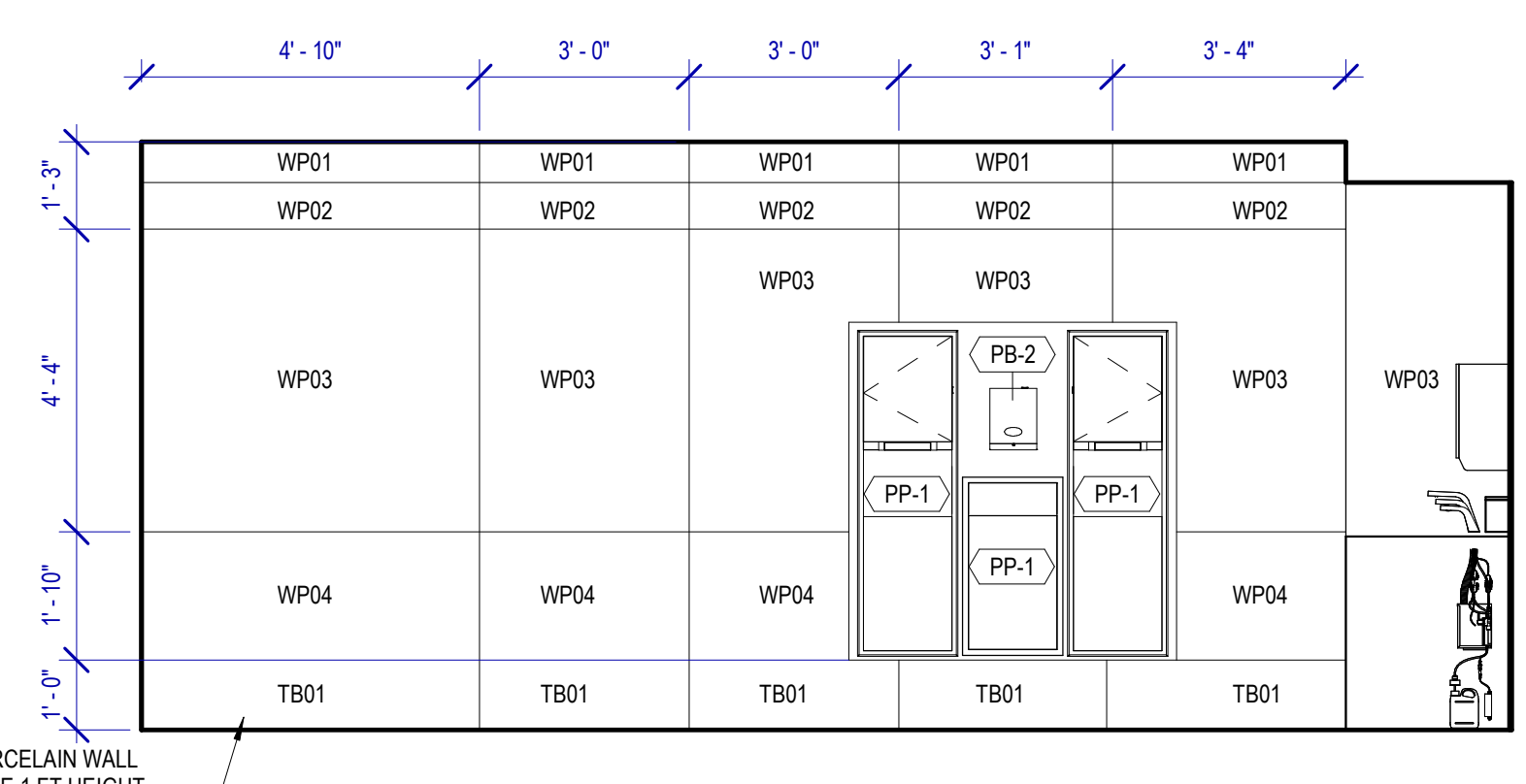
**B4 WOMEN'S RESTROOM - GATE 6-B**  
SCALE: 3/8" = 1'-0"



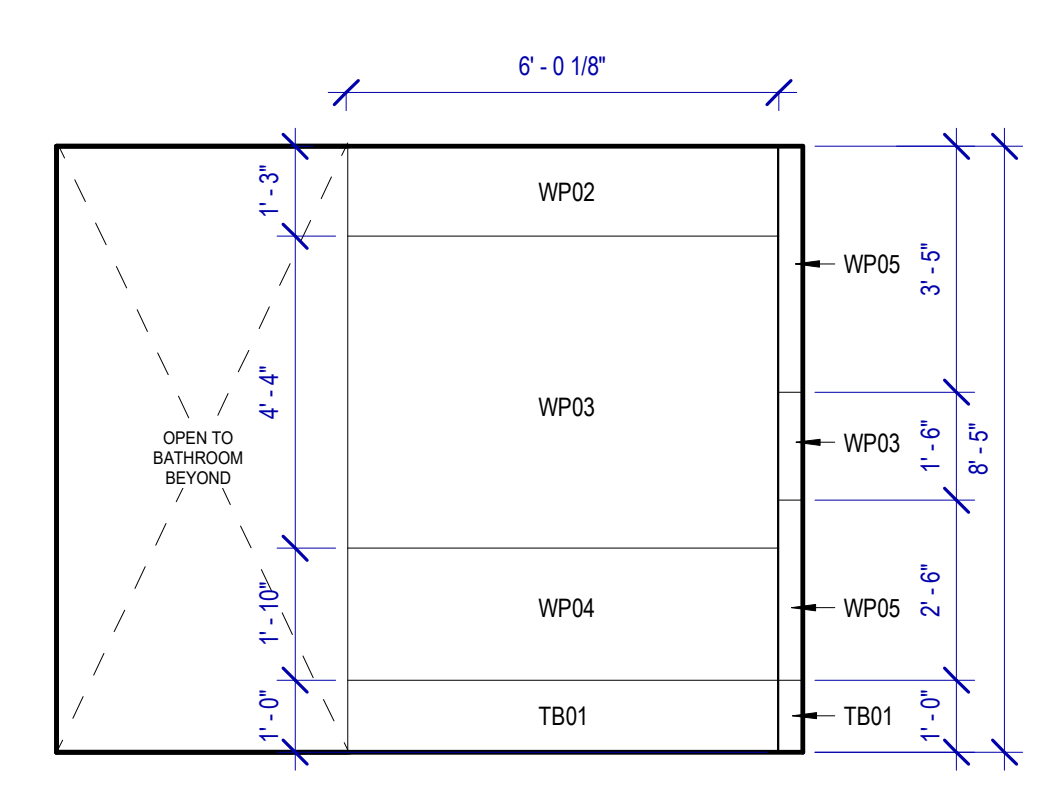
**D4 WOMEN'S RESTROOM - GATE 6-F**  
SCALE: 3/8" = 1'-0"



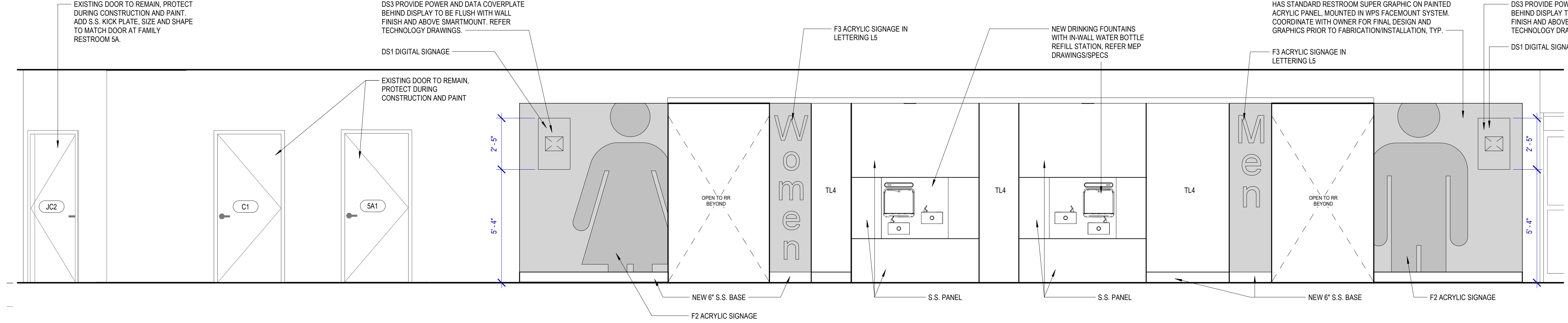
**A3 WOMEN'S RESTROOM - GATE 6-C**  
SCALE: 3/8" = 1'-0"



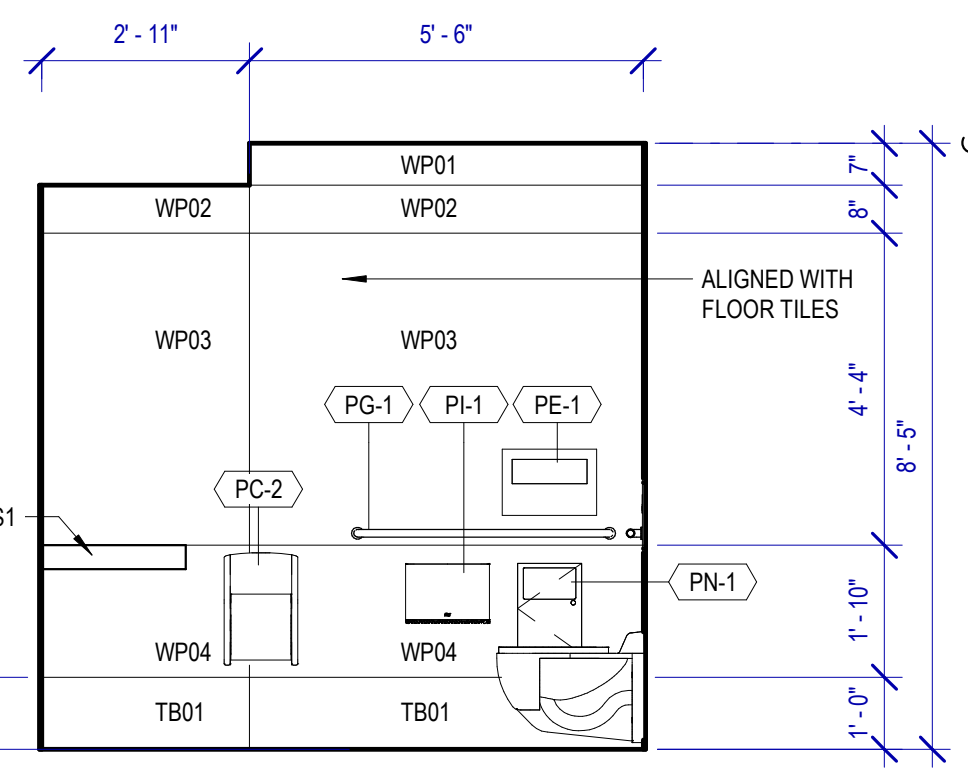
**B3 WOMEN'S RESTROOM - GATE 6-D**  
SCALE: 3/8" = 1'-0"



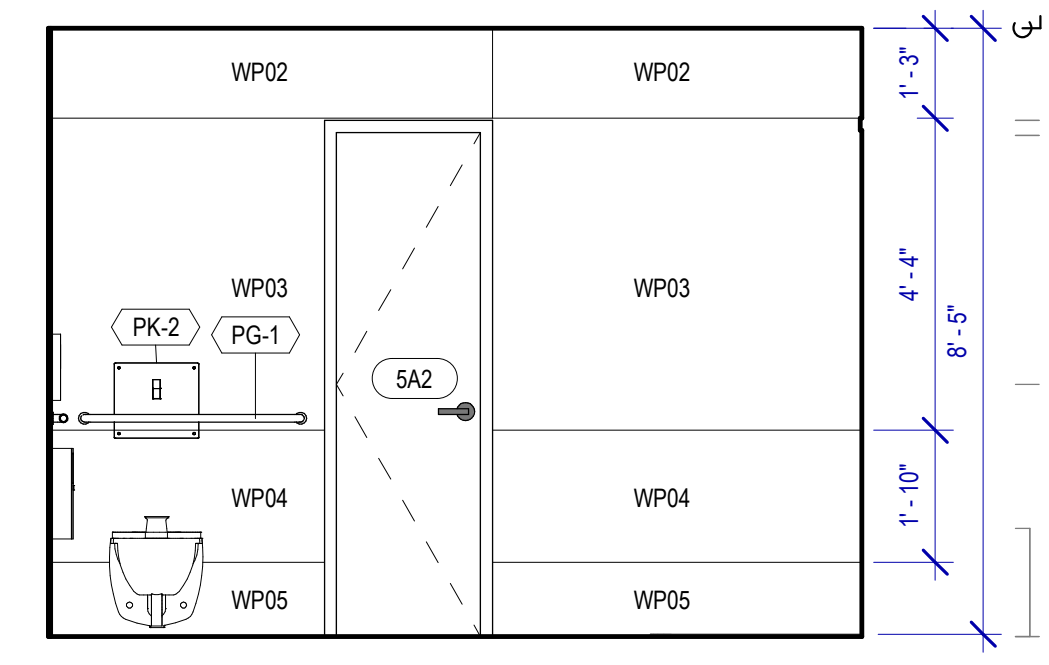
**D3 WOMEN'S RESTROOM - GATE 6-E**  
SCALE: 3/8" = 1'-0"



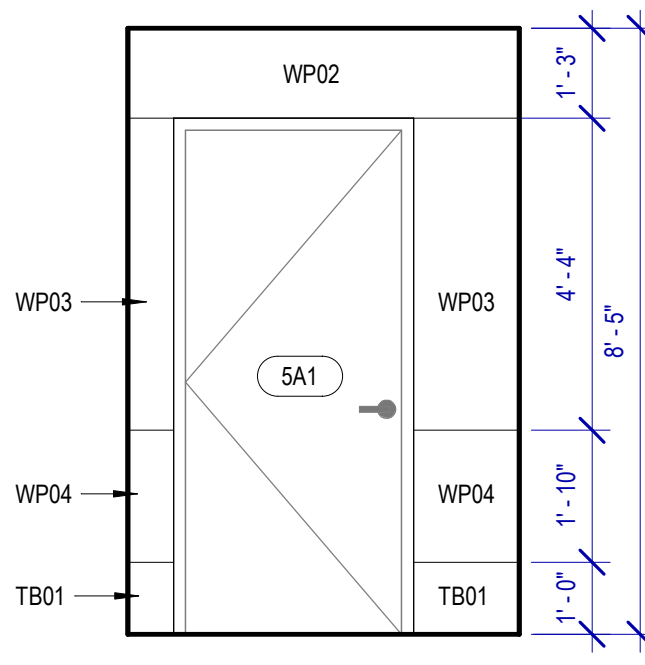
**A2 ELEVATION - RESTROOMS 5, 5A, 6 AND JC2 CORRIDOR**  
SCALE: 3/8" = 1'-0"



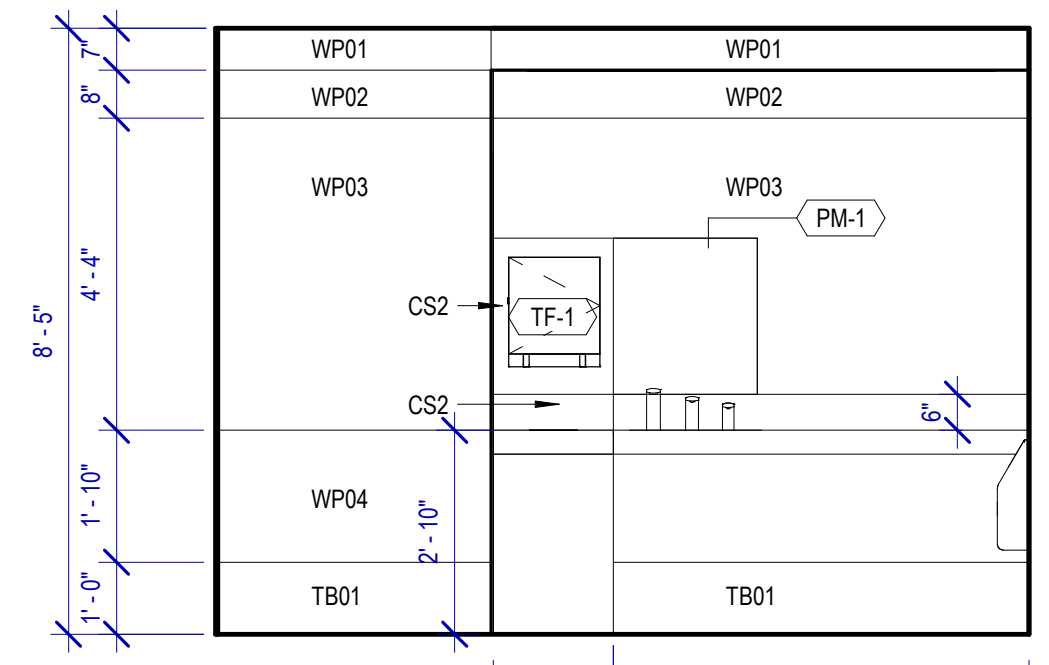
**A1 FAMILY RESTROOM - GATE 5A-A**  
SCALE: 3/8" = 1'-0"



**B1 FAMILY RESTROOM - GATE 5A-B**  
SCALE: 3/8" = 1'-0"



**C1 FAMILY RESTROOM - GATE 5A-C**  
SCALE: 3/8" = 1'-0"



**D1 FAMILY RESTROOM - GATE 5A-D**  
SCALE: 3/8" = 1'-0"

**HOUSTON AIRPORTS**

7800 Airport Blvd  
Houston, TX 77061

**HAS HOBBY AIRPORT RESTROOMS PHASE 3**

C.I.P. No. **PN209B** A.I.P. No.   
C.O.H. No.  D.O.A. No.

**RDLR Architects**  
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com

**JONES ENGINEERS, L.P.**

**HENDERSON ROGERS**  
structural engineers  
2603 Augusta, Suite 800 Houston, Texas 77057 713.430.5800 713.430.5888 fax www.hendersonrogers.com

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DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
2	30% CD	10.28.22	HB
3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

---

DESIGN BY: FF  
DRAWN BY: CT  
CHECKED BY: HB  
ISSUE DATE: 01/25/2023  
APPROVED BY: Hector Berrios  
APPROVAL DATE: 01/25/2023

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DIRECTOR of HOUSTON AIRPORT SYSTEM

IFC ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT  
STATE OF TEXAS  
25805  
01/25/2023

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SHEET NAME: INTERIOR ELEVATIONS - RESTROOM GATE  
SHEET No. A-424 SCALE: As indicated  
SHEET SIZE: 30"x42" ARCH E1

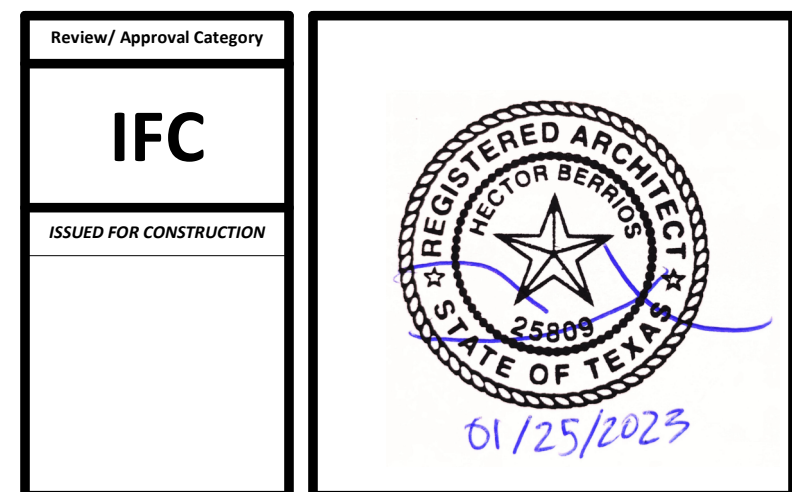
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 OLD DOA No.:  
 PLOT DATE:

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
2	30% CD	10.28.22	HB
3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

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DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM

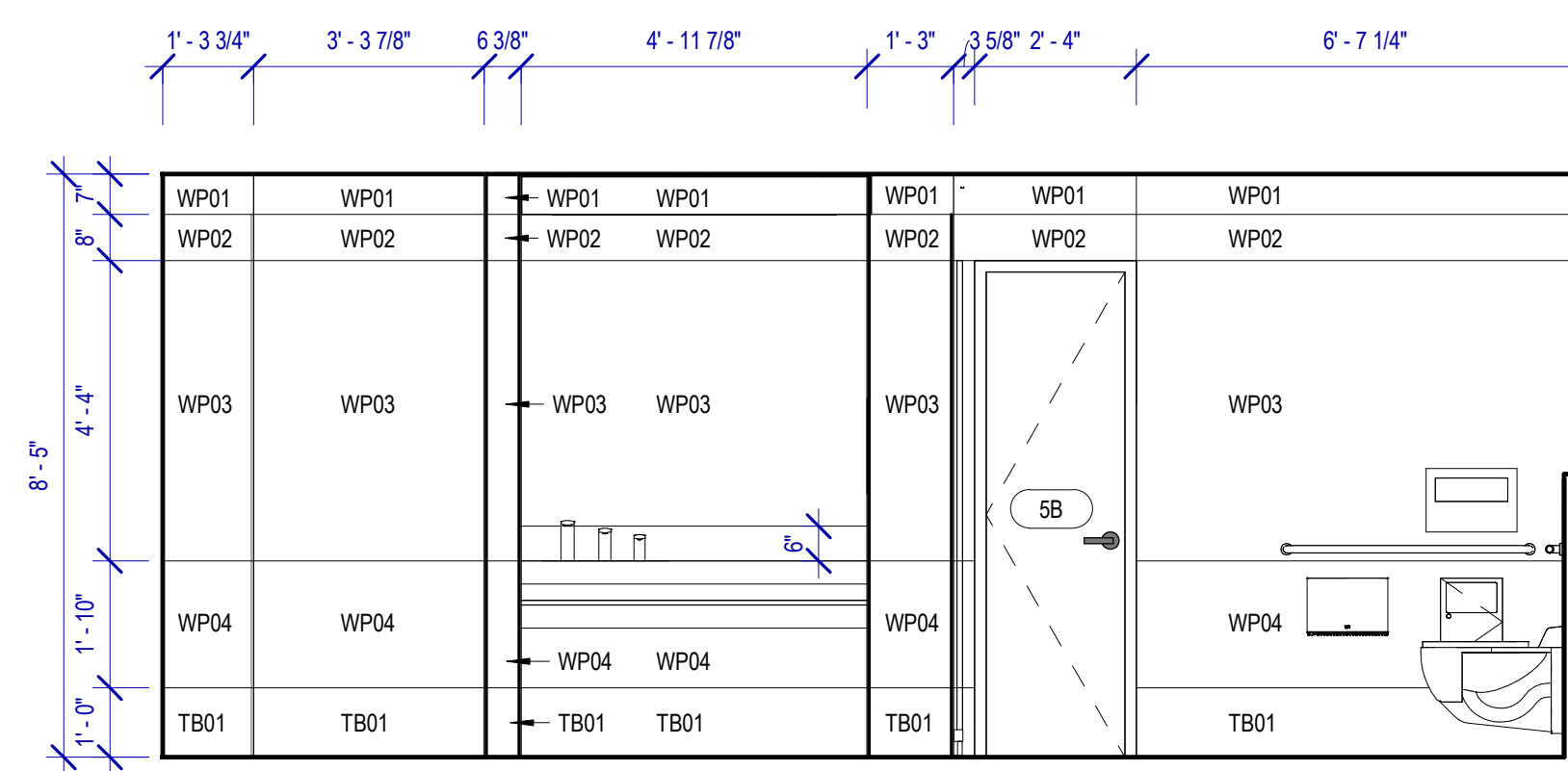


**TOILET ACCESSORIES**

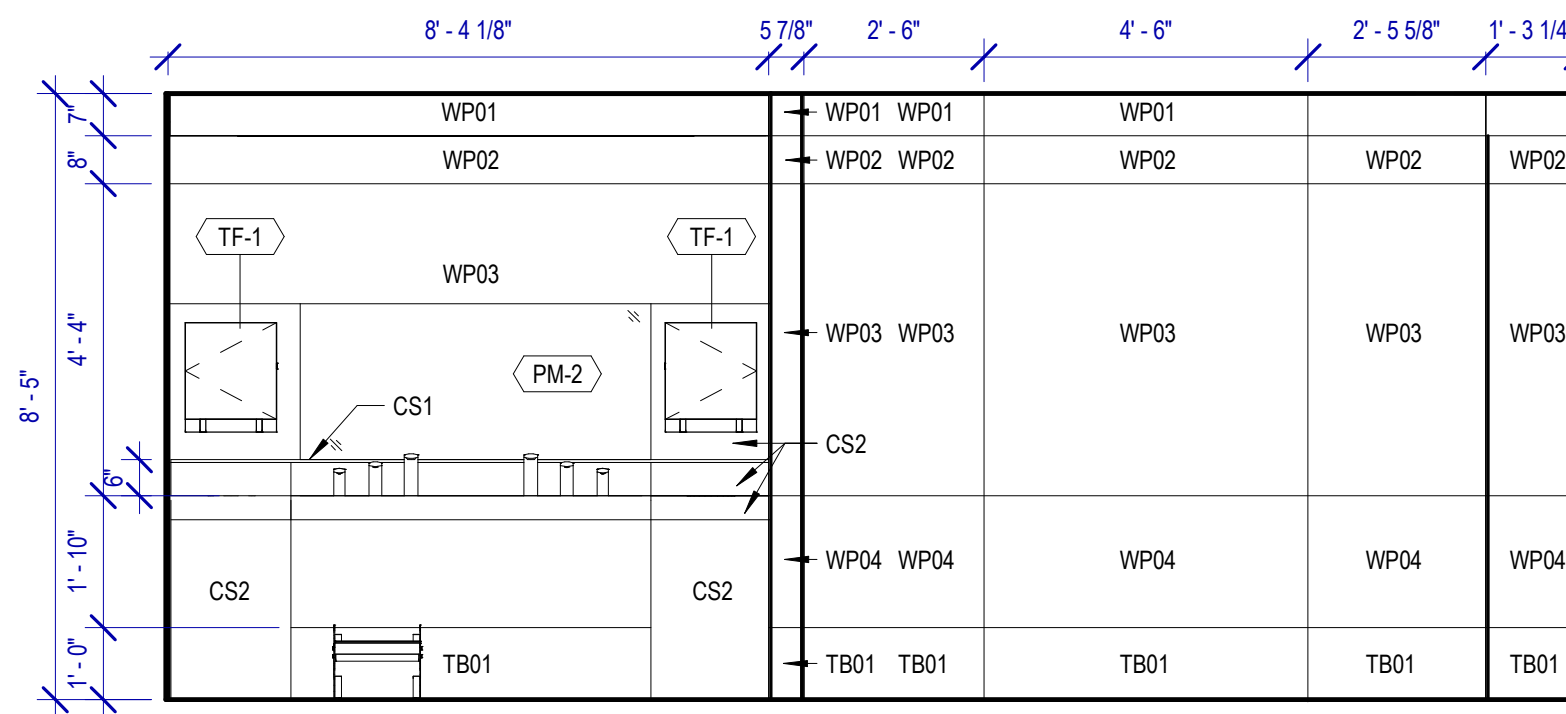
- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE FOR BABY PRODUCTS 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSLR.030.CS.H
- PF-2 THE SPLASH LAB RIBBON SOAP DISPENSER TSLR.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PH-1 STEP 'N WASH FLOOR MOUNTED SELF-RETRACTING STEPT STOOL SNW-SS 975B
- PI-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LA
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LA
- PM-1 CARVART FLOATING MIRROR
- PM-2 CARVART FRAMELESS LED MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSLR.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LA
- PX-1 BOBRICK MOP & BROOM HOLDER B-223
- PY-1 ZURN MOP SINK 1996-24
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 URINAL PARTITION RE: MATERIAL LEGEND
- PZ-3 BABY CHANGING STATION GLASS PARTITION
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202

**INTERIOR ELEVATIONS NOTES**

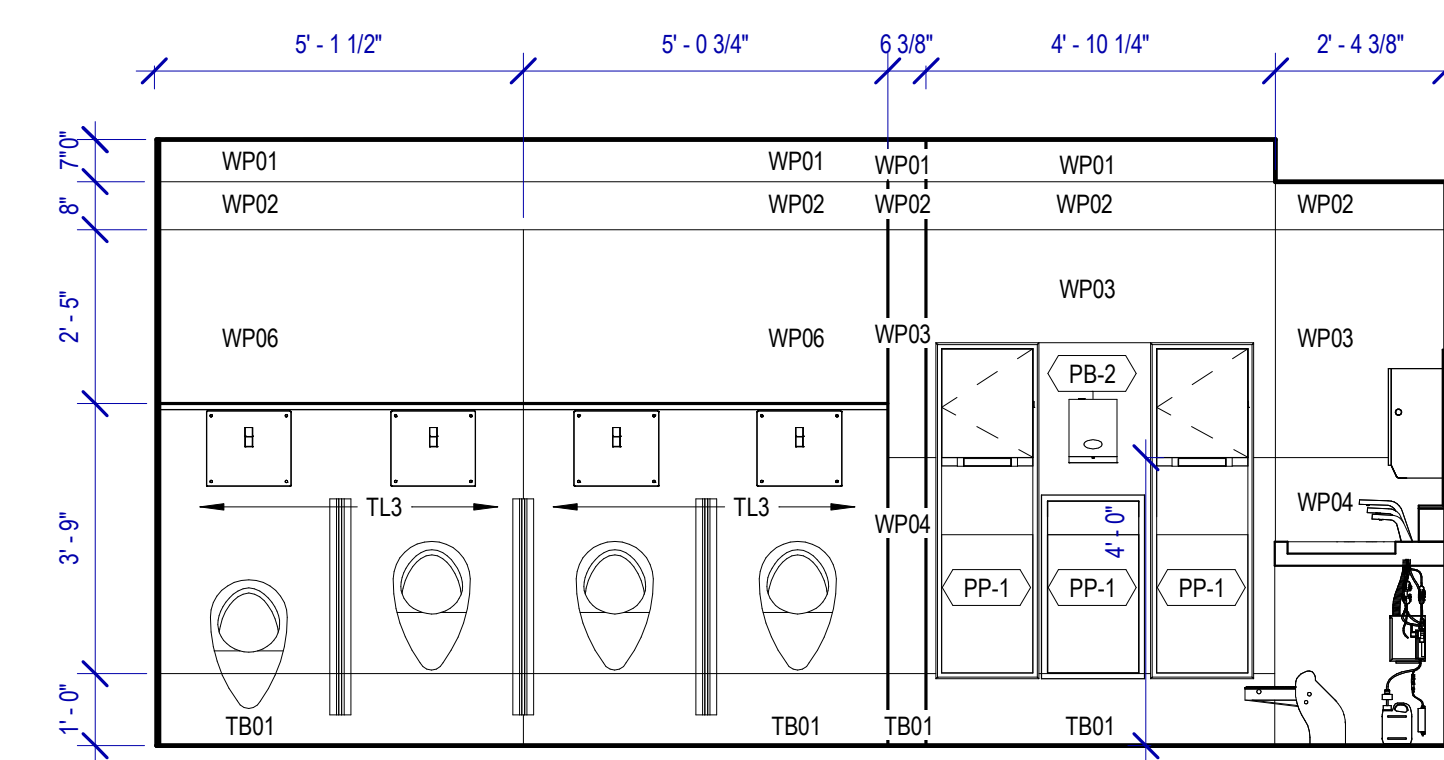
- REFER TO SHEET A600 FOR FINISH LEGEND.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.



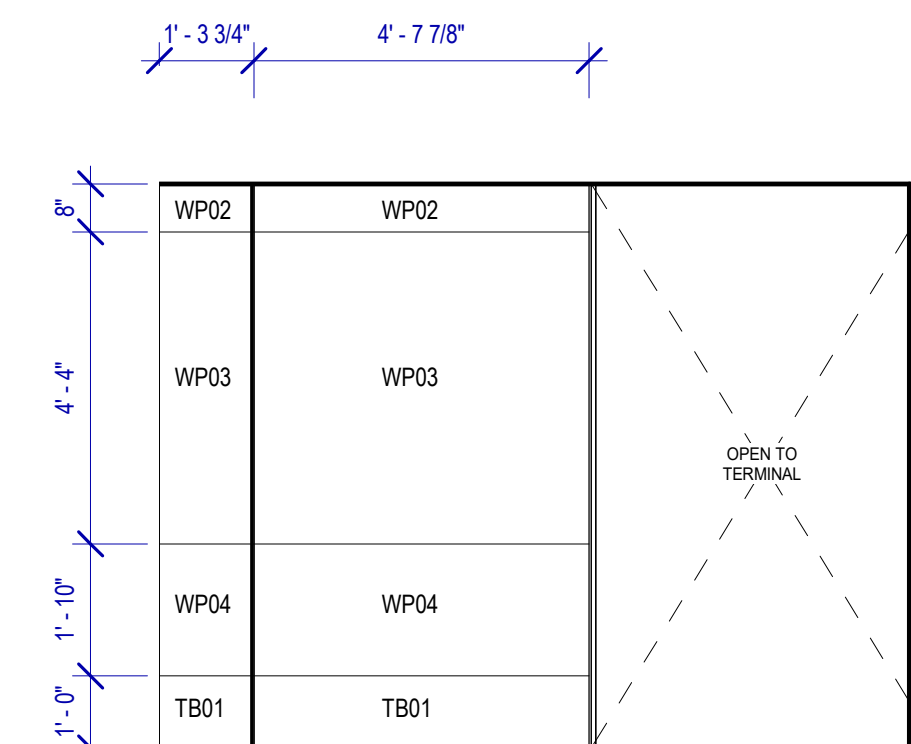
**C4 MEN'S RESTROOM - GATE 5-C**  
SCALE: 3/8" = 1'-0"



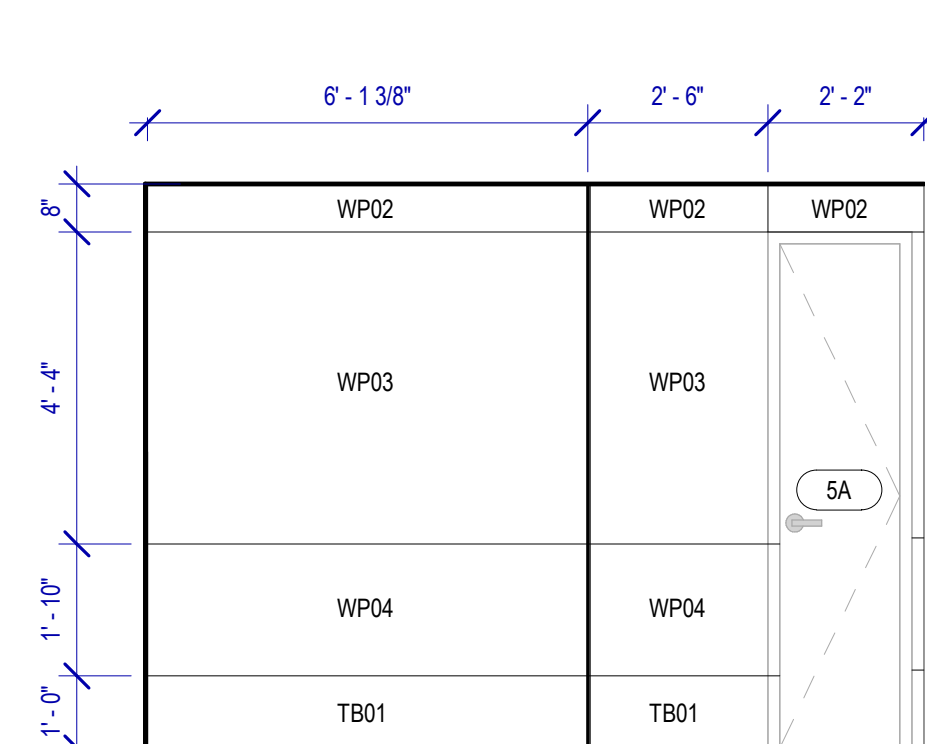
**B4 MEN'S RESTROOM - GATE 5-B**  
SCALE: 3/8" = 1'-0"



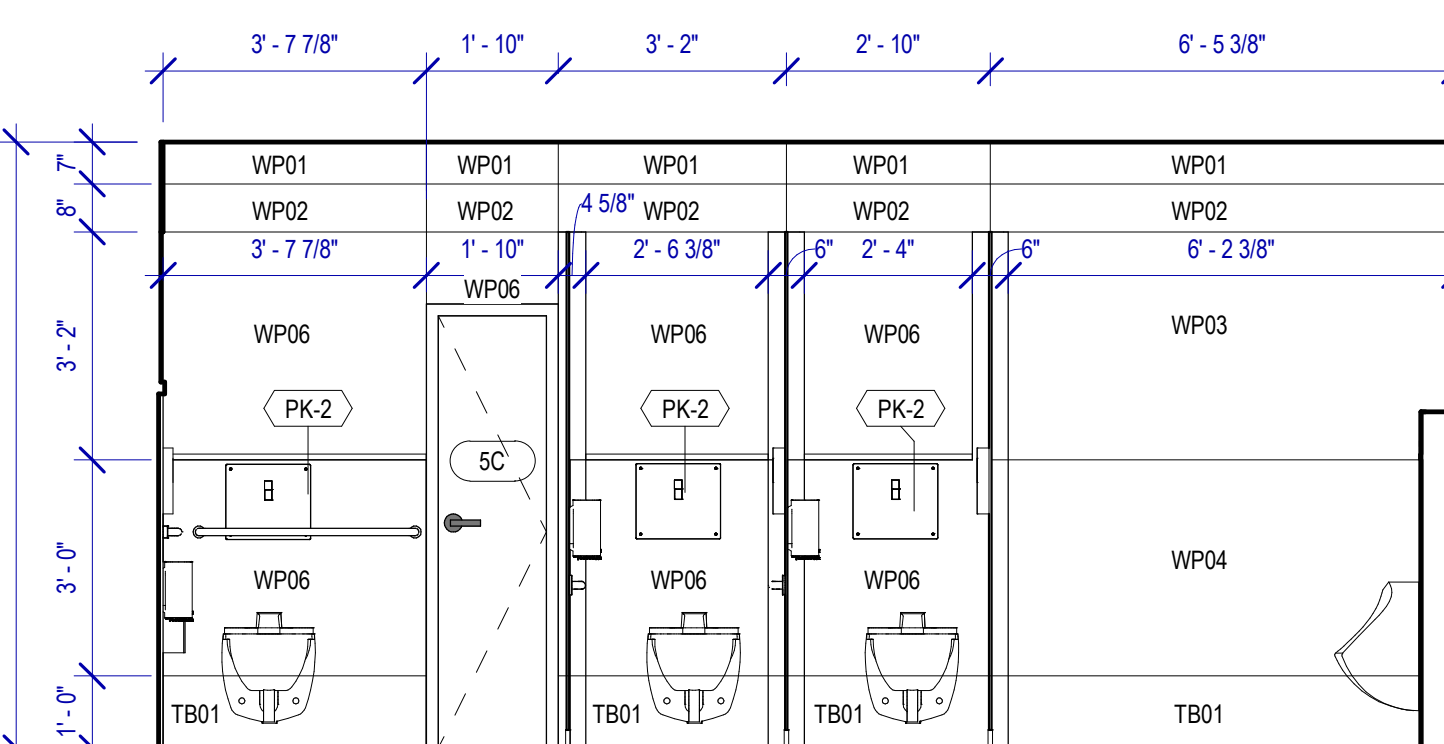
**A4 MEN'S RESTROOM - GATE 5-A**  
SCALE: 3/8" = 1'-0"



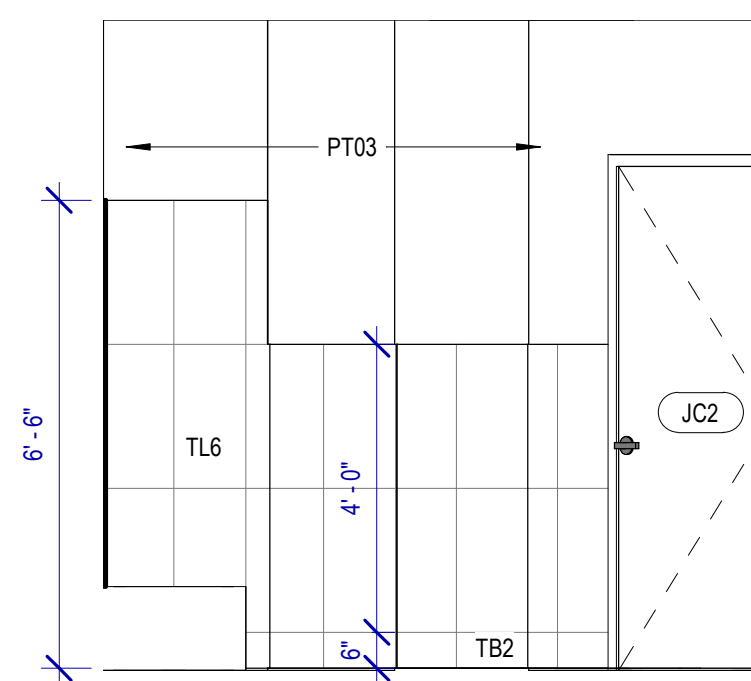
**C3 MEN'S RESTROOM - GATE 5-F**  
SCALE: 3/8" = 1'-0"



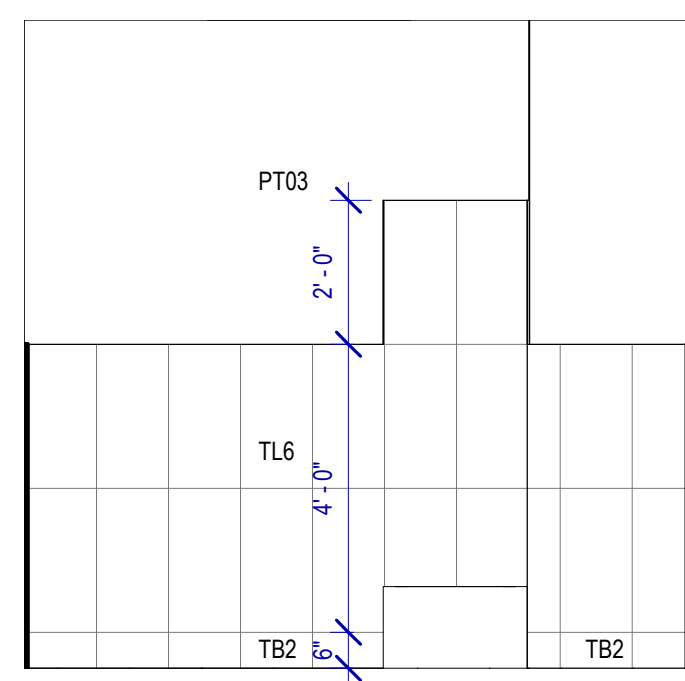
**B3 MEN'S RESTROOM - GATE 5-E**  
SCALE: 3/8" = 1'-0"



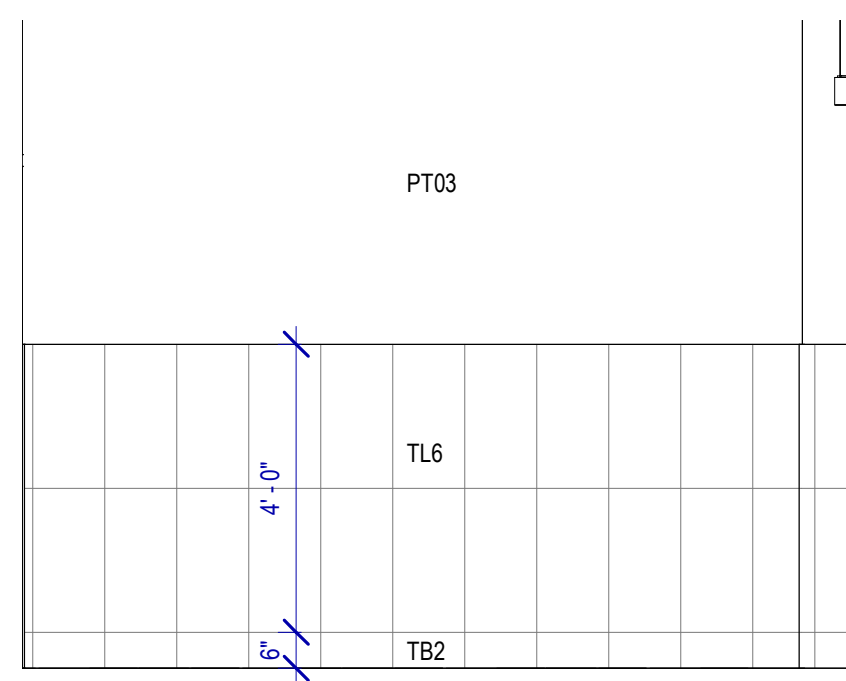
**A3 MEN'S RESTROOM - GATE 5-D**  
SCALE: 3/8" = 1'-0"



**C2 JANITOR - JC2 - C**  
SCALE: 3/8" = 1'-0"



**B2 JANITOR - JC2 - B**  
SCALE: 3/8" = 1'-0"

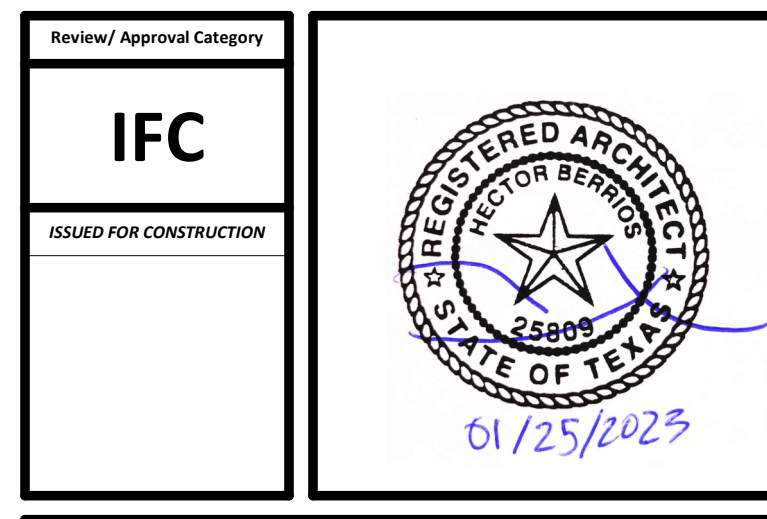


**A2 JANITOR - JC2 - A**  
SCALE: 3/8" = 1'-0"

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
2	30% CD	10.28.22	HB
3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

DESIGN BY: FF  
DRAWN BY: CT  
CHECKED BY: HB  
ISSUE DATE: 01/25/2023  
APPROVED BY: Hector Berrios  
APPROVAL DATE: 01/25/2023

DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM



SHEET NAME:  
INTERIOR ELEVATIONS - RESTROOM GATE 58-59  
SHEET No. A-426 SCALE: As indicated

**INTERIOR ELEVATIONS NOTES**

- REFER TO SHEET A600 FOR FINISH LEGEND.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.

**TOILET ACCESSORIES**

- PB-1 KOALA KARE BED LINER DISPENSER KB134-SLSD
- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE FOR BABY PRODUCTS 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSLR.030.CS.H
- PF-2 THE SPLASH LAB RIBBON SENSOR FAUCET TSLR.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
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- PH-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LA
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LA
- PM-1 CARVART FLOATING MIRROR
- PM-2 CARVART FRAMELESS LED MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSLR.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LA
- PX-1 BOBRICK MOP & BROOM HOLDER B-223
- PY-1 ZURN MOP SINK 1996-24
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 URINAL PARTITION RE: MATERIAL LEGEND
- PZ-3 BABY CHANGING STATION GLASS PARTITION
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202

**SIGNAGE**

**DESIGN INTENT NOTES:**

- F1 PAINTED ACRYLIC BACKGROUND AREAS: BACKGROUND AREAS TO BE PAINTED WITH SOLID SATIN FINISH COLOR AS SHOWN.
- F2 PAINTED ACRYLIC LETTERS: PRECISION CUT AND PAINT. LETTERS WITH SATIN COLOR TO MATCH AS SHOWN (I.E. STANDARD FONT MAKERS KERNING SETTING), APPLIED TO FINISH FACE OF F1.
- F3 PAINTED ACRYLIC LETTERS: PRECISION CUT AND PAINT. LETTERS WITH SATIN COLOR TO MATCH AS SHOWN (I.E. STANDARD FONT MAKERS KERNING SETTING), APPLIED TO FINISH FACE OF F1.

**ADDITIONAL NOTES:**

- FIELD VERIFICATION: FABRICATOR TO FIELD VERIFY ALL INSTALLATION CONDITIONS AT EACH LOCATION AND DETERMINE THE APPROPRIATE FABRICATION/INSTALLATION METHODS AND MATERIALS TO BE USED AS CONDITIONS REQUIRE (TO BE COORDINATED WITH AND APPROVED BY HAS PRIOR TO FABRICATION AND INSTALLATION).
- INSTALLATION: FABRICATOR TO COORDINATED INSTALLATION OF ACRYLIC PANELS WITH WALL PANEL SYSTEMS, FACEMOUNT SYSTEM AND MOUNTING REQUIREMENTS PRIOR TO FABRICATION/MOCK-UP OF ACRYLIC PANELS IN INSTALLATION SYSTEM TO BE APPROVED BY HAS PRIOR TO FABRICATION AND INSTALLATION.

**LETTERING (TYPEFACES)/SYMBOLS/ARROWS:**

- L5 PEDESTRIAN WAYFINDING TYPEFACE: CLEARVIEW TEXT MEDIUM
- L6 SUPPLEMENTAL TYPEFACE: CLEARVIEW ONE BOOK CONDENSED
- S1 ARROW(S): USE ONLY OFFICIAL HAS WAYFINDING ARROWS
- S2 UNIVERSAL SYMBOLS: USE ONLY OFFICIAL HAS WAYFINDING SYMBOLS
- W1 WATERMARK GRAPHIC: USE ONLY OFFICIAL HAS "GLOBE" VECTOR ART (ART CAN BE EXTRACTED FROM DIGITAL VERSION OF THIS DRAWING)

**COLORS:**

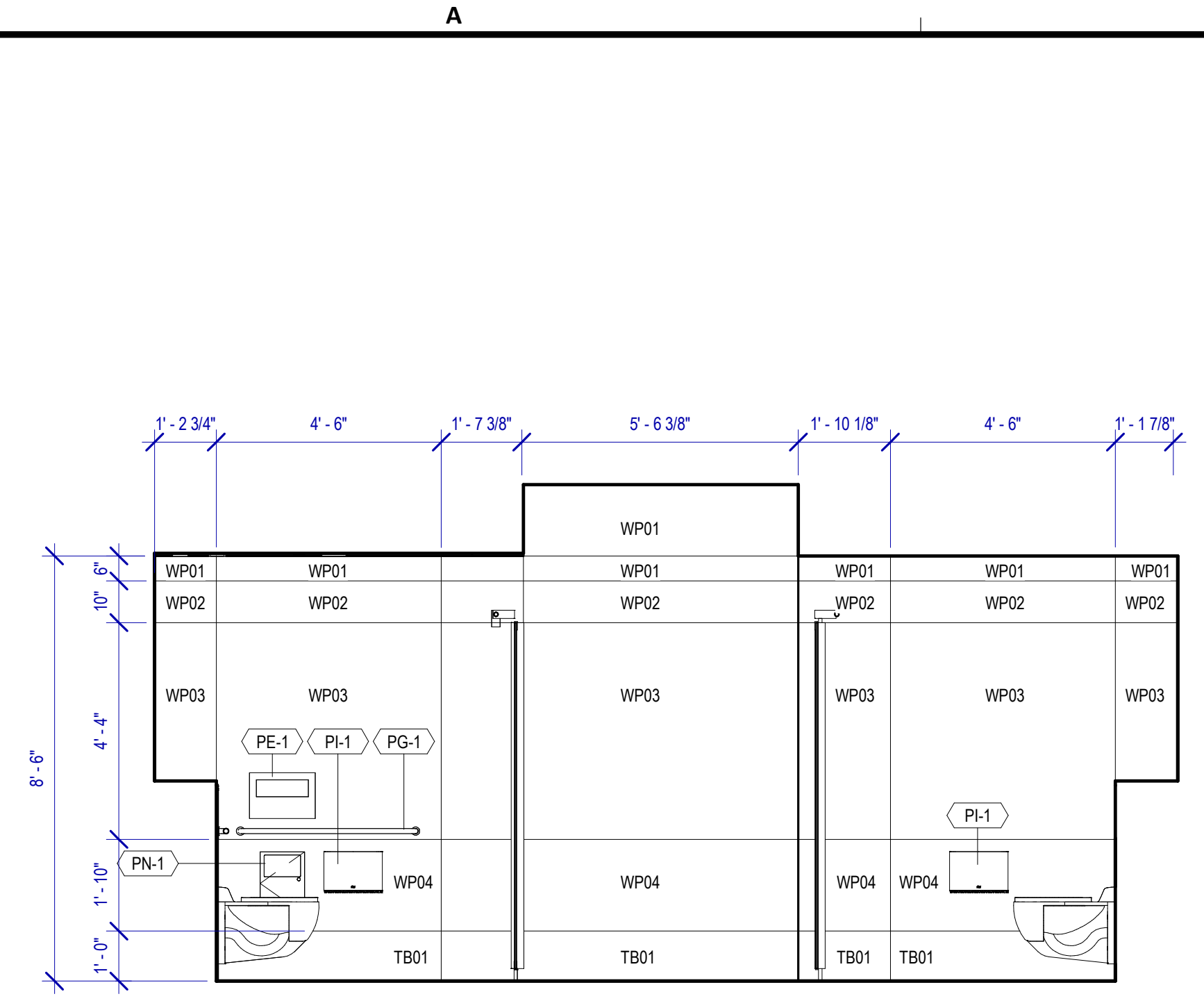
- NOTES: "D" = DIGITALLY PRINTED COLORS ON 3M 7725-20 WHITE UNLESS OTHERWISE NOTED. "P" = MATTHEWS ACRYLIC POLYURETHANE (MAP) PAINT (OR EQUAL), SATIN FINISH. "V" = 3M VINYL FILMS (OR EQUAL). "T" = TACTILE
- V4.1 WHITE: 3M 7725-20 WHITE OPAQUE
  - D5 DARK GRAY: PMS 433C
  - D7.2 MED. GRAY: PMS 431C
  - D17 C BLUE: PMS 300C
  - D23 TRAIN YELLOW: PMS 3965C
  - D6 MED. DARK GRAY: PMS 432C
  - D18 C WATERMARK: PMS 294C
  - D24 TRAIN WATERMARK: PMS 3975C

**DIGITAL SIGNAGE:**

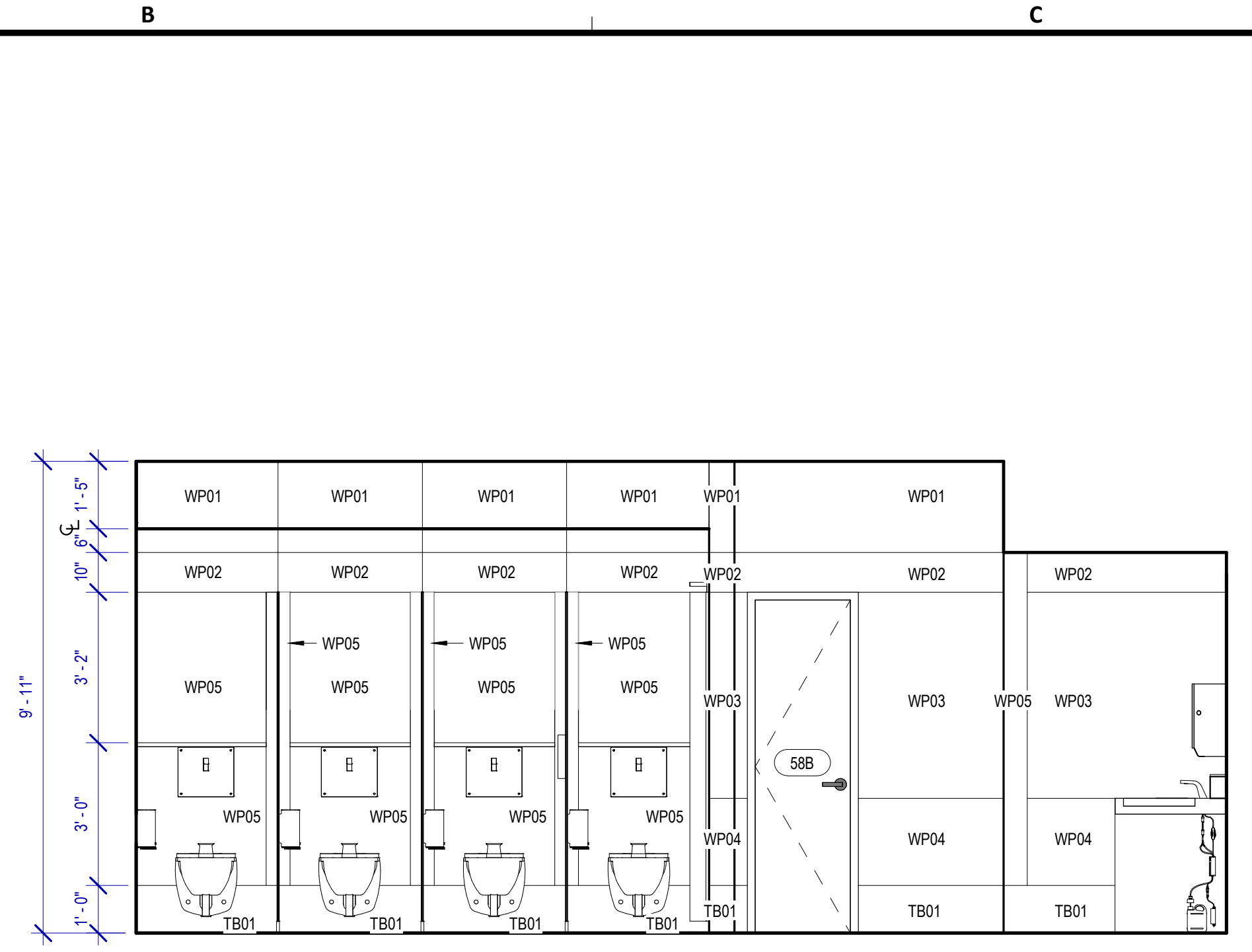
- DS1 SMART RESTROOM DIGITAL SIGNAGE: 32" DISPLAY. REFER TO ELECTRICAL AND TELECOM DRAWINGS.
- DS3 PROVIDE POWER OUTLET AND DATA OUTLETS. REFER TO ELECTRICAL AND TELECOM DRAWINGS.

**IDENTIFICATION SIGNAGE:**

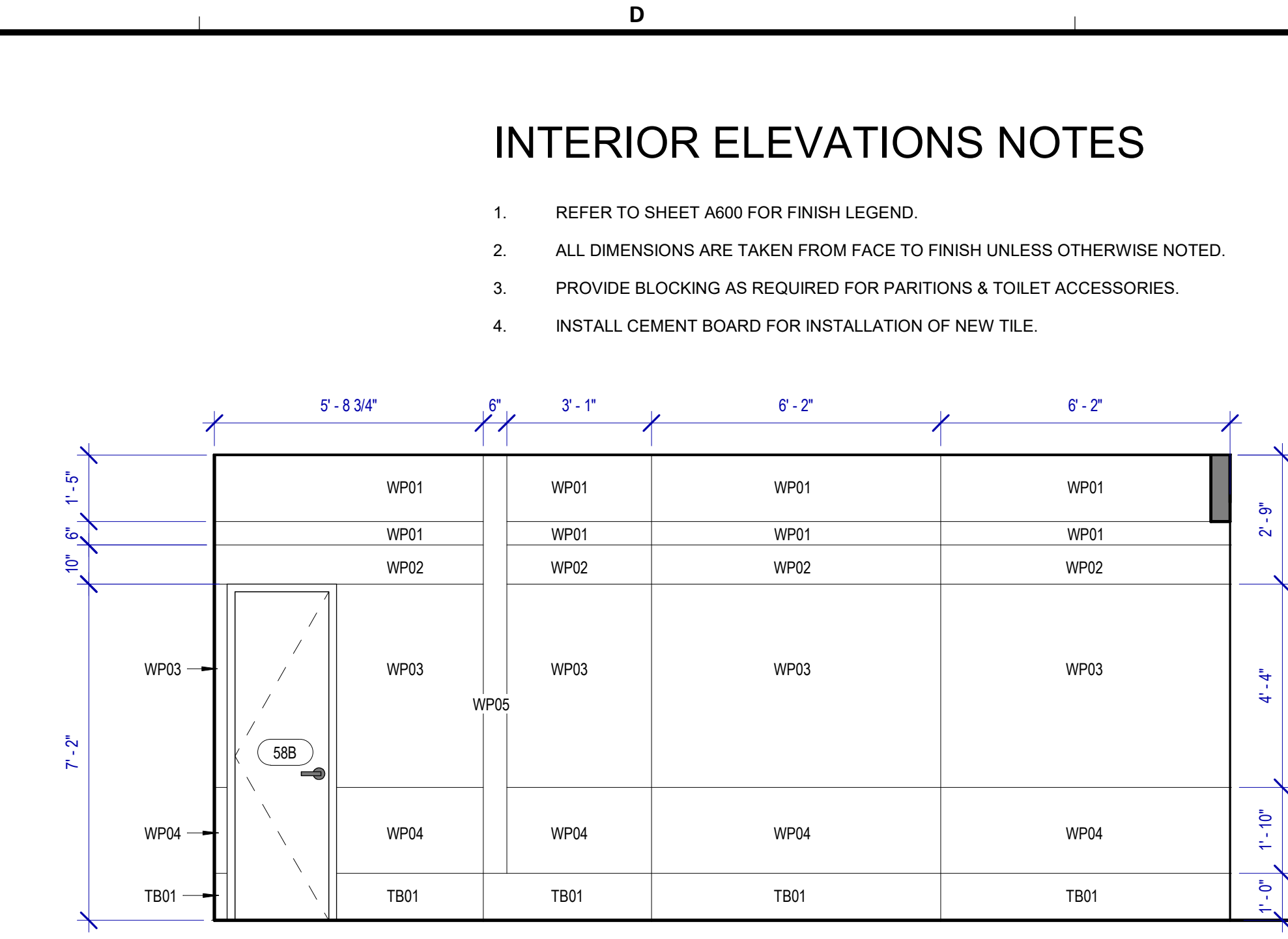
- EXISTING ROOM IDENTIFICATION AND WAYFINDING SIGNAGE TO BE SALVAGED PRIOR TO CONSTRUCTION FOR REINSTALLATION, INCLUDING, BUT NOT LIMITED TO, ROOM SIGNS AND BLADE/FIN SIGNS.
- ALL EXISTING SIGNAGE REMOVED TO BE REVIEWED BY HAS AND THE WAYFINDING DESIGN CONSULTANTS FOR ANY CHANGES OR UPDATES MADE TO THE HAS STANDARDS AND GRAPHICS.
- NEW SIGNAGE REQUIRED PER OWNER TO BE COORDINATED BY THE CONTRACTOR. ALL FINAL DETAILING AND SPECIFICATIONS TO BE PROVIDED BY THE CONTRACTOR/FABRICATOR/INSTALLER WITHIN THEIR FINAL APPROVED FABRICATION-READY SHOP DRAWINGS.
- INSTALLATION OF EXISTING AND NEW SIGNAGE TO BE PER ALL APPLICABLE CODES, TOLRADA STANDARDS, AND HAS STANDARDS.



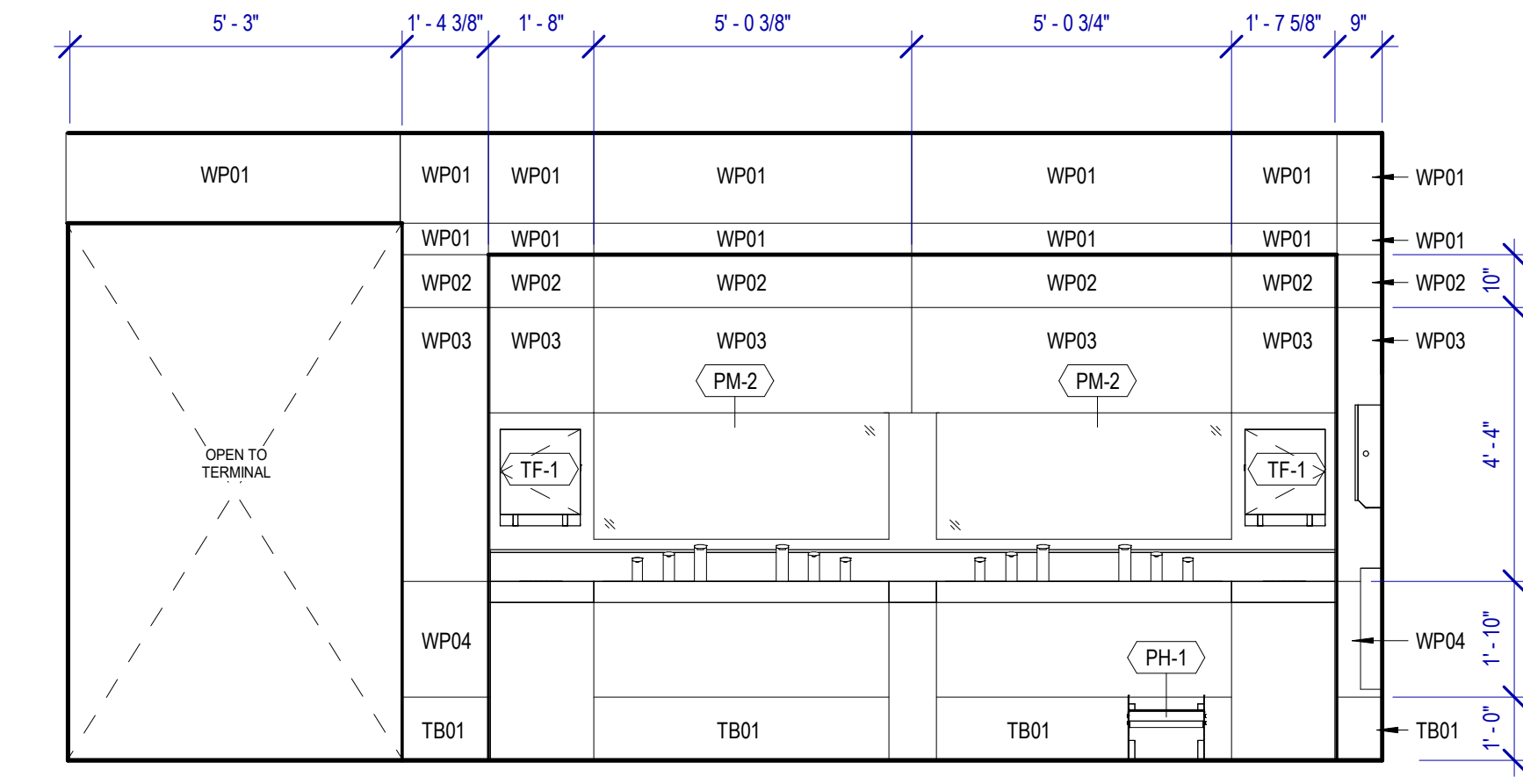
**A4 WOMEN'S RESTROOM - GATE 58-A**  
SCALE: 3/8" = 1'-0"



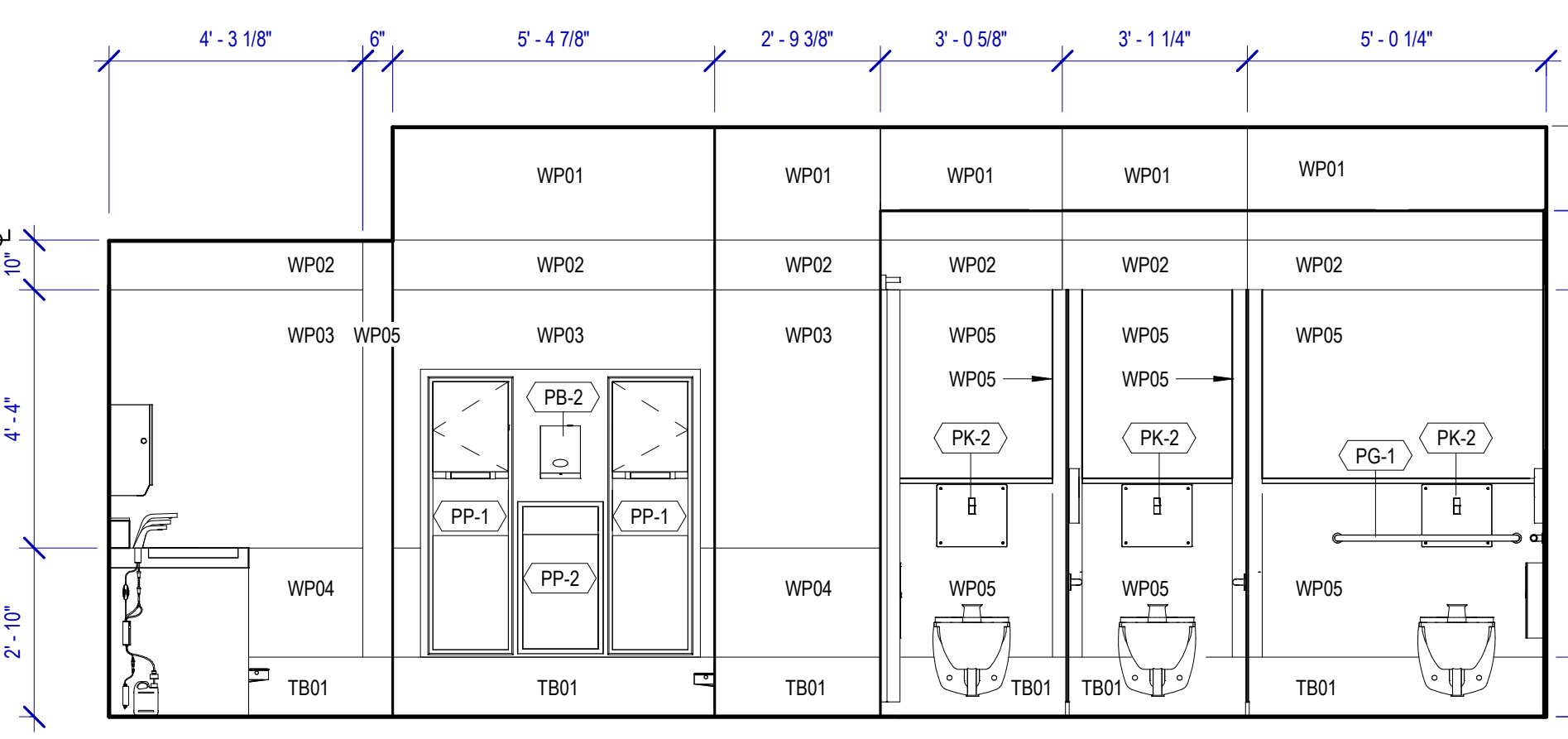
**B4 WOMEN'S RESTROOM - GATE 58-B**  
SCALE: 3/8" = 1'-0"



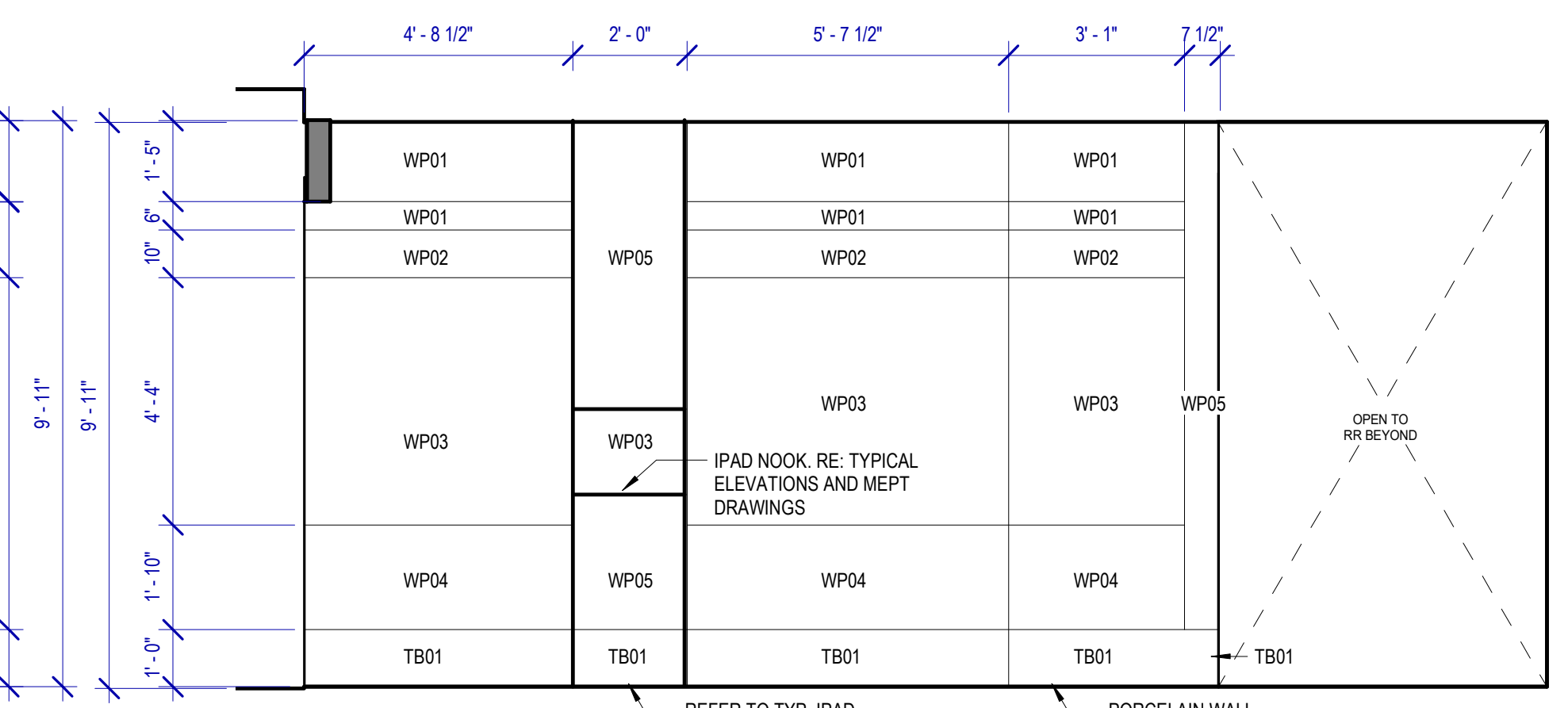
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SCALE: 3/8" = 1'-0"



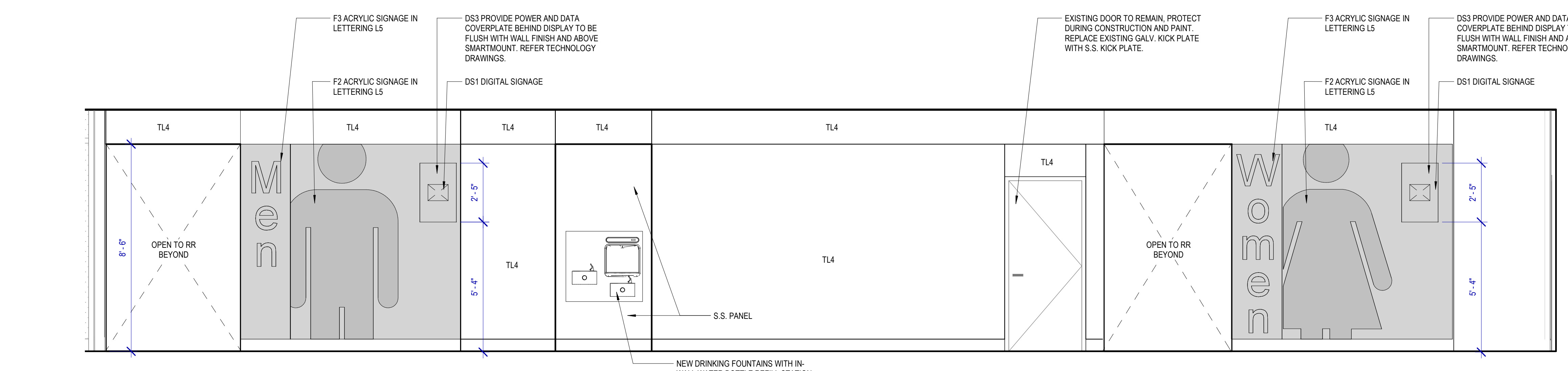
**A3 WOMEN'S RESTROOM - GATE 58-C**  
SCALE: 3/8" = 1'-0"



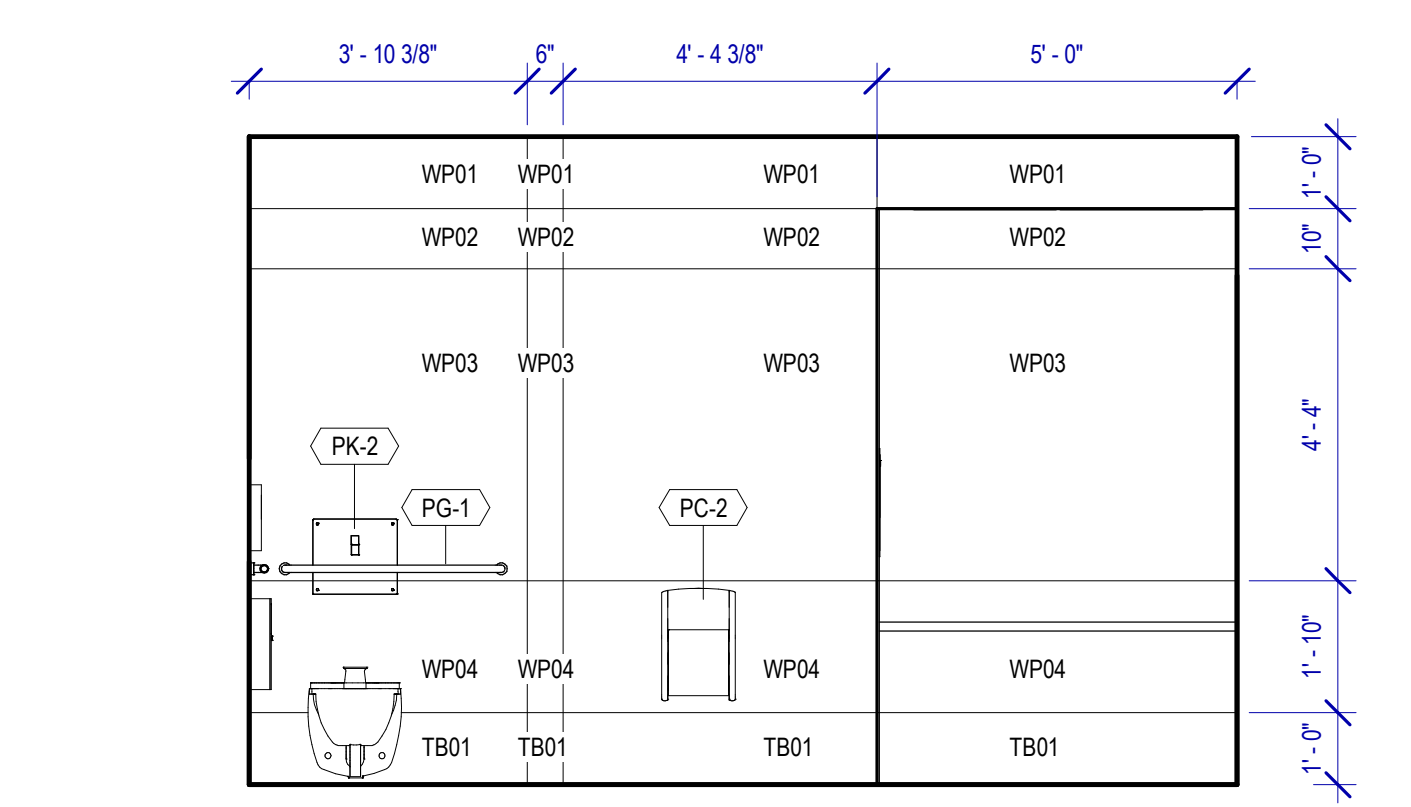
**B3 WOMEN'S RESTROOM - GATE 58-D**  
SCALE: 3/8" = 1'-0"



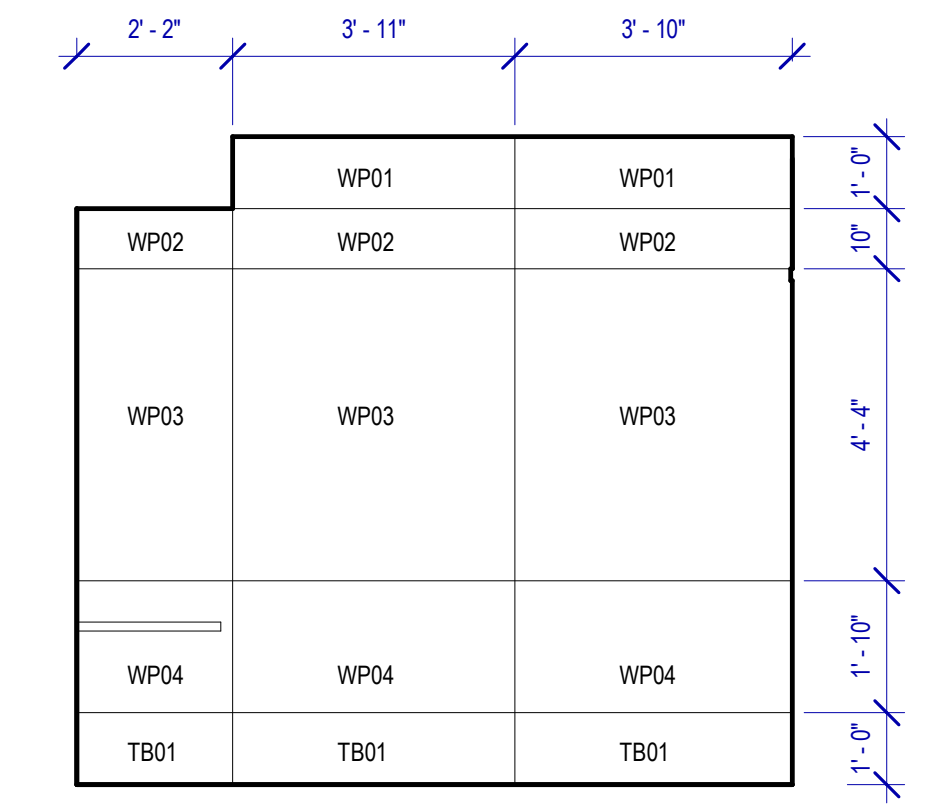
**D3 WOMEN'S RESTROOM - GATE 58-E**  
SCALE: 3/8" = 1'-0"



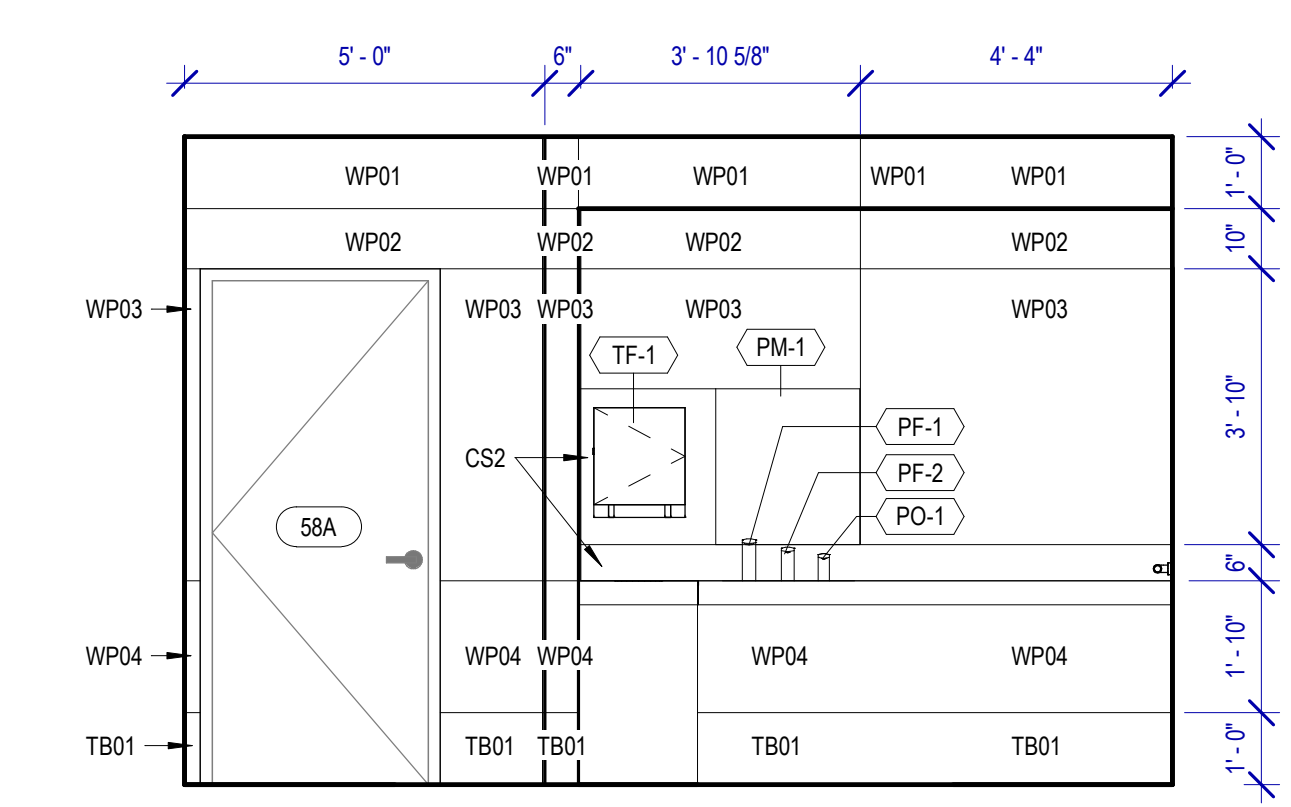
**A2 ELEVATION - RESTROOMS 58, 58A, 59 AND JC1 CORRIDOR**  
SCALE: 3/8" = 1'-0"



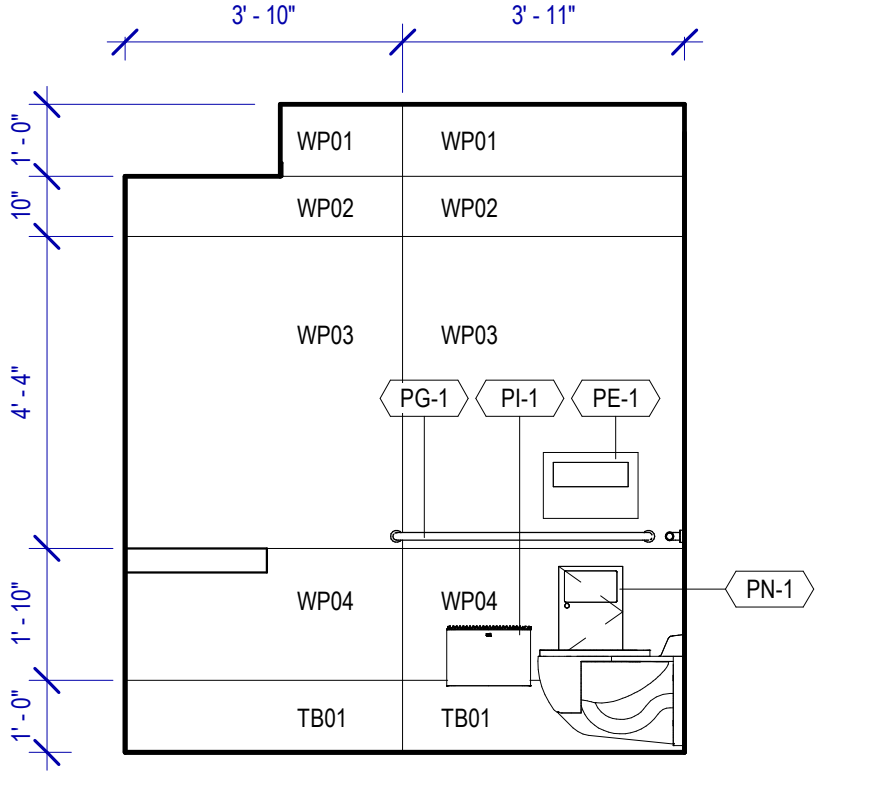
**A1 FAMILY RESTROOM - GATE 58A-A**  
SCALE: 3/8" = 1'-0"



**B1 FAMILY RESTROOM - GATE 58A-B**  
SCALE: 3/8" = 1'-0"



**C1 FAMILY RESTROOM - GATE 58A-C**  
SCALE: 3/8" = 1'-0"



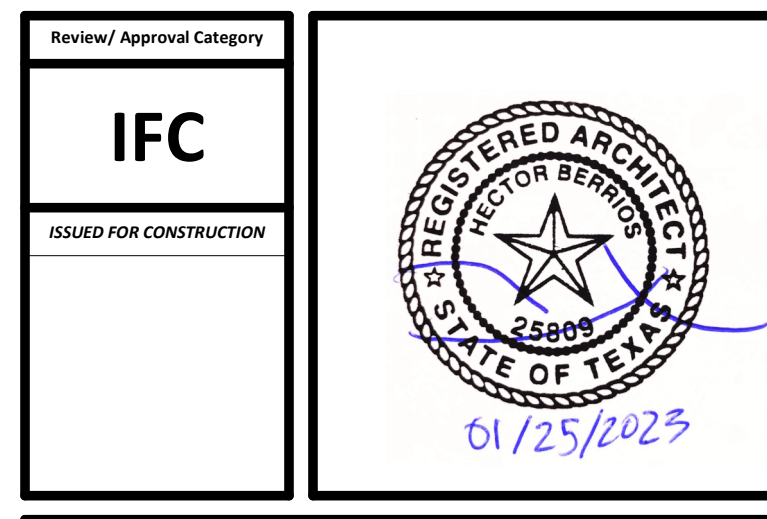
**D1 FAMILY RESTROOM - GATE 58A-D**  
SCALE: 3/8" = 1'-0"

FILE PATH: BIM 360://1429 Hobby Restroom Renovation Phase III/1429\_15\_HOU\_Restroom\_Phase3.rvt  
 PLOT DATE: DOA DWG FILE: OLD DOA No.: PLOT DATE: HAS FILE:

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
2	30% CD	10.28.22	HB
3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

DESIGN BY: FF  
DRAWN BY: CT  
CHECKED BY: HB  
ISSUE DATE: 01/25/2023  
APPROVED BY: Hector Berrios  
APPROVAL DATE: 01/25/2023

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SHEET NAME:  
INTERIOR ELEVATIONS - RESTROOM GATE  
58-59 CONT.

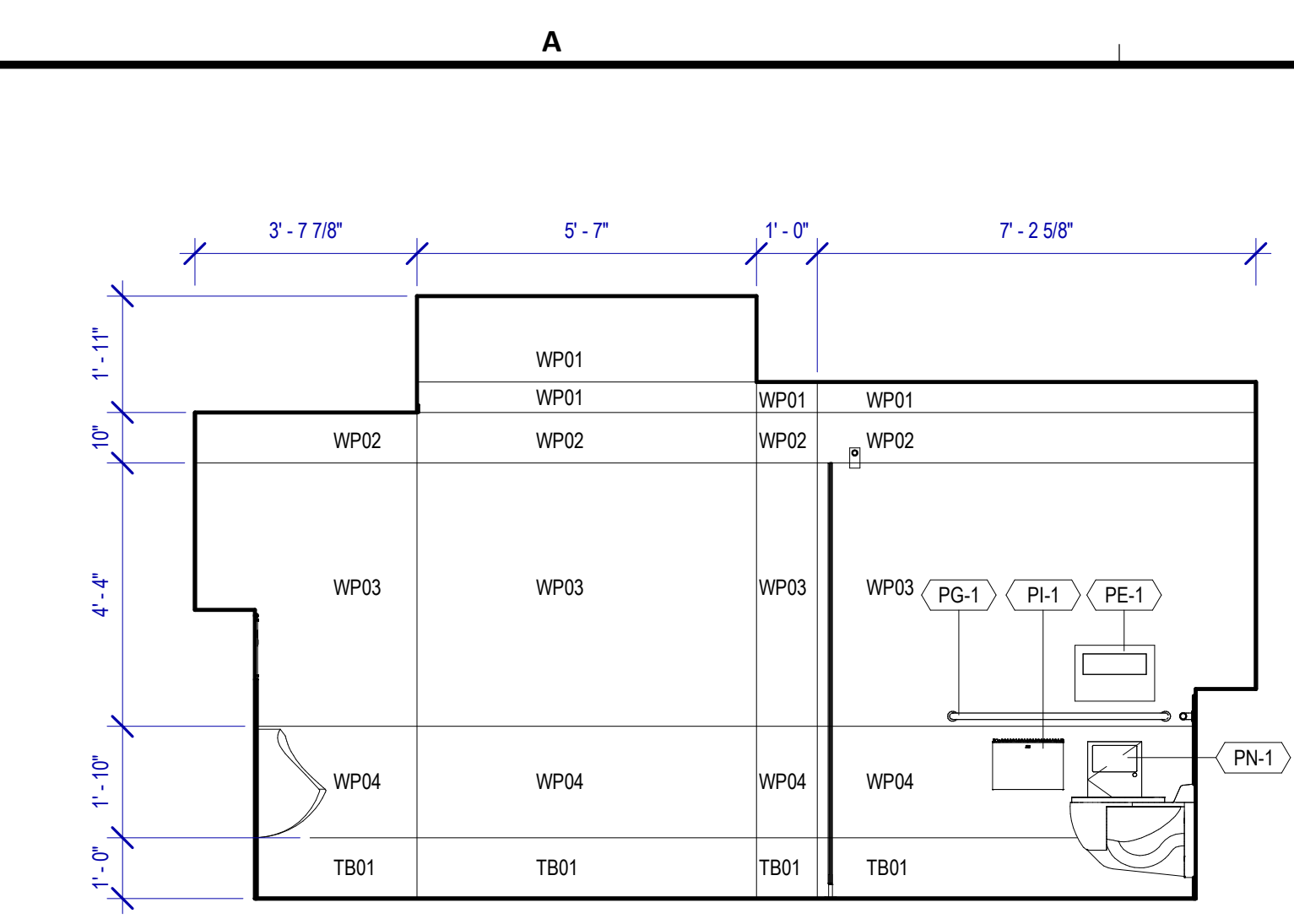
SHEET No. A-427 SCALE: As indicated

**INTERIOR ELEVATIONS NOTES**

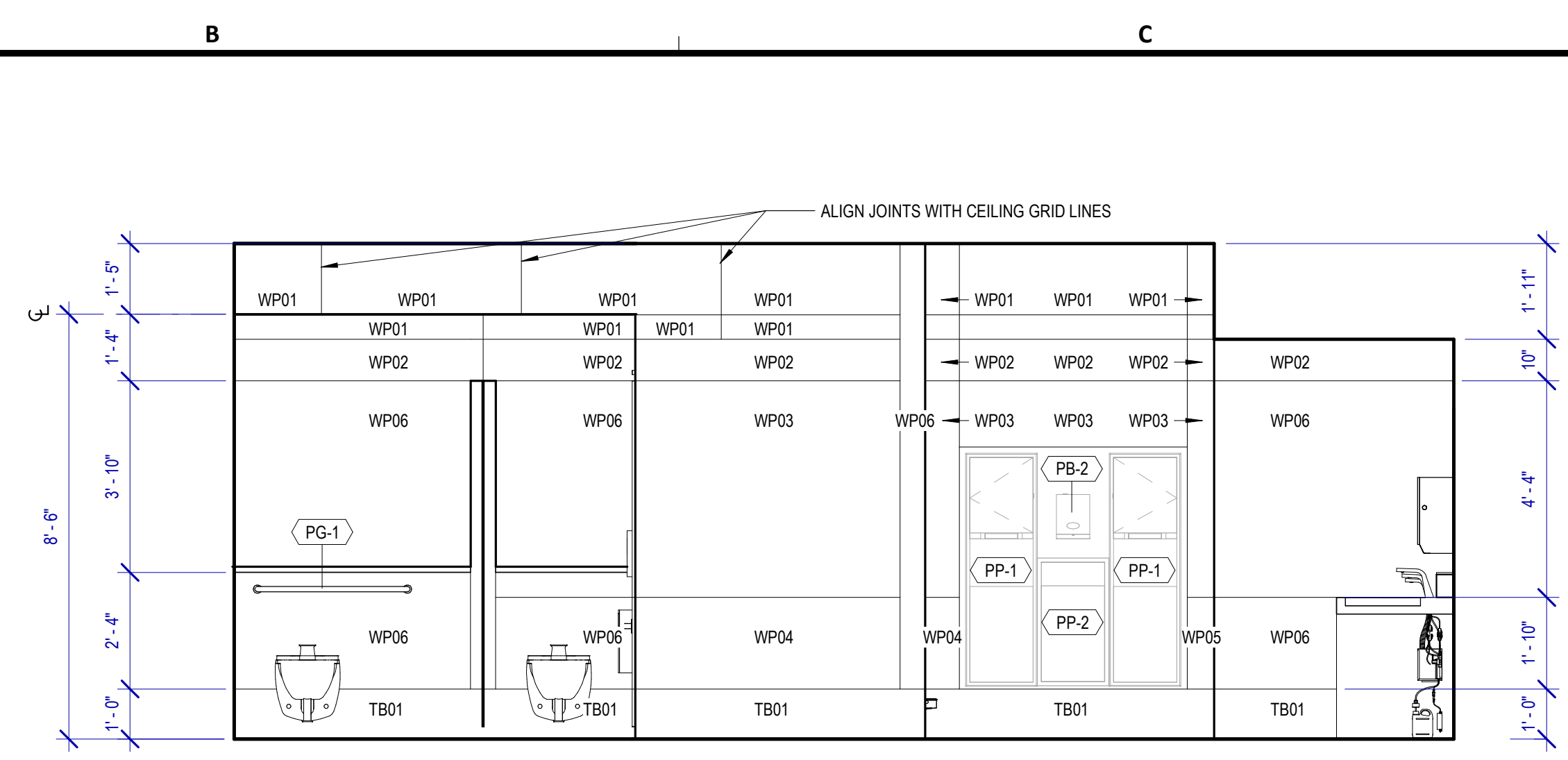
- REFER TO SHEET A600 FOR FINISH LEGEND.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.

**TOILET ACCESSORIES**

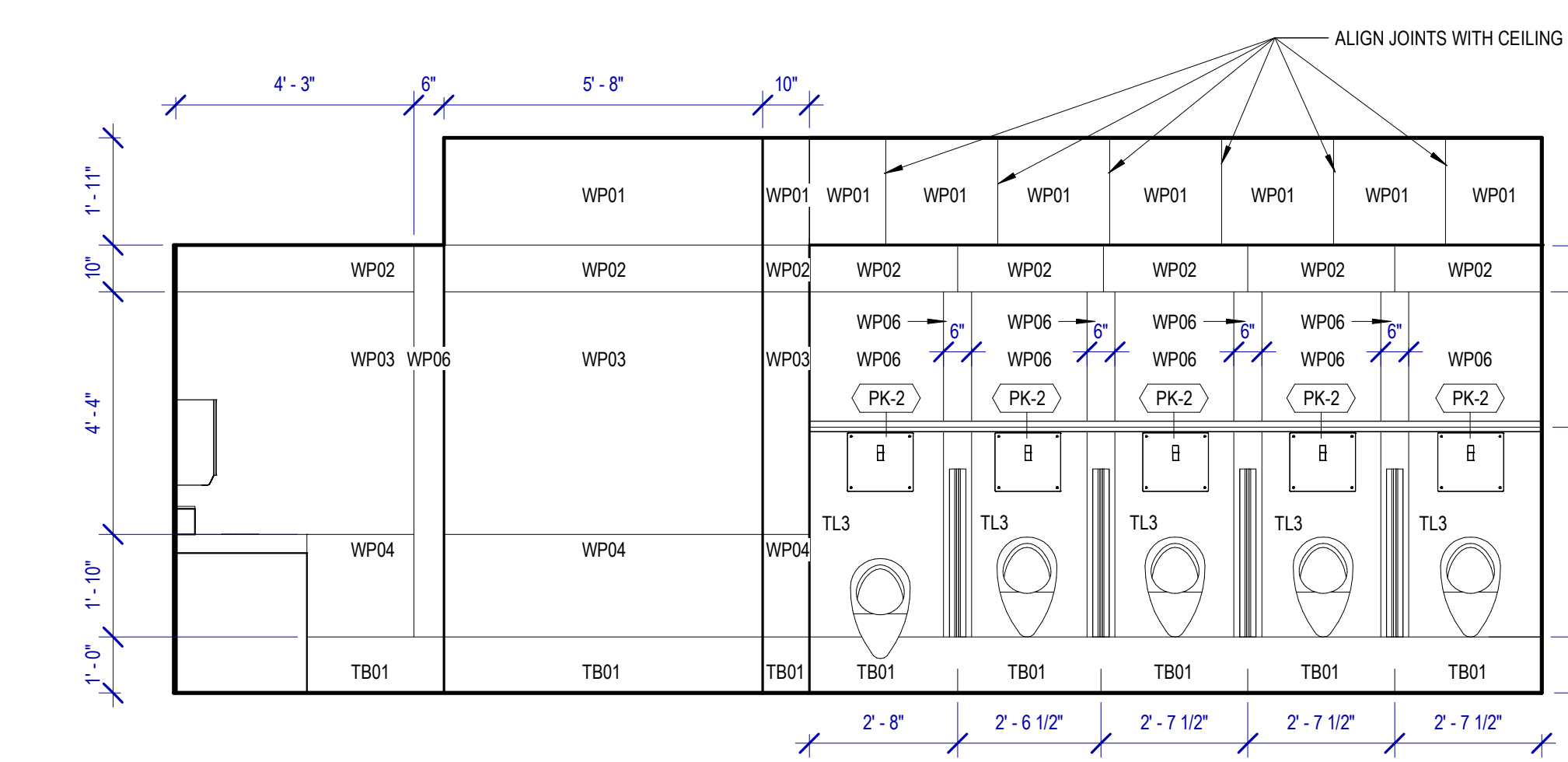
- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE FOR BABY PRODUCTS 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSLR.030.CS.H
- PF-2 THE SPLASH LAB RIBBON SENSOR FAUCET TSLR.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PH-1 STEP 'N WASH FLOOR MOUNTED SELF-RETRACTING STEPT STOOL SNW-SS 975B
- PI-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LA
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LA
- PM-1 CARVART FLOATING MIRROR
- PM-2 CARVART FRAMELESS LED MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSLR.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LA
- PX-1 BOBRICK MOP & BROOM HOLDER B-223
- PY-1 ZURN MOP SINK 1996-24
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 URINAL PARTITION RE: MATERIAL LEGEND
- PZ-3 BABY CHANGING STATION GLASS PARTITION
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202



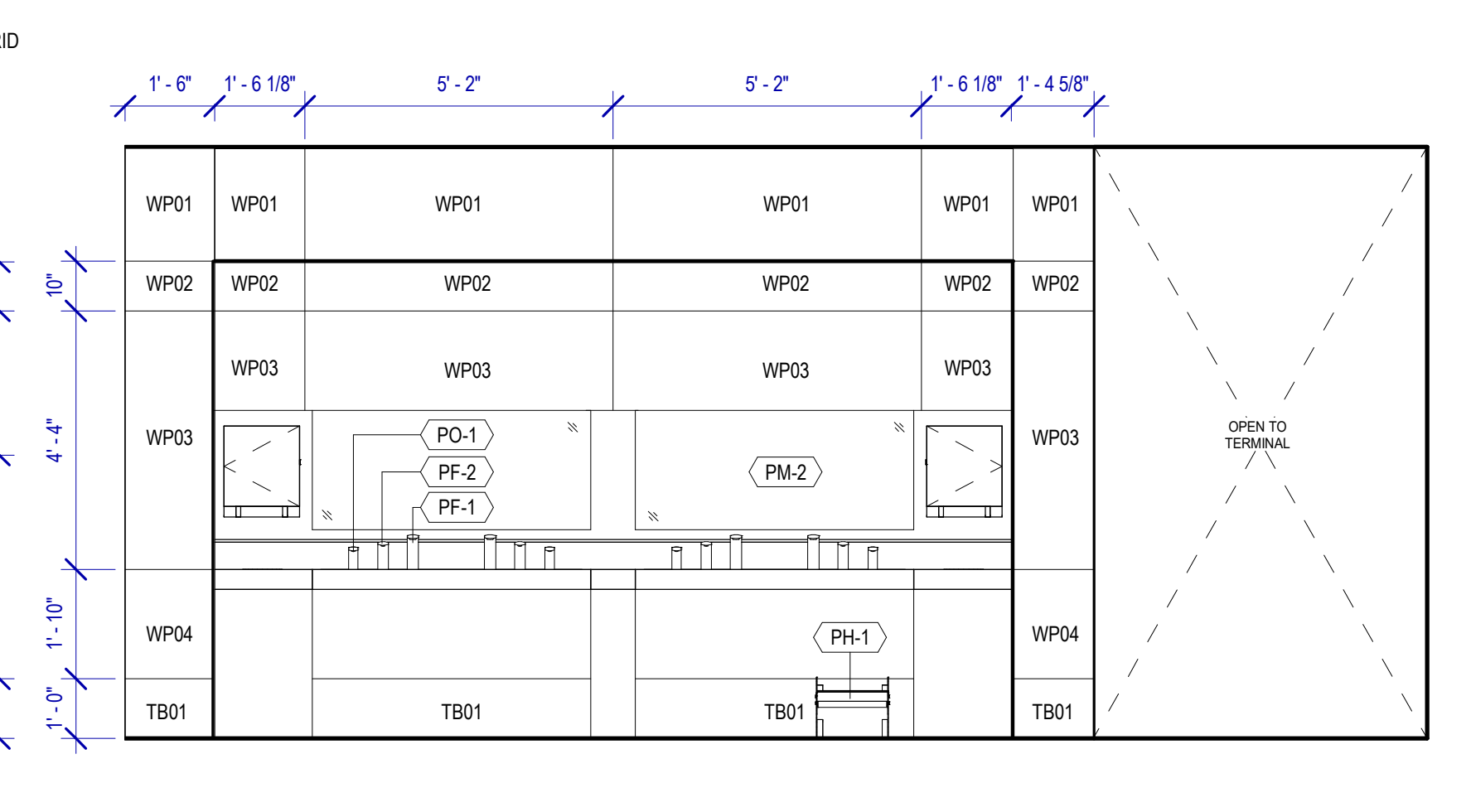
**A4 MEN'S RESTROOM - GATE 59-A**  
SCALE: 3/8" = 1'-0"



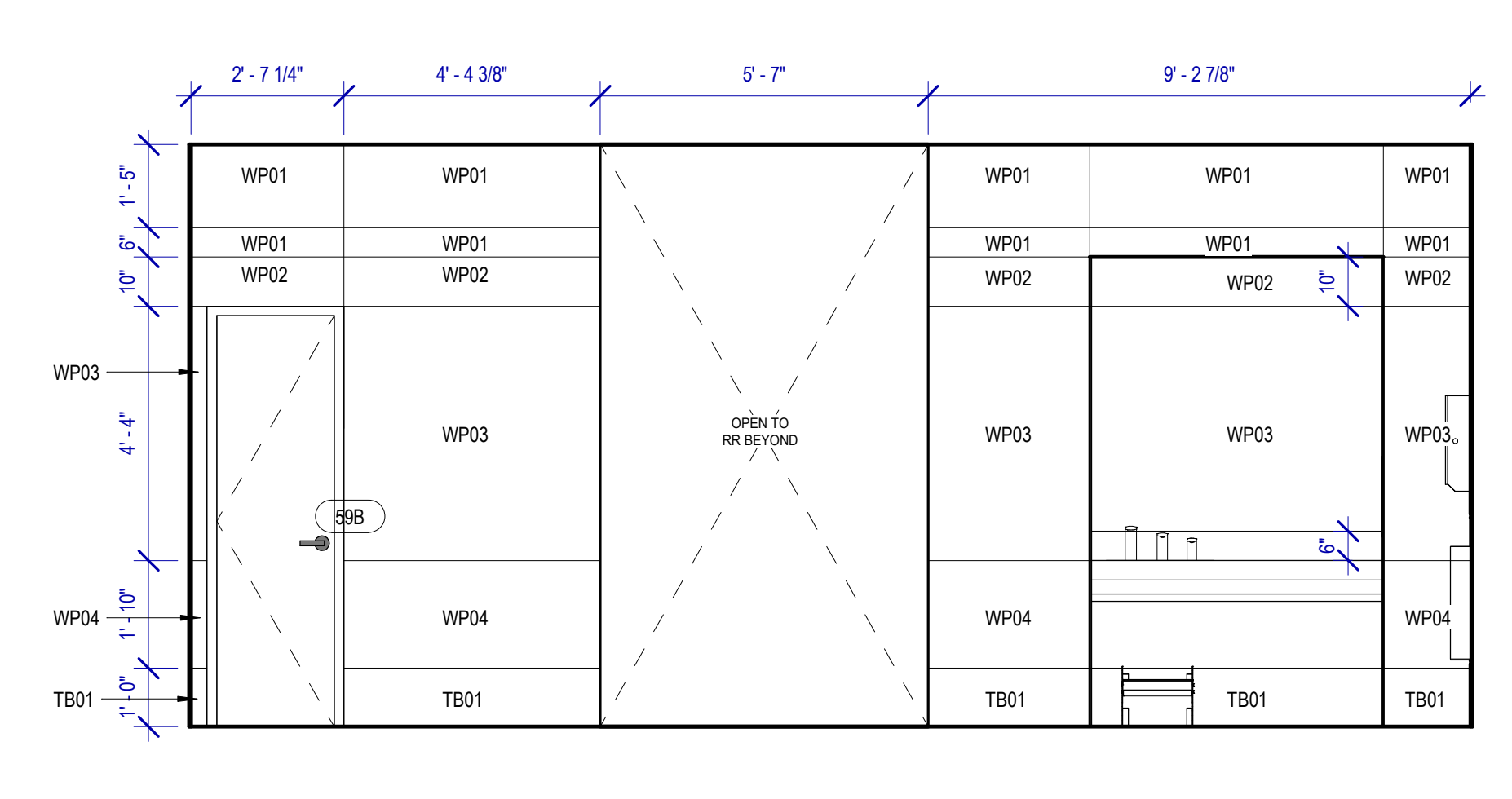
**B4 MEN'S RESTROOM - GATE 59-B**  
SCALE: 3/8" = 1'-0"



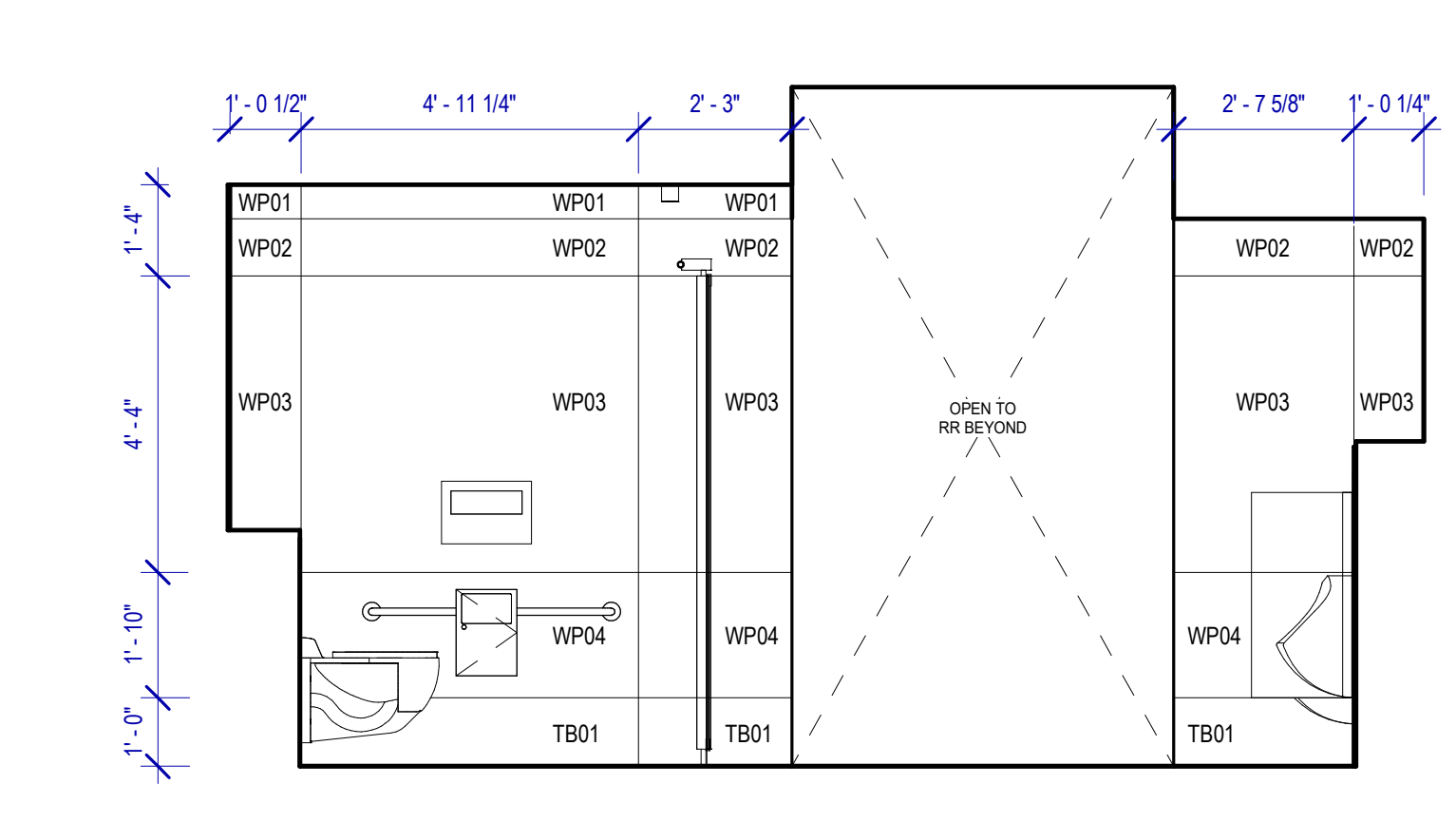
**A3 MEN'S RESTROOM - GATE 59-D**  
SCALE: 3/8" = 1'-0"



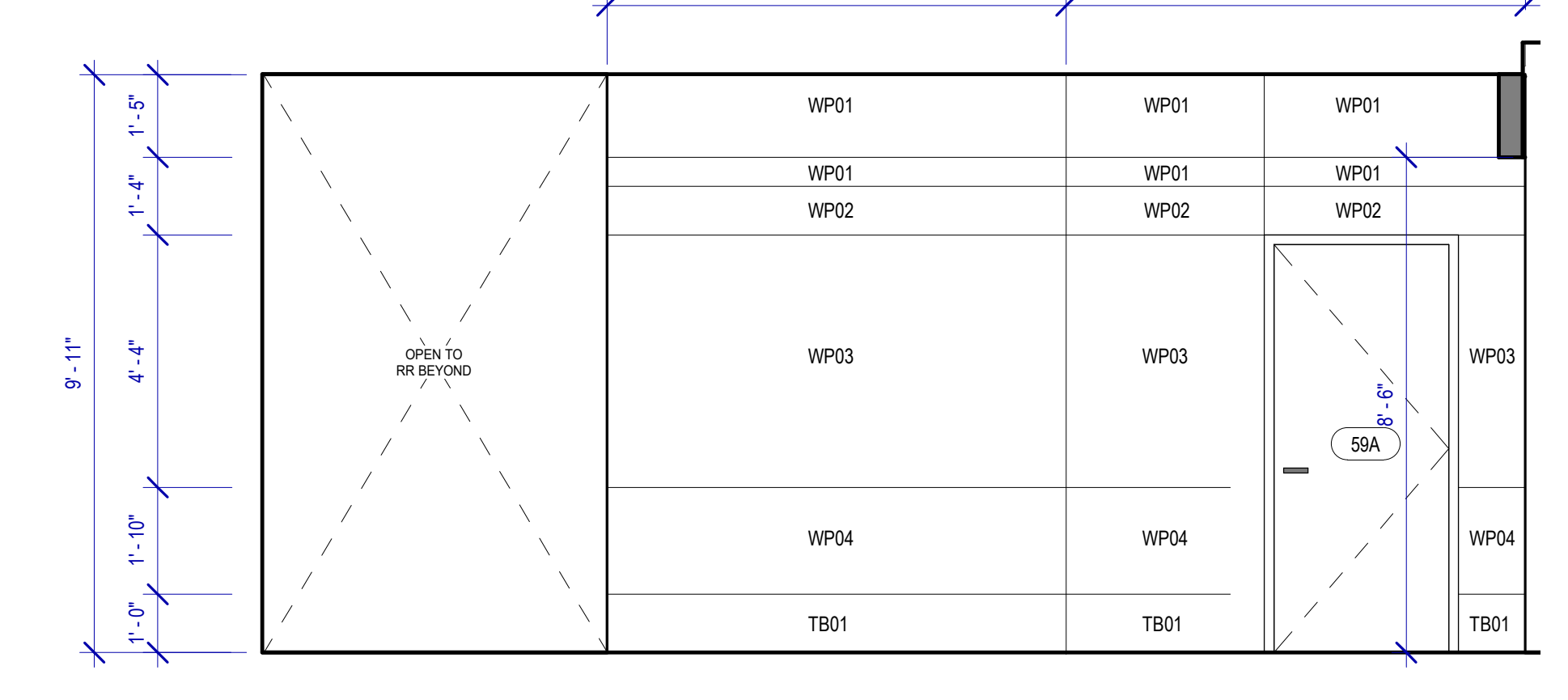
**B3 MEN'S RESTROOM - GATE 59-C**  
SCALE: 3/8" = 1'-0"



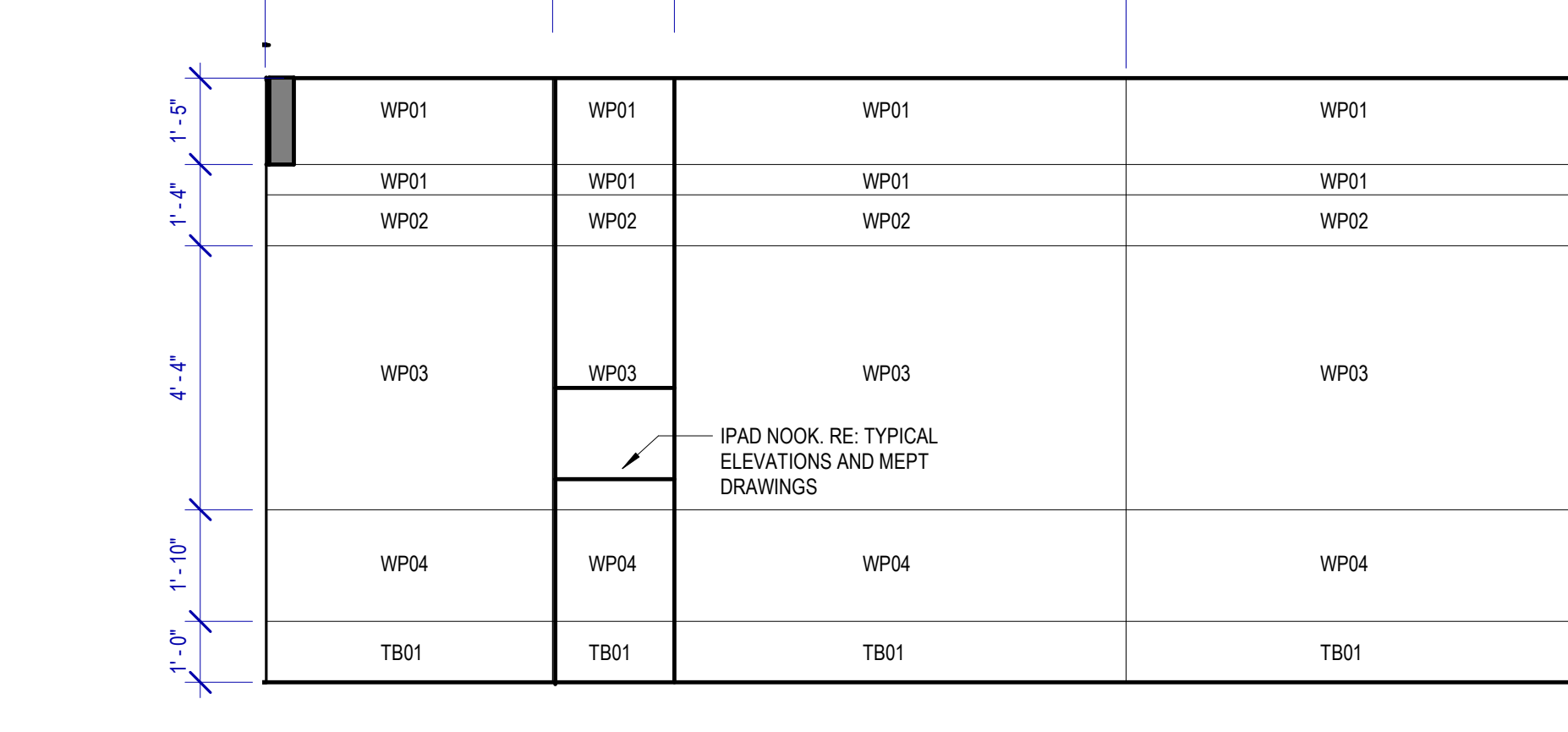
**D3 MEN'S RESTROOM - GATE 59-E**  
SCALE: 3/8" = 1'-0"



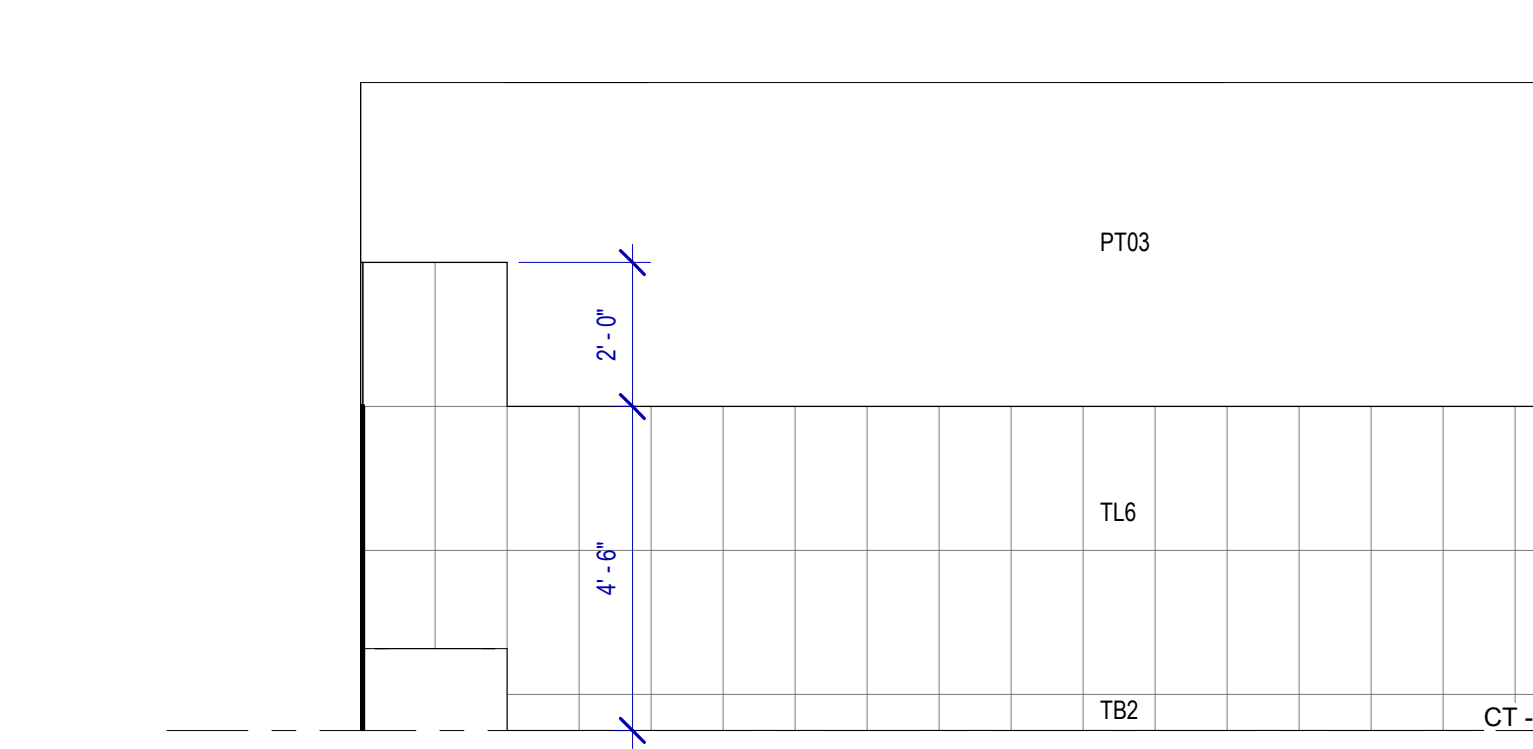
**A2 MEN'S RESTROOM - GATE 59-F**  
SCALE: 3/8" = 1'-0"



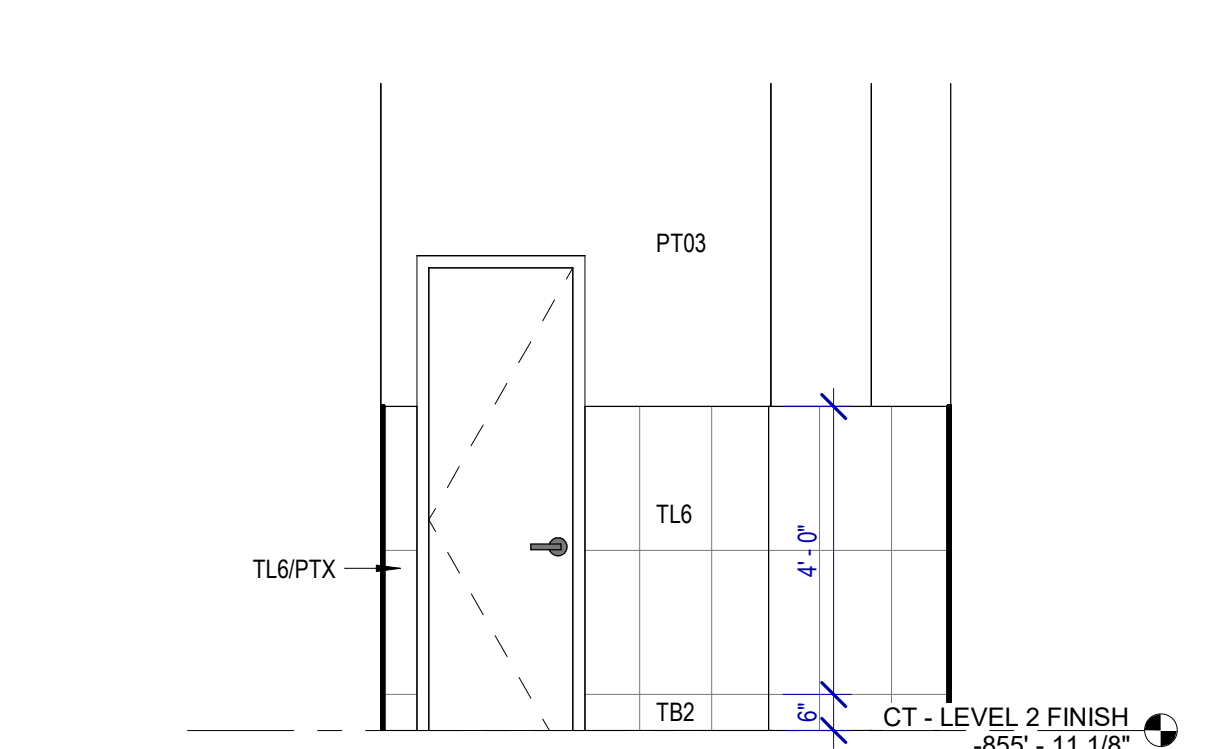
**B2 MEN'S RESTROOM - GATE 59-G**  
SCALE: 3/8" = 1'-0"



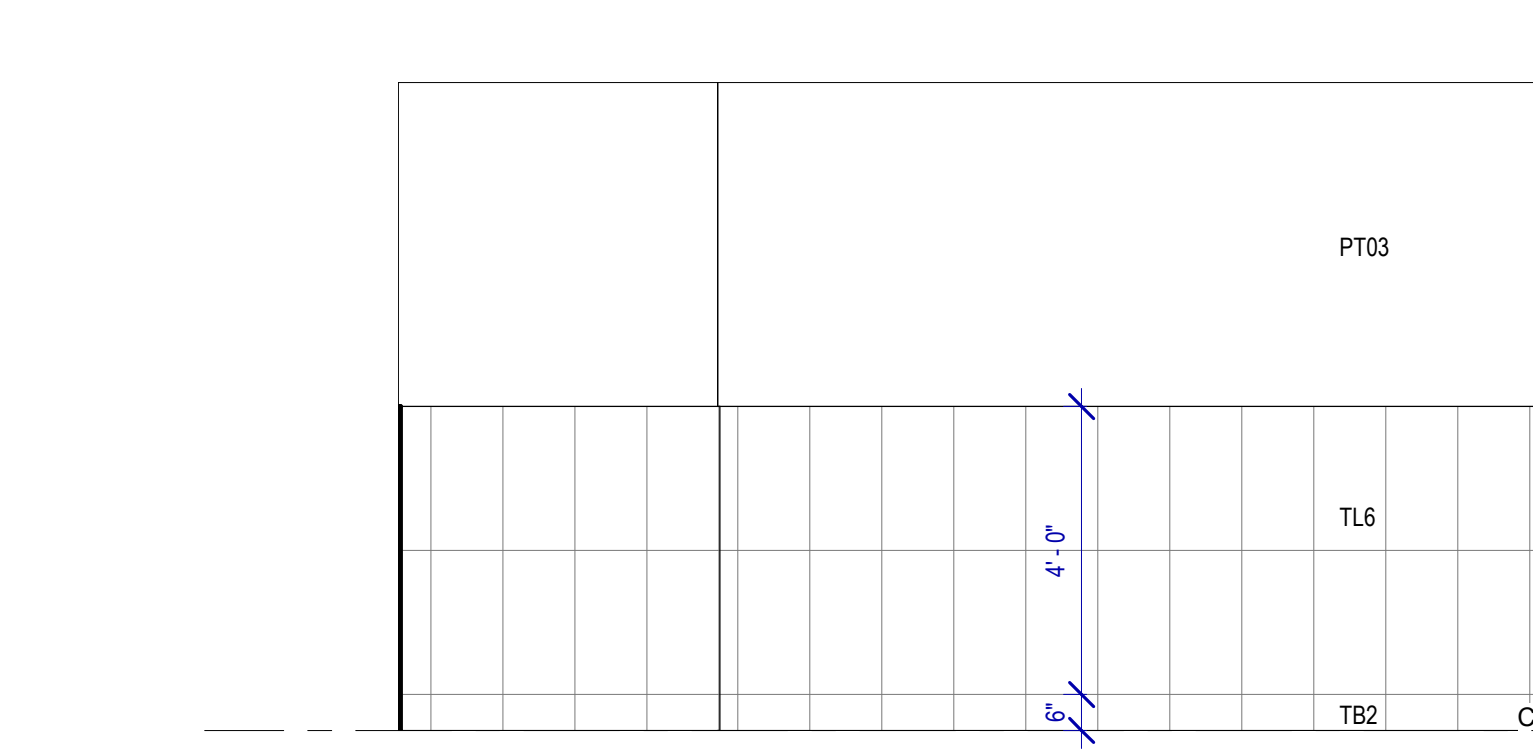
**D2 MEN'S RESTROOM - GATE 59-H**  
SCALE: 3/8" = 1'-0"



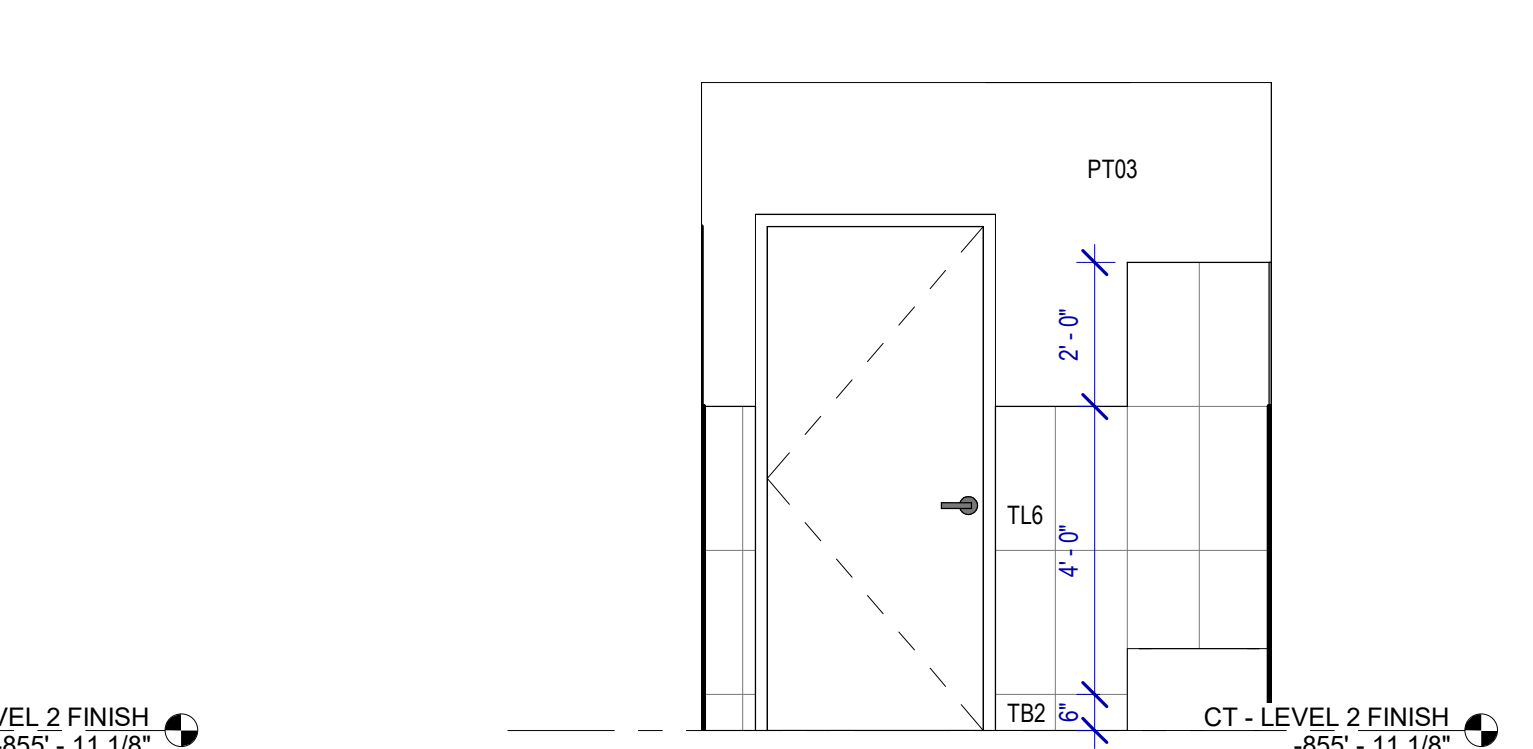
**A1 JANITOR - JC1 - A**  
SCALE: 3/8" = 1'-0"



**B1 JANITOR - JC1 - B**  
SCALE: 3/8" = 1'-0"



**C1 JANITOR - JC1 - C**  
SCALE: 3/8" = 1'-0"



**D1 JANITOR - JC1 - D**  
SCALE: 3/8" = 1'-0"

FILE PATH: BIM 360//1429 Hobby Restroom Renovation Phase III/1429.15\_HOU\_Restroom\_Phase3.rvt  
 HAS FILE:  
 PLOT DATE:  
 DOA DWG FILE:  
 OLD DOA No.:  
 PLOT DATE:

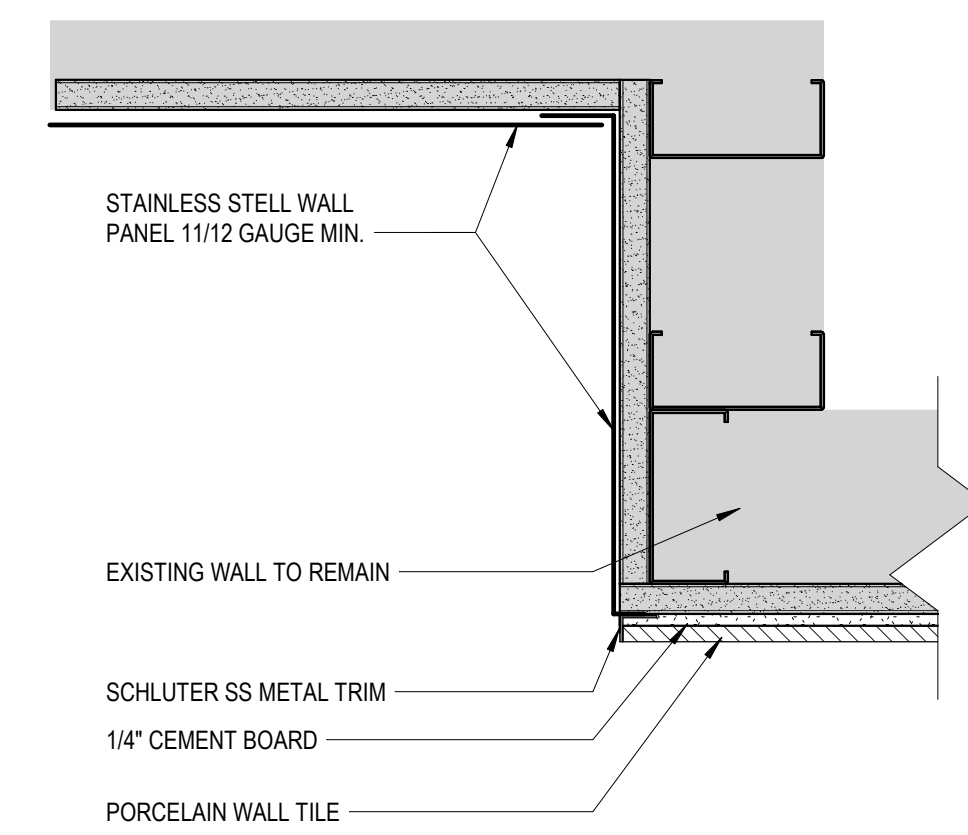
**REVISIONS**

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1	15% SD	09.30.22	HB
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3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

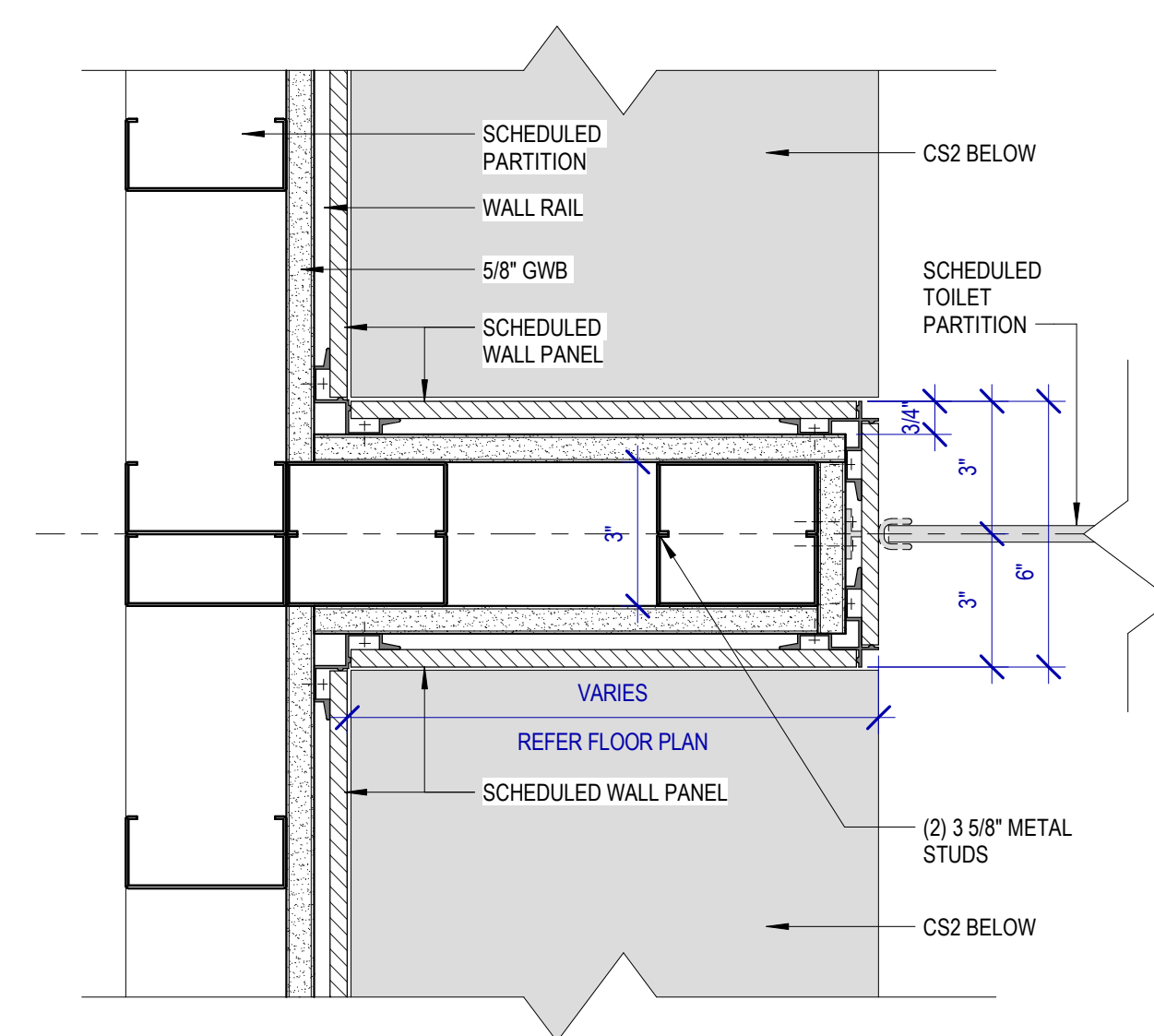
DESIGN BY: FF  
DRAWN BY: CT  
CHECKED BY: HB  
ISSUE DATE: 01/25/2023  
APPROVED BY: Hector Berrios  
APPROVAL DATE: 01/25/2023

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**1 PLAN DETAIL @ ALUMINUM DETAIL AT DRINKING FOUNTAIN**  
SCALE: 3" = 1'-0"



**2 PLAN DETAIL @ SHELVING BEHIND THE URINAL/WC**  
SCALE: 3" = 1'-0"

PLOT DATE: DOA DWG FILE: DOA DOA No.: PLOT DATE: FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/1429.15\_HOU\_Restroom\_Phase3.rvt HAS FILE:

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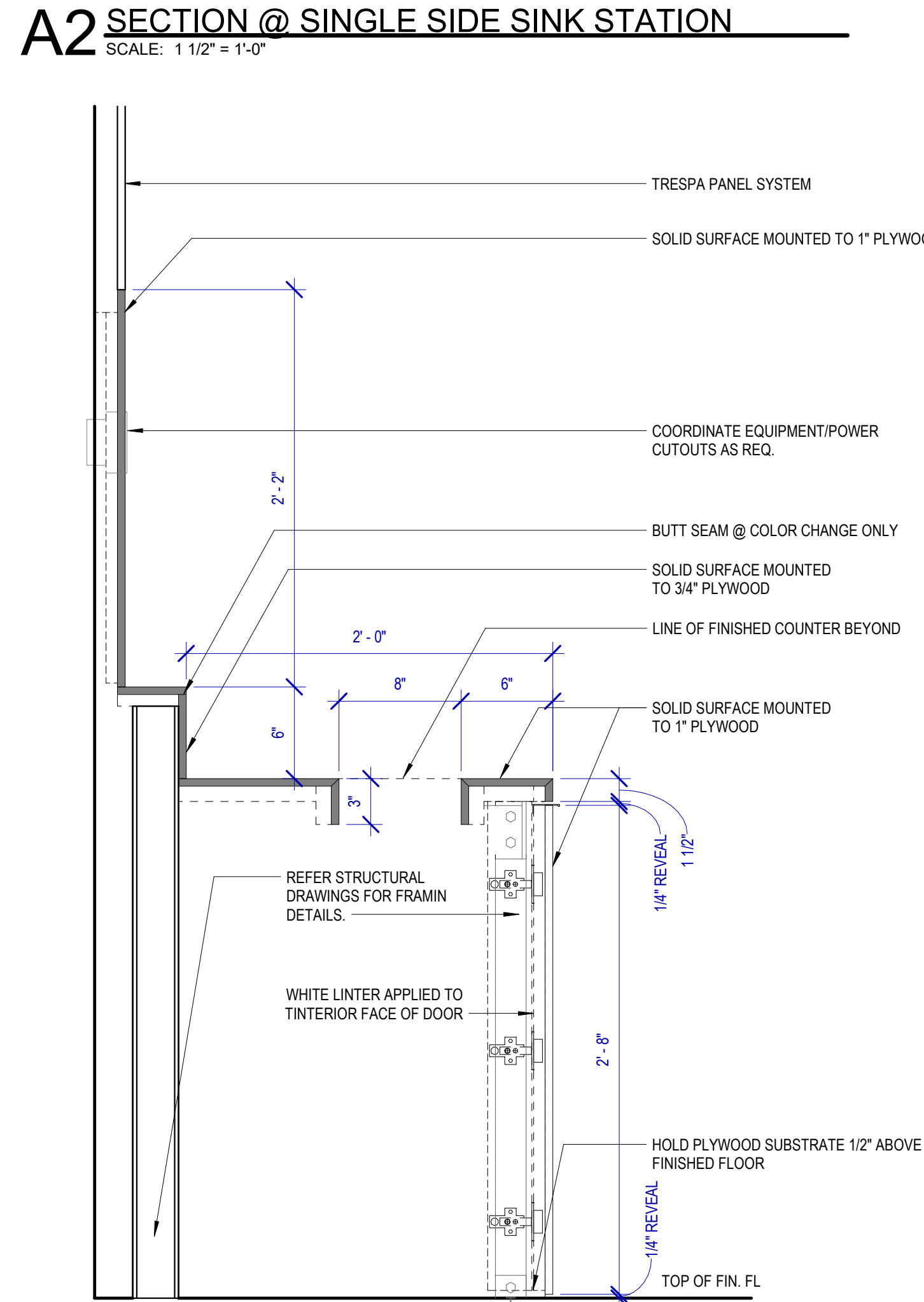
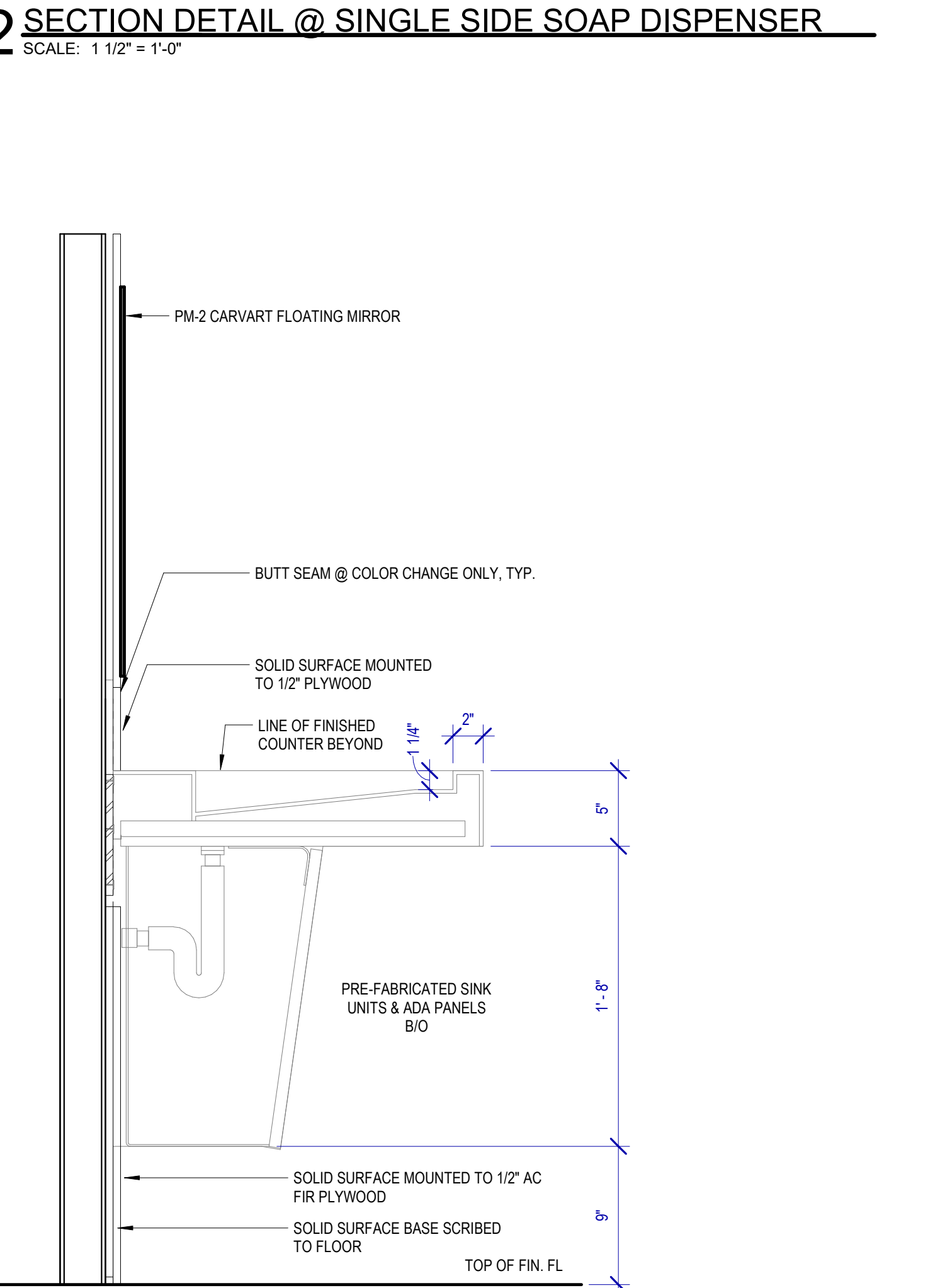
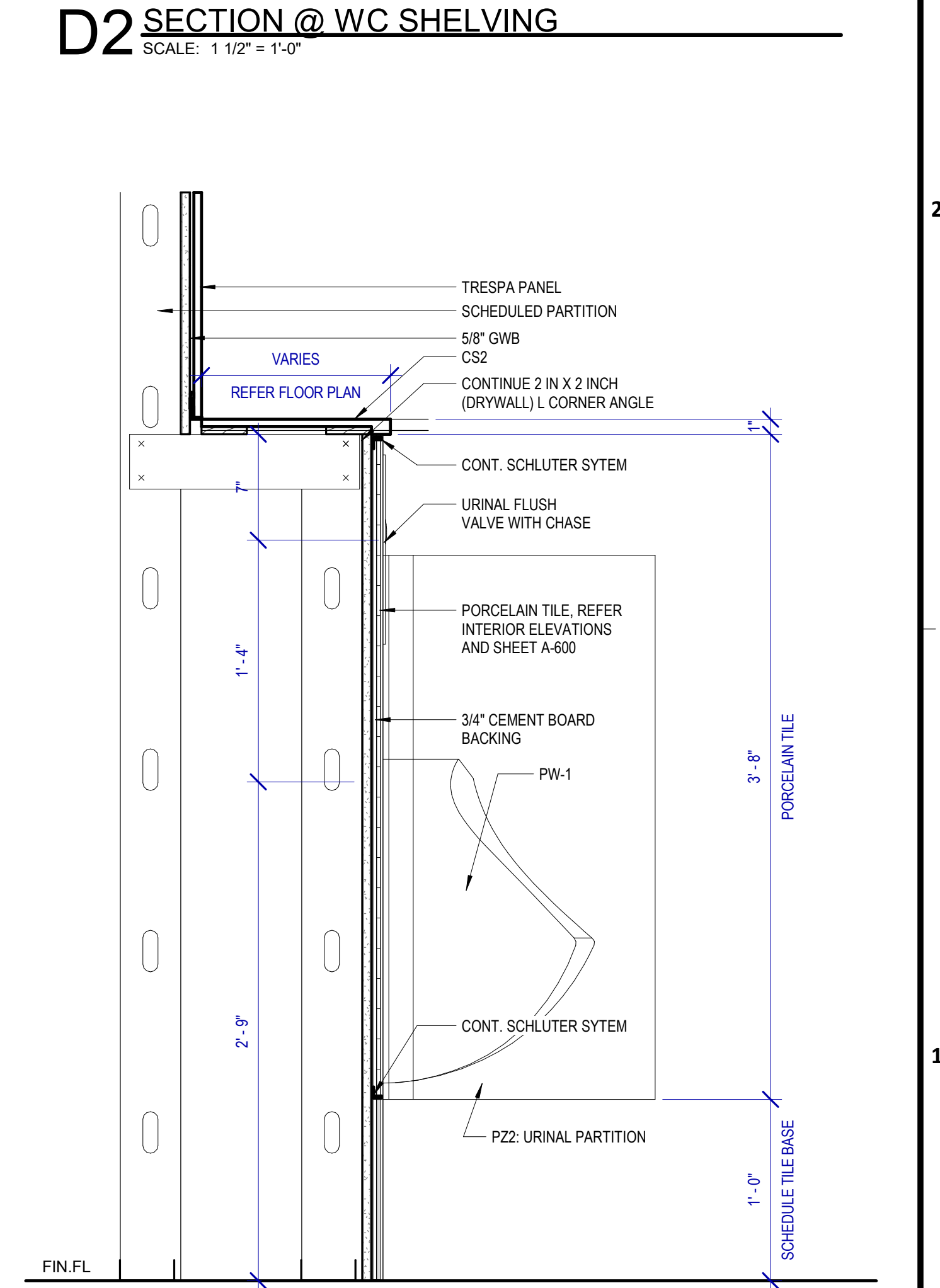
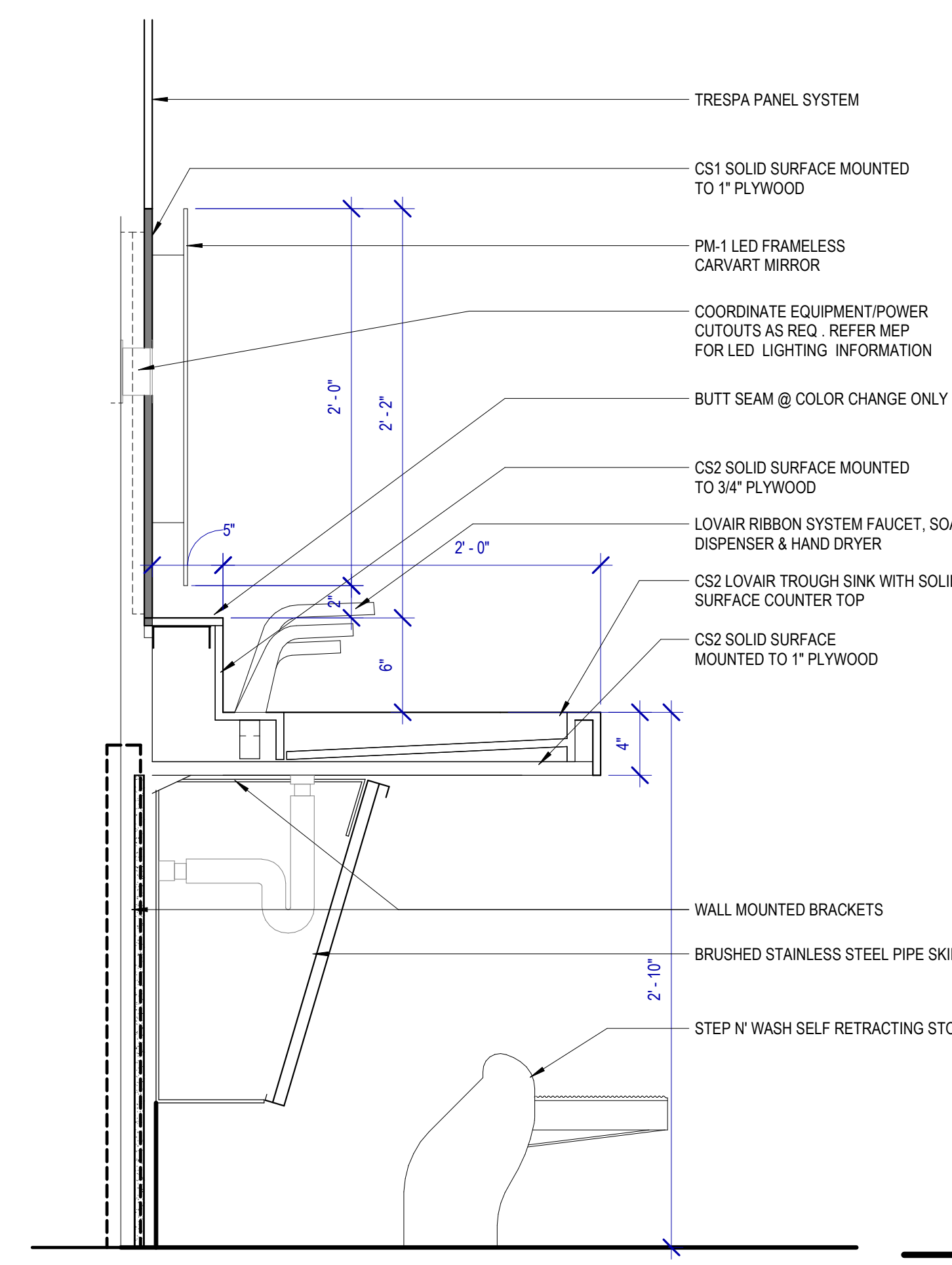
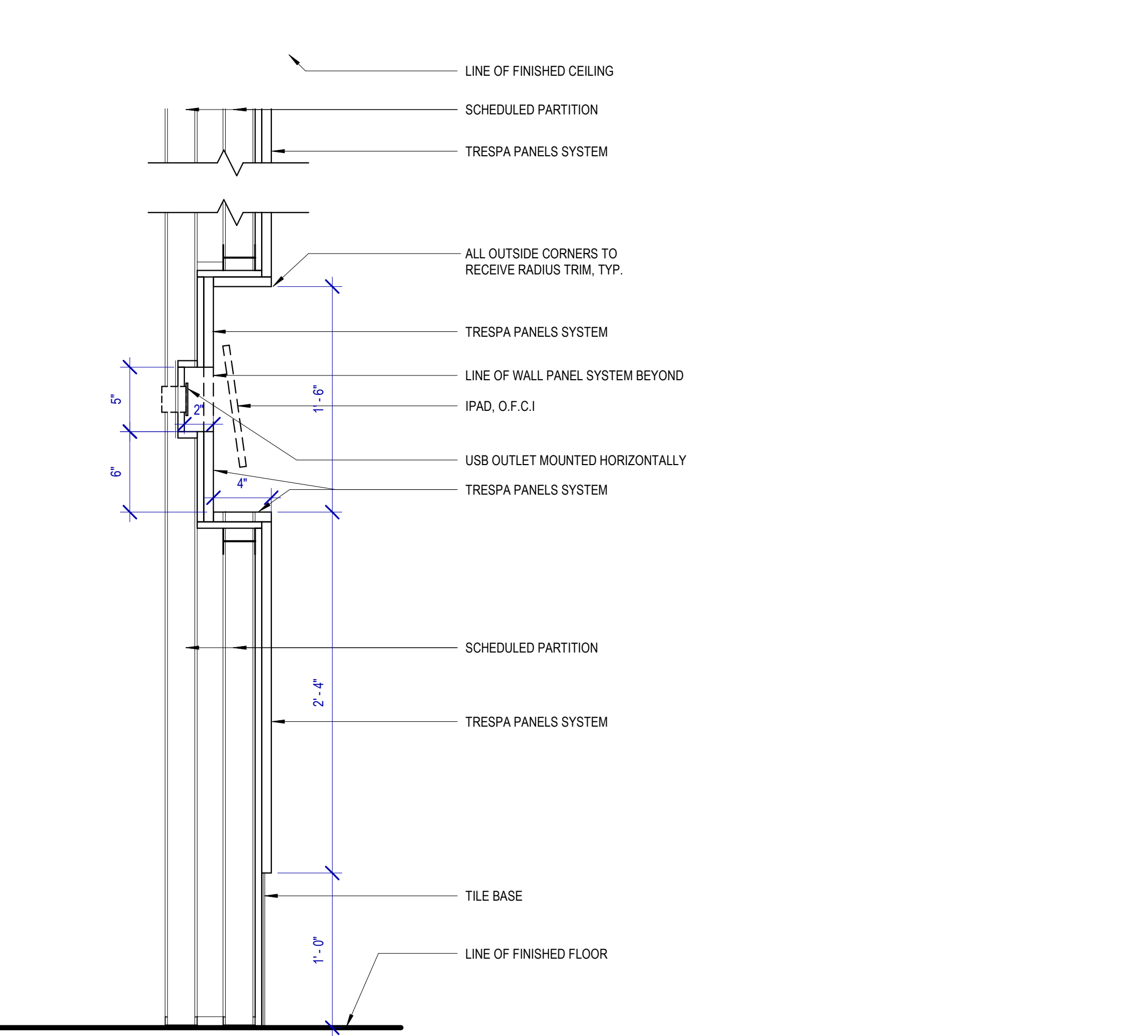
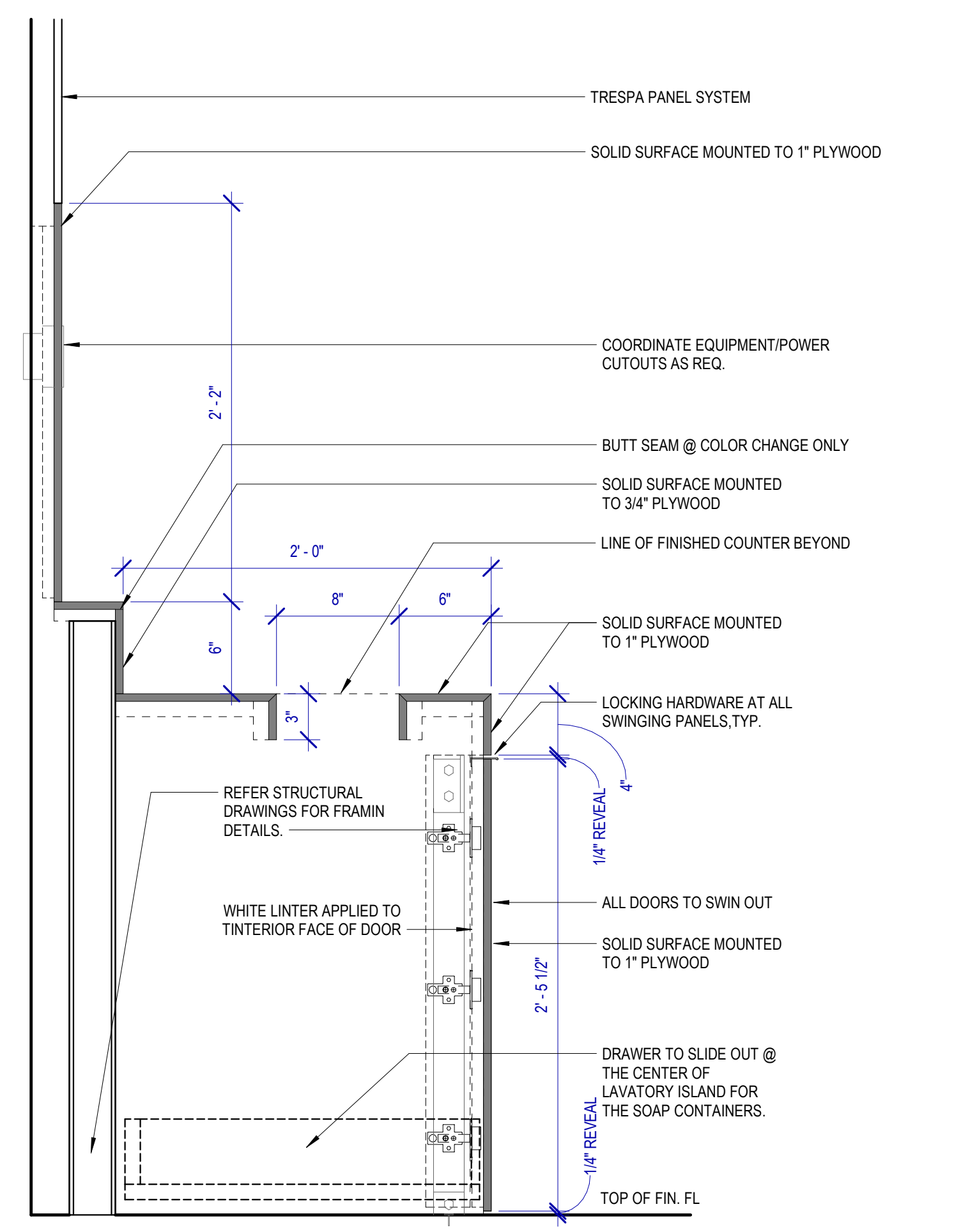
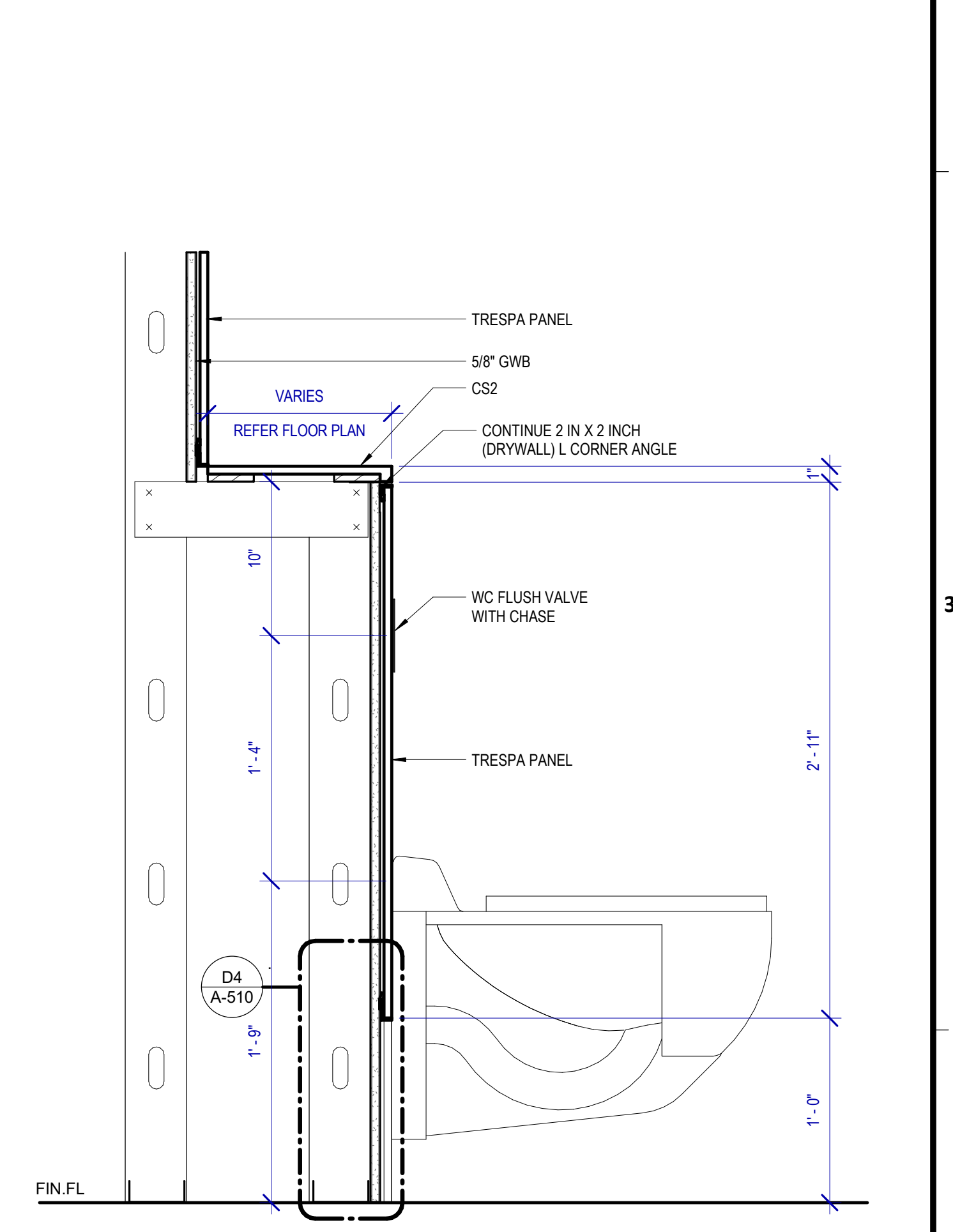
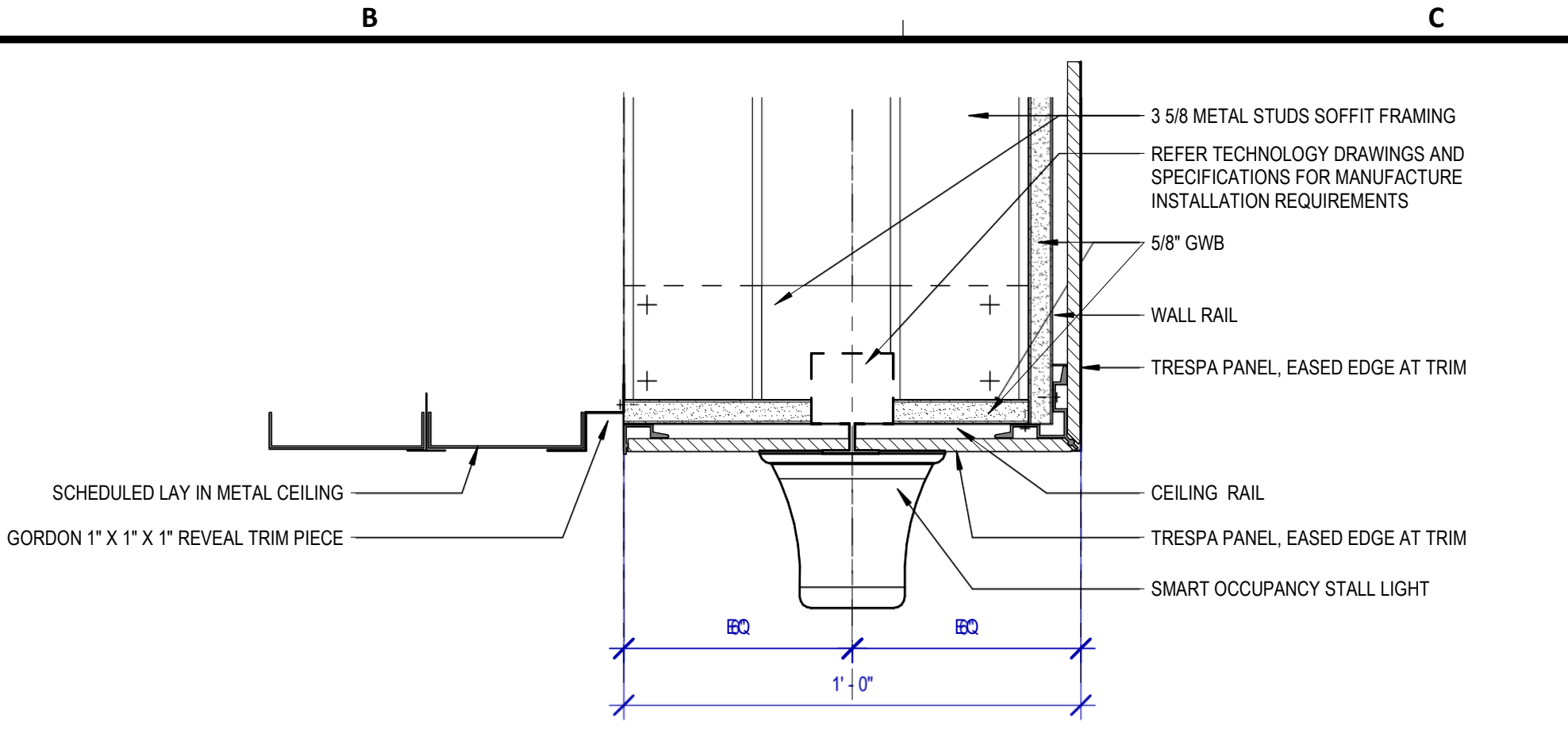
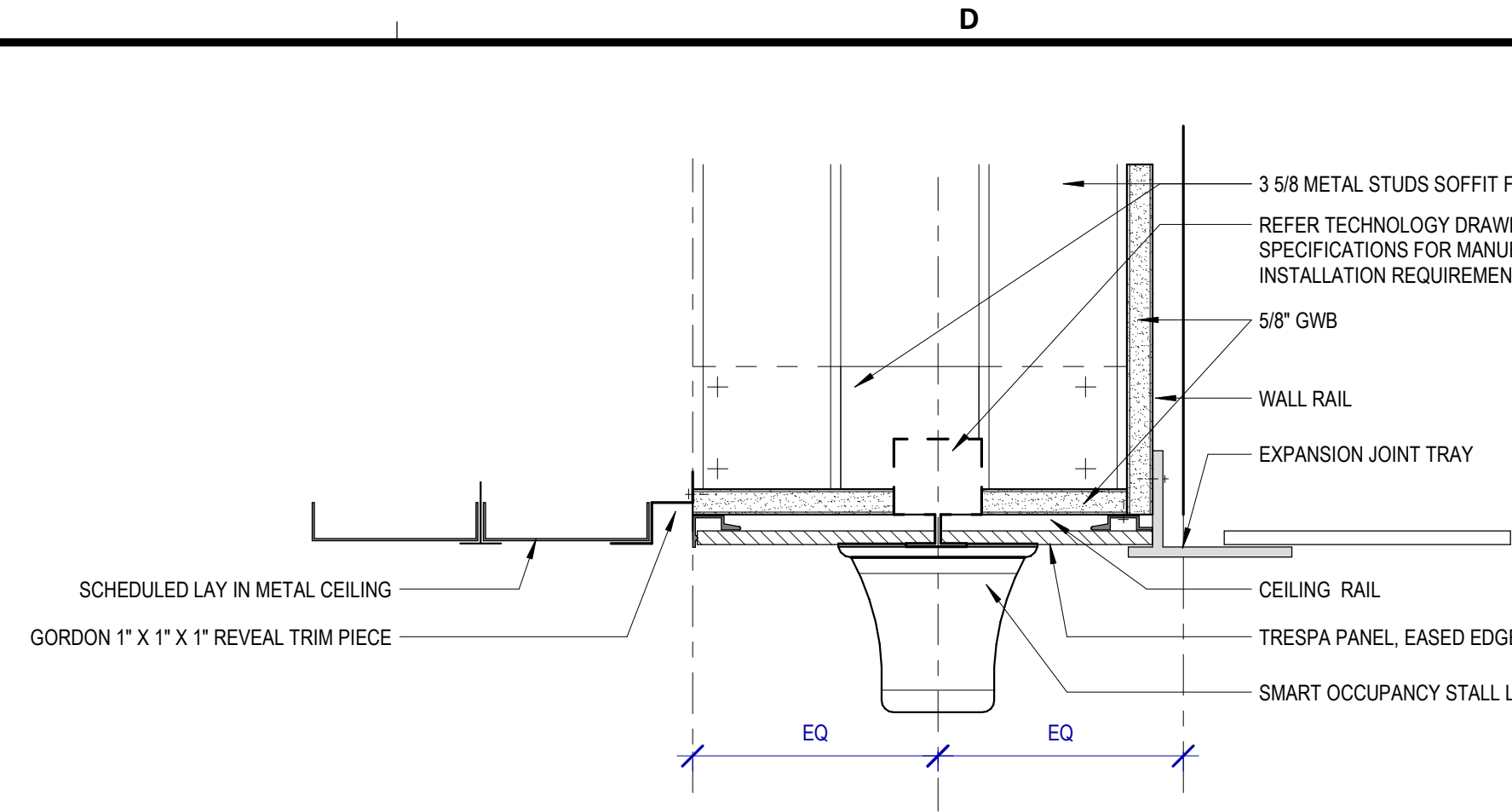
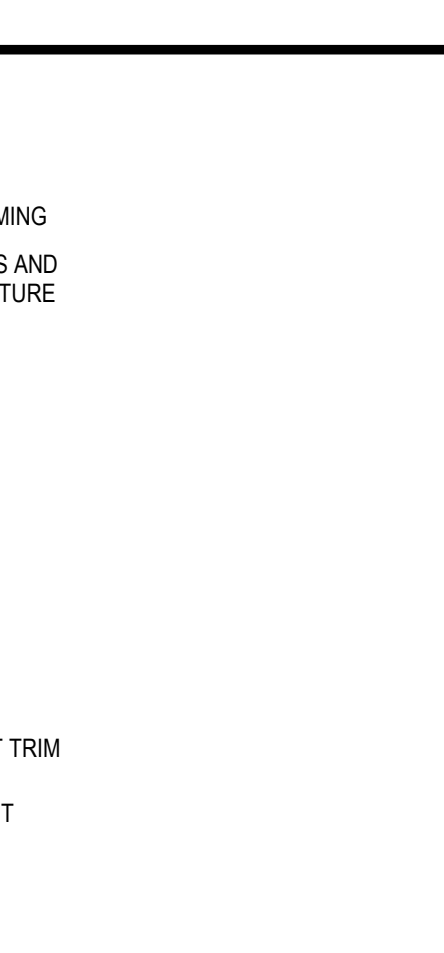
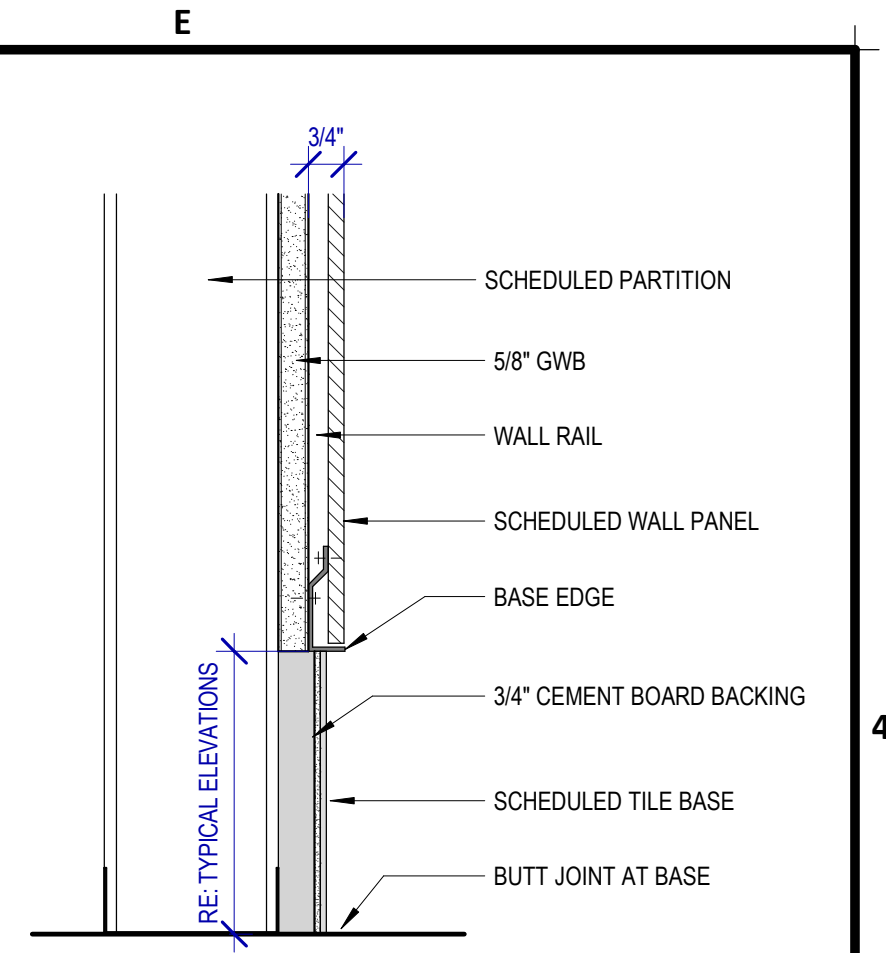
Review/Approval Category

**IFC**  
ISSUED FOR CONSTRUCTION

SHEET NAME: SECTION DETAILS

SHEET No. A-510 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1



PLOT DATE: DOA DWG FILE: PLOT DATE: HAS FILE: FILE PATH: BIM 360://1429 Hobby Restroom Renovation Phase III/1429.15\_HOU\_Restroom\_Phase3.rvt



7800 Airport Blvd  
Houston, TX 77061

### HAS HOBBY AIRPORT RESTROOMS PHASE 3

C.I.P. No. **PN209B** A.I.P. No.  
C.O.H. No. D.O.A. No.

## RDLR Architects

ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121  
www.rdlr.com



### HENDERSON ROGERS

structural engineers  
2603 Augusta, Suite 800  
Houston, Texas 77057  
713.430.5800 713.430.5888 fax  
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

#### REVISIONS

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
2	30% CD	10.28.22	HB
3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

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Review/Approval Category

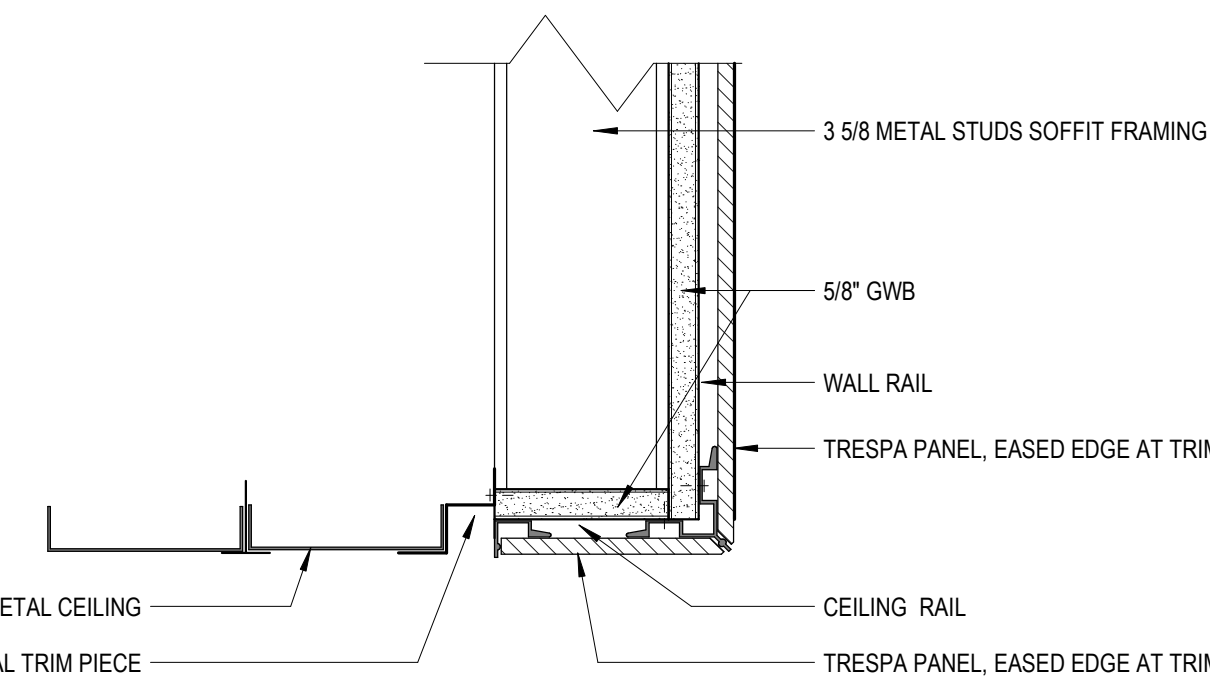
**IFC**

ISSUED FOR CONSTRUCTION

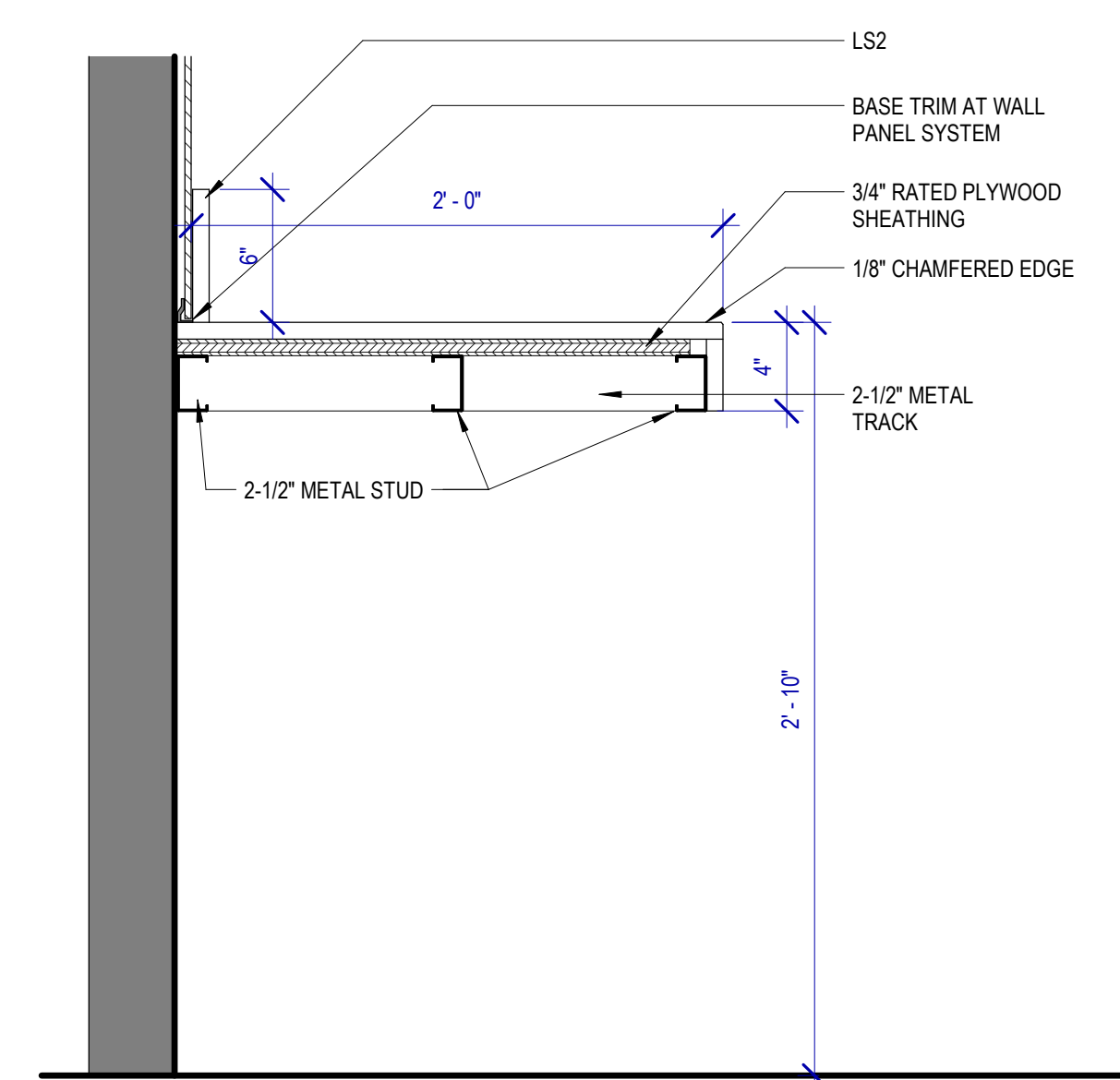
SHEET NAME: SECTION DETAILS

SHEET No. A-511 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1



**C1 SECTION DETAIL @ SOFFIT**  
SCALE: 3" = 1'-0"



**D1 SECTION DETAIL @ VANITY**  
SCALE: 1 1/2" = 1'-0"

FILE PATH: BIM 360://1429 Hobby Restroom Renovation Phase III/1429.15\_HOU\_Restroom\_Phase3.rvt  
HAS FILE:  
PLOT DATE:  
DOA DWG FILE:  
OLD DOA No.:



### DOOR AND DOOR SCHEDULE GENERAL NOTES

- ALL DOOR SIZES ARE TO JAMB OPENING SIZE.
- ALL UNDERCUT DOOR REQUIREMENTS FOR VARIOUS FLOOR FINISHES SHALL BE VERIFIED AND COORDINATED BY THE CONTRACTOR.
- ALL DOOR OPENINGS, FRAMES, AND HARDWARE SHALL COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.
- COORDINATE ALL DOORS AND DETAILS TO PROVIDE ADEQUATE CLEARANCE AND FRAME REINFORCEMENT FOR HARDWARE TYPES.
- TYPICAL DOOR BEVEL TO BE 1/8" IN 2", UNLESS NOTED OTHERWISE BY THE REQUIRED HARDWARE TEMPLATES.
- ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE SIDE OF EGRESS WITHOUT USE OF SPECIAL KNOWLEDGE OR EFFORT.
- DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE LOCATED 4" FROM THE FINISHED WALL TO OUTSIDE OF FINISHED JAMB.
- DOORS & FRAMES TO BE PAINTED TO MATCH ADJACENT WALL PAINT COLOR

### DOOR HARDWARE NOTES

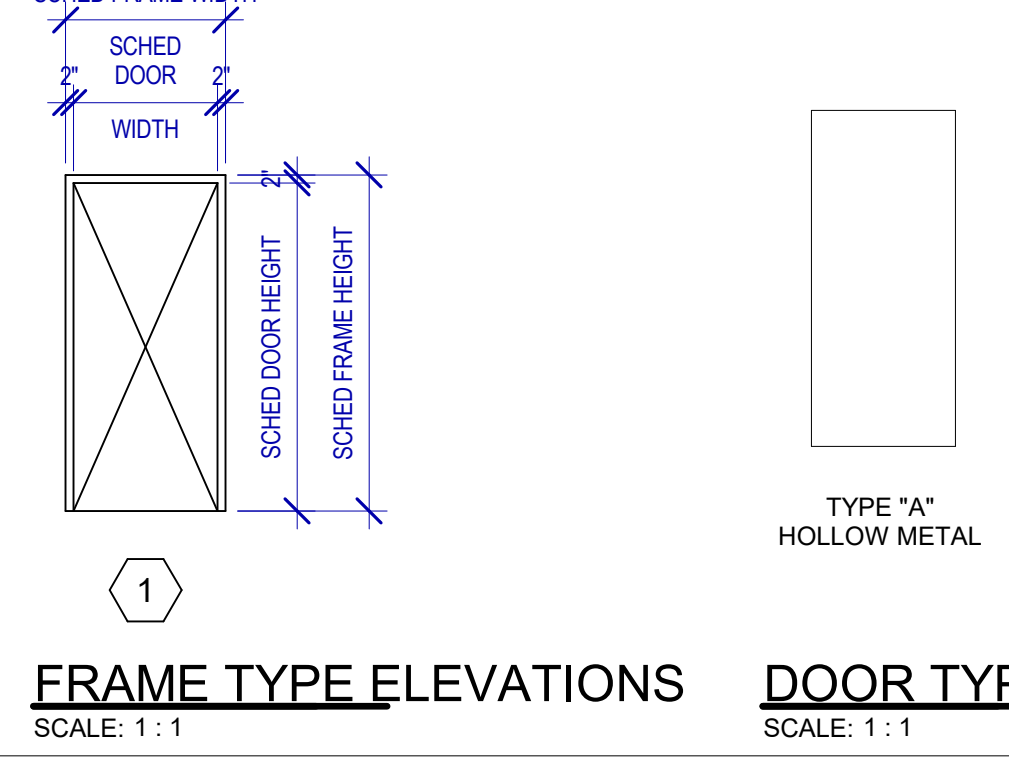
- HARDWARE SETS REPRESENT THE DESIGN INTENT. THEY ARE A GUIDE AND SHOULD NOT BE CONSIDERED A DETAIL. HARDWARE SCHEDULE, DISCREPANCIES, CONFLICTING HARDWARE AND MISSING ITEMS SHOULD BE BROUGHT TO THE ATTENTION WITH THE ARCHITECT WITH CORRECTIONS MADE. OMITTED ITEMS NOT INCLUDED SHOULD BE SCHEDULED WITH THE APPROPRIATE ADDITIONAL HARDWARE REQUIRED FOR PROPER APPLICATION AND FUNCTIONALITY.
- ALWAYS FREE EGRESS, INGRESS WITH VALID CREDENTIAL
- MANUFACTURERS LISTED ARE A BASIS OF DESIGN. ABBREVIATIONS USED IN THE LISTED SETS INCLUDE:  
MK - MCKINNEY  
RO - ROCKWOOD  
BE - DORMAKABA BEST  
OT - OTHER  
RF - REXSON  
NO - NORTON

### DOOR SCHEDULE

MARK	ROOM NAME	TYPE	DOOR OPENING				DOOR FRAME				DETAILS			REMARKS						
			THICKNESS	WIDTH	HEIGHT	MATERIAL	FINISH	FIRE RATING	GLAZING TYPE	HARDWARE GROUP	AAOS Shared HW Set	TYPE	HEIGHT		WIDTH	MATERIAL	FINISH	JAMB	HEAD	THRES HOLD
3A	FAMILY RESTROOM	A	1 3/4"	3'-0"	7'-0"	HM	PT2				7.0	1	7'-2"	3'-4"	HM	PT2				1
3B	FAMILY RESTROOM - CORRIDOR	A	1 3/4"	3'-0"	7'-0"	HM	PT2				7.0	1	7'-2"	3'-4"	HM	PT2	B2/A600	A2/A600	B3/A600	4
4A	PLUMBING CHASE	A	1 3/4"	2'-0"	7'-0"	HM	PT2				5.0	1	7'-2"	2'-4"	HM	PT2	B2/A600	A2/A600	B3/A600	4
5A	PLUMBING CHASE	A	1 3/4"	1'-8"	7'-0"	HM	PT2				1.0	1	7'-2"	2'-0"	HM	PT2	B2/A600	A2/A600	B3/A600	4
5A1	FAMILY RESTROOM	A	1 3/4"	3'-0"	7'-0"	HM	PT2				7.0	1	7'-2"	3'-4"	HM	PT2				1
5A2	PLUMBING CHASE	A	1 3/4"	2'-0"	7'-0"	HM	PT2				5.0	1	7'-2"	2'-4"	HM	PT2	B2/A600	A2/A600	B3/A600	4
5B	PLUMBING CHASE	A	1 3/4"	2'-0"	7'-0"	HM	PT2				1.0	1	7'-2"	2'-4"	HM	PT2	B2/A600	A2/A600	B3/A600	4
5C	PLUMBING CHASE	A	1 3/4"	1'-6"	6'-0"	HM	PT2				5.0	1	6'-2"	1'-10"	HM	PT2	B2/A600	A2/A600	B3/A600	4
6A	PLUMBING CHASE	A	1 3/4"	2'-0"	7'-0"	HM	PT2				1.0	1	7'-2"	2'-4"	HM	PT2	B2/A600	A2/A600	B3/A600	4
58A	FAMILY RESTROOM	A	1 3/4"	3'-0"	7'-0"	HM	PT2				7.0	1	7'-2"	3'-4"	HM	PT2				2
58B	PLUMBING CHASE	A	1 3/4"	2'-0"	7'-0"	HM	PT2				1.0	1	7'-2"	2'-4"	HM	PT2	B2/A600	A2/A600	B3/A600	4
59A	JANITOR	A	1 3/4"	3'-0"	7'-0"	HM	PT2				3.0	1	7'-2"	3'-4"	HM	PT2	B2/A600	A2/A600	B3/A600	4
59B	PLUMBING CHASE	A	1 3/4"	2'-0"	7'-0"	HM	PT2				2.0	1	7'-2"	2'-4"	HM	PT2	B2/A600	A2/A600	B3/A600	4
59C	PLUMBING CHASE	A	1 3/4"	2'-0"	7'-0"	HM	PT2				2.0	1	7'-2"	2'-4"	HM	PT2	B2/A600	A2/A600	B3/A600	4
C1	CLOSET	A	1 3/4"	3'-0"	7'-0"	HM	PT2				4.0	1	7'-2"	3'-4"	HM	PT2				1
JC2	JANITOR	A	1 3/4"	3'-0"	7'-0"	HM	PT2				6.0	1	7'-2"	3'-4"	HM	PT2				3
JC3	JANITOR	A	1 3/4"	3'-0"	7'-0"	HM	PT2				3.0	1	7'-2"	3'-4"	HM	PT2				1

### DOOR SCHEDULE REMARKS LEGEND

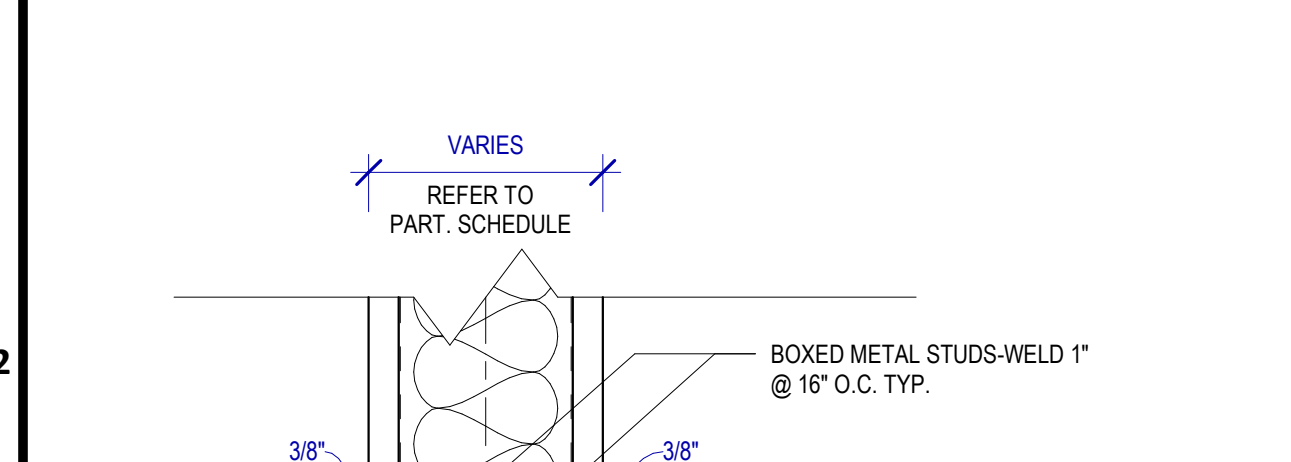
- EXISTING DOOR AND FRAME TO REMAIN, RE PAINT.
- EXISTING DOOR AND FRAME TO REMAIN, RE PAINT. REPLACE EXISTING GALV KICK PLATE WITH S.S. KICK PLATE.
- EXISTING DOOR AND FRAME TO REMAIN, RE PAINT TO MATCH EXISTING. ADD S.S. KICK PLATE. SIZE TO MATCH DOOR AT FAMILY RESTROOM 5A.
- DOOR POSITION SWITCH IN ALL CHASE DOORS



### MATERIAL & FINISH KEY

- DIVISION 3 - CONCRETE**  
MORTAR  
ME1 SIKAOJUCK® SMOOTH FINISH - LIGHTWEIGHT MORTAR FOR CONCRETE REPROFILING - COLOR: PRECAST GREY. SEAL WITH SIKAGUARD 740 W.
- DIVISION 5 - METALS**  
METAL PANELS  
MP1 STAINLESS STEEL WALL PANEL. 11/12 GAUGE MIN.
- DIVISION 8 - OPENINGS**  
MIRROR  
GL3 6MM SILVERED FLAT GLASS MIRROR. SECURE TO WALL WITH CONSTRUCTION ADHESIVE
- DIVISION 9 - FINISHES**  
SOLID SURFACE  
CS1 CORIAN - SOLID SURFACE - GLACIER WHITE  
CS2 CORIAN - SOLID SURFACE - CARBON CONCRETE
- CEILING**  
GORDON - R116-7645T23 23% OPENING AV-3000 GRID. NO REVEAL - 2' X 4', 14" SOLID BORDER - PDR30113 ACROGUARD BIANCO MILL FINISH  
REMARKS: 1/16" HOLES X 7/64" STRAIGHT CIRCLES W/ 1" X 1 1/2" DENSITY BLACK ACoustICAL PADS.
- TURN-KEY CEILING**  
MC1 PANEL SIZE: 3' 1 1/2" LINEAR PANELS  
MATERIAL: 0.040" THICK ALUMINUM WITH 1" UPTURNS  
PERF SPEC: R116-7645T23 (SEE PERF DETAIL MC-3 THIS SHEET)  
FINISH: EXPOSED SURFACES POWDER COATED ACROGUARD PDR-30803 (STERLING)  
INSULATION: 1" X 1 1/2" DENSITY BLACK PVC ACoustICAL PADS  
IN-FILL PANELS SHIPPED STOCK LENGTHS FOR FIELD CUTTING.
- MC3 TURN-KEY CEILING**  
PANEL SIZE: 6" LINEAR PANELS  
MATERIAL: 0.040" THICK ALUMINUM WITH 1" UPTURNS  
PERF SPEC: R116-5220G12 (SEE PERF DETAIL MC-3 THIS SHEET)  
FINISH: EXPOSED SURFACES POWDER COATED ACROGUARD PDR-30803 (STERLING)  
INSULATION: 1" X 1 1/2" DENSITY BLACK PVC ACoustICAL PADS  
IN-FILL PANELS SHIPPED STOCK LENGTHS FOR FIELD CUTTING.
- AC11 ARMSTRONG ULTIMA 2' X 2' acoustical CEILING TILE. SUPRAFINE XL SUSPENSION SYSTEM**
- WALL FINISH**  
WP01 TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK -K05.0.0 PURE WHITE  
REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL
- WP02 TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK - K21.1.0 WINTER GRAY**  
REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL
- WP03 TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK - K21.5.1 MID GRAY**  
REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL
- WP04 TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK - KNA18 NATURAL SLATE**  
REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL
- WP05 TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK - K32.2.1 TRANSLUCENT GREEN SATIN**  
REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL
- WP06 TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK - K24.4.1 STEEL BLUE**  
REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL
- DIVISION 13 - SPECIALTIES**  
TOILET PARTITIONS  
PZ1 CARVART - COLOR GLASS BOXES WITH PHENOLIC DIVIDER PANELS  
DOORS: 807 IVORY, OPAQUE, SMOOTH OUTSIDE, ETCHED INSIDE. LADDER PULL HARDWARE (SATIN ALUMINUM). FULL HARDWARE WITH OCCUPANCY DIVIDER PANELS. C-HPL PHENOLIC PANEL. COLOR: 871 DARK GRAY NON-GLOSSY FINISH  
REMARKS: INDICATOR, CONTINUOUS CONCEALER @ DOOR EDGES, OUT-SWINGING DOOR ON PIVOT HINGE W/ ROTATING FLOOR PEDESTAL.
- PZ2 CARVART - COLOR GLASS BOXES - IVORY, OPAQUE, NON-GLOSSY SATIN ALUMINUM - 36" H X 18" D**  
REMARKS: MEN'S RESTROOMS, URINAL PARTITION, CHROME MOUNTING BRACKET TO BE SAND-BLASTED TO COUNTER HIGH REFLECTIVITY
- PZ3 CARVART - COLOR GLASS BOXES - IVORY, OPAQUE, NON-GLOSSY SATIN ALUMINUM - FOR SIZE AND SHAPE REFER TO A-420**  
REMARKS: BABY CHANGING STATION DIVIDERS

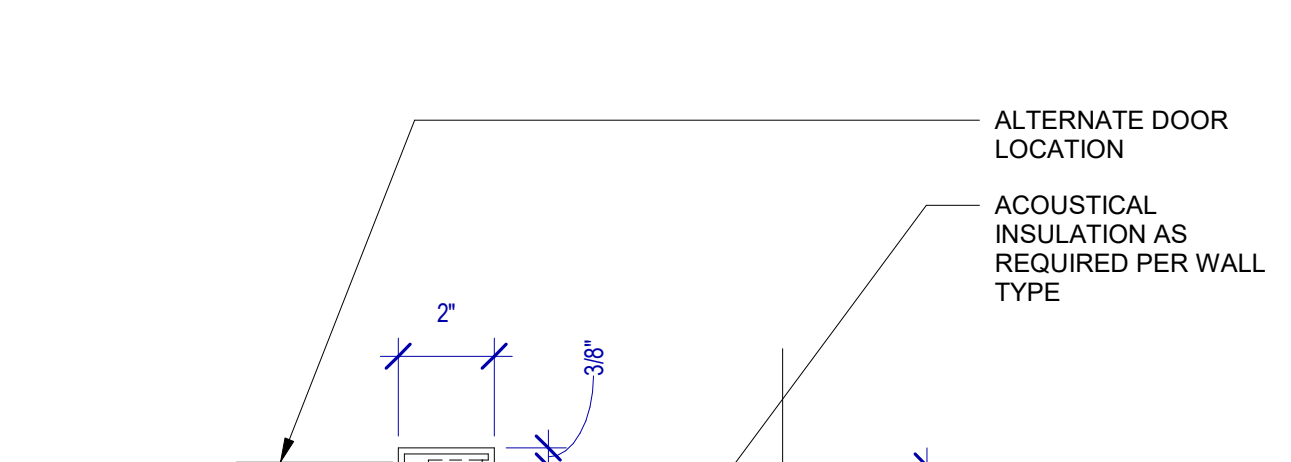
### A3 SECTION DETAIL @ FLOOR TRANSITION 1



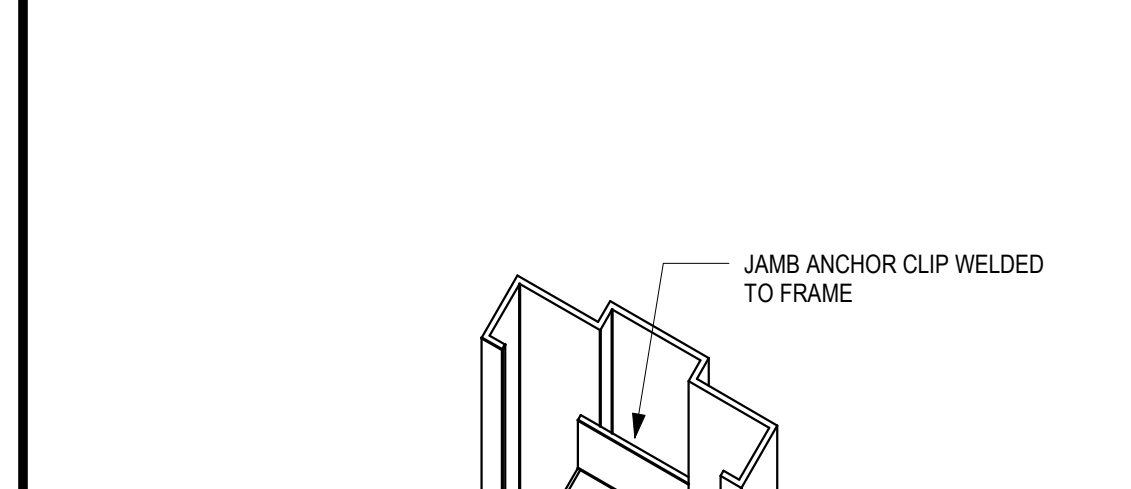
### B3 SECTION DETAIL @ FLOOR TRANSITION 2



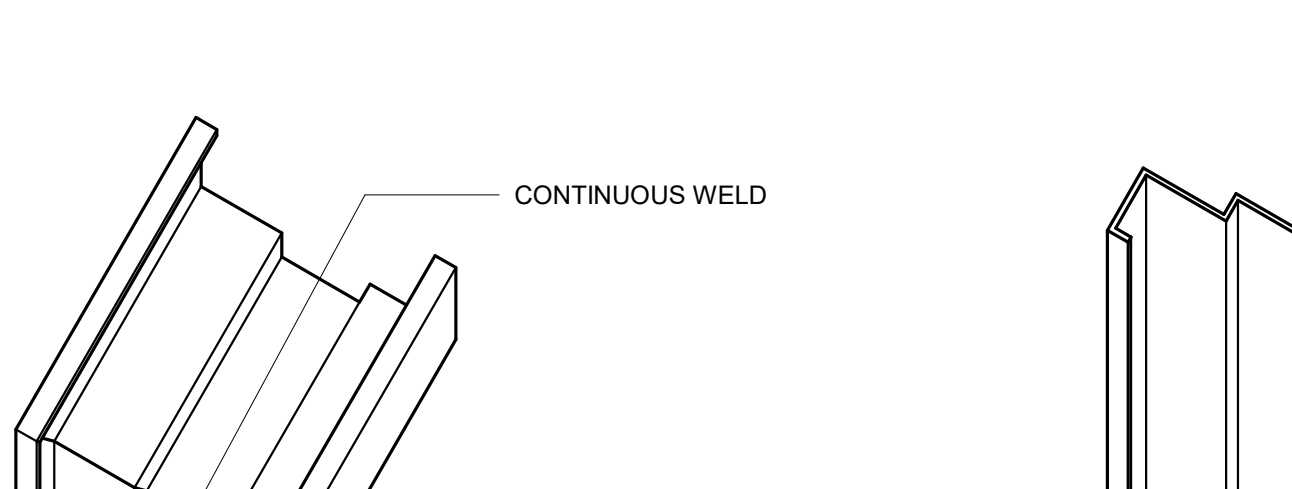
### D3 SECTION DETAIL @ FLOOR TRANSITION 3



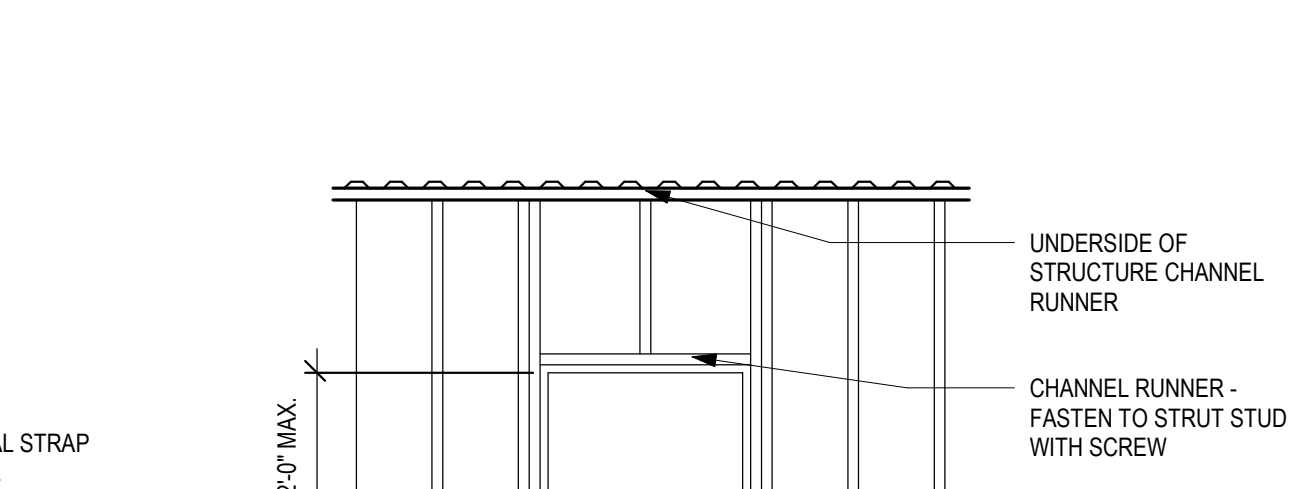
### A2 DOOR HEAD W/ ACOUS SEAL



### B2 DOOR JAMB AT GYP WALL



### D2 DOOR JAMB W/ ACOUS SEAL



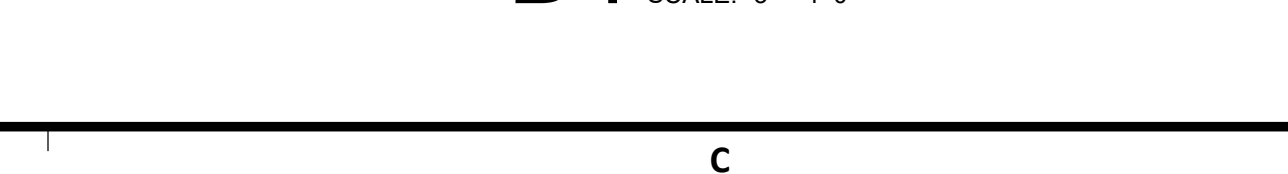
### A1 TYPICAL JAMB METAL STUD FRAMING



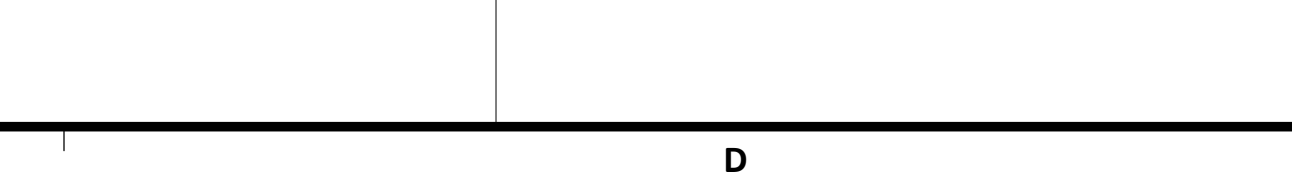
### B1 TYPICAL FRAME CORNER



### C1 TYPICAL FRAME ANCHOR



### D1 DRYWALL FRAME INSTALLATION



FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/1429\_15\_HOU\_Restroom\_Phase3.rvt

PLOT DATE: DOA DWG FILE: OLD DOA No.: PLOT DATE: HAS FILE:

**HOUSTON AIRPORTS**  
7800 Airport Blvd  
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HAS HOBBY AIRPORT RESTROOMS PHASE 3  
C.I.P. No. PN209B A.I.P. No.  
C.O.H. No. D.O.A. No.

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2603 Augusta, Suite 800 Houston, Texas 77057  
713.430.5800 713.430.5888 fax  
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DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
2	30% CD	10.28.22	HB
3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

DESIGN BY: FF  
DRAWN BY: CT  
CHECKED BY: HB  
ISSUE DATE: 01/25/2023  
APPROVED BY: Hector Berrios  
APPROVAL DATE: 01/25/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

IFC ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT  
STATE OF TEXAS  
01/25/2023

SHEET NAME: ROOM FINISH, MATERIAL LEGEND & DOOR SCHEDULE  
SHEET No. A-600 SCALE: As indicated

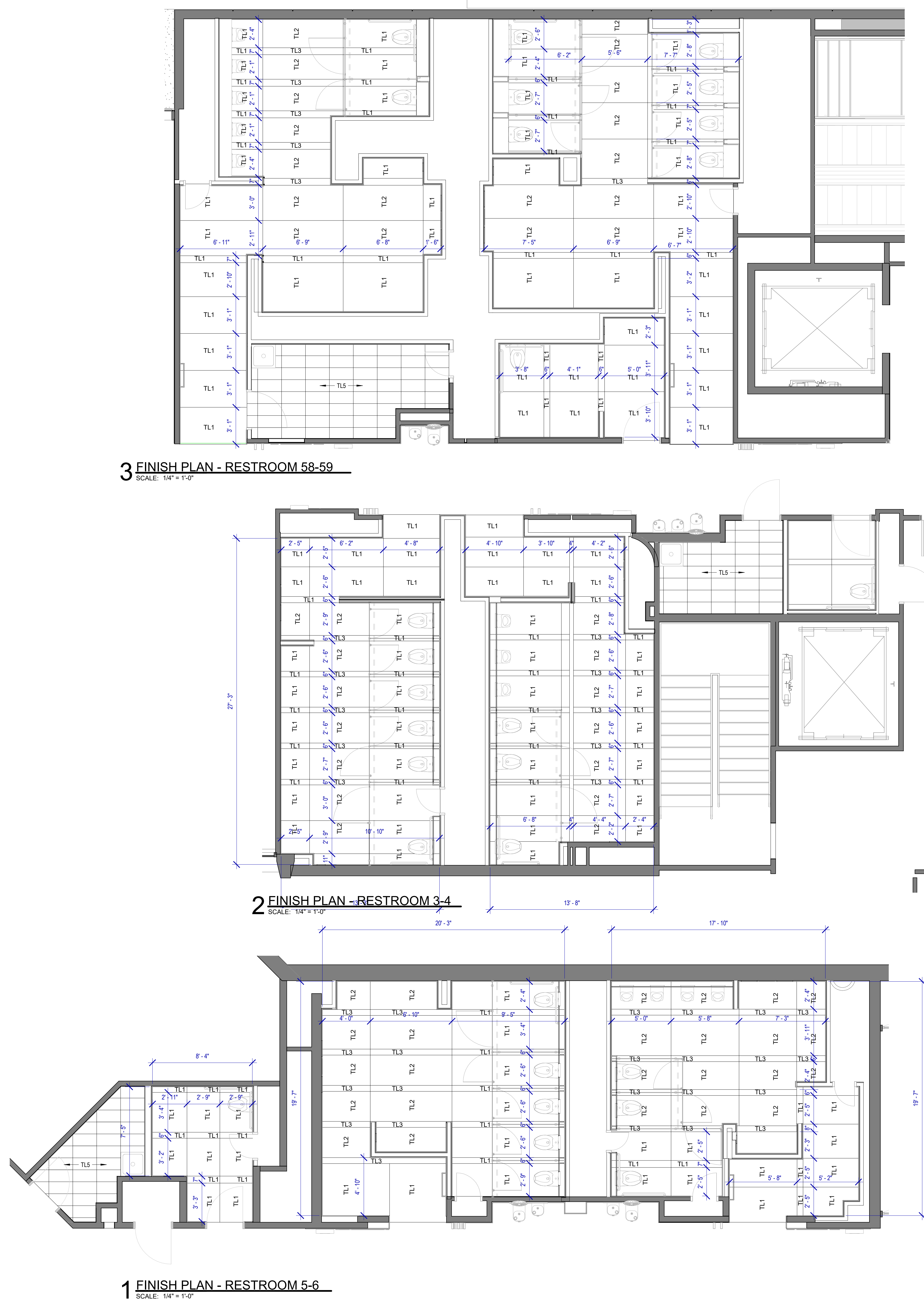
SHEET SIZE: 30"x42" ARCH E1

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No.:

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/1429.15\_HOU\_Restroom\_Phase3.rvt

HAS FILE:

PLOT DATE:




### FINISHES GENERAL NOTES

- ALL WALL/CEILING MATERIALS SHALL MEET FLAME SPREAD CLASS REQUIRED PER IBC TABLE 803.9
  - REFER TO SHEET G-002 & G-003 FOR GENERAL NOTES, KEYS AND SYMBOLS.
  - INTERIOR FLOOR FINISHES ARE REFERENCES FROM THE MATERIAL & FINISH KEY OR FROM THE FLOOR PLANS
  - REFER TO INTERIOR ELEVATION SHEETS FOR ADDITIONAL FINISH INFORMATION.
  - REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES AND SPECIFICATIONS.
  - ALL WALLS TO RECEIVE BASE 'TB1' U.N.O
  - REFER TO FINISH FLOOR PLANS FOR TRANSITIONS.
  - ALL GYPSUM BOARD CEILINGS TO MATCH ADJACENT EXISTING PAINT FINISH PER HAS STANDARDS
  - PROVIDE 10% ATTIC STOCK ON ALL FINISHES
  - ALL FINISHES TO BE VERIFIED W/ OWNER PRIOR TO PROCUREMENT
  - PATCH AND REPAIR FINISHES AS REQUIRED DUE TO DEMOLITION WORK AND INSTALLATION OF SIGNAGE & FIXTURES
  - WHERE MULTIPLE MATERIALS, FINISHES &/OR VARIATIONS IN ELEVATION ARE SPECIFIED FOR A SINGLE SURFACE, REFERENCE INFORMATION IS LOCATED ON THE PLANS AND ELEVATIONS.
  - WHERE GYPSUM BOARD LAYERS DIFFER BETWEEN BETWEEN TWO ADJOINING WALLS, MAINTAIN A CONTINUOUS FINISH FACE OF WALL.
- PAINT**
- ALL GWB CEILINGS TO RECEIVE PT01 PAINT
  - ALL JANITOR CLOSET WALLS TO RECEIVE (1) COAT PRIMER AND (2) COATS PAINT PT03 ABOVE TILE WAINSCOTT, EGGSHELL FINISH U.N.O.
  - ALL PAINT TO BE APPLIED IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS FOR THE PARTICULAR SURFACE.
  - ALL NEW & EXISTING DOORS TO RECEIVE PT02 PAINT.
- FLOORING**
- LARGE FORMAT TILE TO BE INSTALLED OVER A FRACTURE MEMBRANE PER SPECIFICATIONS.
  - ALL SLABS ON GRADE TO RECEIVE WATER PROOFING AND ARDEX FOR SMOOTH FINISH IF INSTALLING IMPERMEABLE MATERIAL AS SCHEDULED.
  - ALL CHANGES IN FLOOR MATERIAL BETWEEN ROOMS SHALL OCCUR AT THE CENTERLINE OF THE DOOR U.N.O.
  - GROUT COLOR TO MATCH ADJACENT STONE / TILES. ALL STONE / TILE SURFACES TO BE FLUSH. NO ABRUPT LIPS OR EDGES. SUBMIT SAMPLES TO BE APPROVED BY ARCHITECT.
  - PROVIDE SOFT JOINT AT ALL TILE INSIDE CORNER CONDITIONS AND 90 DEGREE CORNERS AT FLOOR TILE CORNER. COLOR TO MATCH SCHEDULED GROUT.
  - TILE BASE GROUT LINES TO ALIGN W/ WALL PANEL JOINTS.
  - ALL WET AREAS TO RECEIVE EPOXY GROUT.

**3 FINISH PLAN - RESTROOM 58-59**  
SCALE: 1/4" = 1'-0"

**2 FINISH PLAN - RESTROOM 3-4**  
SCALE: 1/4" = 1'-0"

**1 FINISH PLAN - RESTROOM 5-6**  
SCALE: 1/4" = 1'-0"



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713.430.5800 713.430.5888 fax  
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DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS


**REVISIONS**

NO.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
2	30% CD	10.28.22	HB
3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

DESIGN BY: FF  
DRAWN BY: CT  
CHECKED BY: HB  
ISSUE DATE: 01/25/2023  
APPROVED BY: Hector Berrios  
APPROVAL DATE: 01/25/2023

**DIRECTOR**  
of  
**HOUSTON AIRPORT SYSTEM**

Review/Approval Category  
**IFC**  
ISSUED FOR CONSTRUCTION



SHEET NAME: ENLARGED FINISH PLAN  
SHEET No. A-601 SCALE: As indicated  
SHEET SIZE: 30"x42" ARCH E1

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	HB
2	30% CD	10.28.22	HB
3	95% CD	12.09.22	HB
4	IFC	01.25.23	HB

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ISSUE DATE: 01/25/2023  
APPROVED BY: Hector Berrios  
APPROVAL DATE: 01/25/2023

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of  
HOUSTON AIRPORT SYSTEM

Review/Approval Category

**IFC**

ISSUED FOR CONSTRUCTION

SHEET NAME: ROOM SIGNAGE

SHEET No. A-604 SCALE:

SHEET SIZE: 30"x42" ARCH E1

**GENERAL NOTES**

- All final design, engineering and amount/sizing of structural sign support elements, material types/thicknesses, dimensions and attachment methods shall be performed and approved by a licensed engineer to meet or exceed all applicable local and national codes.
- Final engineering, dimensions, materials and fabrication are the responsibility of the Contractor/Fabricator/Installer to ensure the highest quality fit and finish for all components of the completed product. All final detailing and specifications to be provided by the Contractor/Fabricator/Installer within their final approved fabrication-ready shop drawings.
- Wherever dissimilar metals are in contact, always separate contact surfaces prior to assembly or installation with the necessary protective coatings/gaskets/washers to prevent galvanic corrosion.
- Final fabrication methods, quality and fit/finish to be reviewed and approved by HAS and the Wayfinding Design Consultants through prototype reviews prior to final production run/installation processes.
- Colors shown are for reference only, and are subject to the limitations of the printing process and/or variance of electronic RGB screen displays. Refer to color system swatches and/or final finish samples for accurate reference.
- Messages shown here are typical placeholders only. See message schedules for specific messaging by location and sign type.

**DESIGN INTENT NOTES**

- F1** SIGN PANEL: 1/4" thick thermoformed acrylic panel, edges sanded smooth & eased, paint 2nd surface to match MAP paint P5, satin finish; screen paint watermark graphic 2nd surface to match P1.2 & P7, satin finish; 1st surface 1/32" raised tactile letters/graphics painted to match MAP paint P4, satin finish; 1st surface tactile Braille, no color applied (NOTE: Braille must meet all of the most recent TAS/ADA tactile/spacing/sizing/formatting requirements)
- F4** MOUNTING: mounting height and location/proximity to doors, strike plates & finished entry openings per most recent TAS/ADA requirements; mount plumb & level with adhesive/high-bond strength sign grade VHB tape (or approved equal) as install cond. req. (field verify)

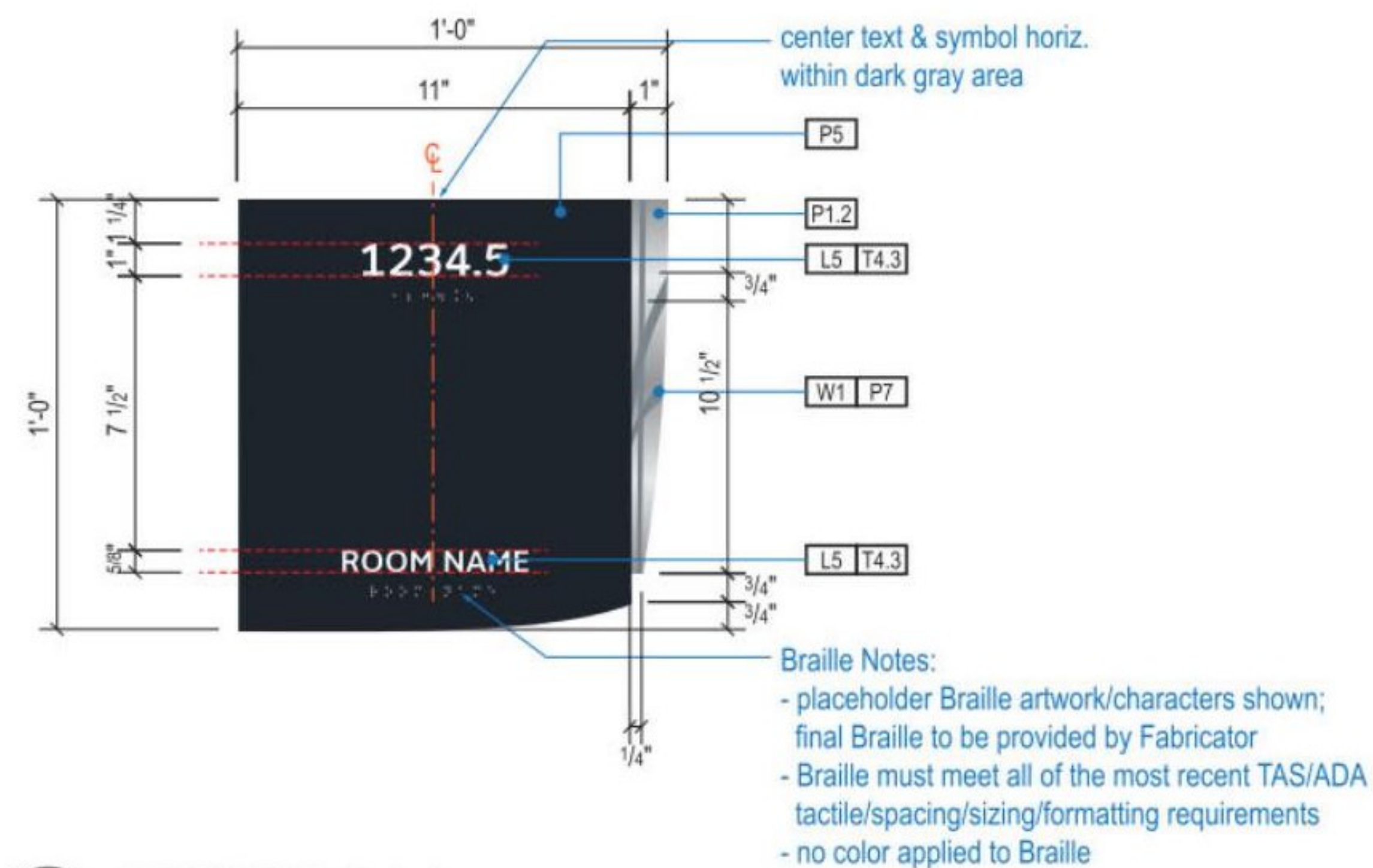
**LETTERING (TYPEFACES) / SYMBOLS / ARROWS:**

- L5** Pedestrian Wayfinding Typeface: ClearviewText Medium
- L6** Supplemental Typeface: Clearview One Book Condensed
- S1** Arrow(s): use only official HAS wayfinding arrows
- S2** Universal Symbols: use only official HAS wayfinding symbols
- W1** Watermark Graphic: use only official HAS "globe" vector art

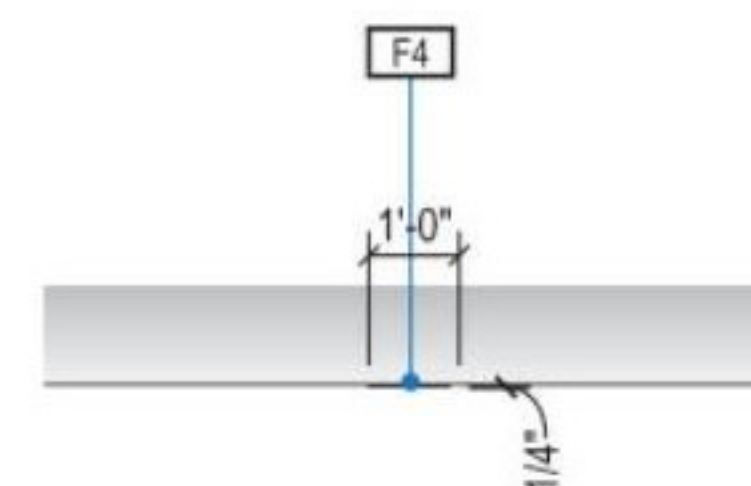
**COLORS:**

- NOTES: "D" = digitally printed colors on 3M 7725-20 White unless otherwise noted; "P" = Matthews Acrylic Polyurethane (MAP) paint (or equal), satin finish; "V" = 3M vinyl films (or equal); "T" = tactile
- V4.1** White: 3M 7725-20 White Opaque
  - D5** Dark Gray: match PMS 433C
  - D6** Med. Dark Gray: match PMS 432C
  - D13** Green (Ecopark): match PMS 349C
  - D17** Blue (Garage): match PMS 300C
  - D19** Red (Garage): match PMS 187C
  - P1.2** Silver: MAP paint MP33172 Silver Surfer Metallic
  - P4** White: MAP paint MP N202 White
  - P5** Dark Gray: MAP paint matched to PMS 433C
  - P7** Neutral Watermark: MAP paint matched to PMS 430C
  - T4.3** Tactile White: White to match V4.1

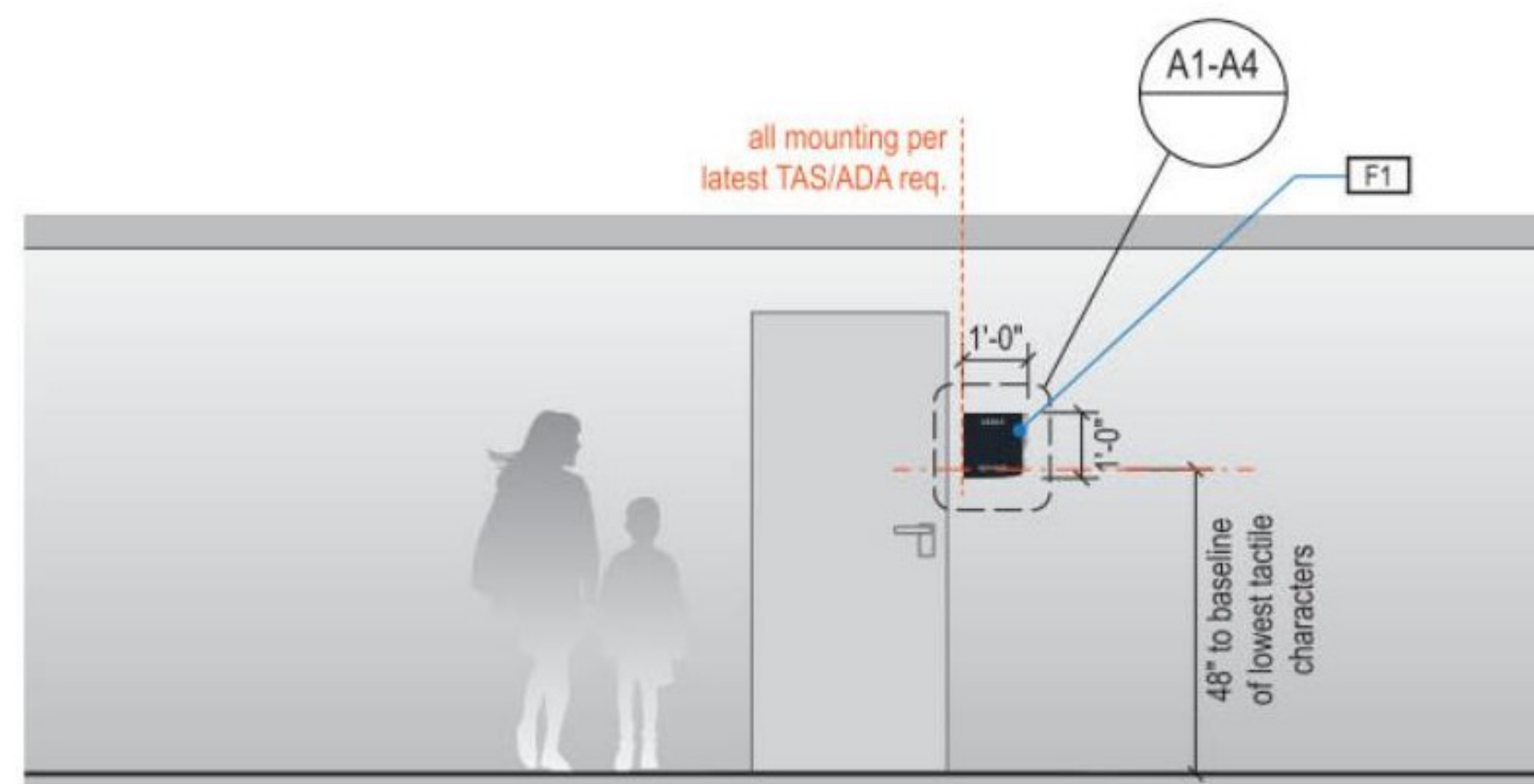
NOTE:  
PROVIDE 11 ROOM SIGNS, REFER DOOR SCHEDULE FOR LOCATION.



**A1** FACE LAYOUT: Typical



**1** PLAN VIEW



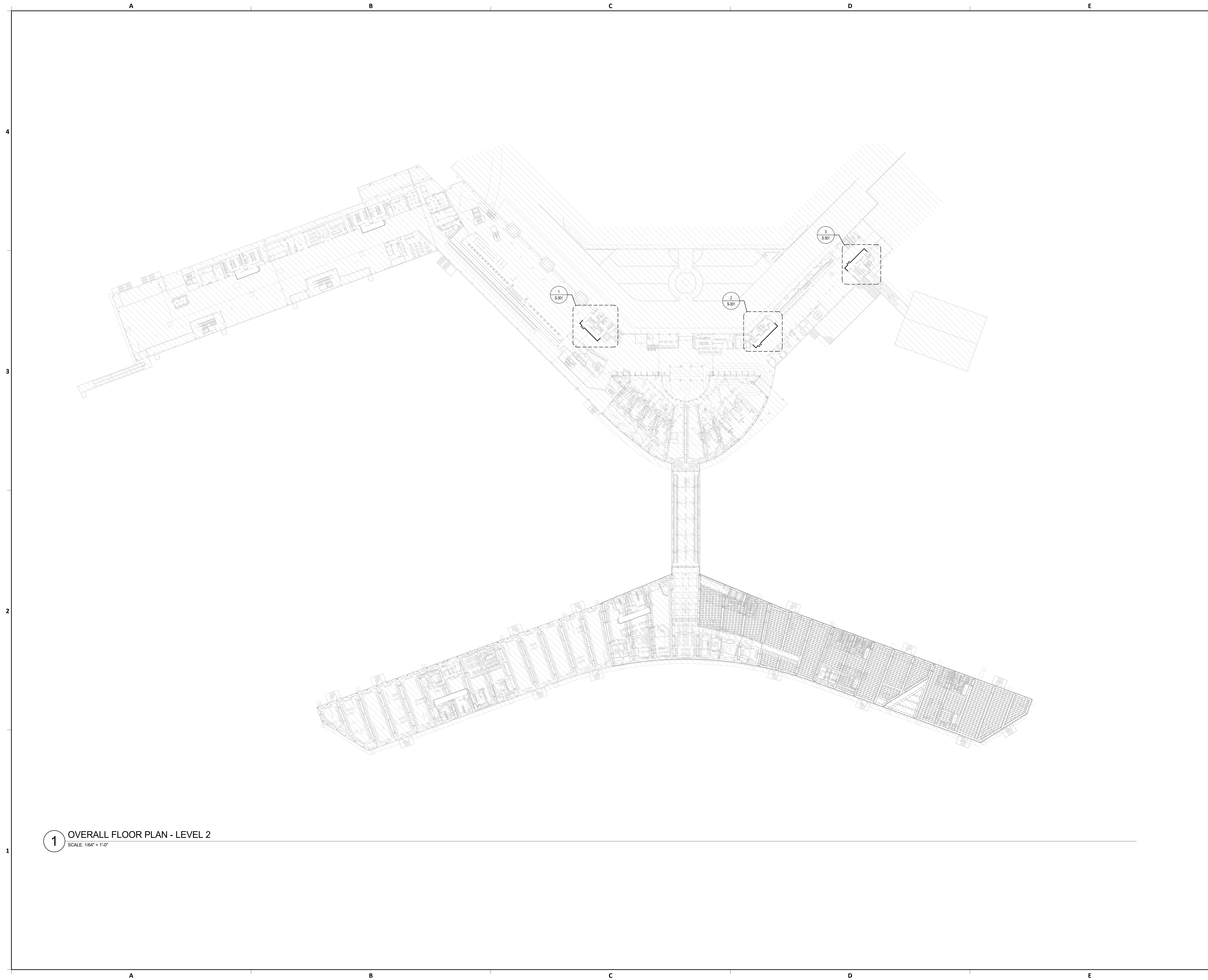
**2** ELEVATION

FILE PATH: BIM 360://1429 Hobby Restroom Renovation Phase III/1429.15\_HOU\_Restroom\_Phase3.rvt  
 HAS FILE:  
 PLOT DATE:  
 OLD DOA No.:  
 DOA DWG FILE:  
 PLOT DATE:

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No.:

FILE PATH: BIM 360/1429 06 Hobby Airport Restroom Renovations/200760\_Hobby\_Airport\_Restroom\_Reno\_Central.rvt  
HAS FILE:

PLOT DATE:



**1** OVERALL FLOOR PLAN - LEVEL 2  
SCALE: 1/64" = 1'-0"



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**HAS HOBBY AIRPORT RESTROOMS  
PHASE 3**

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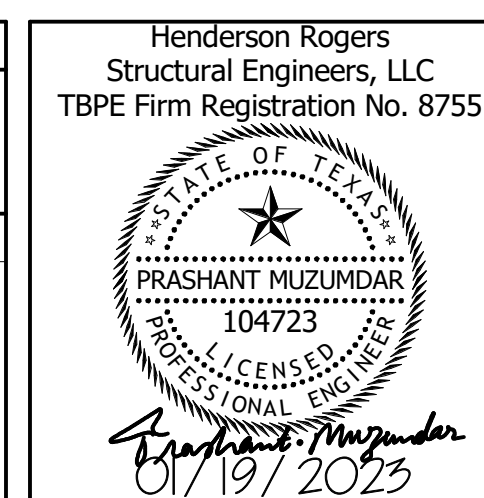
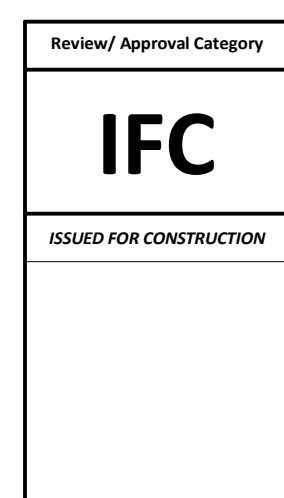
DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	95% CD	12/09/2022	H+R
2	IFC	01/25/2023	H+R

DESIGN BY: P. MUZUMDAR  
DRAWN BY: H. TORRES  
CHECKED BY: P. MUZUMDAR  
ISSUE DATE: 01/25/2023  
APPROVED BY: P. MUZUMDAR  
APPROVAL DATE: 01/25/2023

DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM



SHEET NAME: OVERALL FLOOR PLAN - LEVEL 2  
SHEET No. S-300 SCALE: 1/64" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

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PHASE 3**

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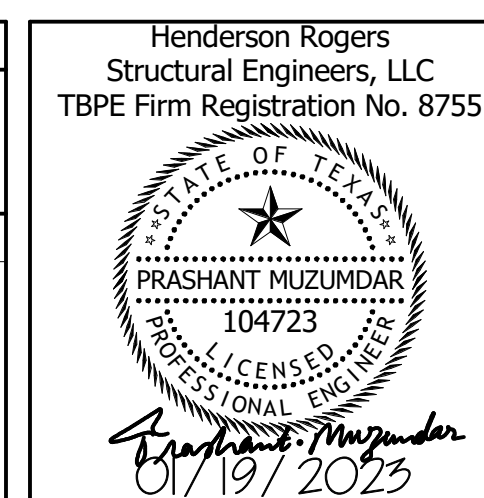
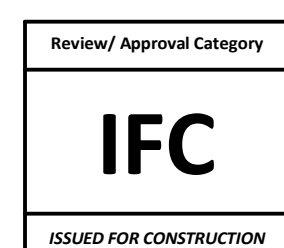
DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	95% CD	12/09/2022	H+R
2	IFC	01/25/2023	H+R

DESIGN BY: P. MUZUMDAR  
DRAWN BY: H. TORRES  
CHECKED BY: P. MUZUMDAR  
ISSUE DATE: 01/25/2023  
APPROVED BY: P. MUZUMDAR  
APPROVAL DATE: 01/25/2023

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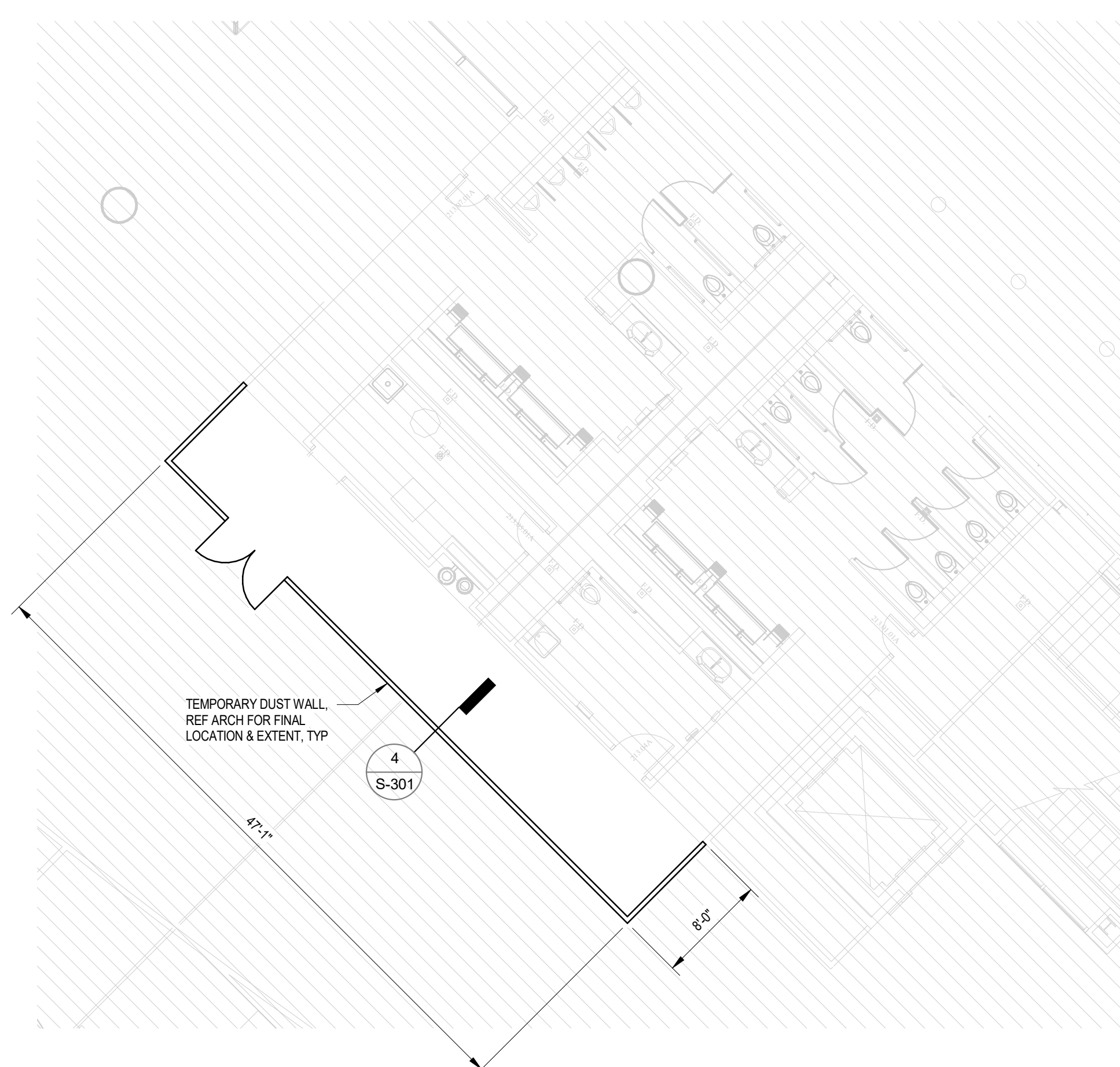
SHEET NAME: PARTIAL FLOOR FRAMING PLAN - RESTROOMS  
SHEET No. S-301 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

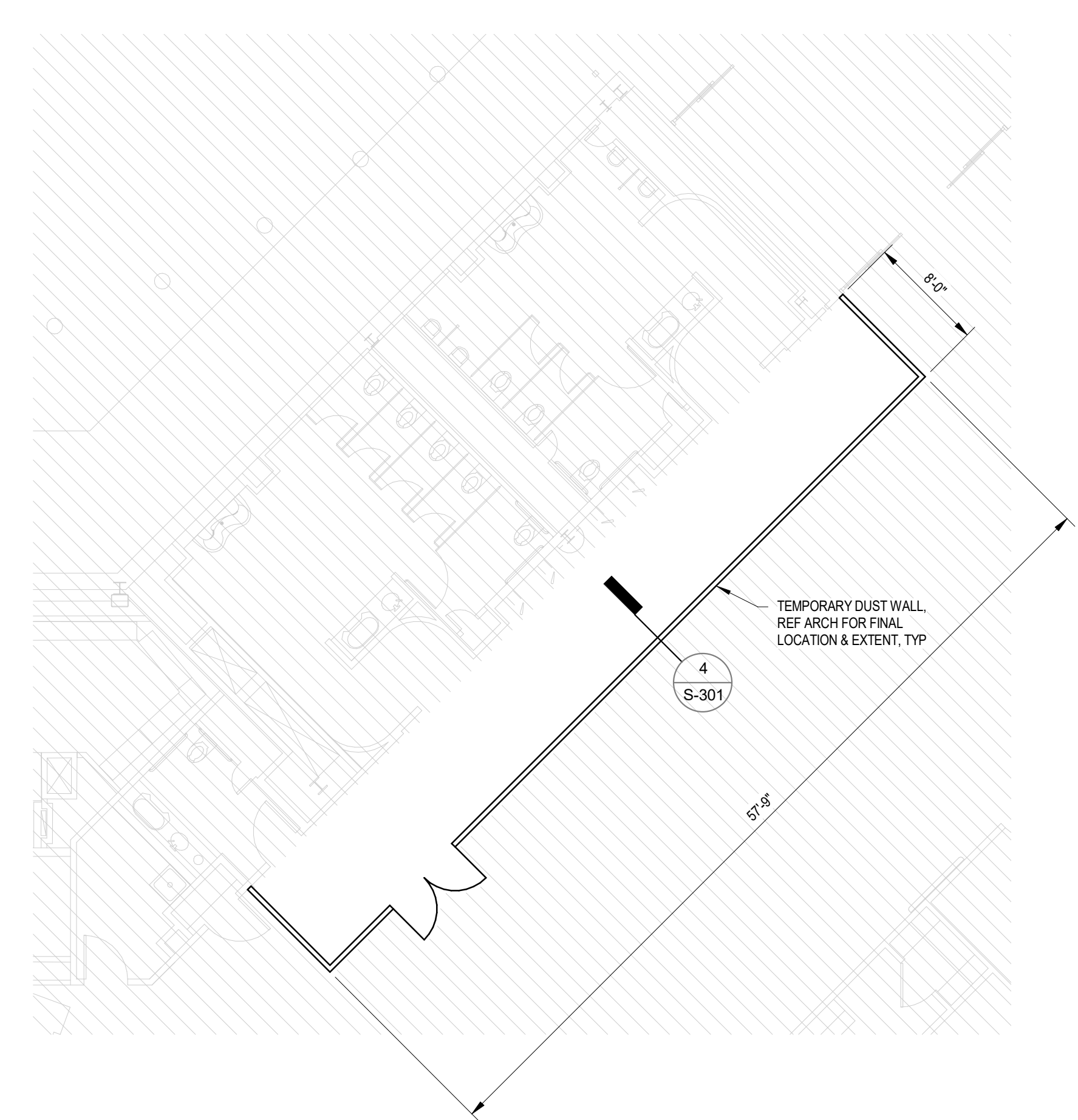
**COLD-FORMED STEEL NOTES:**

A. COLD-FORMED STEEL STRUCTURAL MEMBERS

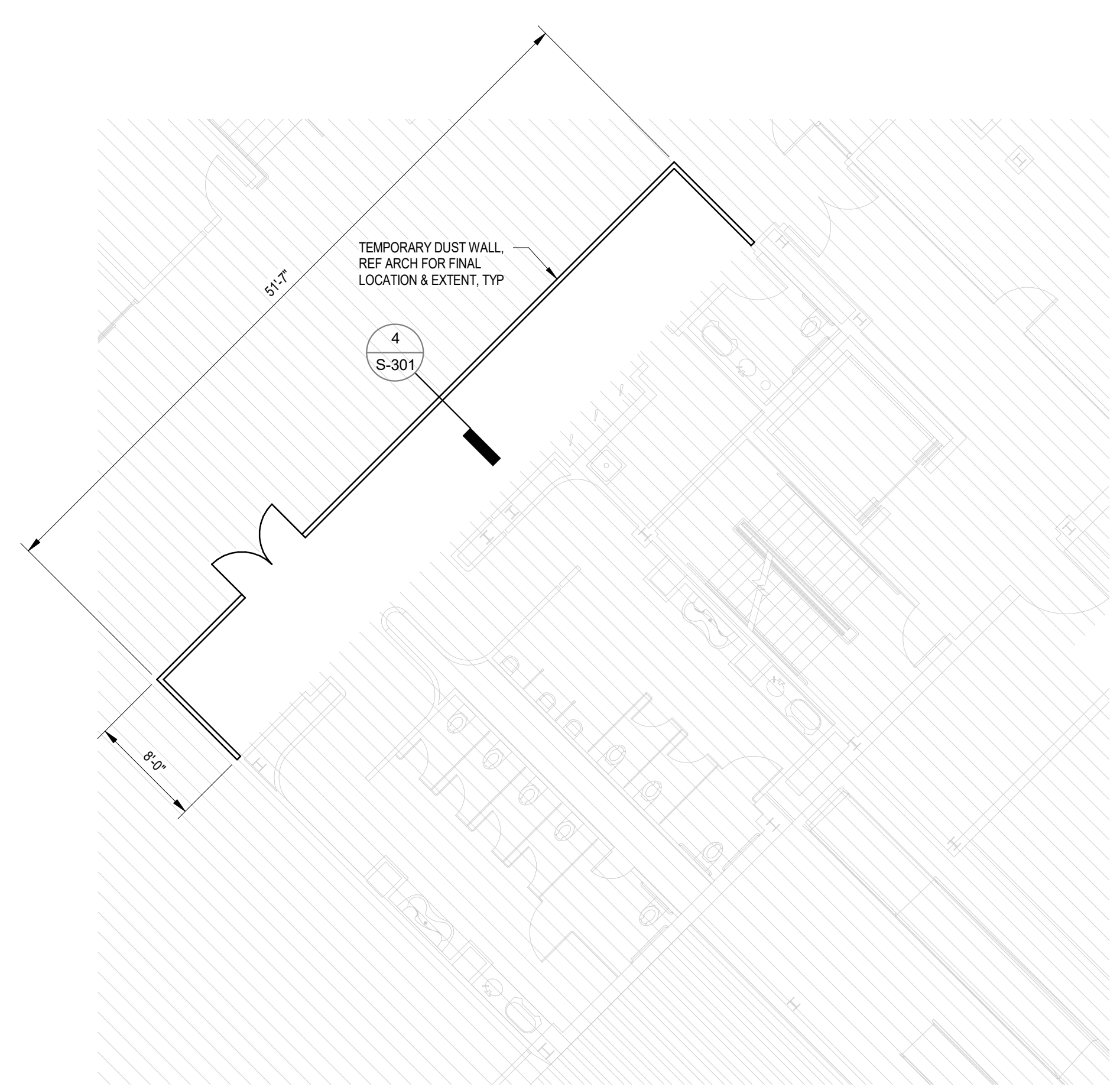
- MEMBERS SHALL BE THE SIZE AND GAUGE SHOWN ON THE DRAWINGS. ALL STUDS, AND TRACK SHALL CONFORM TO THE METAL STUD MANUFACTURER'S ASSOCIATION SPECIFICATIONS, ICBO NO. 4943. MEMBERS SHALL BE FORMED FROM STEEL HAVING A MINIMUM 33,000 PSI YIELD POINT FOR 25 GAUGE THROUGH 18 GAUGE AND A MINIMUM 50,000 PSI YIELD POINT FOR 16 GAUGE THROUGH 12 GAUGE.
- WELDED OR SCREWED SPLICES SHALL BE USED FOR ALL CONTINUOUS TRACKS. WIRE TYING OF STUD FRAMING COMPONENTS SHALL NOT BE PERMITTED.
- STEEL STRUCTURAL STUD TRACK OF THE SAME GAUGE AS THE STUDS SHALL BE USED AT THE TOP AND BOTTOM OF ALL STUD WALLS UNLESS NOTED OTHERWISE. STUDS SHALL SIT FLAT AGAINST THE WEB OF THE STUD TRACK AND BE ATTACHED WITH 1-#8 x 1/2" SCREW EACH SIDE OF EACH STUD, UNLESS NOTED OTHERWISE.
- SCREWS SHALL BE SELF-DRILLING AND TYPE S-12, ASTM C-954, EXCEPT THAT TYPE S, ASTM C-1002, MAY BE USED FOR 20 GAUGE OR 22 GAUGE MATERIAL ONLY. SCREWS SHALL BE 3/8" TO 1/2" LONGER THAN TOTAL MATERIAL THICKNESS.



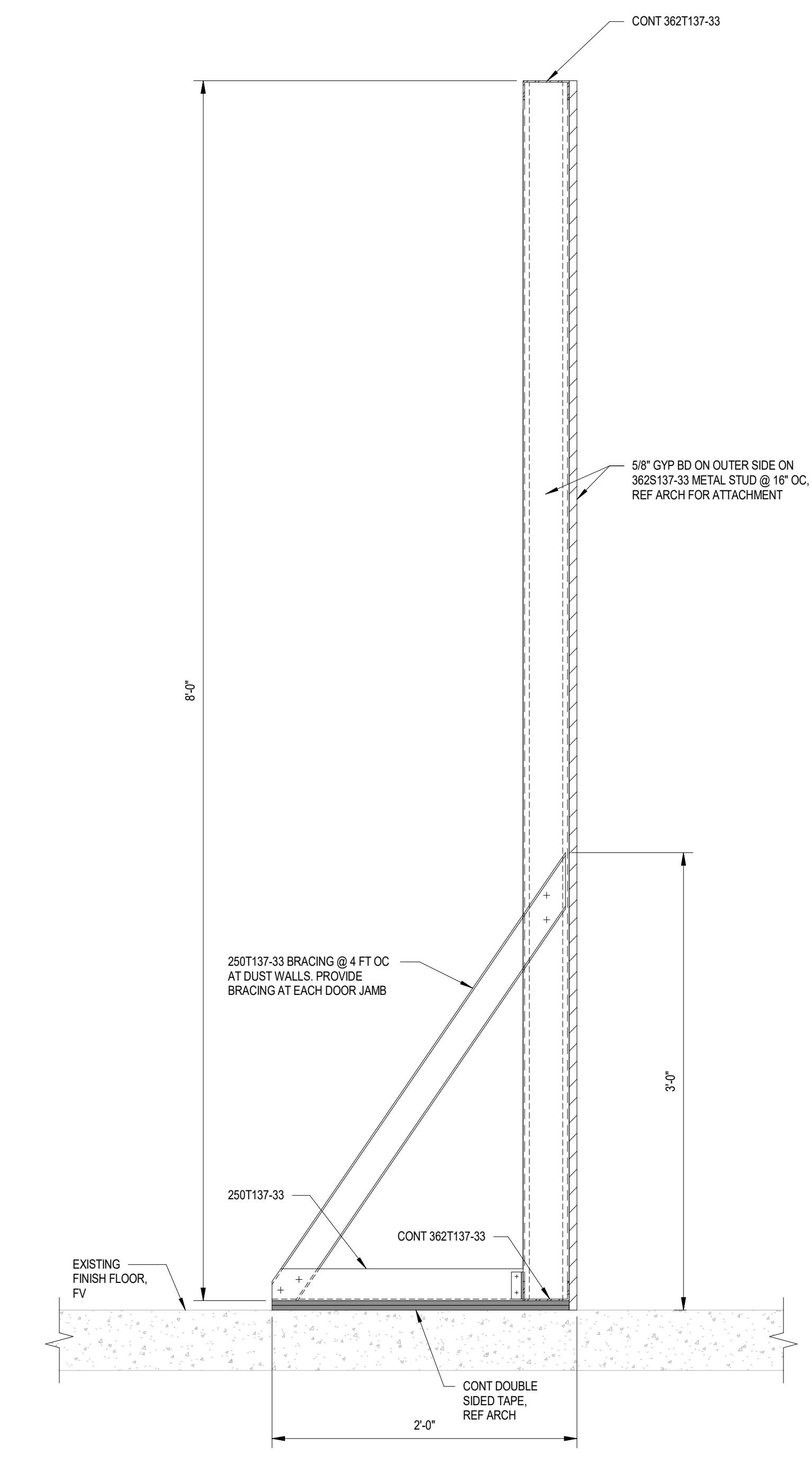
**1** PARTIAL FLOOR FRAMING PLAN - GATE 58-59 RESTROOMS - PHASE 3



**2** PARTIAL FLOOR FRAMING PLAN - GATE 5-6 RESTROOMS - PHASE 3  
SCALE: 1/8" = 1'-0"



**3** PARTIAL FLOOR FRAMING PLAN - GATE 3-4 RESTROOMS - PHASE 3  
SCALE: 1/8" = 1'-0"



**4** SECTION AT TEMPORARY DUST WALL  
SCALE: 1 1/2" = 1'-0"

PLOT DATE: DOA DWG FILE: PLOT DATE: FILE PATH: BIM 360://1429.06 Hobby Airport Restroom Renovations/200760\_Hobby\_Airport\_Restroom\_Reno\_Central.rvt HAS FILE:



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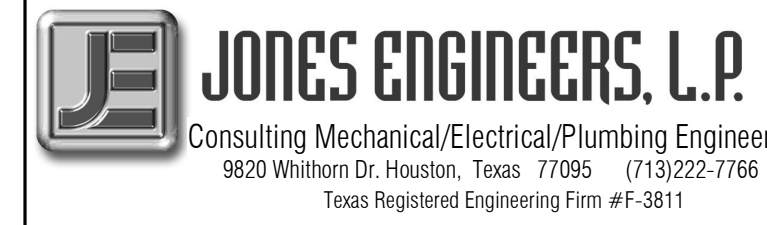
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PROJECT STATUS: CONSTRUCTION DOCUMENTS

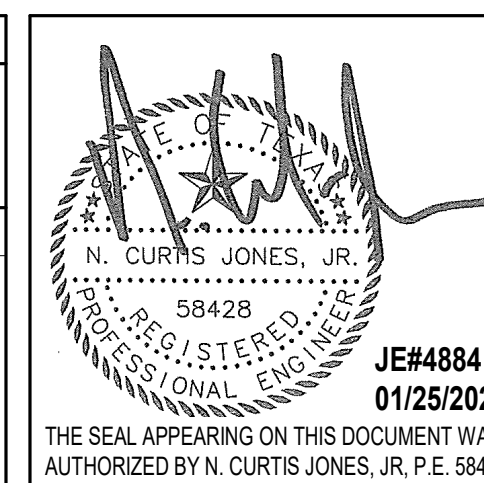
#### REVISIONS

No.	DESCRIPTION	DATE	BY
1	30% CD	10.28.22	JE
2	95% CD	12.09.22	JE
3	IFC	01.25.2023	JE

DESIGN BY: JE  
DRAWN BY: JE  
CHECKED BY: JE  
ISSUE DATE: 01/25/2023  
APPROVED BY: CURT JONES  
APPROVAL DATE: 01/25/2023

DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM

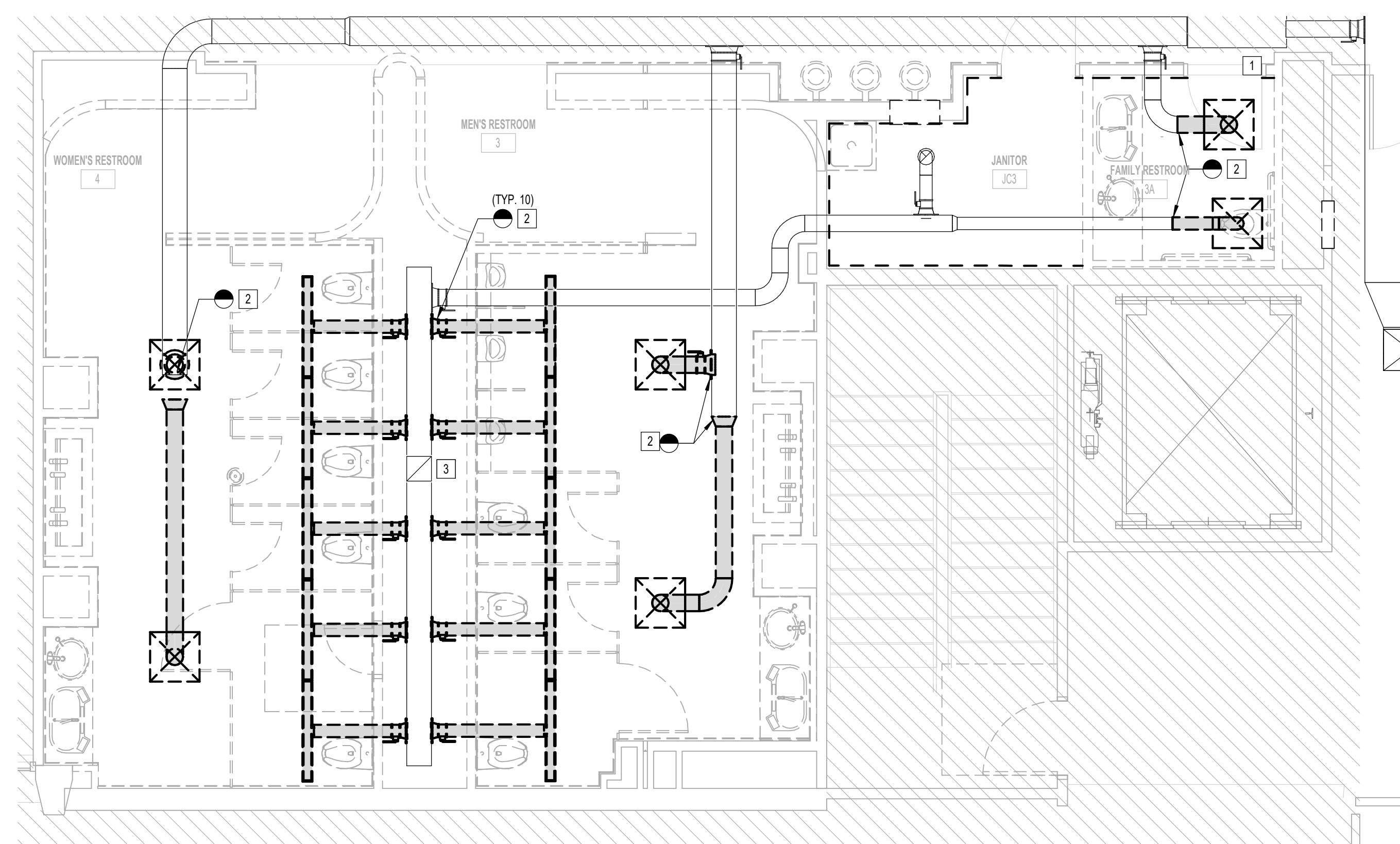
Review/Approval Category  
**IFC**  
ISSUED FOR REVIEW



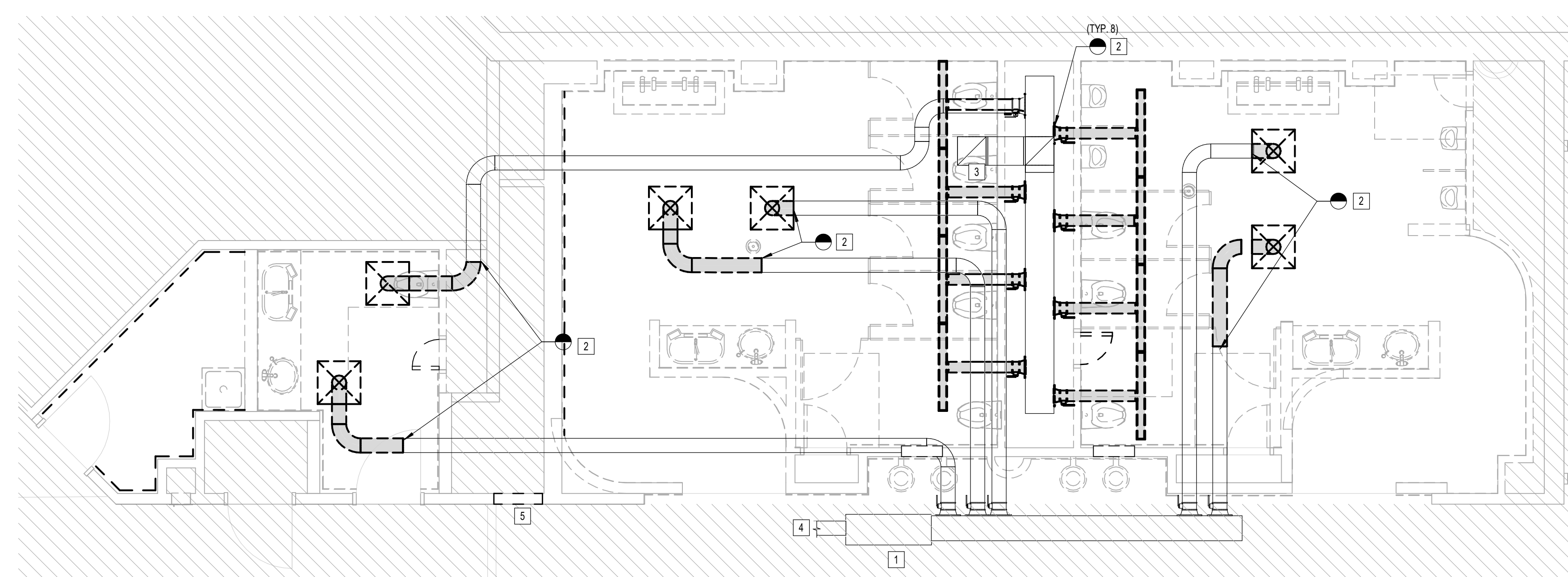
SHEET NAME: MECHANICAL DEMO ENLARGED PLANS

SHEET No. MD-101 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

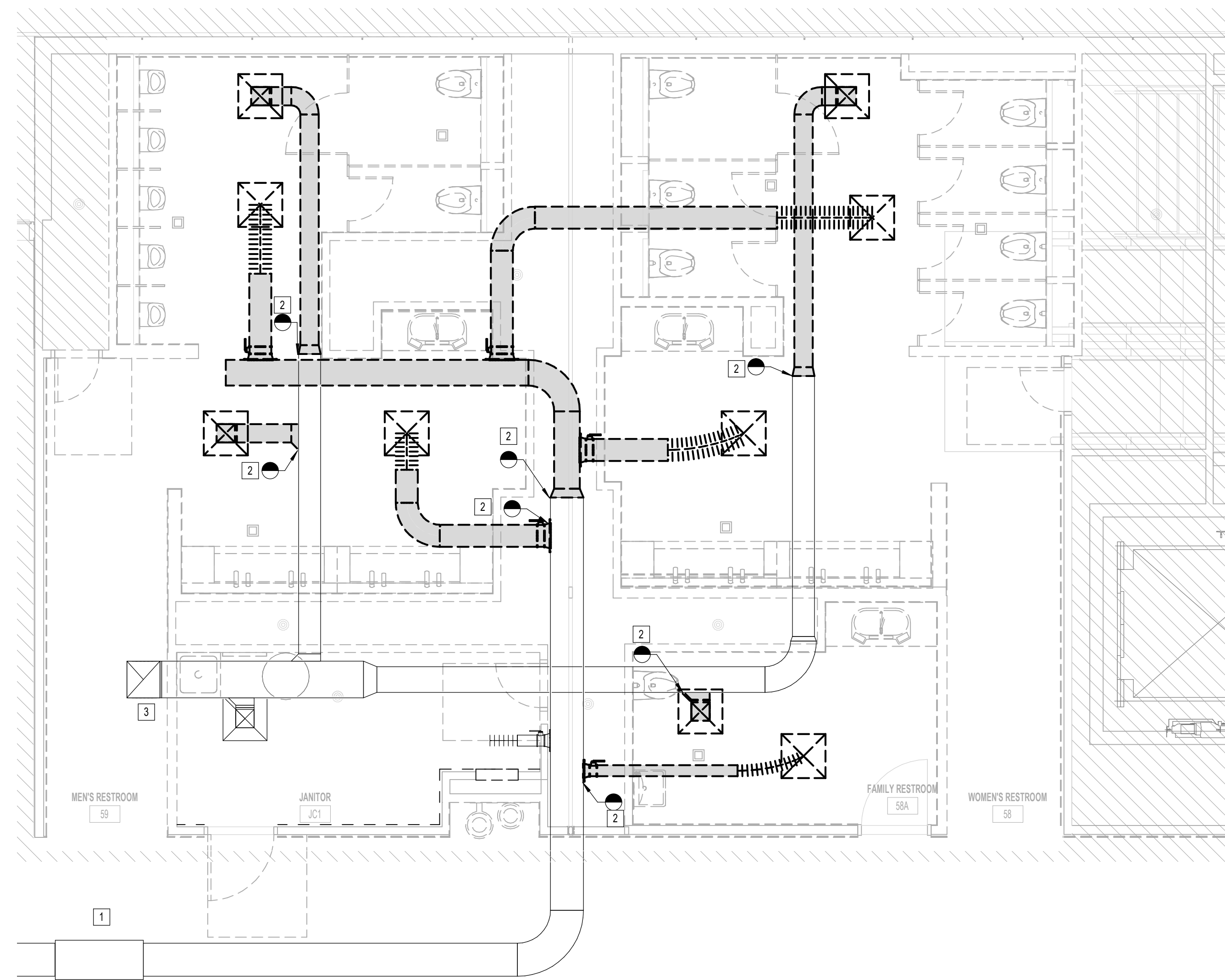


2 MECHANICAL DEMO PLAN - RESTROOM GATE 3-4  
1/4" = 1'-0"



1 MECHANICAL DEMO PLAN - RESTROOM GATE 5-6  
1/4" = 1'-0"

KEYED NOTES	
#	KEY NOTE
1	EXISTING AIR TERMINAL UNIT TO REMAIN.
2	POINT OF DEMOLITION. DEMOLISH ALL DOWNSTREAM DUCTWORK AND AIR DEVICES AND REMOVE.
3	DEMOLISH EXISTING EXHAUST FAN ON ROOF AND REMOVE. COORDINATE WITH ELECTRICAL CONTRACTOR.
4	EXISTING UPSTREAM DUCTWORK TO REMAIN.
5	DEMOLISH EXISTING RETURN AIR INTAKE GRILLE.



3 MECHANICAL DEMO PLAN - RESTROOM GATE 58-59  
1/4" = 1'-0"

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/4884\_MEP\_HobbyRestroomRenovationPH3\_R21.rvt

HAS FILE:

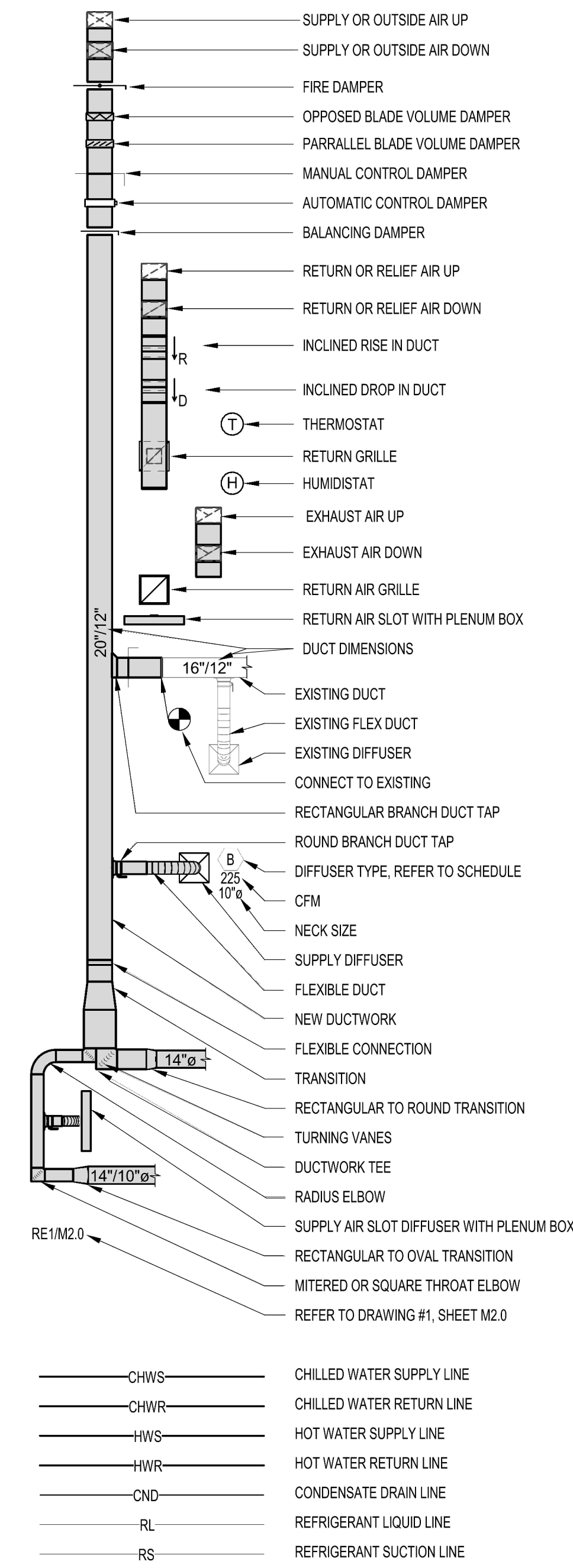
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### MECHANICAL GENERAL NOTES

1. PIPING AND DUCTWORK ON DRAWINGS ARE SCHEMATIC ONLY. COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING. OFFSET AND RUN PIPING/DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ALL NECESSARY PIPING, DUCTWORK, FITTINGS, INSULATION, AND OTHER ACCESSORIES.
2. EXACT LOCATIONS OF TERMINAL BOXES, GRILLES, DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCE AND EASY ACCESS.
3. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
4. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL OUTSIDE AIR INTAKES TO MAINTAIN 10 FEET DISTANCE BETWEEN OUTSIDE AIR INTAKES AND ANY EXHAUST AIR OUTLET, FLUES OR PLUMBING VENTS.
6. PROVIDE A CONICAL SPIN-IN SHEETMETAL INLET DUCT TO TERMINAL BOX SHALL BE SAME SIZE AS TERMINAL BOX INLET SIZE. PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN DUCT AND THE TERMINAL BOX INLET IS MORE THAN 6'-0".
7. CONTRACTOR SHALL PROVIDE ADEQUATE CLEARANCE AROUND VAV BOXES AS REQUIRED BY MANUFACTURER. COORDINATE EXACT LOCATION WITH OTHER TRADES.
8. ROUTE HYDRONIC PIPING FROM MAINS TO VAV BOXES. REFER TO SCHEDULES FOR PIPE SIZING. WITH AN ISOLATION VALVE ON THE SUPPLY AND RETURN LINES AND A VENT AT THE HIGH POINT. OFFSET PIPING AND RUN INSIDE STRUCTURE AS NEEDED TO PROVIDE PROPER CLEARANCES. TYPICAL.
9. ALL SUPPLY AIR DUCT UPSTREAM OF TERMINAL BOXES (PER DIRECTION OF AIRFLOW) SHALL BE SIZED AND CLASSIFIED TO BE MEDIUM PRESSURE DUCTWORK. THIS DUCT SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR MEDIUM PRESSURE DUCTWORK.
10. INSTALL TERMINAL BOXES TO ENSURE ACCESS PANELS ARE NOT BLOCKED. MAINTAIN MINIMUM 4'-0" FOR CONTROL PANEL ACCESS.
11. NO PIPE HANGERS SHALL BE SPACED MORE THAN 10'-0". COMPLY WITH PIPE SPACING AS SPECIFIED IN THE PIPE SUPPORT SPECIFICATION.
12. CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL, AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION.
13. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER DRAWINGS AND OUTSHEETS BEFORE FABRICATION OF DUCTWORK, PIPING, OR POURING OF CONCRETE HOUSEKEEPING PADS.
14. CONTRACTOR SHALL VERIFY DUCTED RETURN AIR PATH BACK TO ALL UNITS. REFER TO FLOOR PLANS AND AIR DEVICE TAGS FOR EXACT SIZING. WHERE RETURN AIR PATH IS ROUTED THROUGH A FIRE RATED WALL, A FIRE DAMPER SHALL BE PROVIDED IN THE DUCTWORK.
15. COORDINATE EXACT LOCATION, FINISH, AND COLOR OF ALL AIR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
16. ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALL INSULATED.
17. PROVIDE ACCESS PANEL FOR ALL HVAC EQUIPMENT LOCATED ABOVE HARD CEILING. SIZE PANEL PER MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AND COORDINATE WITH ARCHITECT FOR FINISH.
18. PROVIDE TEMPERATURE SENSORS, HUMIDISTATS AND CO2 SENSORS AT LOCATIONS INDICATED ON PLANS. MOUNT TEMPERATURE SENSORS, HUMIDISTATS AND CO2 SENSORS AT THE SAME ELEVATION AS LIGHT SWITCHES. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
19. PROVIDE SPIN-IN CONNECTION WITH LOCKING QUADRANT BUTTERFLY FOR ALL ROUND DUCTWORK CONNECTED TO RECTANGULAR DUCT.
20. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS.
21. ALL LOW PRESSURE DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR MEDIUM AND LOW PRESSURE DUCTWORK.
22. PROVIDE AIRFOIL TYPE TURNING VANES IN ALL 90 DEGREE ELBOWS.
23. FASTEN AND SEAL ALL DUCTWORK JOINTS, LONGITUDINAL AND TRAVERSE SEAMS AND CONNECTIONS PER ASHRAE 90.1 SECTION 6.4.2.1. DUCT SEALANT SHALL BE INSPECTED PRIOR TO DUCTWORK BEING INSULATED.
24. ALL EXPOSED DUCTWORK AND PIPING ALONG WITH ASSOCIATED ACCESSORIES IN AREAS WITH NO CEILING OR PARTIAL CEILING SHALL BE PAINTED. REFER TO ARCHITECT FOR COLOR.
25. PROVIDE REMOTE SPIN-IN CONNECTION FOR ALL ROUND DUCTWORK CONNECTED TO RECTANGULAR DUCT LOCATED ABOVE A HARD CEILING.
26. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE SELECTED TO WITHSTAND 150 MPH WINDS AND SHALL BE SECURED DIRECTLY TO STRUCTURE/GRADE. ALL FANS, RELIEF HOODS, AND INTAKE HOODS SHALL BE SECURED TO CURB USING STEEL CABLES. ALL PIPE SUPPORTS AND CONDUIT SUPPORTS SHALL BE ANCHORED TO ROOF DECK. ALL AIR COOLED CONDENSING UNITS SHALL BE ANCHORED TO ROOF DECK. VIBRATION ISOLATORS SHALL INCLUDE UPLIFT REQUIREMENT.
27. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY WILL HAVE OBTAINED THE SCOPE OF MECHANICAL WORK INVOLVED AS A RESULT OF ARCHITECTURAL MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS. CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
28. COORDINATE ALL MOUNTING LOCATIONS AND HEIGHTS OF AIR DEVICES WITH ARCHITECT PRIOR TO FINAL INSTALLATION.
29. AFTER THE HYDRONIC SYSTEM FLUSH IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO PROVE ALL BYPASS LOOPS ON ALL OF THE COIL PIPING IS CLOSED. ONCE THE VALVE IS PROVED CLOSED, REMOVE THE HANDLE OF THE BYPASS ISOLATION VALVE TO ENSURE NO BYPASS LINE CAN BE OPENED DURING REGULAR OPERATION.

### MECHANICAL SYMBOLS



### APPLICABLE CODES AND STANDARDS

HOUSTON AIRPORT SYSTEM AND MODULAR RESTROOM DESIGN STANDARDS
MECHANICAL CODE: 2012 UNIFORM MECHANICAL CODE WITH CITY OF HOUSTON AMENDMENTS
BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE WITH CITY OF HOUSTON AMENDMENTS
2012 INTERNATIONAL FIRE CODE WITH CITY OF HOUSTON AMENDMENTS
2012 UNIFORM PLUMBING CODE WITH CITY OF HOUSTON AMENDMENTS.
2020 NATIONAL ELECTRIC CODE
ASHRAE 90.1-2013 WITH CITY OF HOUSTON AMENDMENTS
ASHRAE 62.1-2013 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY
2012 TAS - TEXAS ACCESSIBILITY STANDARD
WHERE TWO OR MORE STANDARDS ARE APPLICABLE, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.

### ENERGY CODE NOTES

1. DUCT SEALING: DUCTWORK AND PLENUMS SHALL BE SEALED IN ACCORDANCE WITH THE 2015 IECC AND 2015 UAC.
2. BALANCING: SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS (NEBB, AABC, OR ASHRAE 111). AIR SYSTEMS SHALL BE IN A MANNER TO PREVENT MINOR TRICKLING LOSSES. THEN FOR FANS WITH FAN SYSTEM POWER GREATER THAN 1 HP, FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS.
3. ENERGY CODE COMPLETION REQUIREMENTS.  
 DRAWINGS: CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING SIZES AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES.  
 MANUALS: CONSTRUCTION DOCUMENTS REQUIRE THAT AN OPERATING MANUAL AND A MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THESE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY ACCEPTED STANDARDS, AND SHALL INCLUDE AT A MINIMUM THE FOLLOWING:  
 (A) SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.  
 (B) OPERATING MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE SHALL BE CLEARLY IDENTIFIED.  
 (C) NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.  
 (D) HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, SCHEMATICS AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICES OR FOR DIGITAL CONTROL SYSTEMS, IN THE PROGRAMMING COMMENTS.  
 (E) COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SETPOINTS.  
 AUTOMATIC SHUTDOWN  
 HVAC SYSTEM SHALL BE EQUIPPED WITH CONTROLS THAT CAN START AND STOP THE SYSTEM UNDER DIFFERENT TIME SCHEDULES FOR SEVEN DIFFERENT TIMES PER WEEK, AND BE CAPABLE OF RETAINING PROGRAMMING AND TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF NOT LESS THAN 24 HOURS AND INCLUDE AN ACCESSIBLE MANUAL OVERRIDE OR EQUIVALENT FUNCTION THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR TWO HOURS.  
 SHUTOFF DAMPER CONTROLS  
 BOTH OUTDOOR AIR SUPPLY AND EXHAUST SYSTEMS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE. VENTILATION OUTDOOR AIR DAMPERS SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF DURING PREOCCUPANCY BUILDING WARM UP, COOL DOWN AND SETBACK.  
 NOTES:  
 1. DUCTWORK WITHIN THE BUILDING ENVELOPE WILL HAVE A MINIMUM INSULATION VALUE OF R-6. DUCTWORK LOCATED OUTSIDE OF THE BUILDING ENVELOPE WILL BE INSULATED WITH A MINIMUM OF R-8. DUCTWORK SHALL HAVE VAPOR RETARDERS WITH A PERM RATING NOT TO EXCEED 5 PERM. ALL JOINTS TO BE SEALED.  
 2. CONSTRUCTION - VENTILATING CEILINGS: SUSPENDED CEILING MATERIAL SHALL HAVE A CLASS 1 FLAME-SPREAD CLASSIFICATION ON BOTH SIDES, DETERMINED IN ACCORDANCE WITH THE BUILDING CODE. CEILING SUPPORTS SHALL BE OF NONCOMBUSTIBLE MATERIALS. LIGHTING FIXTURES RECESSED INTO VENTILATING CEILINGS SHALL BE OF A TYPE APPROVED FOR THAT PURPOSE.  
 3. APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE. SUPPORTS FOR APPLIANCES SHALL BE DESIGNED AND CONSTRUCTED TO SUSTAIN VERTICAL AND HORIZONTAL LOADS WITHIN THE STRESS LIMITATIONS SPECIFIED IN THE IBC, SECTION 304.4 - UNIFORM MECHANICAL CODE.

### MECHANICAL SHEET LIST

DWG NUMBER	DWG NAME
M0-01	MECHANICAL DEMO ENLARGED PLANS
M-301	MECHANICAL DETAILS
M-101	MECHANICAL ENLARGED PLANS
M-100	MECHANICAL OVERALL PLAN - LEVEL 2
M401	MECHANICAL ABBREVIATIONS, LEGENDS AND NOTES



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### HAS HOBBY AIRPORT RESTROOMS PHASE 3

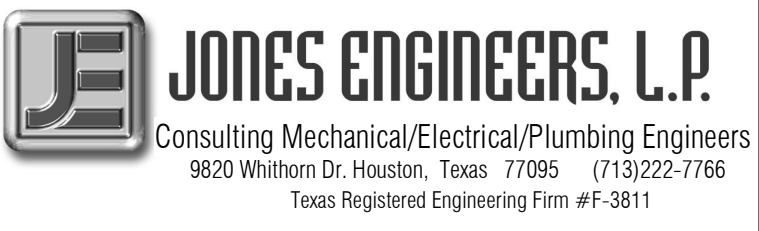
C.I.P. No.	PN209B	A.I.P. No.	
C.O.H. No.		D.O.A. No.	

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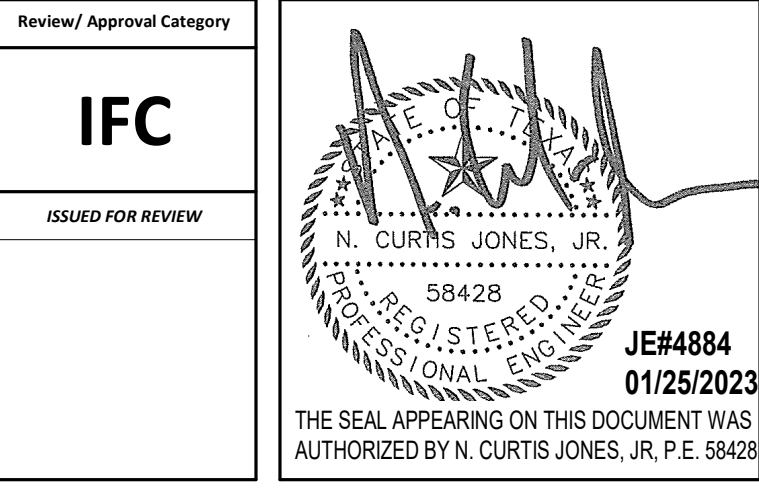
DESIGNER PROJECT No.:	1429.15
PROJECT STATUS:	CONSTRUCTION DOCUMENTS

### REVISIONS

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1	30% CD	10.28.22	JE
2	95% CD	12.09.22	JE
3	IFC	01.25.2023	JE

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DRAWN BY:	JE
CHECKED BY:	JE
ISSUE DATE:	01/25/2023
APPROVED BY:	CURT JONES
APPROVAL DATE:	01/25/2023

**DIRECTOR**  
of  
**HOUSTON AIRPORT SYSTEM**



SHEET NAME:	MECHANICAL ABBREVIATIONS, LEGENDS AND NOTES
SHEET No.	M-001
SCALE:	12" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1



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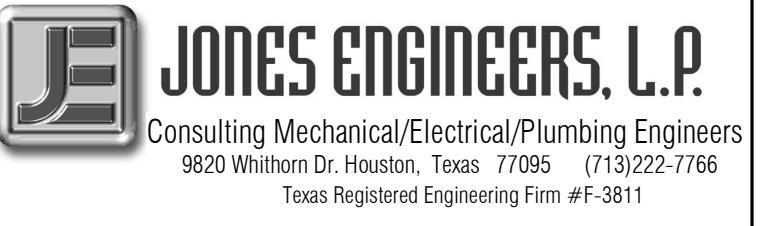
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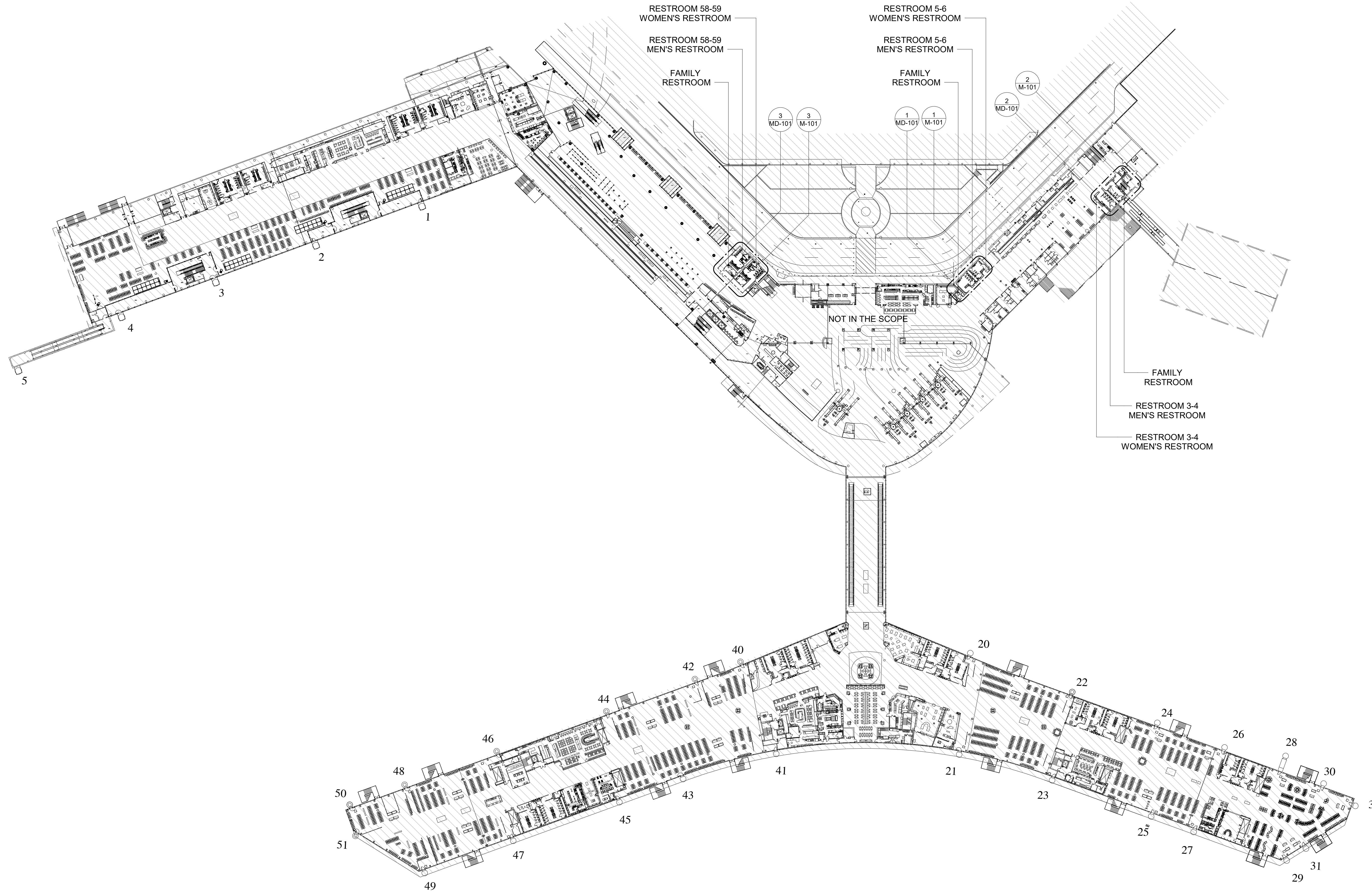
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01/25/2023  
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AUTHORIZED BY N. CURTIS JONES, JR., P.E. 58428

SHEET NAME: MECHANICAL OVERALL PLAN - LEVEL 2

SHEET No. M-100 SCALE: 1/64" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1



**1 MECHANICAL OVERALL PLAN - LEVEL 2**  
1/64" = 1'-0"

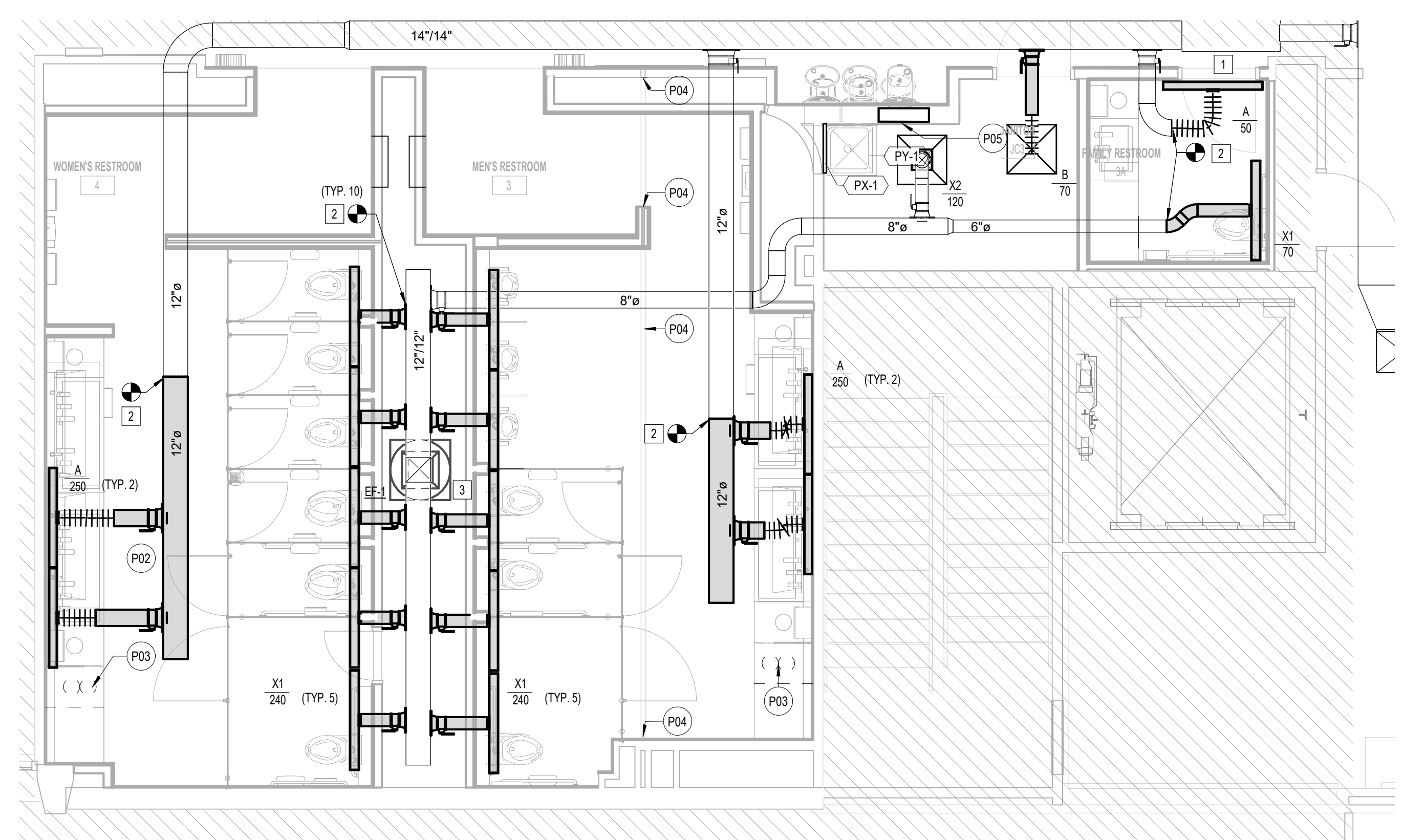
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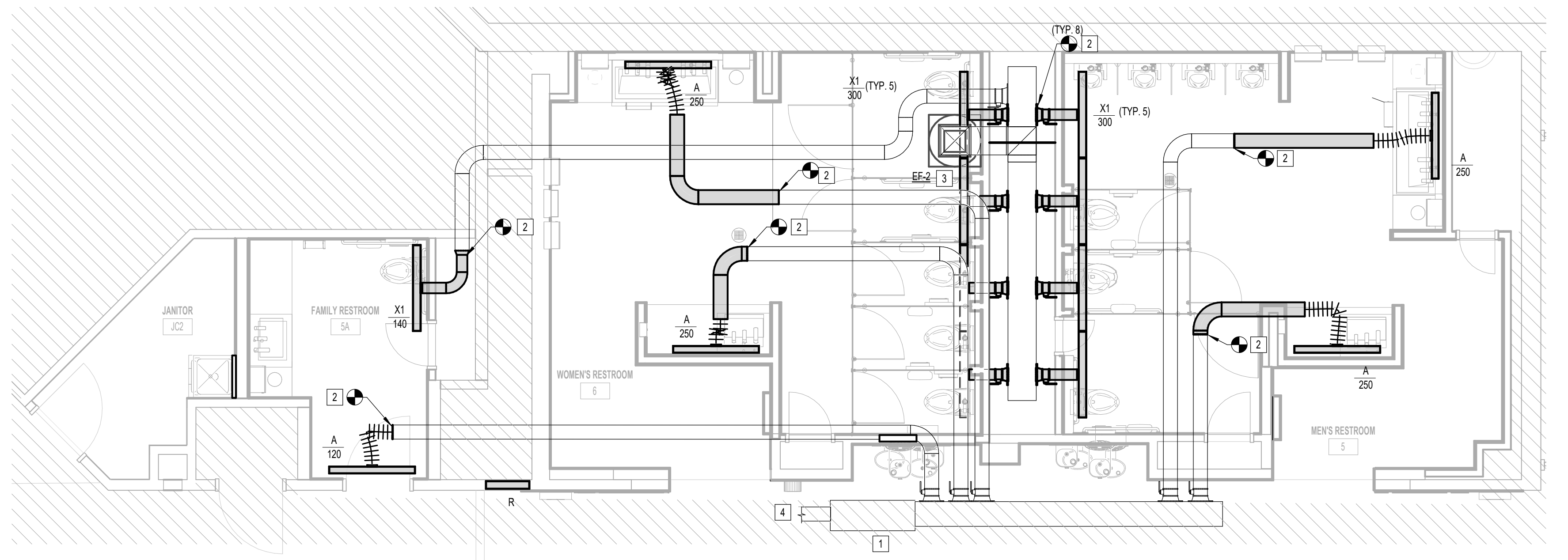


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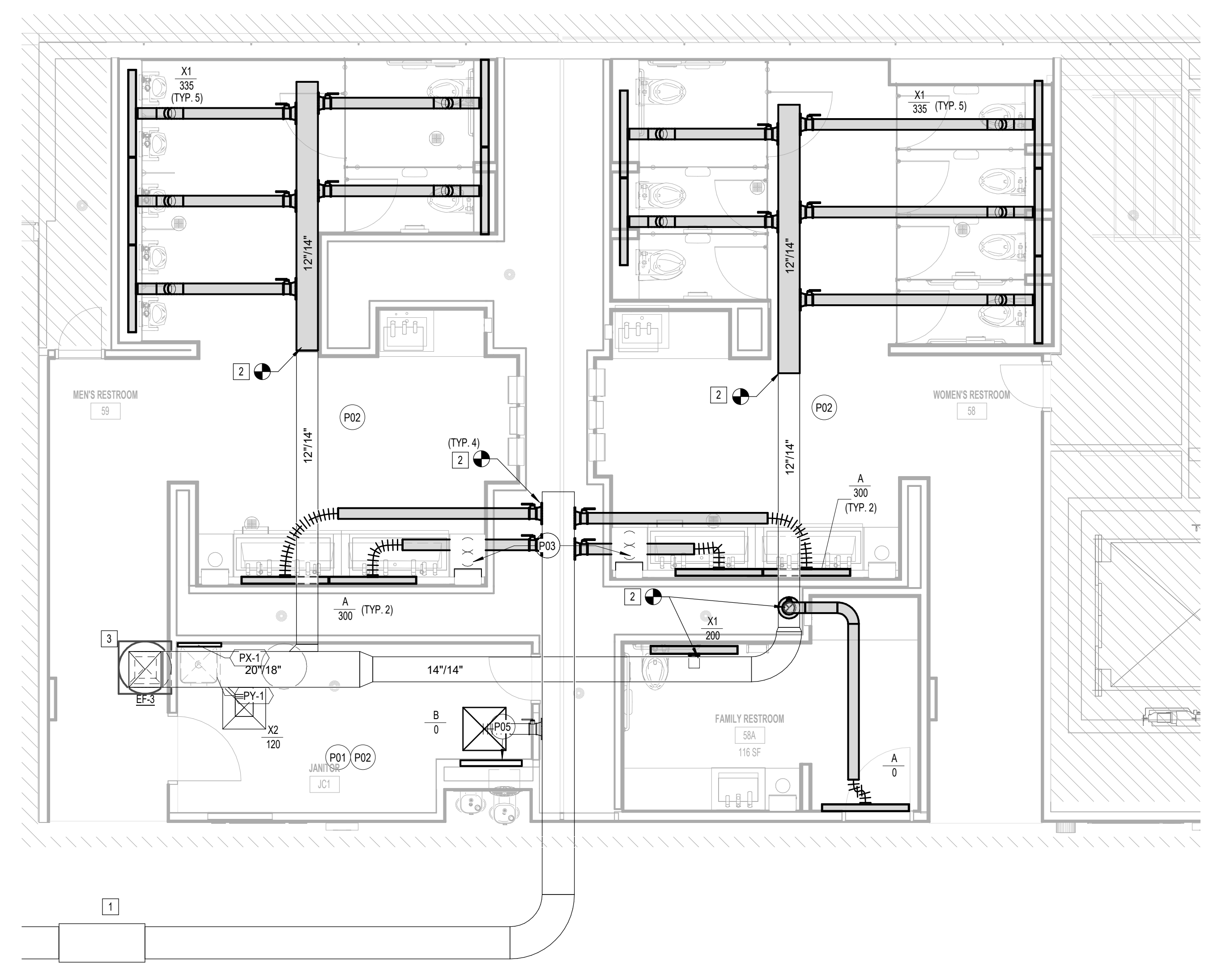


**2** MECHANICAL PLAN - RESTROOM GATE 3-4  
1/4" = 1'-0"



**1** MECHANICAL PLAN - RESTROOM GATE 5-6  
1/4" = 1'-0"

KEYED NOTES	
#	KEY NOTE
1	EXISTING AIR TERMINAL UNIT TO REMAIN.
2	CONNECT TO EXISTING BRANCH DUCTWORK.
3	PROVIDE NEW EXHAUST FAN ON ROOF.
4	EXISTING UPSTREAM DUCTWORK TO REMAIN.



**3** MECHANICAL PLAN - RESTROOM GATE 58-59  
1/4" = 1'-0"



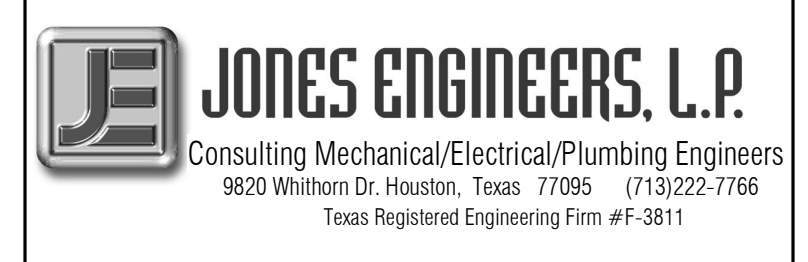
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HAS HOBBY AIRPORT RESTROOMS  
PHASE 3

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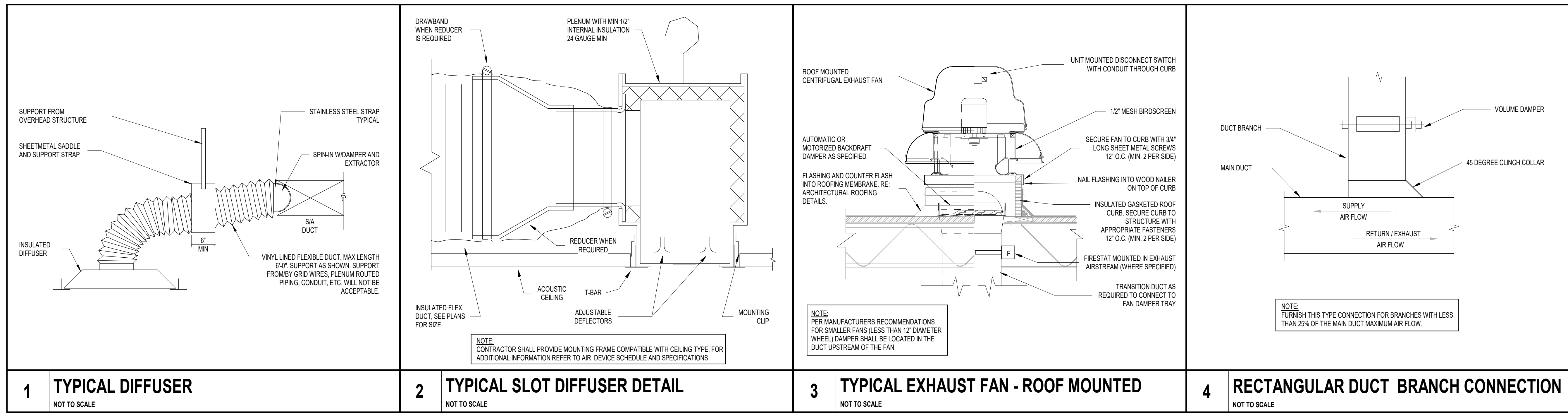
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APPROVAL DATE: 01/25/2023

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SHEET NAME: MECHANICAL ENLARGED PLANS  
SHEET No. M-101 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1



AIR DEVICE SCHEDULE									
MARK	MANU.	MODEL	TYPE	NOMINAL FACE SIZE	MAX CFM	NECK SIZE	NOISE CRITERIA (MAX) NC	NOTES	
A	PRICE		SLOT DIFFUSER WITH PLENUM 48x6, 4-SLOT		300 CFM	6"			
B	PRICE	ASCD	HIGH PERFORMANCE SQUARE CONE DIFFUSER	24 x 24	250 CFM	6"	25		
R	PRICE	LBP	RETURN GRILLE 158, 3/16" BLADE W/ 1/2" SPACING	96 X 24	10000 CFM		28		
X1	PRICE	SOS	RETURN SLOT DIFFUSER WITH PLENUM, 48x6, 6 inch inlet, 3-inlet		400 CFM	6"	25		
X2	PRICE	80 SERIES	EGGCRATE RETURN GRILLE	24 x 24	500 CFM	107/10"	25		

NOTES:  
1. COORDINATE EXACT LOCATIONS AND BORDER TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.  
2. DUCT RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS SCHEDULED NECK DIAMETER.

FAN SCHEDULE													
MARK	MANU.	MODEL	LOCATION	AREA(S) SERVED	FAN TYPE	CFM	E.S.P. IN W.G.	ELECTRICAL				NOTES	
								HP	RPM	V	PH		HZ
EF-1	GREENHECK	GB-200-VGD	ROOF	RR	UPBLAST	2800	1.5	1.5	1400	460	3	60	
EF-2	GREENHECK	GB-200-VGD	ROOF	RR	UPBLAST	2800	1.5	1.5	1400	460	3	60	
EF-3	GREENHECK	G-180-VGD	ROOF	RR	UPBLAST	3600	1.5	2	1400	460	3	60	

NOTES:  
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO FILTERS, HOUSING, AND ACCESSORIES.  
2. PROVIDE FAN WITH MOTOR RATED TOGGLE SWITCH VARI-GREEN DAL MOUNTED ON EXTERIOR OF FAN HOUSING, AND VIBRATION ISOLATORS.  
3. PROVIDE ALL BACNET INTERFACE ACCESSORIES AS REQUIRED.  
4. ROOF EXHAUST.

DESIGNER PROJECT No.: 1429.15  
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DIRECTOR  
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01/25/2023  
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR. P.E. 58428

SHEET NAME: MECHANICAL DETAILS  
SHEET No. M-301 SCALE: As indicated  
SHEET SIZE: 30"x42" ARCH E1

PLOT DATE: DOA DWG FILE: PLOT DATE: HAS FILE: FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/4884 MEP\_HobbyRestroomRenovationPH3\_R21.rvt

GENERAL ELECTRICAL NOTES:

- 1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND WERE MADE FROM THE BEST INFORMATION AVAILABLE...
2. GUARANTEE LABOR AND MATERIALS FOR 1 YEAR.
3. ALL NEW OR ADDITIONAL POWER DISTRIBUTION EQUIPMENT SHALL BE THE SAME MANUFACTURER AS THE ORIGINAL BUILDING EQUIPMENT...
4. REUSED ELECTRICAL EQUIPMENT, WIRING DEVICES, WIRING DEVICE COVER, PLATED CONDUIT AND WIRE WHICH ARE DAMAGED SHALL BE RESTORED TO ORIGINAL INTEGRITY...
5. ANY ELECTRICAL WORK AFFECTING THE LIGHTING ON THE ADA MUST BE COORDINATED WITH IAH ELECTRICAL DEPARTMENT.
6. FOR ALL TELEPHONE DATA OUTLETS, PROVIDE AN OPENING, PLASTER RING, AND DEVICE PLATE AT NORMAL RECEPTACLE HEIGHT...
7. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CIRCUIT DESIGNATIONS AND SHALL MAKE CORRECTIONS AS NEEDED.
8. ALL FIRE ALARM SYSTEM DEVICES AND EXIT SIGNAGE SHALL BE INTERFACED WITH BUILDING FIRE ALARM SYSTEM.
9. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH HAS CONSTRUCTION REQUIREMENTS WORK THAT INTERFERES WITH EXISTING TENANT OR BUILDING ACTIVITIES...
10. ELECTRICAL WORK MUST COMPLY WITH NEC-2020, CITY ELECTRIC CODE, AND 2018 HAS-ELECTRIC STANDARDS.
11. ALL LOCATIONS OF DEVICES ARE APPROXIMATE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
12. SEAL NEW OR EXISTING PENETRATIONS IN OF FLOORS, RATED PARTITIONS, AND CORRIDOR WALLS.
13. SECURE ALL PERMITS AND PROVIDE ANY REQUIRED TEMPORARY UTILITIES.
14. ALL WORK AND SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER SUCH THAT THE WORK IS PERFORMED AT THE OWNERS CONVENIENCE.
15. CONTRACTOR TO PROVIDE "AS-BUILT" DRAWINGS INDICATING THE CONFIGURATION OF THE CONSTRUCTED WORK.
16. REPAIR ANY DAMAGE THAT OCCURS TO ANY ELECTRICAL EQUIPMENT DURING DEMOLITION.
17. SUBMIT INFORMATION ON ALL NEW EQUIPMENT IN THE FORM OF SHOP DRAWINGS. REFER TO ARCHITECTURAL SPECIFICATIONS FOR THE CORRECT PROCEDURE.
18. PROVIDE 3 COPIES OF THE OPERATION AND MAINTENANCE MANUALS TO THE OWNER.
19. AS PER 2020 NEC AND ALL HAS STANDARDS ALL PANELS, DISCONNECTS, TRANSFORMERS SHALL HAVE PHENOLIC TAGS STATING ELECTRICAL ROOM, CIRCUIT NUMBER AND VOLTAGE WITH ARCS FLASH STICKERS.
20. WIRING - ALL WIRING SHALL BE COPPER, MINIMUM SIZE #12 AWG, THIN, RATED AT 600 VOLTS.
21. BOXES - ALL BOXES TO BE GALVANIZED STEEL SUITABLE FOR LOCATION AND SIZED PER THE N.E.C.
22. DEVICES: SWITCHES - SINGLE POLE, 3-WAY AND 4-WAY SWITCHES TO BE 20 AMP, 120/240 OR 277/480 VOLT AS APPLICABLE.
23. CONDUIT - ALL ELECTRICAL CONDUIT SHALL BE 3/4" MINIMUM GALVANIZED EMT W/ COMPRESSION FITTINGS.
24. CONDUCTORS:
A. MINIMUM WIRE SIZE FOR BRANCH CIRCUITS BE NO. 12 AWG COPPER.
B. ALUMINUM WIRE SHALL BE USED ONLY FOR OVERHEAD SPANS FROM POLE TO POLE, POLE TO BUILDING, OR BUILDING TO BUILDING APPLICATIONS.
C. STRANDED WIRE SMALLER THAN NO. 14 AWG MAY BE FOR BRANCH CIRCUITS PROVIDING:
a. THEY ARE CONNECTED TO WIRING DEVICES THAT UTILIZE CLAMP TYPE TERMINATIONS RATHER THAN BINDER HEAD SCREW CONNECTIONS.
b. THEY ARE TERMINATED WITH SPADE TYPE LUGS FOR BINDER HEAD SCREW CONNECTIONS.
c. THEY ARE SPLICED TO SOLID CONDUCTORS FOR BINDER HEAD SCREW CONNECTIONS.
D. STRANDED CONDUCTORS SHALL BE USED FOR ALL MOTOR AND CONTROL CIRCUIT WIRING.
E. CONDUCTORS FEEDING COMPUTER OUTLETS (OR IN CLOSE PROXIMITY TO A TELECOMMUNICATIONS OUTLET) SHALL HAVE A NEUTRAL ONE SIZE LARGER THAN THE PHASE CONDUCTOR.
F. REQUIRED TORQUE TO TERMINALS IN BREAKERS 100A AND ABOVE MUST BE WITNESSED BY HASISSO ELECTRICAL INSPECTORS.
G. CONDUIT COLOR CODING SHALL BE CONSISTENT ALONG THE ENTIRE LENGTH OF A CIRCUIT.
480Y / 277Y 3Ø, 4W 2Ø8Y / 120V, 3Ø, 4W 240Y / 120V, 1Ø, 3W
AØ - BROWN AØ - BLACK AØ - BLACK
BØ - PURPLE BØ - RED CØ - RED
CØ - YELLOW CØ - BLUE N - WHITE
N - GRAY N - WHITE GRND - BARE
GRND - BARE GRND - BARE ISO GRND - GREEN
ISO GRND - GREEN ISO GRND - GREEN

SYMBOL LEGEND

SWITCHES
\$ SWITCH, SPST, 20A, 120/277V
\$3 SWITCH, 20A, 120/277V, "Z" DENOTES THREE-WAY, "4" DENOTES FOUR-WAY
D DIMMER CONTROL SWITCH, 1000 WATT UNLESS OTHERWISE NOTED
\$M SWITCH, MOTION SENSOR, NOVITAS 401-133
\$OC WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER...
RECEPTACLES AND OUTLETS
E DUPLEX WALL RECEPTACLE, NEMA 5-15R, 15A, 120V OR NEMA 5-20R, 20A, 120V, RE: SPECIFICATIONS, DOT INDICATES ABOVE COUNTER.
WP DUPLEX WALL RECEPTACLE, "WP" DENOTES WEATHERPROOF, "TP" DENOTES SAFETY TYPE, "GF" DENOTES GROUND FAULT PROTECTION, DOT INDICATES ABOVE COUNTER.
FLOOR OUTLET
JUNCTION BOX
DIRECT CONNECTION TO EQUIPMENT
TELEPHONE WALL OUTLET, PROVIDE 2"x4" OUTLET BOX WITH 3/4" CONDUIT AND PULL STRING TO ABOVE CEILING.
COMBINATION RECEPTACLE/TELEPHONE DATA FLOOR OUTLET
ELECTRICAL EQUIPMENT
DISTRIBUTION PANEL
PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4", UNLESS NOTED OTHERWISE
TRANSFORMER
MOTORS AND CONTROLS
SINGLE OR THREE PHASE MOTOR
DISCONNECT (SAFETY) SWITCH "2000/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED
MOTOR STARTER
COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER "300/15W" DENOTES AMPERES/POLES/USE STARTER SIZE, "NF" DENOTES NON-FUSED
MANUAL MOTOR STARTING WITH THERMAL OVERLOAD
FIRE ALARM
FACP FIRE ALARM CONTROL PANEL (FLUSH/SURFACE)
CEILING SPEAKER/STROBE, (H) IS CANDELA RATING
WALL SPEAKER/STROBE
CEILING STROBE, (H) IS CANDELA RATING
WALL STROBE
SPEAKER
MANUAL PULL STATION
AREA SMOKE DETECTOR, "H" HEAT DETECTOR, "DD" DUCT DETECTOR.
SPRINKLER FLOW SWITCH
VALVE SUPERVISORY SWITCH



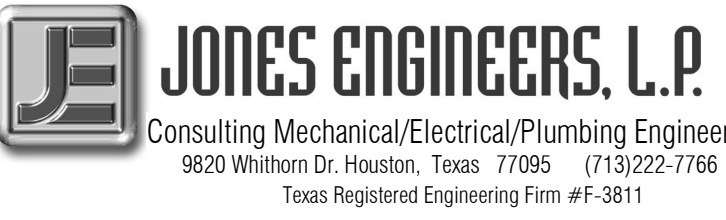
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9820 Whitman Dr., Houston, Texas 77066 (713)222-7766
Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.: 1429.15
PROJECT STATUS: CONSTRUCTION DOCUMENTS

REVISIONS

Table with 4 columns: No., DESCRIPTION, DATE, BY. Contains 3 revision entries.

DESIGN BY: JE
DRAWN BY: JE
CHECKED BY: JE
ISSUE DATE: 01/25/2023
APPROVED BY: CURT JONES
APPROVAL DATE: 01/25/2023

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category: IFC
ISSUED FOR REVIEW
Professional Engineer Seal for Curt Jones, No. 58428, State of Texas, dated 01/25/2023.

SHEET NAME: ELECTRICAL ABBREVIATIONS, LEGENDS, AND NOTES
SHEET No. E-001 SCALE: 12" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

PLOT DATE:
DOA DWG FILE:
OLD DOA No.:
PLOT DATE:
FILE PATH: BIM 360://1429 Hobby Restroom Renovation Phase III/4884\_MEP\_HobbyRestroomRenovationPH3\_R21.rvt

HAS FILE:

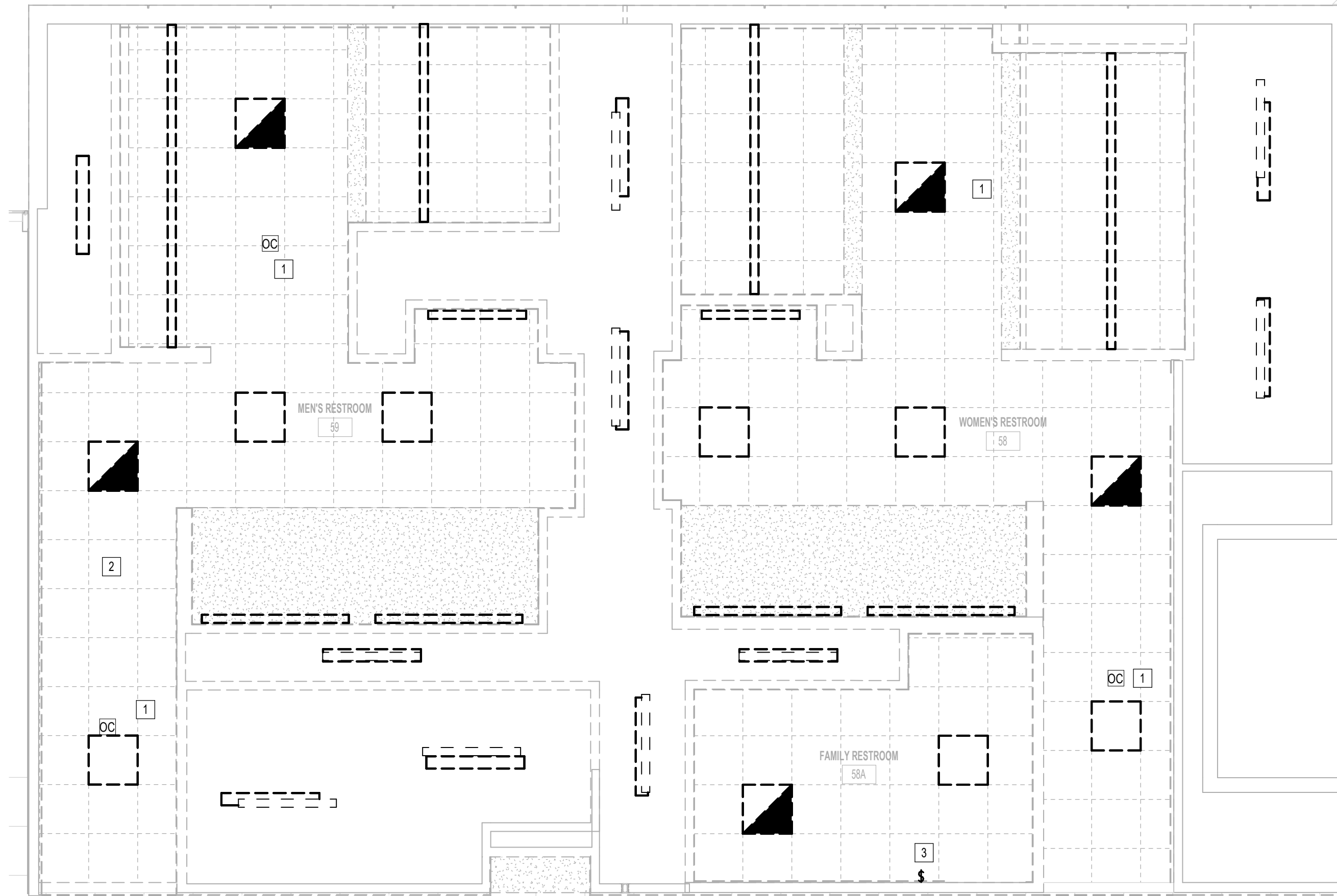
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DOA DWG FILE:
OLD DOA No.:
PLOT DATE:

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No.:

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/4884 MEP\_HobbyRestroomRenovationPH3\_R21.rvt

HAS FILE:

PLOT DATE:

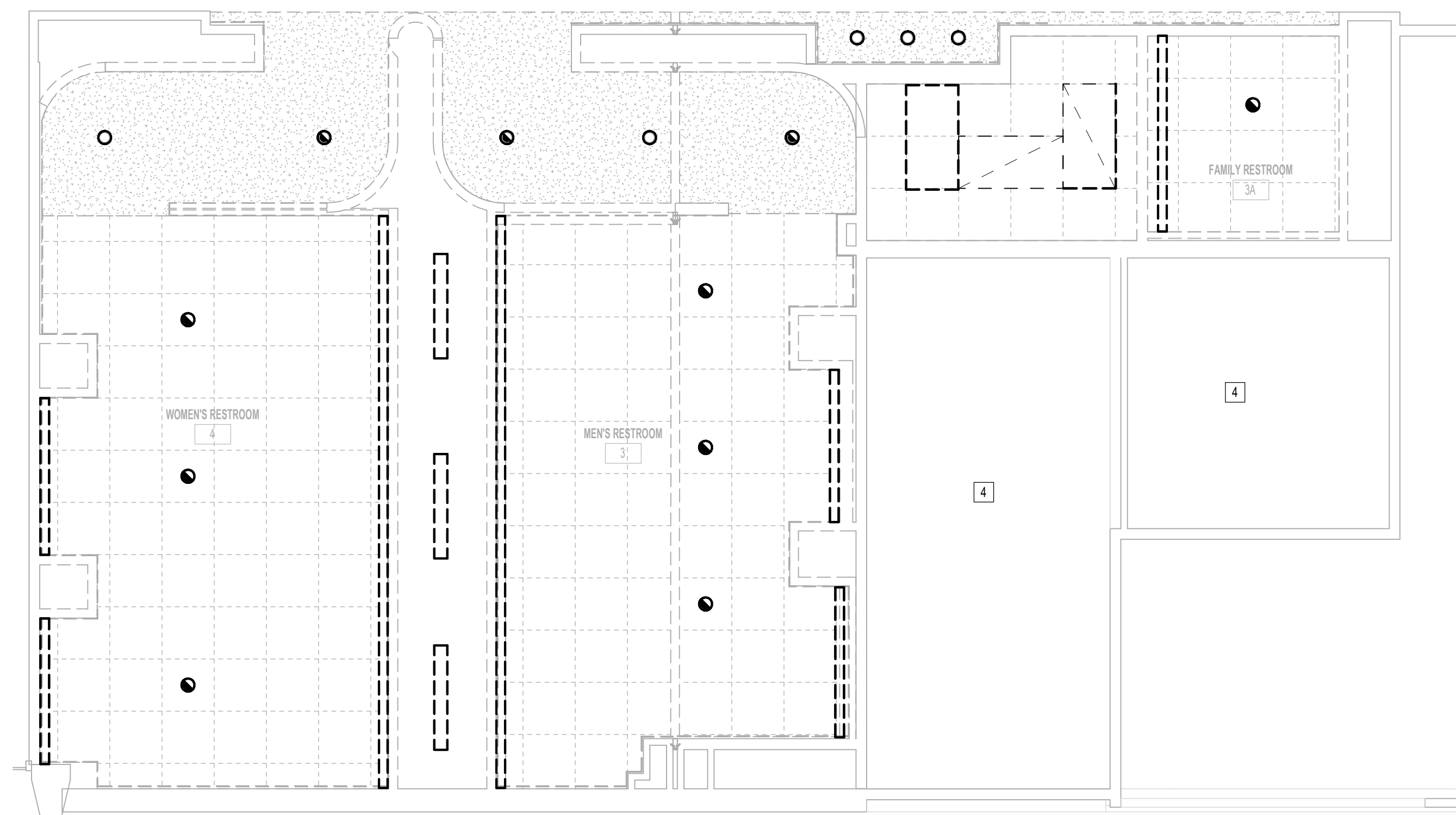


**3** ELECTRICAL LIGHTING DEMO PLAN - RESTROOM GATE 58-59  
1/8" = 1'-0"

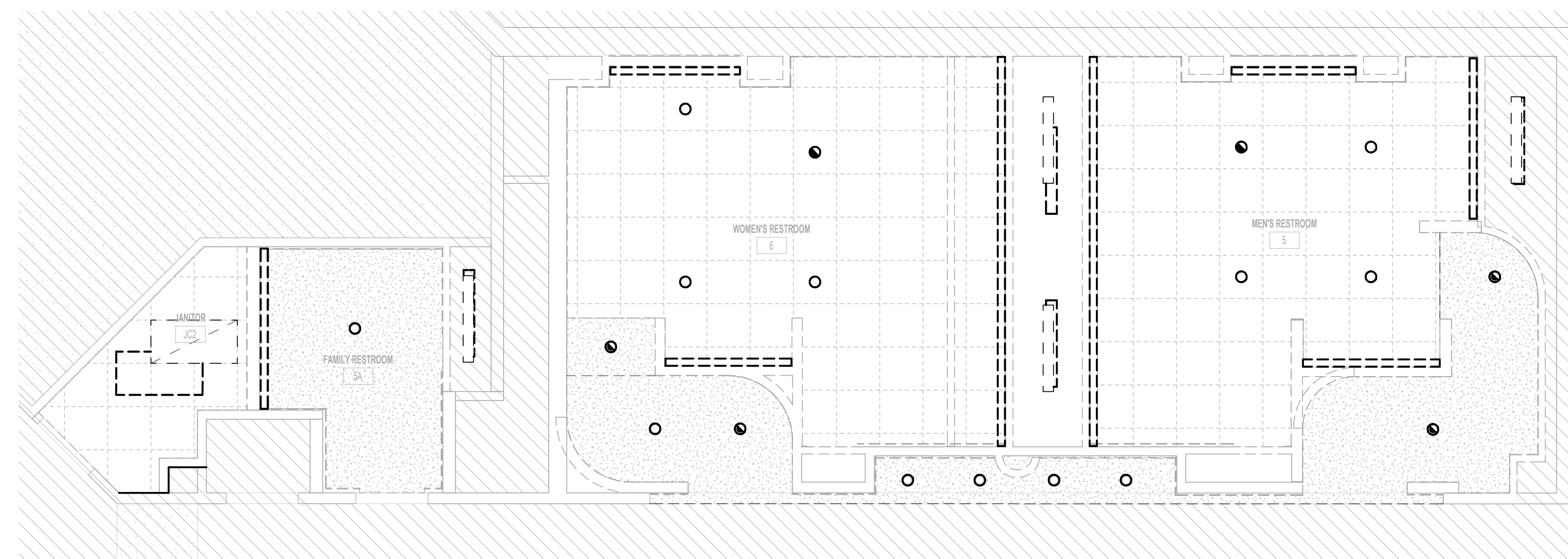
**GENERAL LIGHTING DEMOLITION NOTES:**

1. ALL LIGHTING TO BE REMOVED. REMOVE LIGHT FIXTURES, CONDUIT AND WIRE BACK TO NEAREST JUNCTION BOX. EXISTING BRANCH CIRCUIT ARE TO REMAIN AND BE REUSED FOR NEW LIGHTING. REFER TO LIGHTING PLANS FOR NEW LAYOUT.

#	KEYNOTE
1	EXISTING LIGHTING CONTROL OCCUPANCY SENSOR TO BE REUSED. REFER TO EL-101 FOR NEW LOCATION.
2	ALL EXISTING LIGHTING CONTROL ABOVE CEILING TO BE REUSED (ROOM CONTROLLERS)
3	LIGHT SWITCH TO BE REMOVED.
4	EXISTING LIGHTING TO REMAIN IN THIS AREA.



**2** ELECTRICAL LIGHTING DEMO PLAN - RESTROOM GATE 3-4  
1/8" = 1'-0"



**1** ELECTRICAL LIGHTING DEMO PLAN - RESTROOM GATE 5-6  
1/8" = 1'-0"



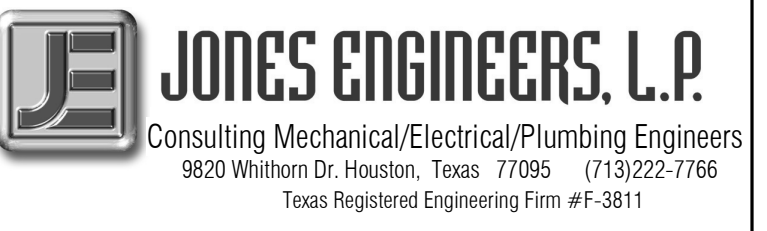
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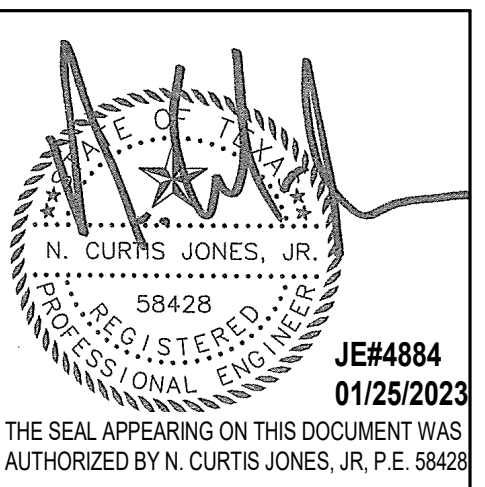
**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	30% CD	10.28.22	JE
2	95% CD	12.09.22	JE
3	IFC	01.25.2023	JE

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ISSUE DATE: 01/25/2023  
APPROVED BY: CURT JONES  
APPROVAL DATE: 01/25/2023

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SHEET NAME: ELECTRICAL LIGHTING DEMO ENLARGED PLANS  
SHEET No. ELD-101 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1



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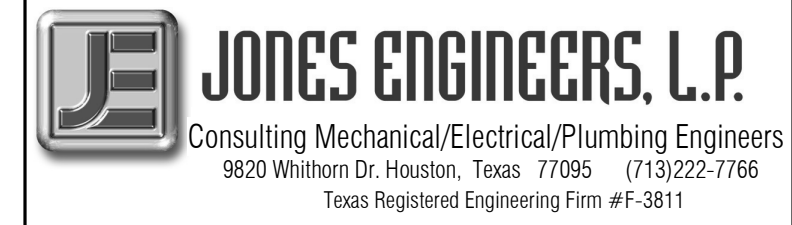
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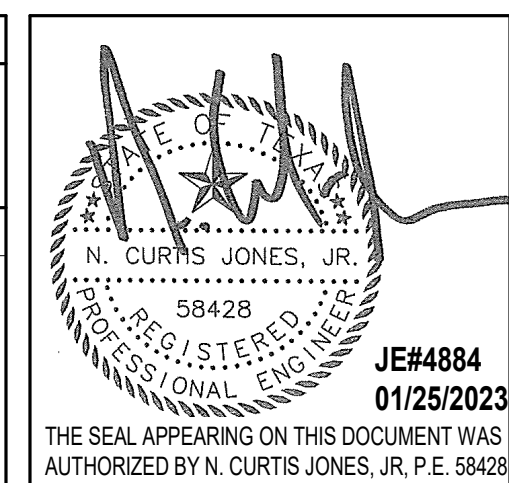
#### REVISIONS

No.	DESCRIPTION	DATE	BY
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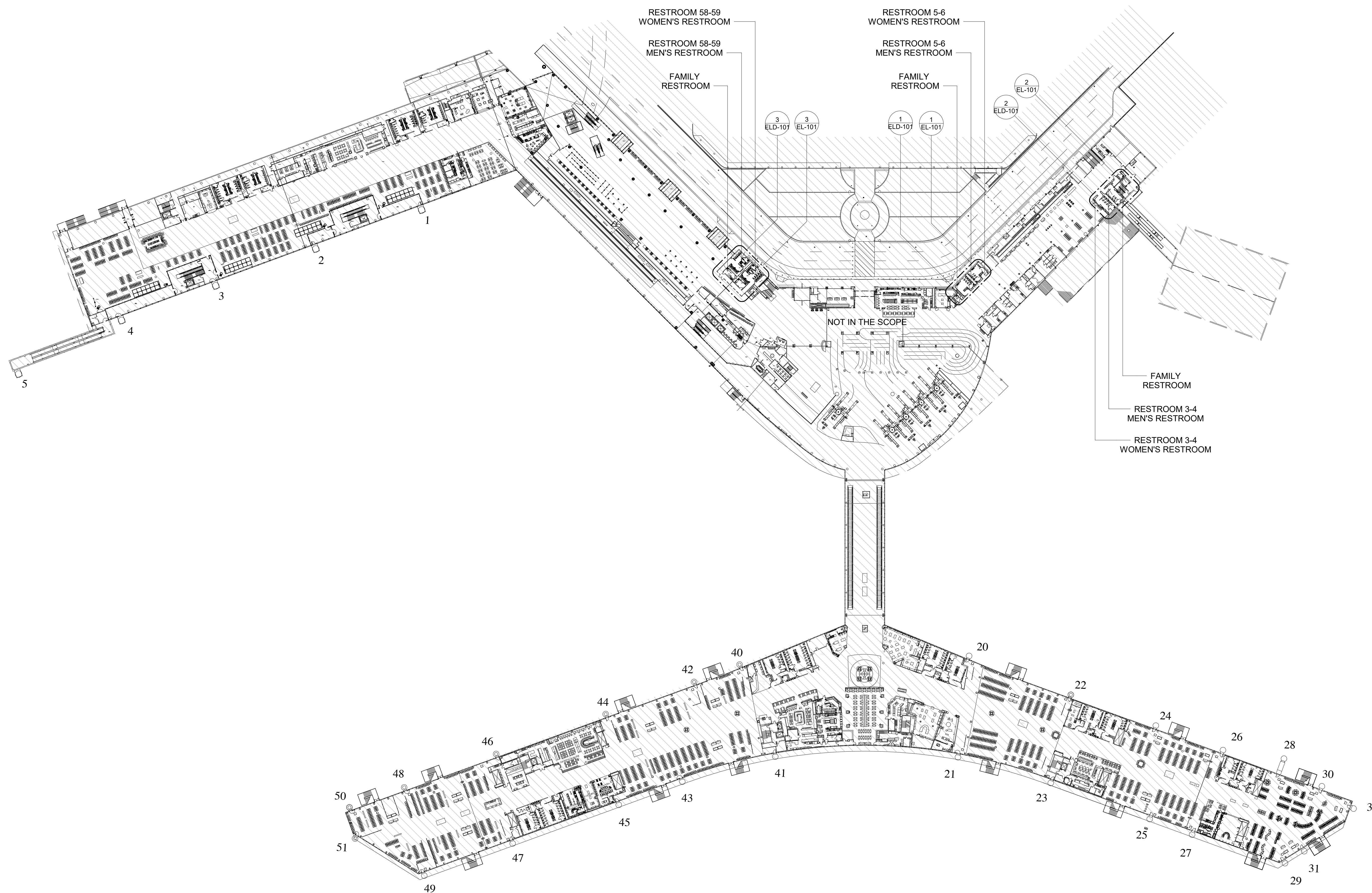
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SHEET NAME:  
ELECTRICAL LIGHTING OVERALL PLAN - LEVEL 2

SHEET No. EL-100 SCALE: 1/64" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1



# 1 ELECTRICAL LIGHTING OVERALL PLAN - LEVEL 2

1/64" = 1'-0"

A

B

C

D

E

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3	IFC	01.25.2023	JE

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ISSUED FOR REVIEW

JE#4884  
01/25/2023  
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR. P.E. 58428

**ELECTRICAL LIGHTING PLAN GENERAL NOTES**

A. ALL LIGHT FIXTURE LOCATIONS ARE APPROXIMATE. FOR EXACT LOCATION REFER TO ARCHITECTURAL DRAWINGS.

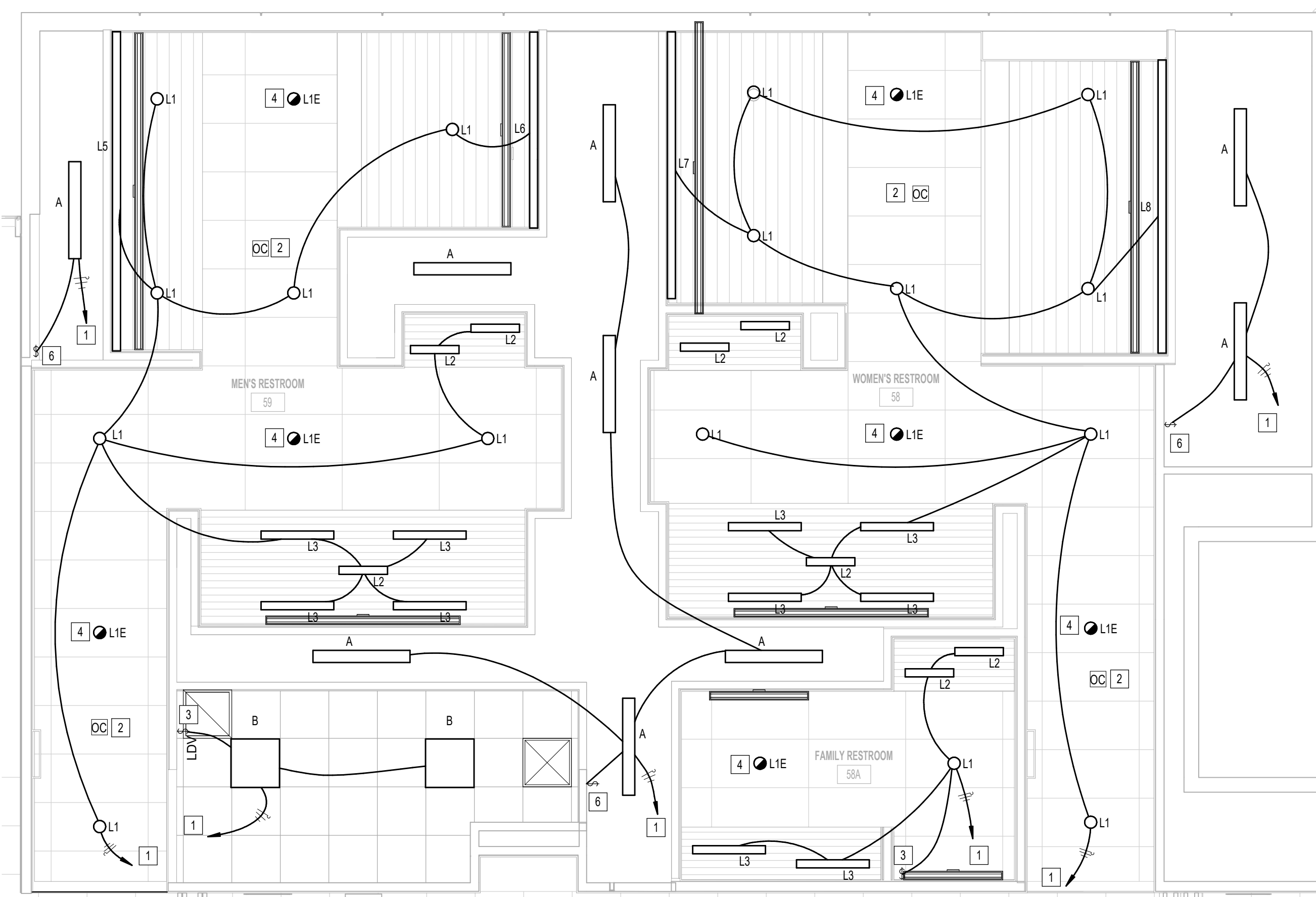
B. ALL OCCUPANCY SENSORS SHALL PROVIDE FULL ROOM COVERAGE. PROVIDE POWER PACKS AND OVERRIDE SWITCHES AS REQUIRED FOR CONTROL INDICATED.

C. ALL LIGHTS TO BE CONTROLLED BY EXISTING LIGHTING CONTROL SYSTEM.

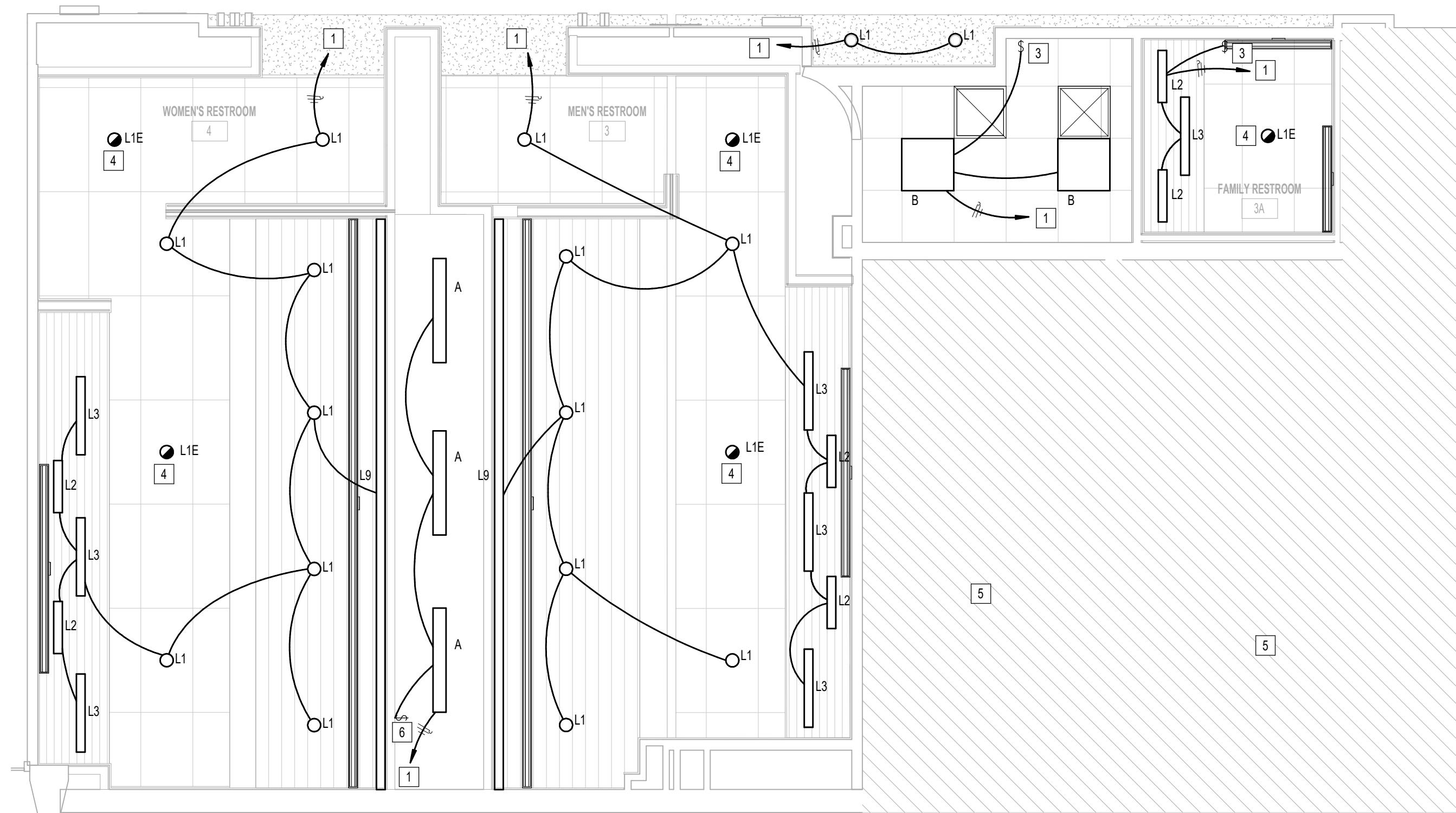
D. CONTRACTOR SHALL REUSE EXISTING EMERGENCY CIRCUIT TO PROVIDE POWER TO NEW EMERGENCY LIGHTING.

**ELECTRICAL KEYED NOTE**

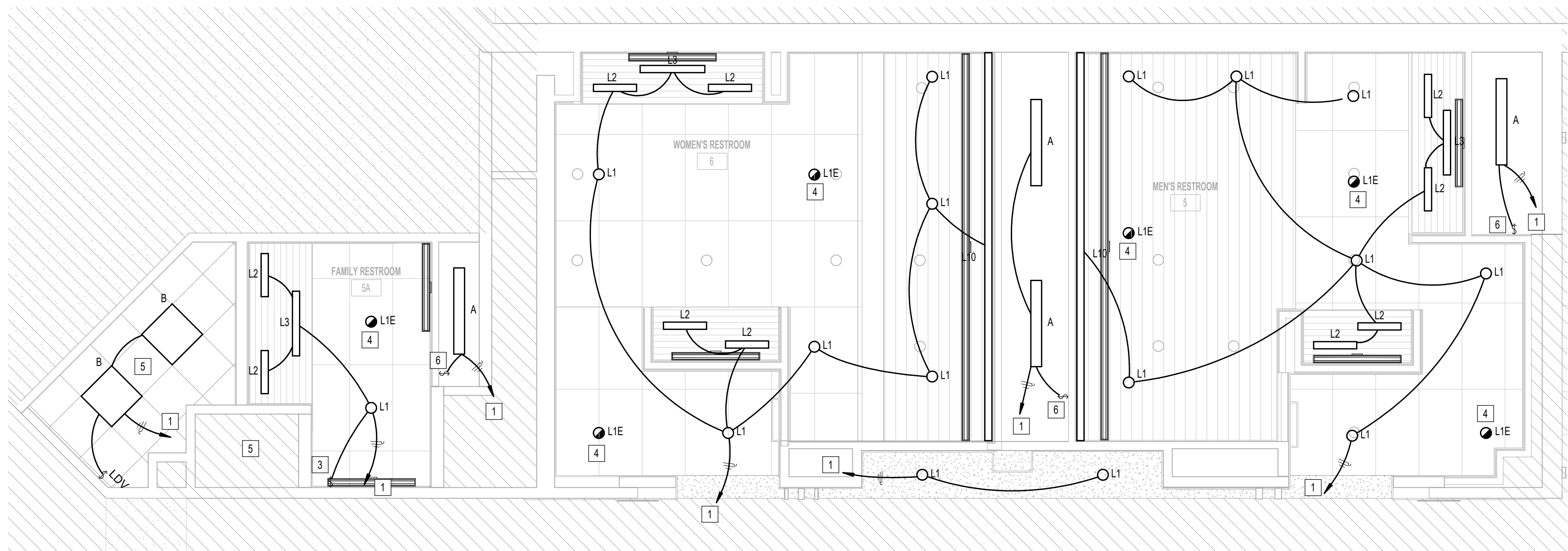
#	KEYNOTE
1	CONNECT TO EXISTING LIGHTING CIRCUIT SERVING REMOVED LIGHT FIXTURES. VERIFY BRANCH CIRCUIT HAS NOT BEEN EXCEEDED.
2	NEW LOCATION OF OCCUPANT SENSOR.
3	WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). AUTO OFF / AUTO ON.
4	CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT SERVING REMOVED EMERGENCY LIGHT FIXTURES. VERIFY BRANCH CIRCUIT HAS NOT BEEN EXCEEDED.
5	EXISTING LIGHTING TO REMAIN IN THIS AREA.
6	DOOR JAMB SWITCH. COORDINATE EXACT REQUIREMENTS IN FIELD.



**3 ELECTRICAL LIGHTING PLAN - RESTROOM GATE 58-59**  
1/4" = 1'-0"



**2 ELECTRICAL LIGHTING PLAN - RESTROOM GATE 3-4**  
1/4" = 1'-0"



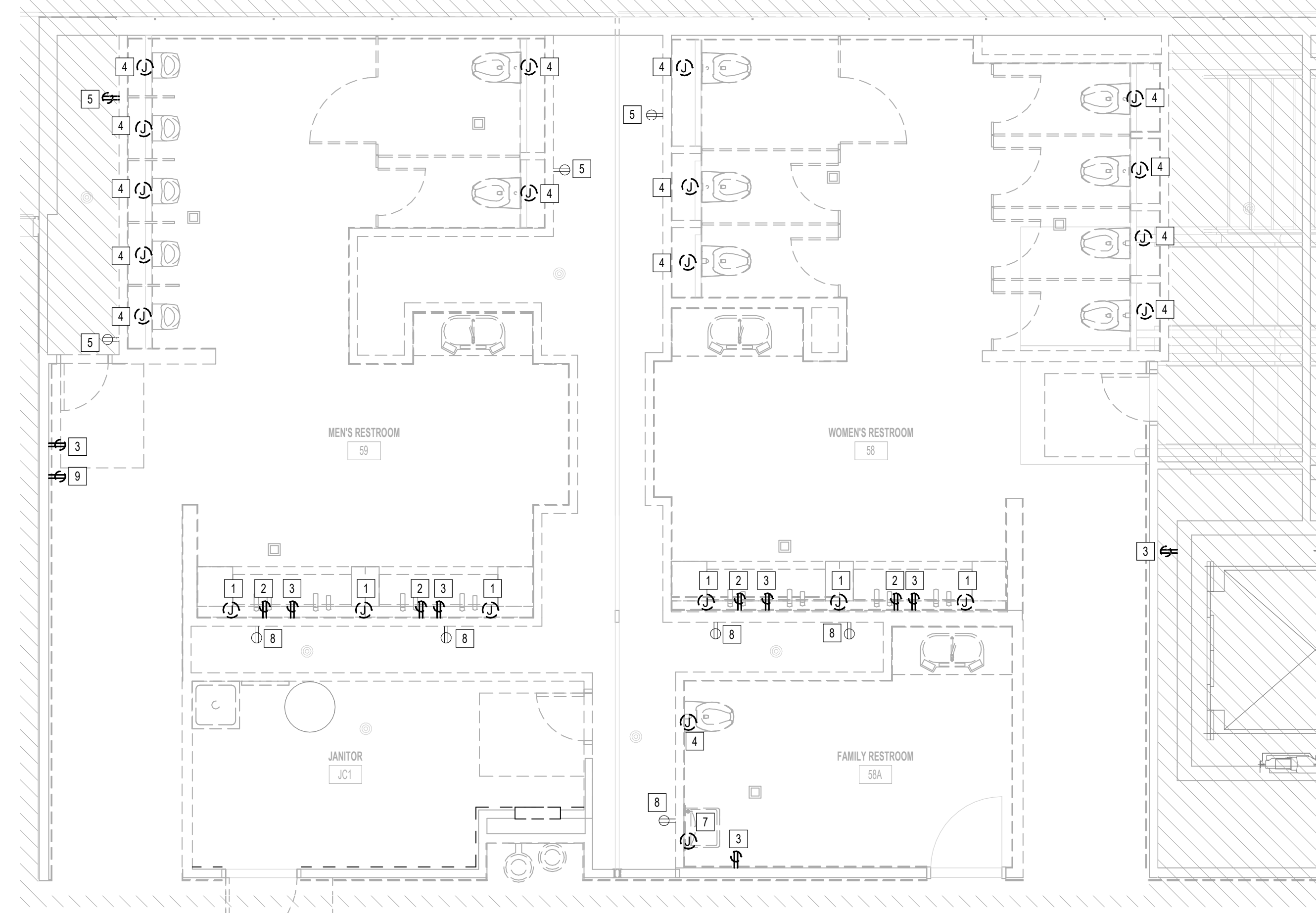
**1 ELECTRICAL LIGHTING PLAN - RESTROOM GATE 5-6**  
1/4" = 1'-0"

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No.:

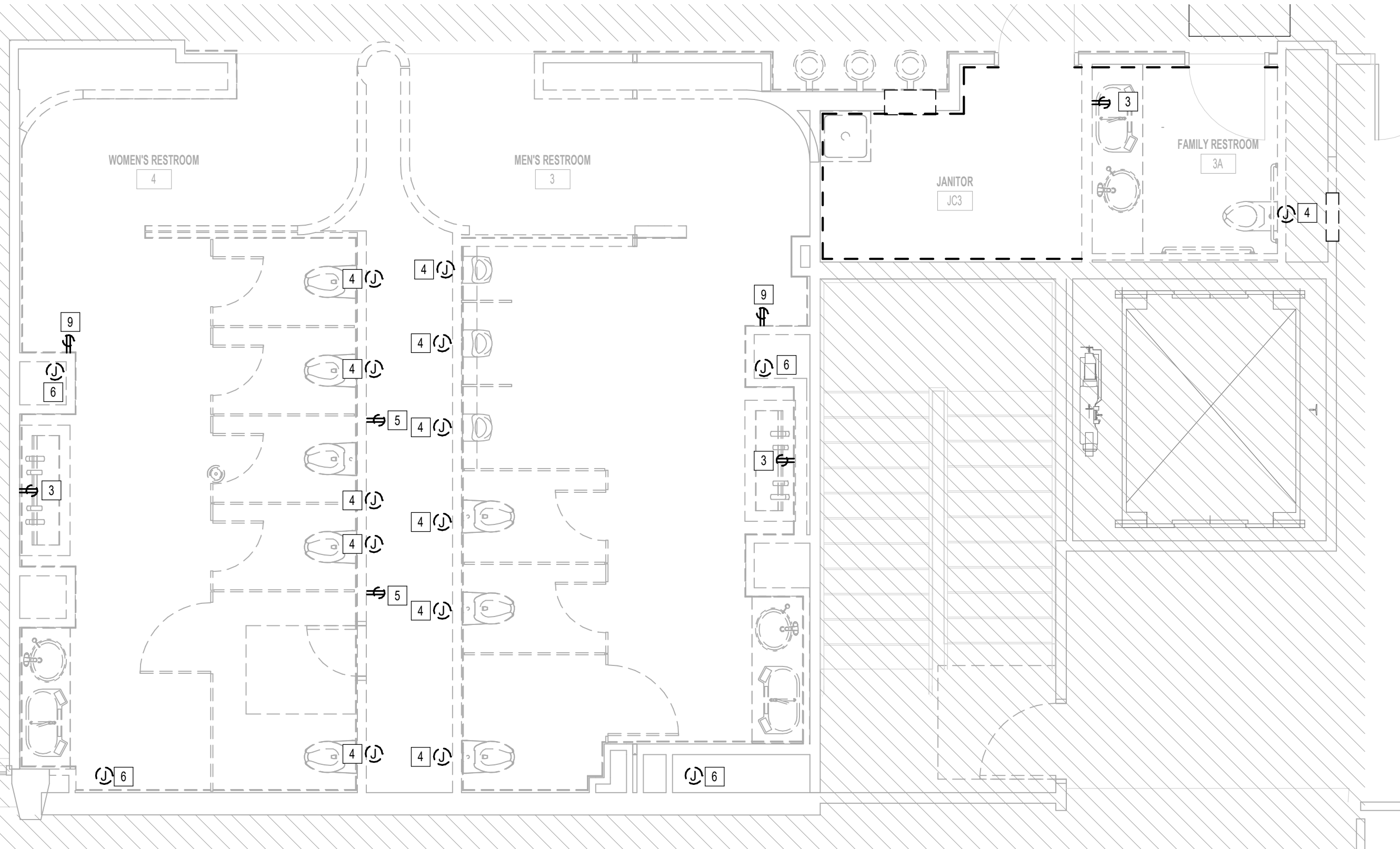
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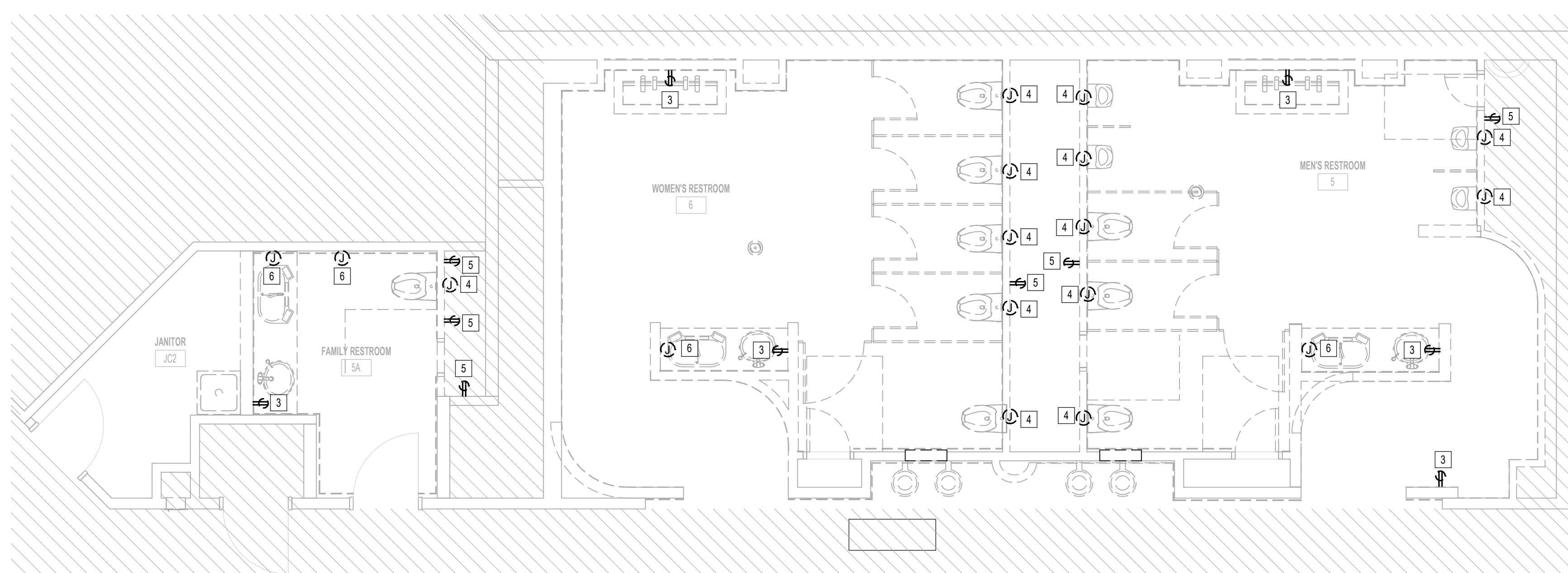
PLOT DATE:



**3 ELECTRICAL POWER DEMO PLAN - RESTROOM GATE 58-59**  
1/4" = 1'-0"



**2 ELECTRICAL POWER DEMO PLAN - RESTROOM GATE 3-4**  
1/4" = 1'-0"



**1 ELECTRICAL POWER DEMO PLAN - RESTROOM GATE 5-6**  
1/4" = 1'-0"

- GENERAL POWER DEMOLITION NOTES:**
- CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES IN THE AREA OF WORK. ELECTRICAL CONDUIT, BOX, AND BRANCH CIRCUITS ARE TO BE REMOVED ALL THE WAY TO THE SOURCE PANEL, UNLESS OTHERWISE NOTED.
  - REMOVE ALL FIRE ALARM DEVICES.

#	KEYNOTE
1	HAND DRYER TO BE REMOVED
2	AUTOMATIC SOAP DISPENSER AND FAUCET SENSOR TO BE REMOVED
3	RECEPTACLE TO BE REMOVED
4	REMOVE JUNCTION BOX FOR AUTO FLUSH
5	EXISTING RECEPTACLE TO REMAIN
6	REMOVE JUNCTION BOX
7	JUNCTION FOR FAUCET SENSOR TO BE REMOVED
8	EXISTING RECEPTACLE FOR SOAP DISPENSER PUMP TO REMAIN
9	REMOVE IPAD

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Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	30% CD	10.28.22	JE
2	95% CD	12.09.22	JE
3	IFC	01.25.2023	JE

DESIGN BY: JE  
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APPROVAL DATE: 01/25/2023

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**JE#4884**  
01/25/2023  
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR. P.E. 58428

SHEET NAME: ELECTRICAL POWER DEMO ENLARGED PLANS  
SHEET No. EPD-101 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1



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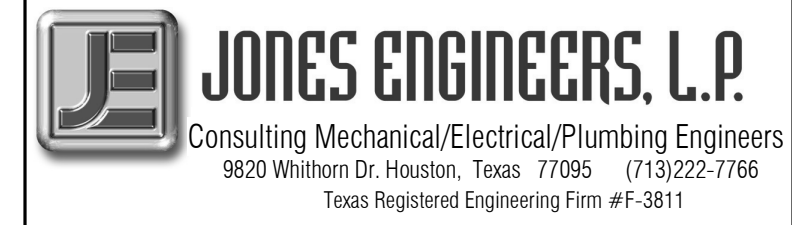
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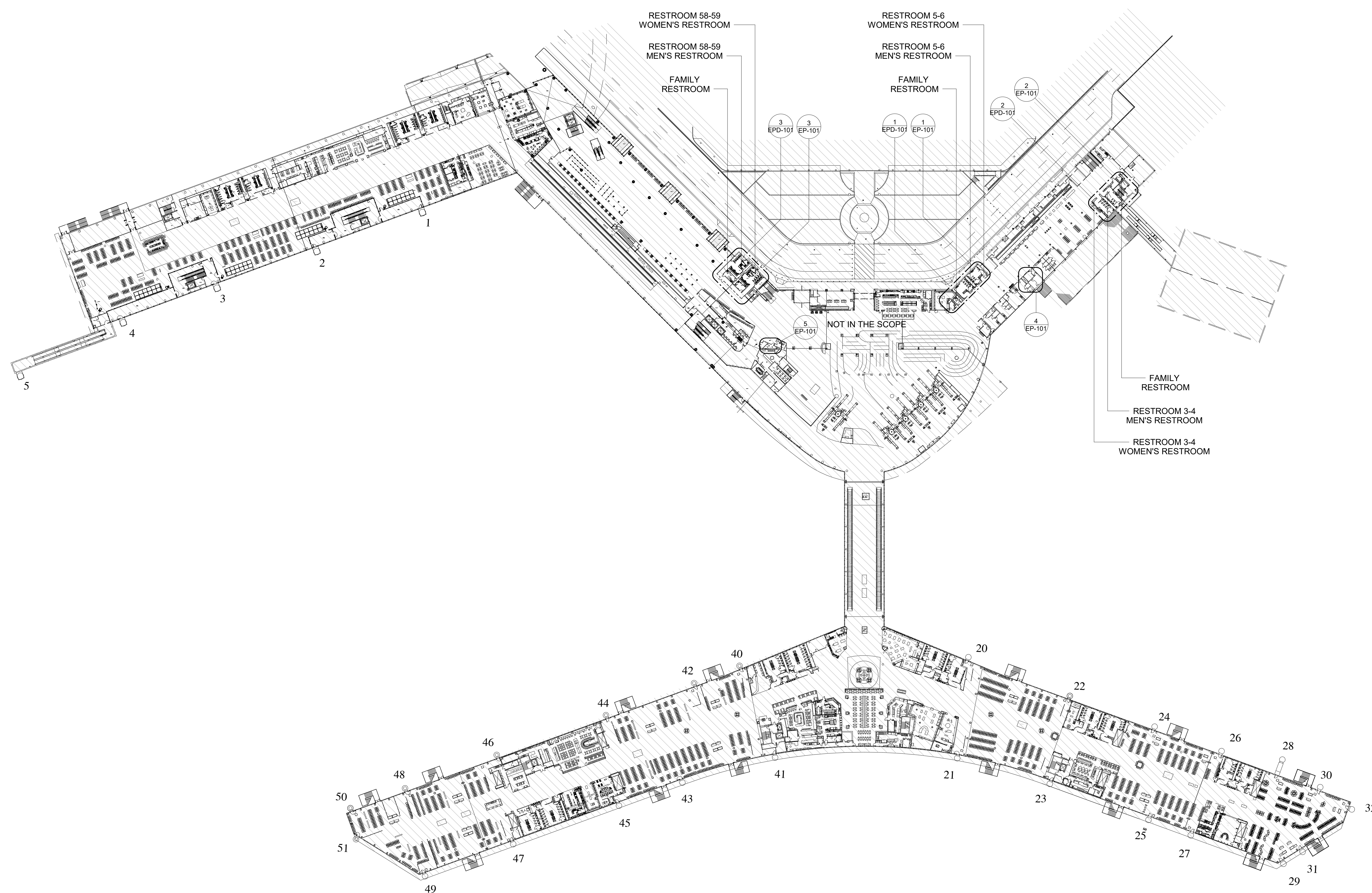
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**1** ELECTRICAL POWER OVERALL PLAN - LEVEL 2  
1/8" = 1'-0"

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/4884 MEP\_HobbyRestroomRenovationPH3\_R21.rvt  
HAS FILE:  
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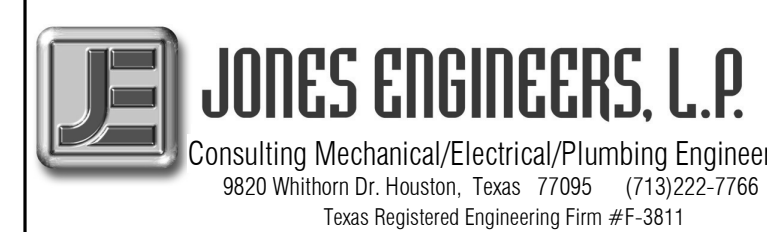
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#	KEYNOTE
1	JUNCTION BOX FOR PAPER TOWEL DISPENSOR.
2	EXISTING RECEPTACLE TO REMAIN.
3	JUNCTION BOX FOR HAND DRYER.
4	JUNCTION BOX FOR SOAP/WATER FAUCET SENSOR. COORDINATE CONNECTION WITH EQUIPMENT MANUFACTURER. PROVIDE GFI RECEPTACLE(S) AS REQUIRED.
5	JUNCTION BOX FOR TOILET URINAL SENSOR. PROVIDE 120V HARDWIRE CONNECTION. COORDINATE LOCATION OF TRANSFORMER.
6	USE GFI RECEPTACLE FOR SMART RESTROOM TABLET. REFER TO TECHNOLOGY DRAWINGS ADDITIONAL REQUIREMENTS.
7	JUNCTION BOX FOR STALL OCCUPANCY LIGHTS. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL REQUIREMENTS.
8	FLAT PANEL DISPLAY. REFER TO TECHNOLOGY DRAWINGS FOR DATA REQUIREMENTS AND ADDITIONAL REQUIREMENTS.
9	EXISTING RECEPTACLE FOR SOAP DISPENSER PUMP TO REMAIN.
10	JUNCTION BOX FOR PASSENGER COUNTER SENSOR. REFER TO TECHNOLOGY DRAWINGS ADDITIONAL REQUIREMENTS.
11	JUNCTION BOX FOR BLUETOOTH BEACON PUCK. REFER TO TECHNOLOGY DRAWINGS ADDITIONAL REQUIREMENTS.
12	RECEPTACLE FOR TECHNOLOGY RACK. REFER TO TECHNOLOGY DRAWINGS ADDITIONAL REQUIREMENTS.

DESIGNER PROJECT No.: 1429.15  
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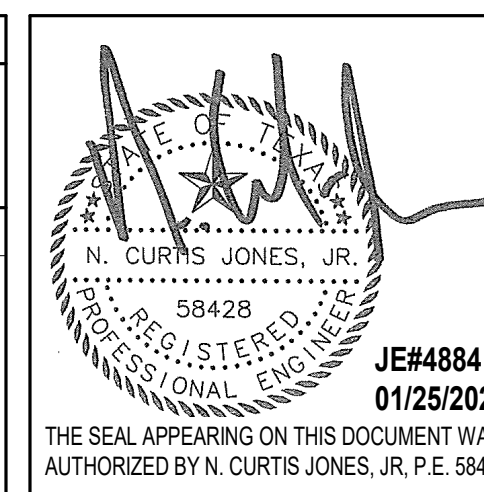
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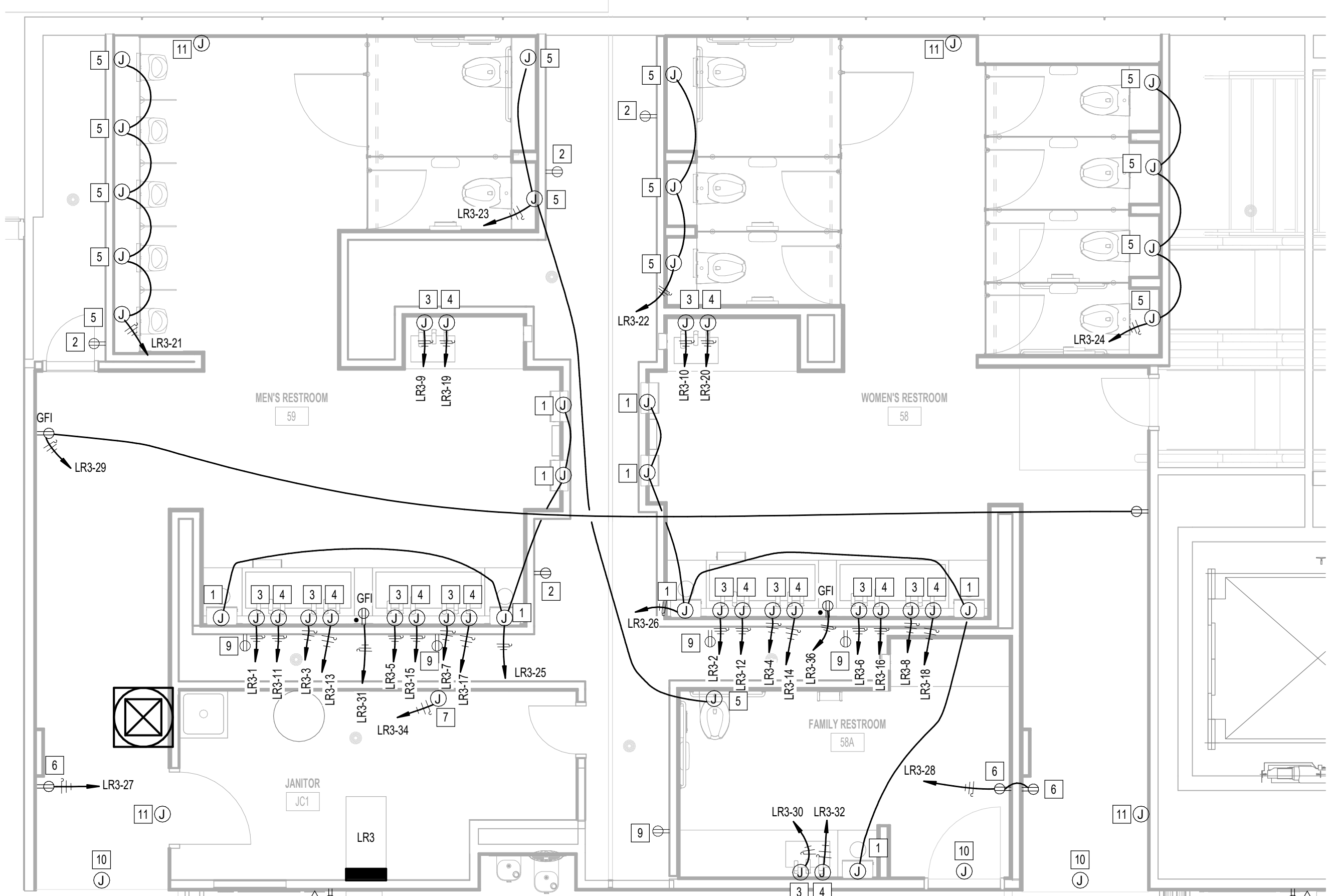
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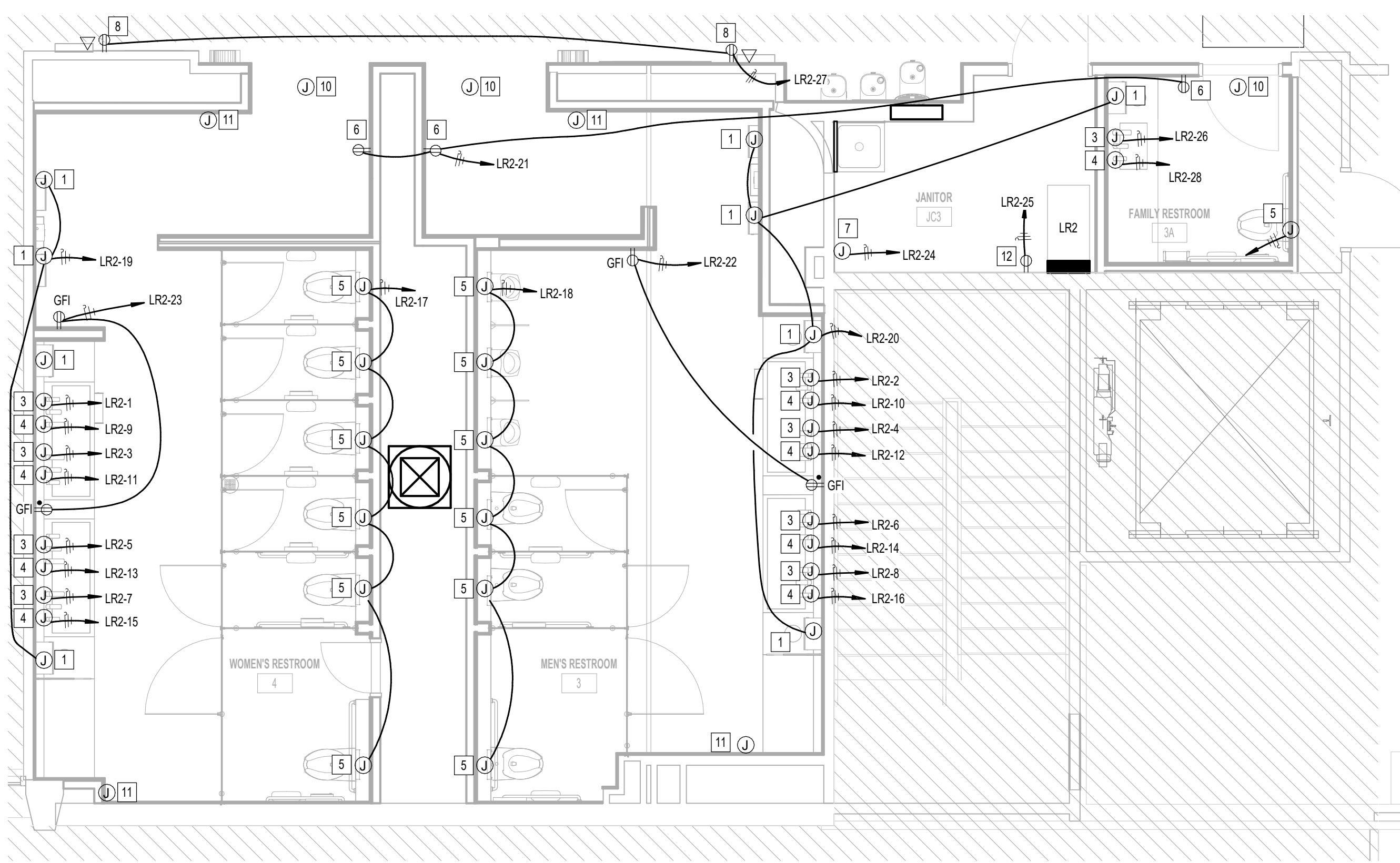


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SHEET No. EP-101 SCALE: 1/4" = 1'-0"

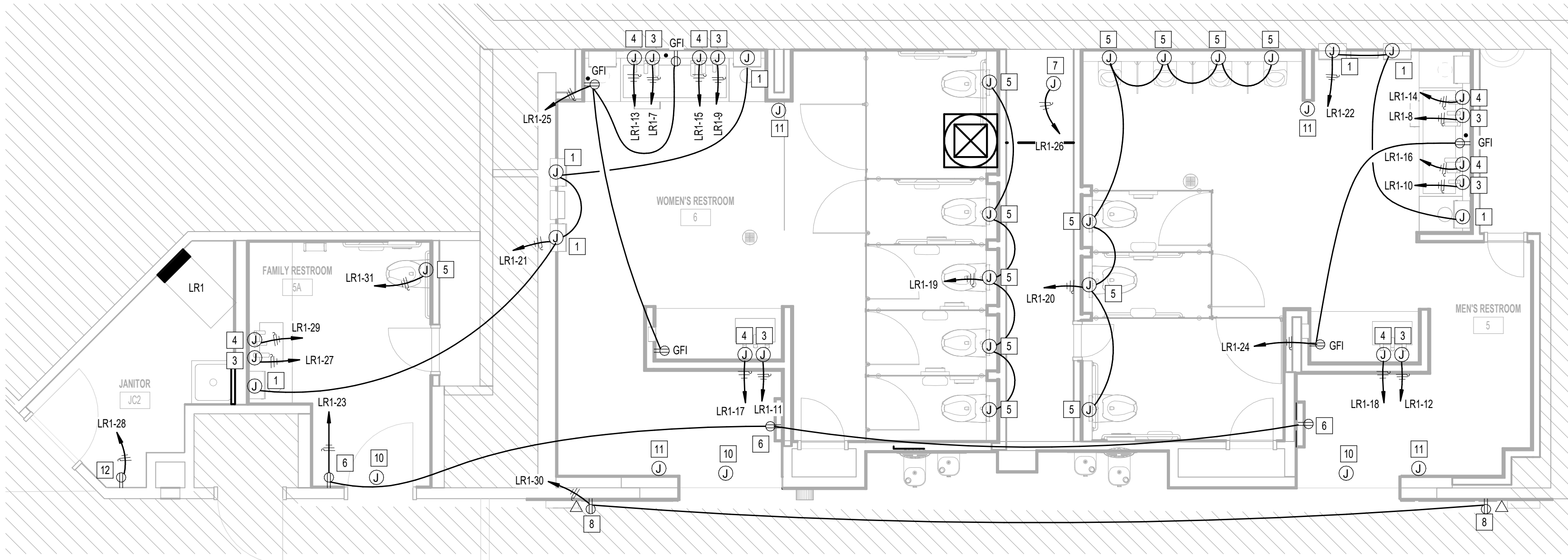
SHEET SIZE: 30"x42" ARCH E1



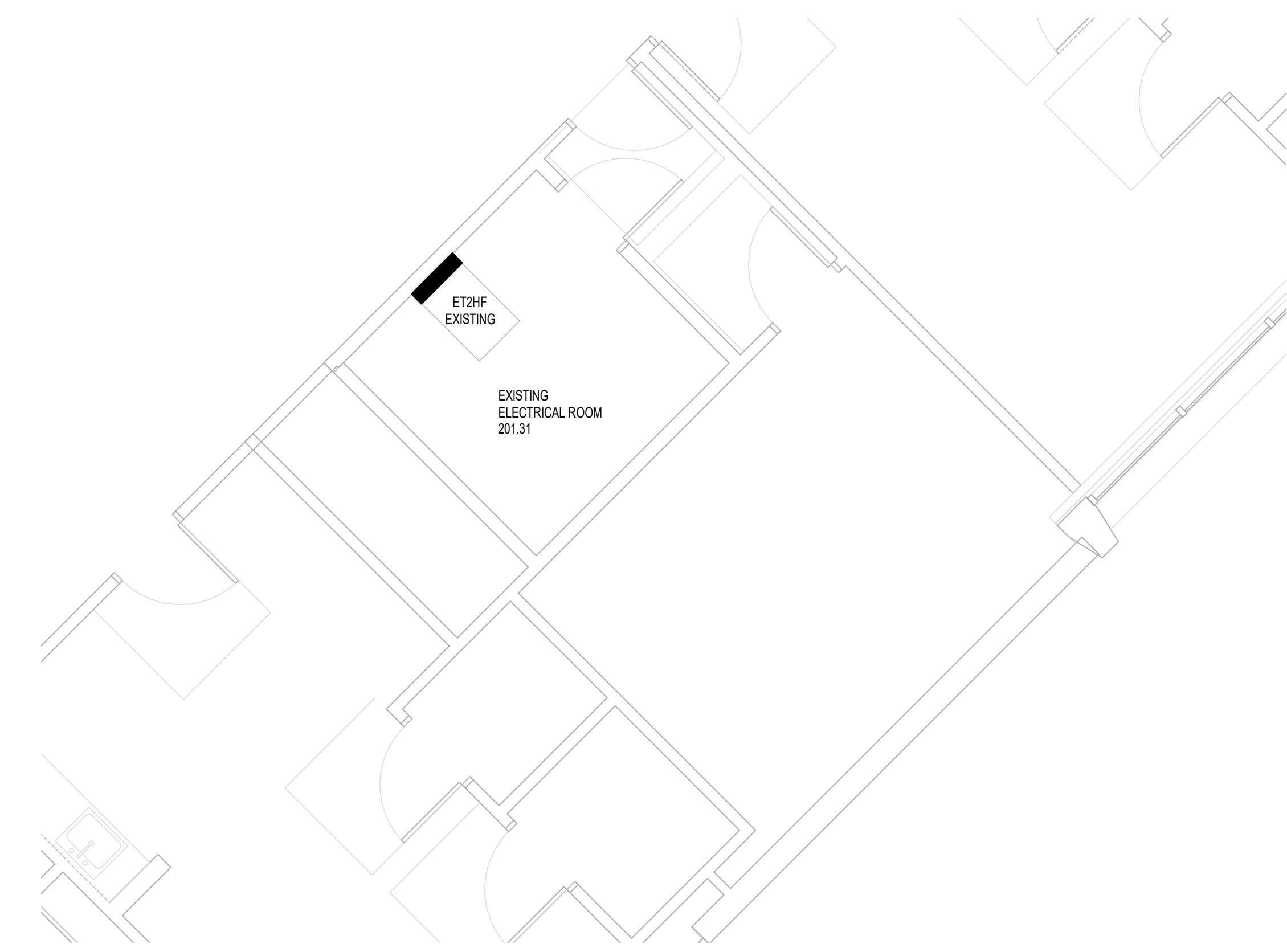
3 ELECTRICAL POWER PLAN - RESTROOM GATE 58-59  
1/4" = 1'-0"



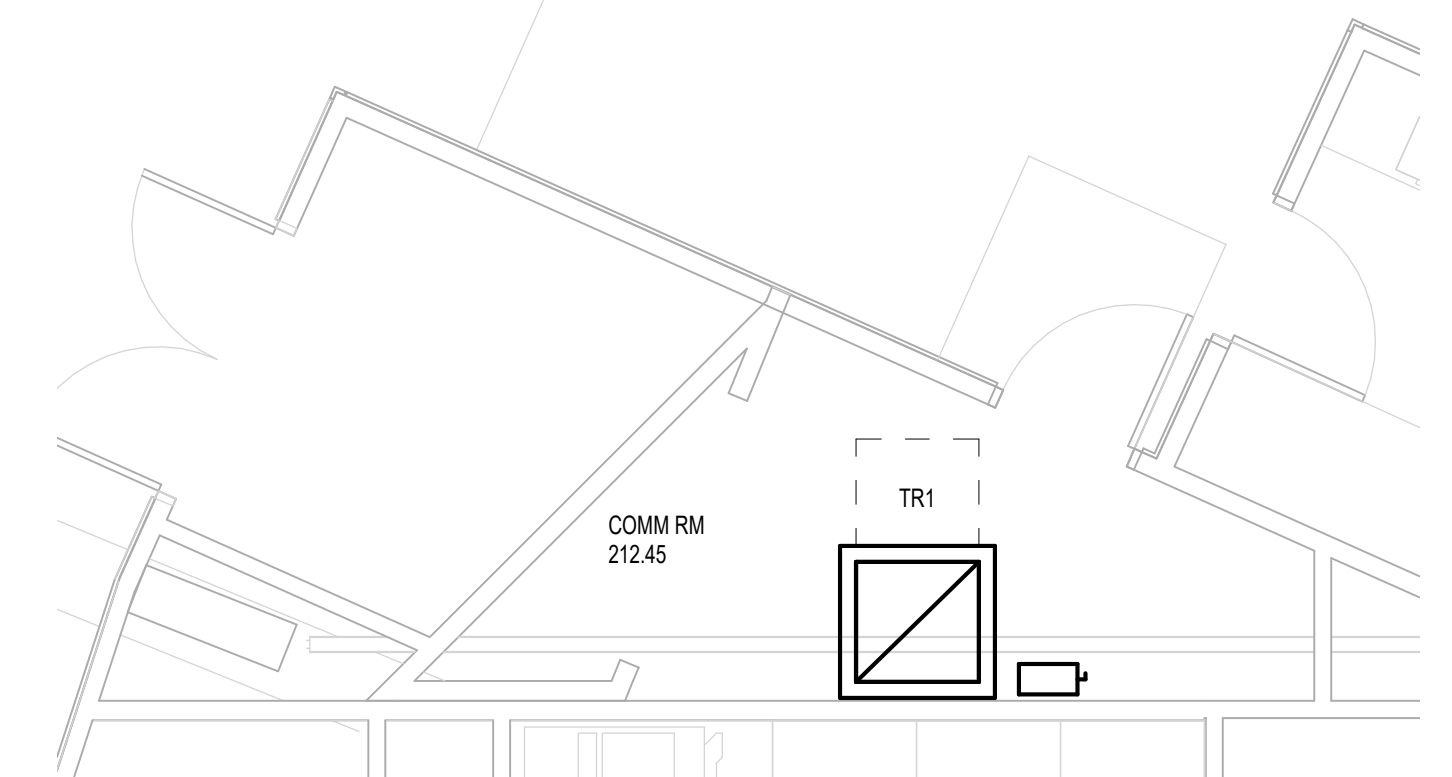
2 ELECTRICAL POWER PLAN - RESTROOM GATE 3-4  
1/4" = 1'-0"



1 ELECTRICAL POWER PLAN - RESTROOM GATE 5-6  
1/4" = 1'-0"



4 ELECTRICAL POWER PLAN - ELECTRICAL ROOM 201.31  
1/4" = 1'-0"



5 ELECTRICAL POWER PLAN - COMM RM 212.45  
1/4" = 1'-0"

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FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/4884\_MEP\_HobbyRestroomRenovationPH3\_R21.rvt  
HAS FILE:

PLOT DATE:

A B C D E

### BRANCH PANEL: ET2HF EXISTING

LOCATION: SUPPLY FROM: MOUNTING: SURFACE ENCLOSURE: Type 1

VOLTS: 480/277 Vye  
PHASES: 3  
WIRES: 4

A.I.C. RATING:  
MAINS TYPE: MCB  
MAINS RATING: 400 A  
MCB RATING: 300 A

NOTES:

CKT	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES	A	B	C	POLES	TRIP	WIRE	CIRCUIT DESCRIPTION	CKT
1	EXISTING VAV-7, VAV-4	--	20 A	3	1267 VA 1467 VA	1267.. 1467..	1267 VA 1467 VA	--	--	--	EXISTING VAV-2, VAV-3	2
3	--	--	--	--	--	--	--	--	--	--	--	4
5	--	--	--	--	--	--	--	--	--	--	--	6
7	EXISTING VAV-1	--	20 A	3	1467 VA 867 VA	1467.. 867 VA	1467 VA 867 VA	3	20 A	--	EXISTING VAV-2, VAV-3	8
9	--	--	--	--	--	--	--	--	--	--	--	10
11	--	--	--	--	--	--	--	--	--	--	--	12
13	EXISTING VAV-4	--	20 A	3	1633 VA 1467 VA	1633.. 1467..	1633 VA 1467 VA	3	20 A	--	EXISTING VAV-5, VAV-6	14
15	--	--	--	--	--	--	--	--	--	--	--	16
17	--	--	--	--	--	--	--	--	--	--	--	18
19	XFMR TR1, PANEL TR1 *	--	125 A	3	20120.. 3600 VA	15840.. 3600..	14560.. 3600 VA	3	20 A	--	EXISTING ACUWET-201	20
21	--	--	--	--	--	--	--	--	--	--	--	22
23	--	--	--	--	--	--	--	--	--	--	--	24
25	EXISTING PANEL ET2HF	--	100 A	3	3400 VA 15000..	3400.. 15000..	3400 VA 15000..	3	70 A	--	EXISTING XFMR ET2TF	26
27	--	--	--	--	--	--	--	--	--	--	--	28
29	--	--	--	--	--	--	--	--	--	--	--	30
31	EXISTING LEVEL 3 LIGHTS	--	20 A	1	512 VA 2566 VA			1	20 A	--	EXISTING LEVEL 2 LIGHTS	32
33	EXISTING LEVEL 2 LIGHTS	--	20 A	1	1280.. 2250..			1	20 A	--	EXISTING LEVEL 2 LIGHTS	34
35	Spare	--	20 A	1			0 VA 2600 VA	1	20 A	--	EXISTING VAV-6, VAV-7	36
37	EXISTING LEVEL 2 LIGHTS	--	20 A	1	512 VA 2690 VA			1	20 A	--	EXISTING LEVEL 2 LIGHTS	38
39	EXISTING LEVEL 2 LIGHTS	--	20 A	1	2690.. 2690..			1	20 A	--	EXISTING LEVEL 2 LIGHTS	40
41	Spare	--	20 A	1			0 VA 1088 VA	1	20 A	--	EXISTING LEVEL 2 LIGHTS	42
					TOTAL LOAD:	56567 VA	54917 VA	48415 VA				
					TOTAL AMPS:	208 A	202 A	175 A				

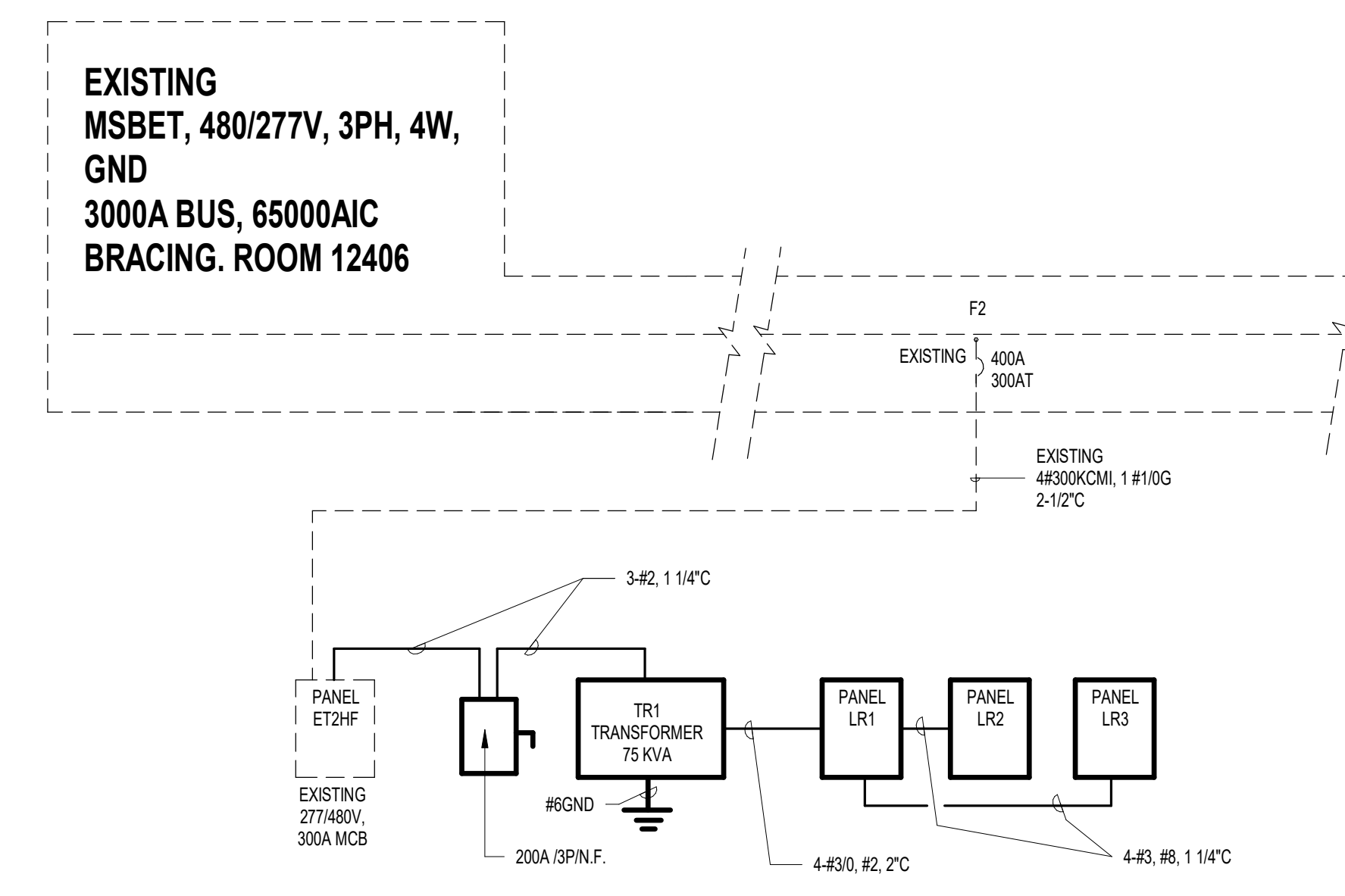
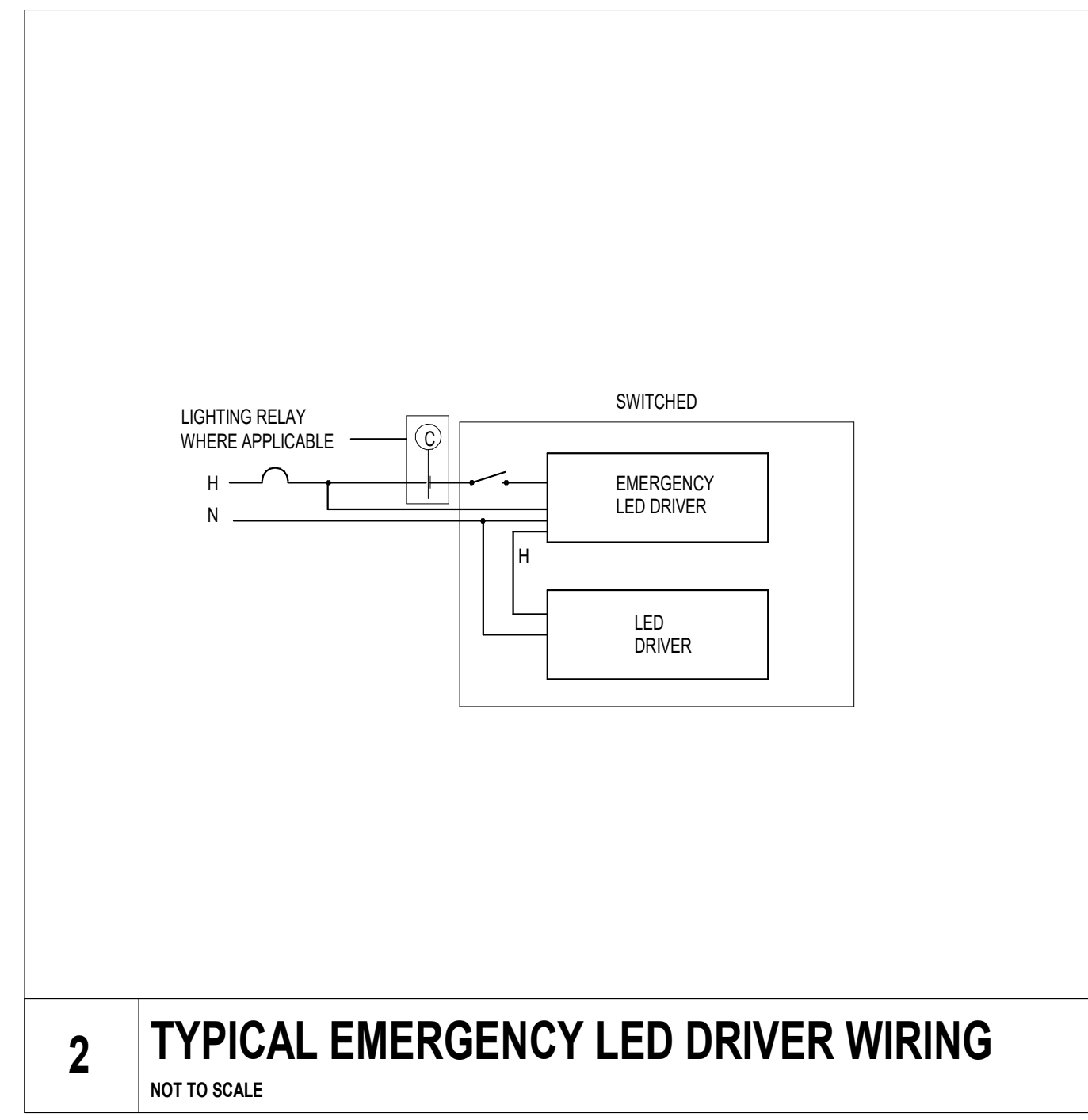
LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
HVAC	37900 VA	100.00%	37900 VA	
Lighting	16278 VA	125.00%	20348 VA	TOTAL CONN. LOAD: 159898 VA
Power	99300 VA	100.00%	99300 VA	TOTAL EST. DEMAND: 163968 VA
Receptacle	6420 VA	100.00%	6420 VA	TOTAL CONN.: 192 A
				TOTAL EST. DEMAND: 197 A

NOTES:  
\* - REPLACE EXISTING 3P-20A SPARE WITH NEW 3P-125A BREAKER  
DID NOT EXCEED PANEL CAPACITY OF 300 AMPS

### 90\_Lighting Fixture Schedule

Mark	Description	Mounting	Lamps/ Watts	Type	Volts	Lens	Remarks
A	LITHONIA ICOLX LED L48 5000LM SEP RDL WD MVOLT G210 40K 80CRI	PEND/SURF	37.9	LED	MVOLT		
B	LITHONIA HEPANL 2x24000LM 80CRI 40K ZT MVOLT	RECESSED	31	LED	277		
L1	FOCAL POINT #FL6D-20LED-L45-RD-T	RECESSED	24.1	LED	MVOLT		
L1E	FOCAL POINT #FL6D-20LED-L45-RD-T	RECESSED	24.1	LED	MVOLT		
L2	MARK #FNL-2FT-4D-N-40K-AD-277-CF-N100EMG-DPL	RECESSED	12	LED	277		
L3	MARK #FNL-3FT-4D-N-40K-AD-277-CF-N100EMG-DPL	RECESSED	18	LED	277		COORDINATE THE LENGTH OF THE FIXTURE TO ILLUMINATE THE FULL LENGTH OF THE COVE.
L5	MARK #SL4L-XXFT-RL-XX-80CRI-40K-800LMF-MIN10-277-ZT	RECESSED	104	LED	MVOLT		COORDINATE THE LENGTH OF THE FIXTURE TO ILLUMINATE THE FULL LENGTH OF THE COVE.
L6	MARK #SL4L-XXFT-RL-XX-80CRI-40K-800LMF-MIN10-277-ZT	RECESSED	64	LED	MVOLT		COORDINATE THE LENGTH OF THE FIXTURE TO ILLUMINATE THE FULL LENGTH OF THE COVE.
L7	MARK #SL4L-XXFT-RL-XX-80CRI-40K-800LMF-MIN10-277-ZT	RECESSED	88	LED	MVOLT		COORDINATE THE LENGTH OF THE FIXTURE TO ILLUMINATE THE FULL LENGTH OF THE COVE.
L8	MARK #SL4L-XXFT-RL-XX-80CRI-40K-800LMF-MIN10-277-ZT	RECESSED	96	LED	MVOLT		COORDINATE THE LENGTH OF THE FIXTURE TO ILLUMINATE THE FULL LENGTH OF THE COVE.
L9	MARK #SL4L-XXFT-RL-XX-80CRI-40K-800LMF-MIN10-277-ZT	RECESSED	168	LED	MVOLT		COORDINATE THE LENGTH OF THE FIXTURE TO ILLUMINATE THE FULL LENGTH OF THE COVE.
L10	MARK #SL4L-XXFT-RL-XX-80CRI-40K-800LMF-MIN10-277-ZT	RECESSED	144	LED	MVOLT		COORDINATE THE LENGTH OF THE FIXTURE TO ILLUMINATE THE FULL LENGTH OF THE COVE.



### Load Analysis

	Connect	Factor	Demand	A Amps	B Amps	C Amps	N Amps
Measured Load Panel ET2HF (*1.25%)	74.7	1.25	93.4	112.4	112.4	112.4	112.4
<b>New Equipment</b>							
Receptacles	6.4	1.00	6.4	7.7	7.7	7.7	7.7
MISC	44.1	1.00	44.1	53.1	53.1	53.1	53.1
<b>New Load Added</b>	<b>50.5</b>		<b>50.5</b>	<b>60.8</b>	<b>60.8</b>	<b>60.8</b>	<b>60.8</b>
<b>Total</b>	<b>125.3</b>		<b>143.9</b>	<b>173.2</b>	<b>173.2</b>	<b>173.2</b>	<b>173.2</b>

DID NOT EXCEED PANEL CAPACITY OF 300AMPS  
277/480V, 3 PHASE, 4 WIRE SERVICE

7800 Airport Blvd  
Houston, TX 77061

**HAS HOBBY AIRPORT RESTROOMS  
PHASE 3**

C.I.P. No. PN209B A.I.P. No.  
C.O.H. No. D.O.A. No.

**RDLR Architects**  
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121  
Houston, TX 77003 www.rdlr.com

**JONES ENGINEERS, L.P.**  
Consulting Mechanical/Electrical/Plumbing Engineers  
9830 Whitburn Dr., Houston, Texas 77066 (713)222-7766  
Texas Registered Engineering Firm #F-3811

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DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	30% CD	10.28.22	JE
2	95% CD	12.09.22	JE

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DESIGN BY: JE  
DRAWN BY: JE  
CHECKED BY: JE  
ISSUE DATE: 01/25/2023  
APPROVED BY: CURT JONES  
APPROVAL DATE: 01/25/2023

**DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM**

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Review/Approval Category: IFC  
ISSUED FOR REVIEW

JE#4884  
01/25/2023  
THE SEAL APPEARING ON THIS DOCUMENT WAS  
AUTHORIZED BY N. CURTIS JONES, JR., P.E. 58428

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SHEET NAME: ELECTRICAL DETAILS  
SHEET No. E-301 SCALE: 12" = 1'-0"  
SHEET SIZE: 30"x42" ARCH E1

A B C D E



7800 Airport Blvd  
Houston, TX 77061

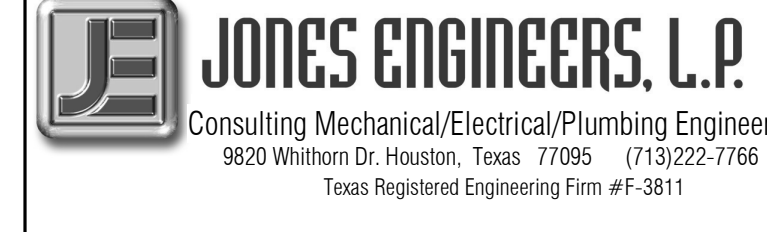
### HAS HOBBY AIRPORT RESTROOMS PHASE 3

C.I.P. No.	PN209B	A.I.P. No.	
C.O.H. No.		D.O.A. No.	

## RDLR Architects

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Consulting Mechanical/Electrical/Plumbing Engineers  
9830 Whitburn Dr., Houston, Texas 77066 (713)922-7766  
Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.: 1429.15

PROJECT STATUS: CONSTRUCTION DOCUMENTS

#### REVISIONS

No.	DESCRIPTION	DATE	BY
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DESIGN BY: Designer  
DRAWN BY: Author  
CHECKED BY: Checker

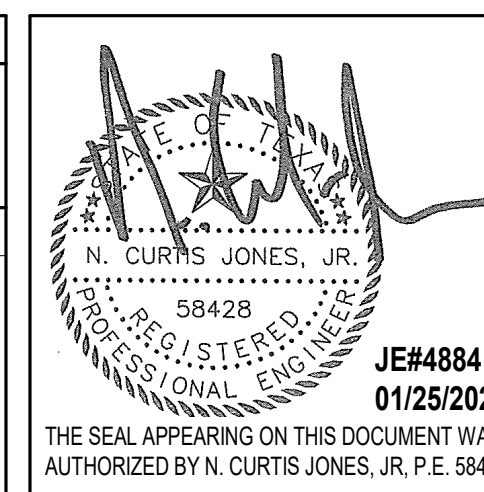
ISSUE DATE: 01/25/2023  
APPROVED BY: Approver  
APPROVAL DATE: 01/25/2023

#### DIRECTOR of HOUSTON AIRPORT SYSTEM

Review/Approval Category



ISSUED FOR REVIEW



JEA4884  
01/25/2023  
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR. P.E. 58428

SHEET NAME: ELECTRICAL DETAILS

SHEET No.	E-302	SCALE:	
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SHEET SIZE: 30"x42" ARCH E1

**BRANCH PANEL: LR3**  
LOCATION: JANITOR JC1  
SUPPLY FROM: LR1  
MOUNTING: SURFACE  
ENCLOSURE: TYPE 1  
VOLTS: 120/208 Wye  
PHASES: 3  
WIRES: 4  
A.I.C. RATING:  
MANS TYPE: MCB  
MANS RATING: 100 A  
MCB RATING:

NOTES:

CKT	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES	A	B	C	POLES	TRIP	WIRE	CIRCUIT DESCRIPTION	CKT	
1	HAND DRYER MENS RR 59	#12	20 A	1	1000	1000 VA		1	20 A	#12	HAND DRYER WOMENS RR 58	2	
3	HAND DRYER MENS RR 59	#12	20 A	1		1000 VA 1000 VA		1	20 A	#12	HAND DRYER WOMENS RR 58	4	
5	HAND DRYER MENS RR 59	#12	20 A	1			1000 VA 1000	1	20 A	#12	HAND DRYER WOMENS RR 58	6	
7	HAND DRYER MENS RR 59	#12	20 A	1	1000	1000 VA		1	20 A	#12	HAND DRYER WOMENS RR 58	8	
9	HAND DRYER MENS RR 59	#12	20 A	1		1000 VA 1000 VA		1	20 A	#12	HAND DRYER WOMENS RR 58	10	
11	SOAPWATER FAUCET SENSOR MENS RR 59	#12	20 A	1			180 VA 180	1	20 A	#12	SOAPWATER FAUCET SENSOR WOMENS RR 58	12	
13	SOAPWATER FAUCET SENSOR MENS RR 59	#12	20 A	1	180	180 VA		1	20 A	#12	SOAPWATER FAUCET SENSOR WOMENS RR 58	14	
15	SOAPWATER FAUCET SENSOR MENS RR 59	#12	20 A	1		180 VA 180 VA		1	20 A	#12	SOAPWATER FAUCET SENSOR WOMENS RR 58	16	
17	SOAPWATER FAUCET SENSOR MENS RR 59	#12	20 A	1			180 VA 180	1	20 A	#12	SOAPWATER FAUCET SENSOR WOMENS RR 58	18	
19	SOAPWATER FAUCET SENSOR MENS RR 59	#12	20 A	1	180	180 VA		1	20 A	#12	SOAPWATER FAUCET SENSOR WOMENS RR 58	20	
21	TOILET / URINAL SENSOR MENS RR 59	#12	20 A	1		900 VA 540 VA		1	20 A	#12	TOILET / URINAL SENSOR WOMENS RR 58	22	
23	TOILET / URINAL SENSOR MENS RR 59	#12	20 A	1			1360 VA 720	1	20 A	#12	TOILET / URINAL SENSOR WOMENS RR 58	24	
25	PAPER TOWEL DISPENSER MENS RR 59	#12	20 A	1	720	900 VA		1	20 A	#12	PAPER TOWEL DISPENSER WOMENS RR 58/58A	26	
27	RECEPTACLE SMART TABLET MENS RR 59	#12	20 A	1		180 VA 360 VA		1	20 A	#12	RECEPTACLE SMART TABLET WOMENS RR 58/58A	28	
29	RECEPTACES 58/59	#12	20 A	1			360 VA 180	1	20 A	#12	HAND DRYER FAMILY RR 58A	30	
31	RECEPTACES 59	#12	20 A	1	180	180 VA		1	20 A	#12	SOAPWATER FAUCET SENSOR FAMILY RR 58	32	
33	RECEPTACLE FLAT PANEL DISPLAY	#12	20 A	1		360 VA 180 VA		1	20 A	#12	STALL OCCUPANCY LIGHTS 58/59	34	
35	SPARE	--	20 A	1			0 VA 180	1	20 A	#12	RECEPTACES 58	36	
37	SPARE	--	20 A	1	0 VA	--		1	--	--	SPACE	38	
39	SPARE	--	20 A	1		0 VA	--	1	--	--	SPACE	40	
41	SPARE	--	20 A	1			0 VA	--	1	--	SPACE	42	
<b>TOTAL LOAD:</b>					6700 VA	6880 VA	5520 VA						
<b>TOTAL AMPS:</b>					57 A	59 A	46 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Power	17480 VA	100.00%	17480 VA	<b>TOTAL CONN. LOAD:</b> 19100 VA
Receptacle	1620 VA	100.00%	1620 VA	<b>TOTAL EST. DEMAND:</b> 19100 VA
				<b>TOTAL CONN.:</b> 53 A
				<b>TOTAL EST. DEMAND:</b> 53 A

NOTES:

**BRANCH PANEL: LR1**  
LOCATION: JANITOR JC2  
SUPPLY FROM: TR1  
MOUNTING: SURFACE  
ENCLOSURE: TYPE 1  
VOLTS: 120/208 Wye  
PHASES: 3  
WIRES: 4  
A.I.C. RATING:  
MANS TYPE: MCB  
MANS RATING: 200 A  
MCB RATING:

NOTES:

CKT	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES	A	B	C	POLES	TRIP	WIRE	CIRCUIT DESCRIPTION	CKT	
1	PANEL LR2	--			100 A 3	8000	6700 VA				PANEL LR3	2	
3		--				4160 VA 6880 VA						4	
5		--					5240 VA 5520					6	
7	HAND DRYER WOMENS RR 6	#12	20 A	1	1000	1000 VA		1	20 A	#12	HAND DRYER MENS RR 5	8	
9	HAND DRYER WOMENS RR 6	#12	20 A	1		1000 VA 1000 VA		1	20 A	#12	HAND DRYER MENS RR 5	10	
11	HAND DRYER WOMENS RR 6	#12	20 A	1			1000 VA 1000	1	20 A	#12	HAND DRYER MENS RR 5	12	
13	SOAPWATER FAUCET SENSOR WOMENS RR 6	#12	20 A	1	180	180 VA		1	20 A	#12	SOAPWATER FAUCET SENSOR MENS RR 5	14	
15	SOAPWATER FAUCET SENSOR WOMENS RR 6	#12	20 A	1		180 VA 180 VA		1	20 A	#12	SOAPWATER FAUCET SENSOR MENS RR 5	16	
17	SOAPWATER FAUCET SENSOR WOMENS RR 6	#12	20 A	1			180 VA 180	1	20 A	#12	SOAPWATER FAUCET SENSOR MENS RR 5	18	
19	TOILET / URINAL SENSOR WOMENS RR 6	#12	20 A	1	900	1260 VA		1	20 A	#12	TOILET / URINAL SENSOR WOMENS RR 5	20	
21	PAPER TOWEL DISPENSER WOMENS RR 6	#12	20 A	1		720 VA 540 VA		1	20 A	#12	PAPER TOWEL DISPENSER MENS RR 5	22	
23	RECEPTACLE SMART TABLET RR 58/5A	#12	20 A	1			540 VA 360	1	20 A	#12	RECEPTACES 5	24	
25	RECEPTACES 6	#12	20 A	1	540	180 VA		1	20 A	#12	STALL OCCUPANCY LIGHTS 58	26	
27	HAND DRYER FAMILY RR 5A	#12	20 A	1		1000 VA 180 VA		1	20 A	#12	RECEPTACLE TECH. RACK JC2	28	
29	SOAPWATER FAUCET SENSOR FAMILY RR 5A	#12	20 A	1			180 VA 360	1	20 A	#12	RECEPTACLE FLAT PANEL DISPLAY	30	
31	TOILET / URINAL SENSOR FAMILY RR 5A	#12	20 A	1	180	0 VA		1	20 A	--	SPARE	32	
33	SPARE	--	20 A	1			0 VA 0 VA	1	20 A	--	SPARE	34	
35	SPARE	--	20 A	1				0 VA 0 VA	1	20 A	--	SPARE	36
37	SPARE	--	20 A	1	--	--		1	--	--	SPACE	38	
39	SPARE	--	20 A	1	--	--		1	--	--	SPACE	40	
41	SPARE	--	20 A	1	--	--		1	--	--	SPACE	42	
<b>TOTAL LOAD:</b>					20120 VA	15840 VA	14560 VA						
<b>TOTAL AMPS:</b>					169 A	134 A	121 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Power	44100 VA	100.00%	44100 VA	<b>TOTAL CONN. LOAD:</b> 50520 VA
Receptacle	6420 VA	100.00%	6420 VA	<b>TOTAL EST. DEMAND:</b> 50520 VA
				<b>TOTAL CONN.:</b> 140 A
				<b>TOTAL EST. DEMAND:</b> 140 A

NOTES:

**BRANCH PANEL: LR2**  
LOCATION: JANITOR JC3  
SUPPLY FROM: JR1  
MOUNTING: SURFACE  
ENCLOSURE: TYPE 1  
VOLTS: 120/208 Wye  
PHASES: 3  
WIRES: 4  
A.I.C. RATING:  
MANS TYPE: MLO  
MANS RATING: 100 A  
MCB RATING:

NOTES:

CKT	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES	A	B	C	POLES	TRIP	WIRE	CIRCUIT DESCRIPTION	CKT	
1	HAND DRYER WOMENS RR 4	#12	20 A	1	1000	1000 VA		1	20 A	#12	HAND DRYER MENS RR 3	2	
3	HAND DRYER WOMENS RR 4	#12	20 A	1		1000 VA 1000 VA		1	20 A	#12	HAND DRYER MENS RR 3	4	
5	HAND DRYER WOMENS RR 4	#12	20 A	1			1000 VA 1000	1	20 A	#12	HAND DRYER MENS RR 3	6	
7	HAND DRYER WOMENS RR 4	#12	20 A	1	1000	1000 VA		1	20 A	#12	HAND DRYER MENS RR 3	8	
9	SOAPWATER FAUCET SENSOR WOMENS RR 4	#12	20 A	1		180 VA 180 VA		1	20 A	#12	SOAPWATER FAUCET SENSOR MENS RR 3	10	
11	SOAPWATER FAUCET SENSOR WOMENS RR 4	#12	20 A	1			180 VA 180	1	20 A	#12	SOAPWATER FAUCET SENSOR MENS RR 3	12	
13	SOAPWATER FAUCET SENSOR WOMENS RR 4	#12	20 A	1	180	180 VA		1	20 A	#12	SOAPWATER FAUCET SENSOR MENS RR 3	14	
15	SOAPWATER FAUCET SENSOR WOMENS RR 4	#12	20 A	1		180 VA 180 VA		1	20 A	#12	SOAPWATER FAUCET SENSOR MENS RR 3	16	
17	TOILET / URINAL SENSOR WOMENS RR 4	#12	20 A	1			1080 VA 1080	1	20 A	#12	TOILET / URINAL SENSOR MENS RR 3	18	
19	PAPER TOWEL DISPENSER WOMENS RR 4	#12	20 A	1	540	900 VA		1	20 A	#12	PAPER TOWEL DISPENSER MENS RR 3	20	
21	RECEPTACLE SMART TABLET RR 3A/3A	#12	20 A	1		540 VA 360 VA		1	20 A	#12	RECEPTACES 3	22	
23	RECEPTACES 4	#12	20 A	1			360 VA 180	1	20 A	#12	STALL OCCUPANCY LIGHTS 3A	24	
25	RECEPTACLE TECH. RACK JC3	#12	20 A	1	1200	1000 VA		1	20 A	#12	HAND DRYER FAMILY 3A	26	
27	RECEPTACLE FLAT PANEL DISPLAY	#12	20 A	1		360 VA 180 VA		1	20 A	#12	SOAPWATER FAUCET SENSOR FAMILY RR 3A	28	
29	SPARE	--	20 A	1			0 VA 180	1	20 A	#12	TOILET / URINAL SENSOR WOMENS RR 4	30	
31	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	32	
33	SPARE	--	20 A	1			0 VA 0 VA	1	20 A	--	SPARE	34	
35	SPARE	--	20 A	1				0 VA 0 VA	1	20 A	--	SPARE	36
37	SPARE	--	20 A	1	--	--		1	--	--	SPACE	38	
39	SPARE	--	20 A	1	--	--		1	--	--	SPACE	40	
41	SPARE	--	20 A	1	--	--		1	--	--	SPACE	42	
<b>TOTAL LOAD:</b>					8000 VA	4160 VA	5240 VA						
<b>TOTAL AMPS:</b>					68 A	35 A	45 A						

LEGEND:

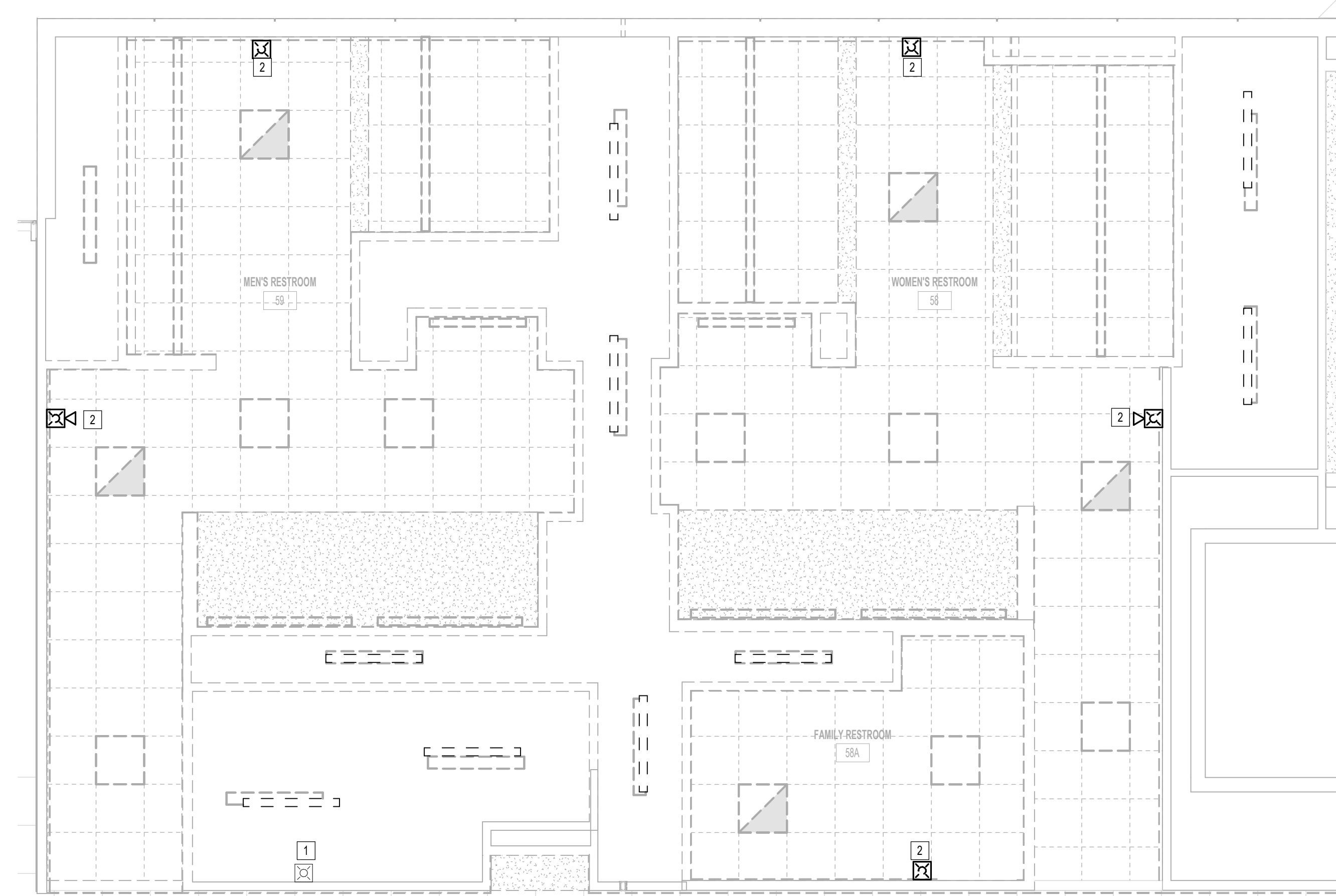
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Power	14580 VA	100.00%	14580 VA	<b>TOTAL CONN. LOAD:</b> 17420 VA
Receptacle	2820 VA	100.00%	2820 VA	<b>TOTAL EST. DEMAND:</b> 17420 VA
				<b>TOTAL CONN.:</b> 48 A
				<b>TOTAL EST. DEMAND:</b> 48 A

NOTES:

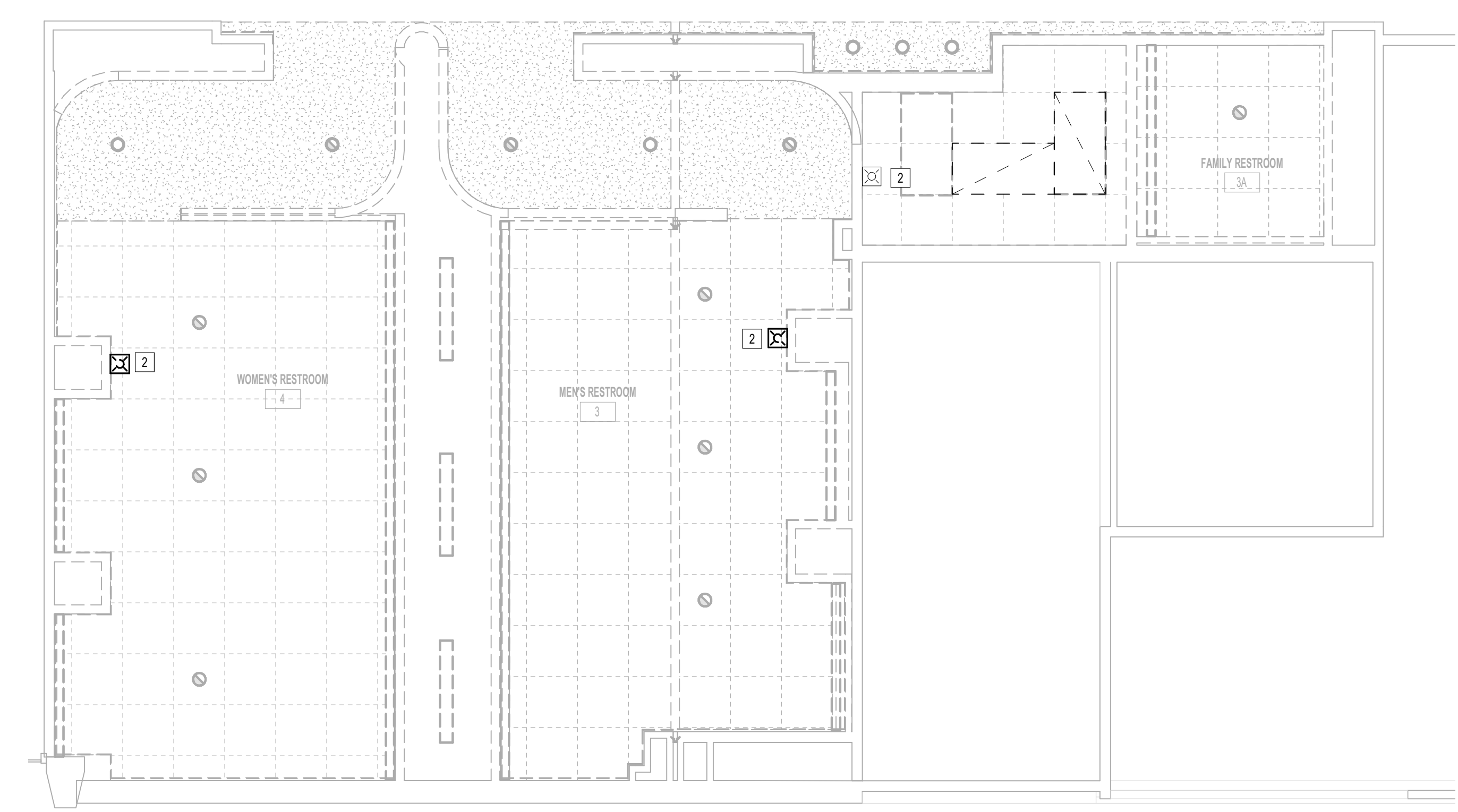
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OLD DOA No. :  
PLOT DATE:

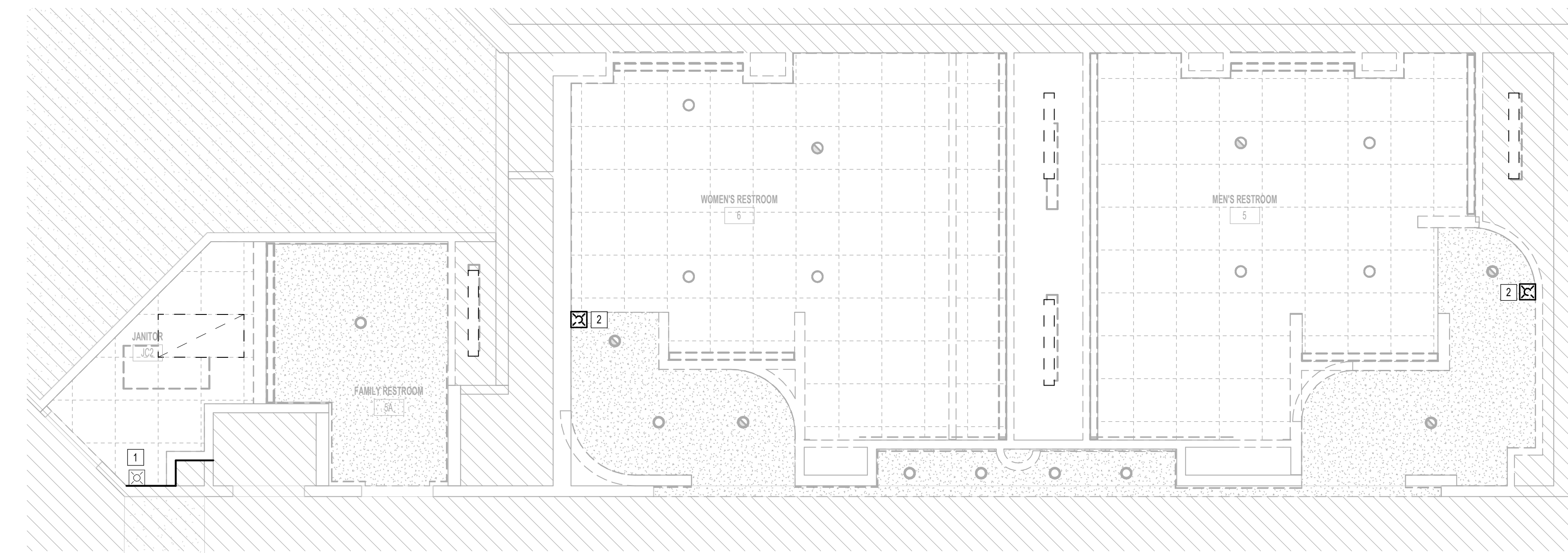
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HAS FILE:



**3 FIRE ALARM DEMO PLAN - RESTROOM GATE 58-59**  
1/4" = 1'-0"



**2 FIRE ALARM DEMO PLAN - RESTROOM GATE 3-4**  
1/4" = 1'-0"



**1 FIRE ALARM DEMO PLAN - RESTROOM GATE 5-6**  
1/4" = 1'-0"

ELECTRICAL KEYED NOTE	
#	KEYNOTE
1	EXISTING FIRE ALARM DEVICE TO REMAIN
2	FIRE ALARM DEVICE TO BE REMOVED



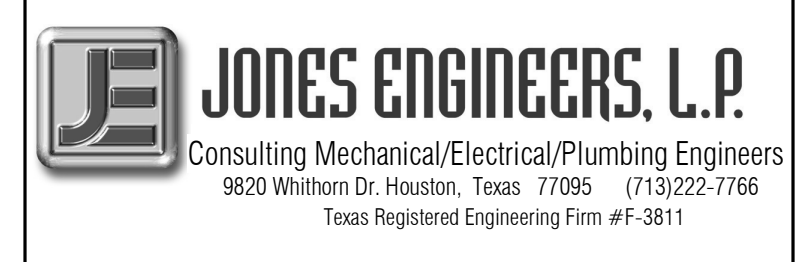
7800 Airport Blvd  
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**HAS HOBBY AIRPORT RESTROOMS  
PHASE 3**

C.I.P. No. PN209B A.I.P. No.  
C.O.H. No. D.O.A No.

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DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	30% CD	10.28.22	JE
2	95% CD	12.09.22	JE
3	IFC	01.25.2023	JE

DESIGN BY: JE  
DRAWN BY: JE  
CHECKED BY: JE  
ISSUE DATE: 01/25/2023  
APPROVED BY: CURT JONES  
APPROVAL DATE: 01/25/2023

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JE#4884  
01/25/2023  
THE SEAL APPEARING ON THIS DOCUMENT WAS  
AUTHORIZED BY N. CURTIS JONES, JR. P.E. 58428

SHEET NAME: FIRE ALARM DEMO ENLARGED PLANS  
SHEET No. FAD-101 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1



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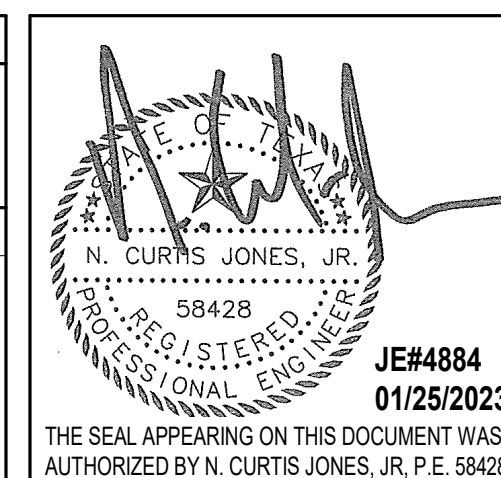
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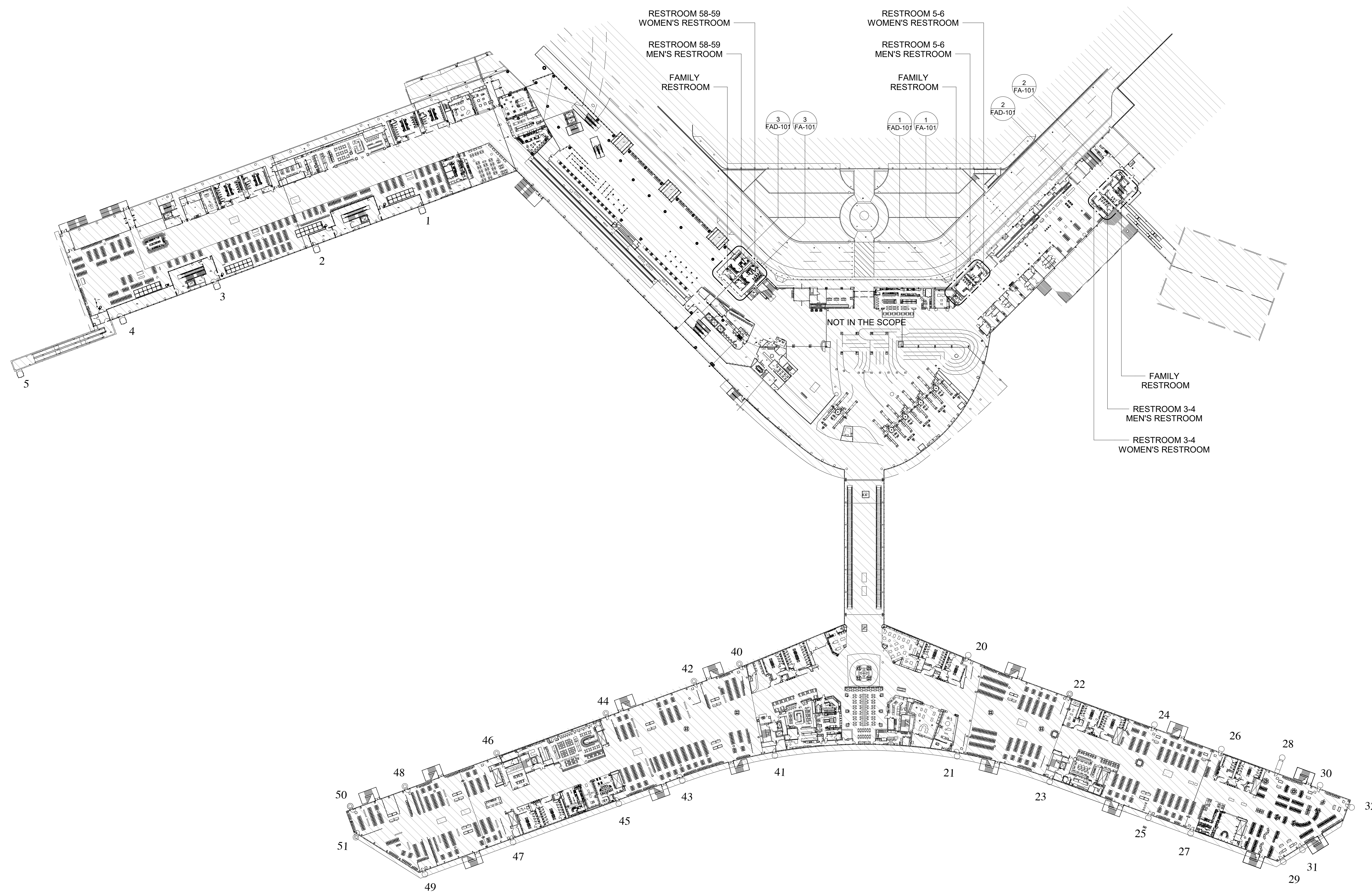
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SHEET NAME: FIRE ALARM OVERALL PLAN - LEVEL 2

SHEET No. FA-100 SCALE: 1/64" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1



# 1 FIRE ALARM OVERALL PLAN - LEVEL 2

1/64" = 1'-0"

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/4884 MEP\_HobbyRestroomRenovationPH3\_R21.rvt  
HAS FILE:  
PLOT DATE:  
DOA DWG FILE:  
OLD DOA No.:



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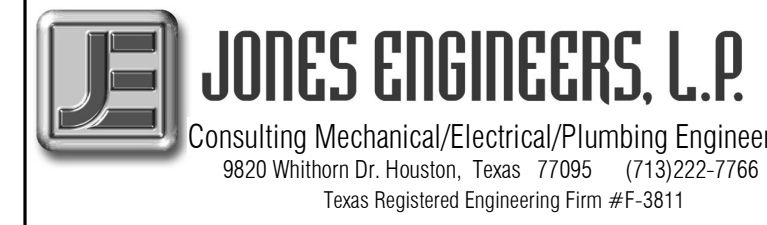
### HAS HOBBY AIRPORT RESTROOMS PHASE 3

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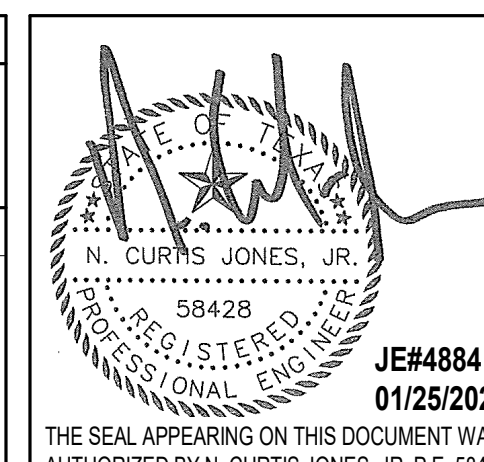
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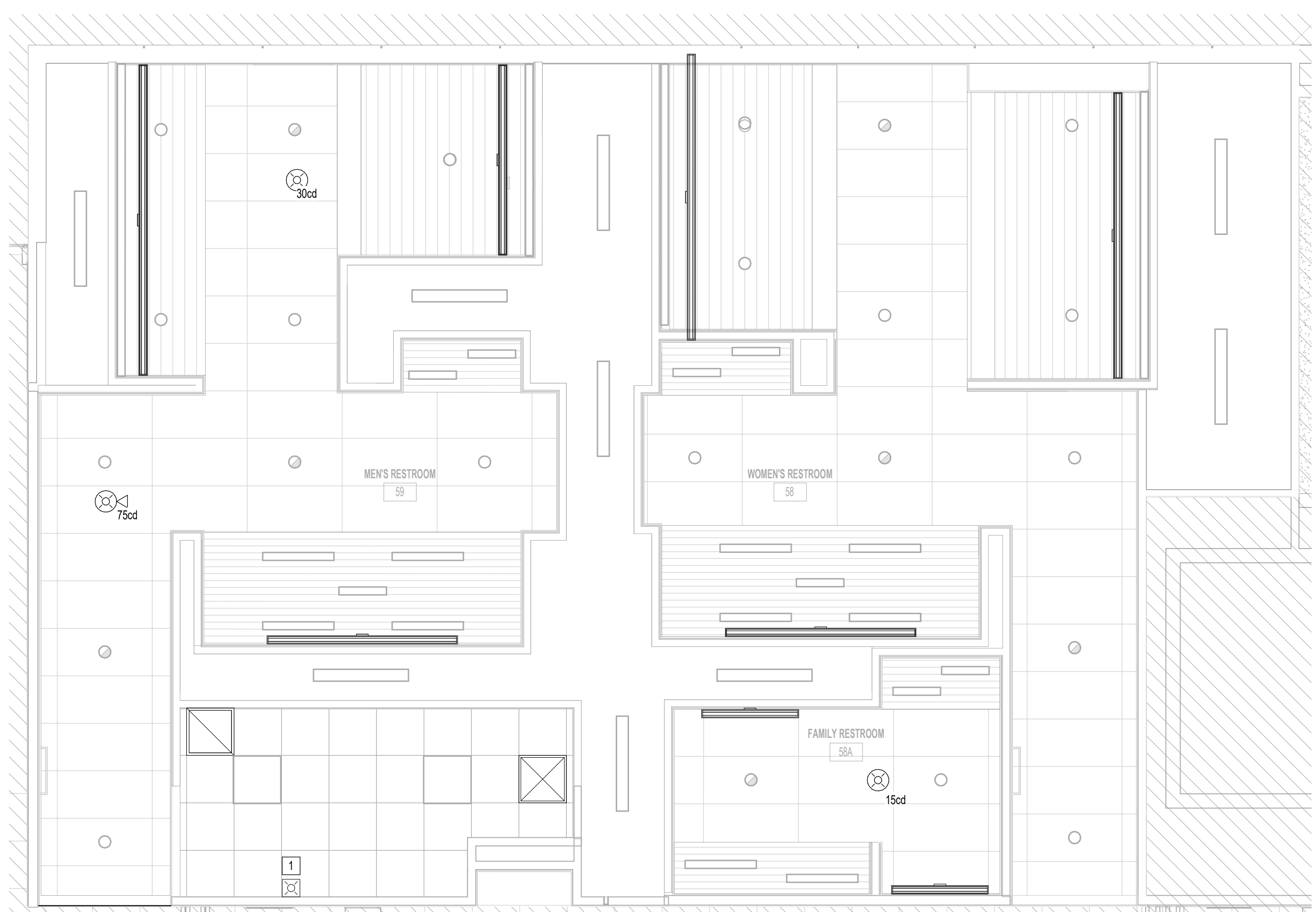


SHEET NAME: FIRE ALARM ENLARGED PLANS

SHEET No. FA-101 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

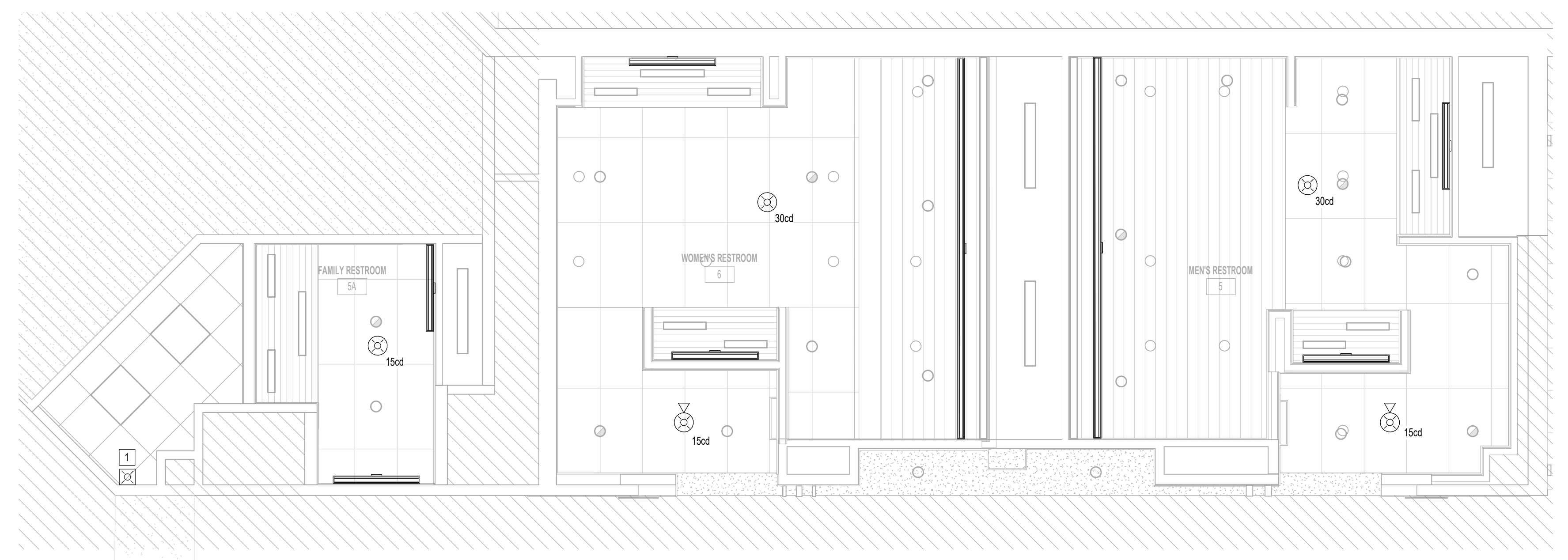
#	KEYNOTE
1	EXISTING FIRE ALARM DEVICE TO REMAIN



**3 FIRE ALARM PLAN - RESTROOM GATE 58-59**  
1/4" = 1'-0"



**2 FIRE ALARM PLAN - RESTROOM GATE 3-4**  
1/4" = 1'-0"

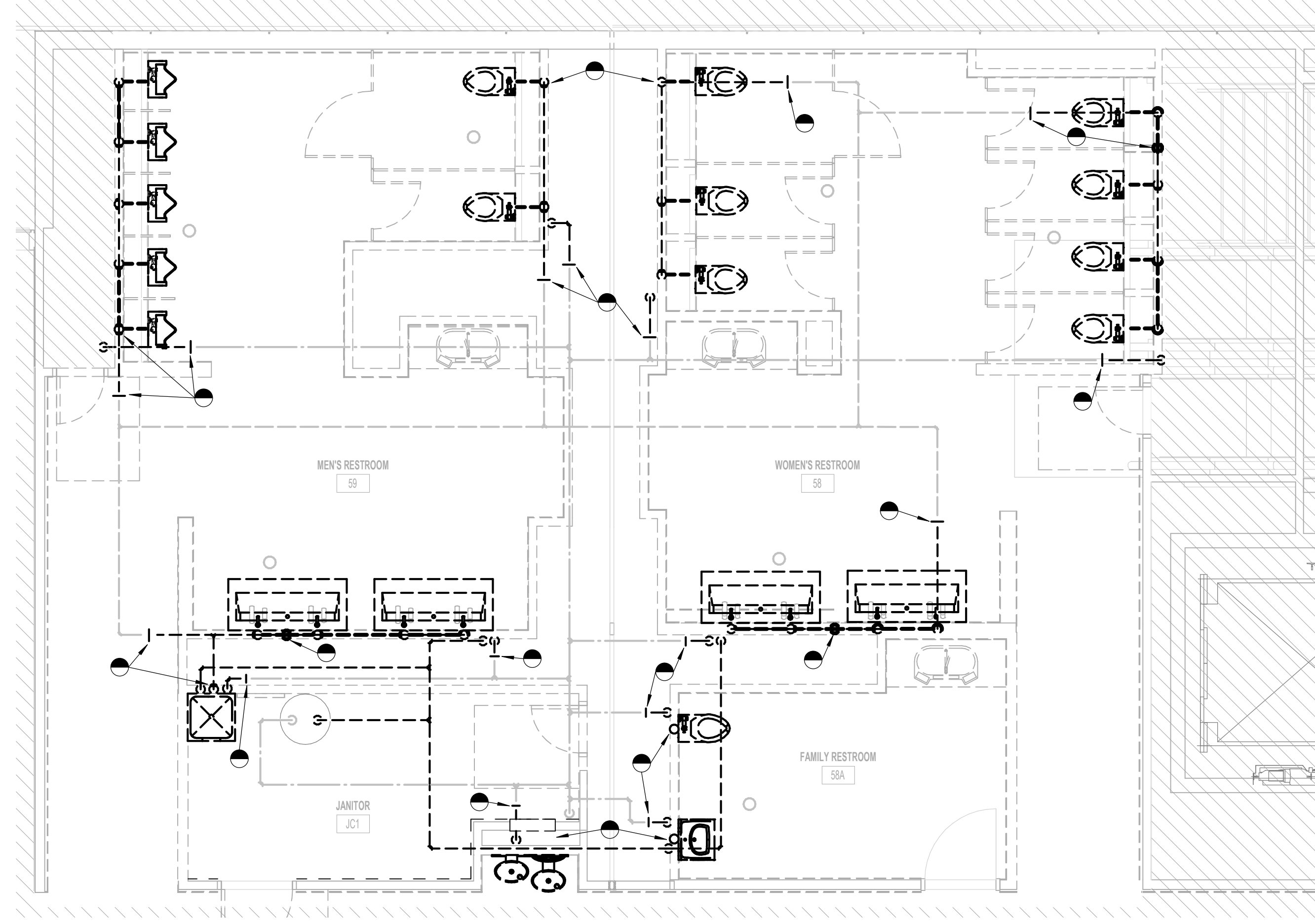


**1 FIRE ALARM PLAN - RESTROOM GATE 5-6**  
1/4" = 1'-0"

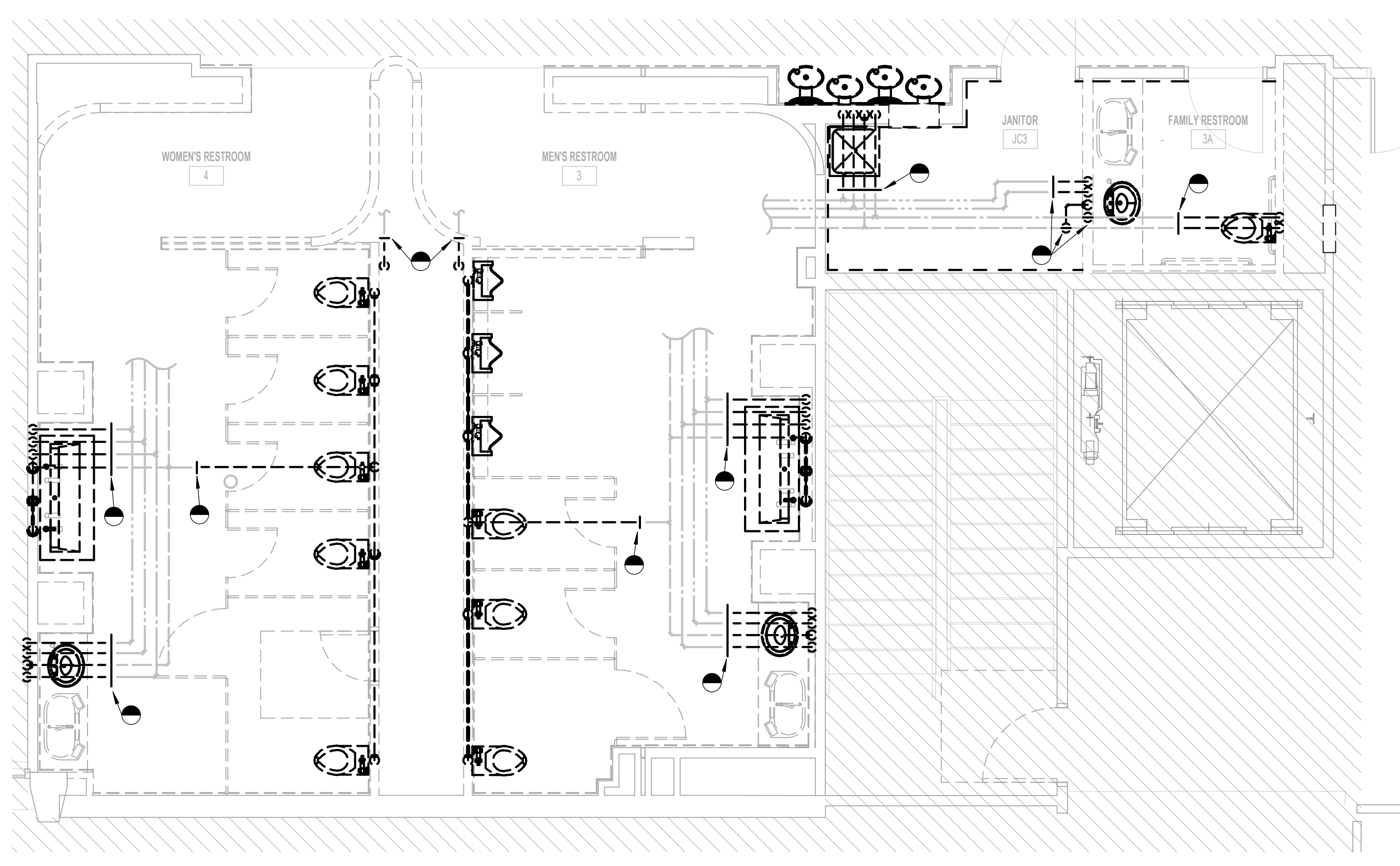
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DOA DWG FILE:  
OLD DOA No.:

PLOT DATE:  
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PLOT DATE:

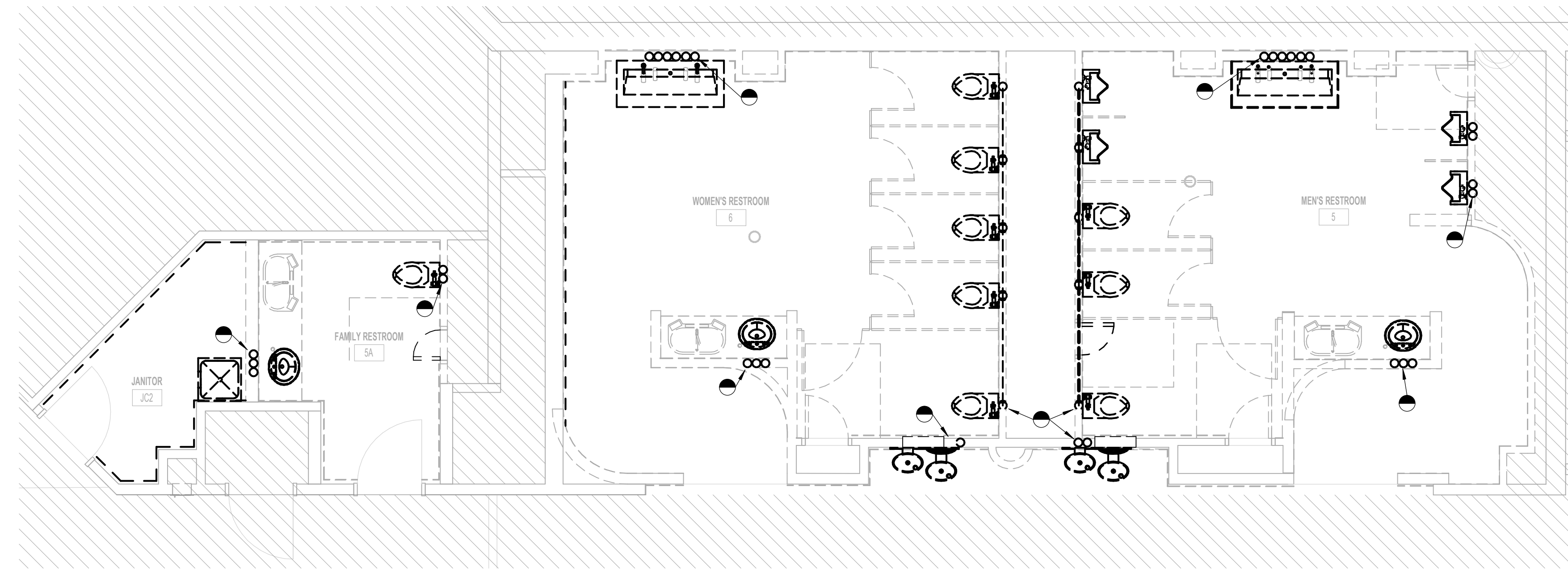
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HAS FILE:



**3 PLUMBING DEMO PLAN - RESTROOM GATE 58-59**  
1/4" = 1'-0"



**2 PLUMBING DEMO PLAN - RESTROOM GATE 3-4**  
1/4" = 1'-0"



**1 PLUMBING DEMO PLAN - RESTROOM GATE 5-6**  
1/4" = 1'-0"

**GENERAL NOTE:**  
BUILDING TO BE 100%  
SPRINKLERED, PER NFPA 13.

**PLUMBING DEMO GENERAL NOTES:**

1. LAVATORY FAUCET HOT WATER SUPPLY MUST BE WITHIN THE DISTANCE ALLOWED IN IECC, SECTION C404.5.1.
2. DISCONNECT & REMOVE ALL EXISTING PLUMBING FIXTURES IN RESTROOMS, INCLUDING BUT NOT LIMITED TO: FIXTURE, TRIM, FLUSH VALVE, CARRIER, P-TRAP, WASTE, VENT, & WATER PIPING, HANGERS, SUPPORTS, SPECIALTIES, ETC. COORDINATE WITH HAS MAINTENANCE PARTS REMOVAL SO HAS CAN DECIDE TO DISCARD AND/OR STORE ANY EXTRA PARTS, SUCH AS HARDWARE PLUMBING FIXTURES, ETC. TO ALLOW HAS MAINTENANCE TO KEEP PARTS FOR FUTURE REPAIRS.
3. CORE/SAW CUT FLOOR AS REQUIRED.
4. REMOVE EXISTING DWV AND DHW BACK TO VALVE LOCATED WITHIN THE CHASE.
5. REMOVE AND CAP EXISTING SANITARY WASTE AND VENT BACK TO SLAB BELOW AND SLAB ABOVE.
6. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD.



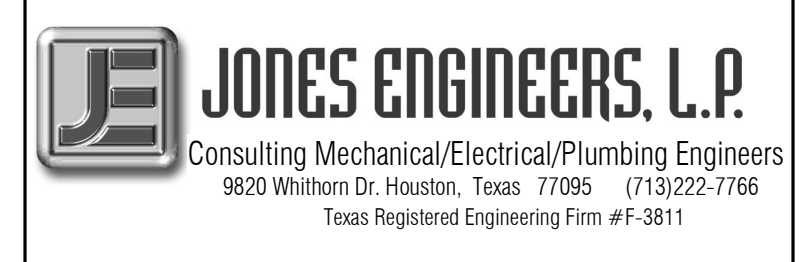
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PHASE 3

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DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
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APPROVAL DATE: 01/25/2023

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ISSUED FOR REVIEW

JE#4884  
01/25/2023  
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR. P.E. 58428

SHEET NAME: PLUMBING DEMO ENLARGED PLANS  
SHEET No. PD-101 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No. :  
PLOT DATE:

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/4884\_MEP\_HobbyRestroomRenovationPH3\_R21.rvt

HAS FILE:

ABBREVIATIONS

Table of abbreviations with columns A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z. Includes entries like AIR (COMPRESSED), ABOVE, AIR CONDITIONING, etc.

F (Cont)

Continuation of abbreviations table for letters F through Z.

P (Cont)

Continuation of abbreviations table for letters P through Z.

PIPING TYPES

Table of piping types with symbols and descriptions: SANITARY DRAIN BELOW FLOOR, SANITARY DRAIN ABOVE FLOOR (NOTED), SANITARY VENT, etc.

PIPING SYMBOLS

Table of piping symbols with symbols and descriptions: ELBOW UP, ELBOW DOWN, VALVE IN DROP, etc.

MISCELLANEOUS

Table of miscellaneous symbols with symbols and descriptions: FLOOR DRAIN, FLOOR SINK, ROOF DRAIN OR OVERFLOW DRAIN, etc.



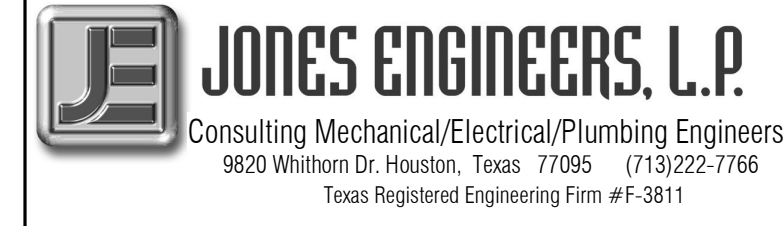
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Table with columns C.I.P. No., A.I.P. No., C.O.H. No., D.O.A. No.

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9830 Whittier Dr., Houston, Texas 77066 (713)222-7766  
Texas Registered Engineering Firm #F-3811

Table with columns DESIGNER PROJECT No., PROJECT STATUS, DOCUMENTS.

REVISIONS

Table of revisions with columns No., DESCRIPTION, DATE, BY.

Table with columns DESIGN BY, DRAWN BY, CHECKED BY, ISSUE DATE, APPROVED BY, APPROVAL DATE.

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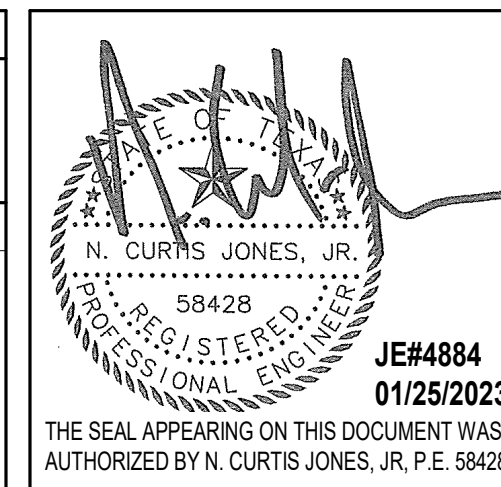
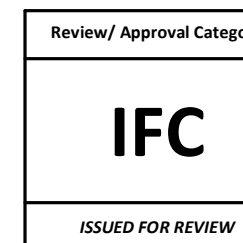


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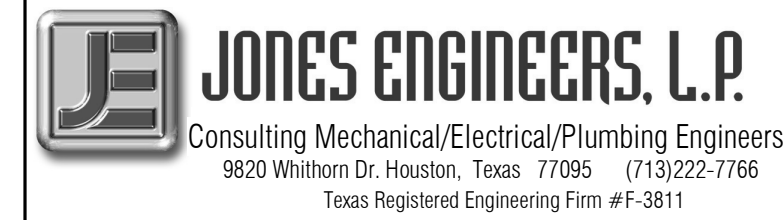
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Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

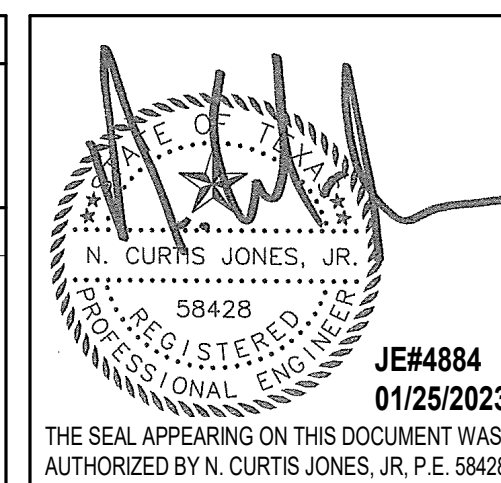
No.	DESCRIPTION	DATE	BY
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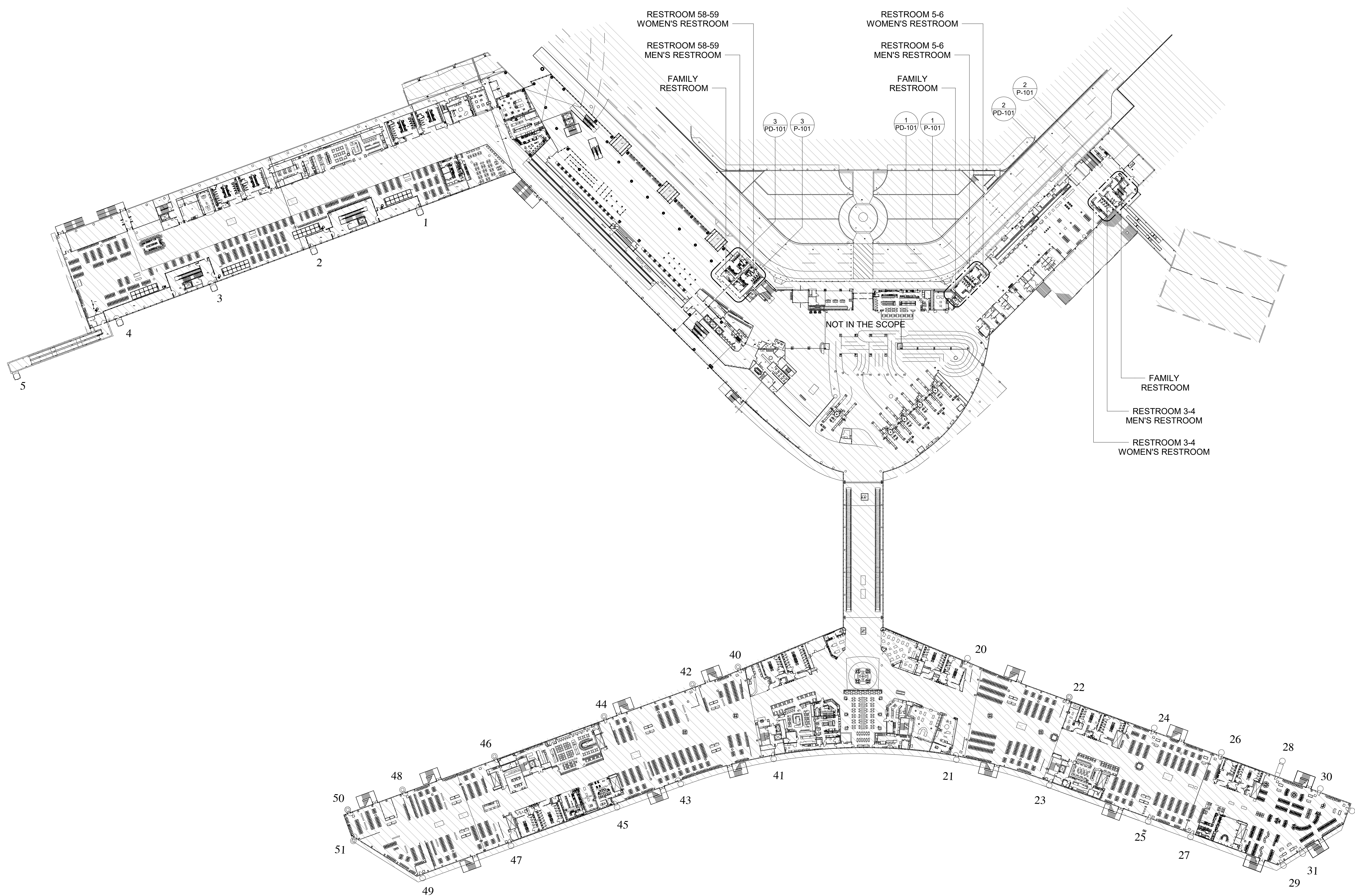


SHEET NAME: PLUMBING OVERALL PLAN - LEVEL 2

SHEET No. P-100 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

**GENERAL NOTE:**  
BUILDING TO BE 100%  
SPRINKLERED, PER NFPA 13.

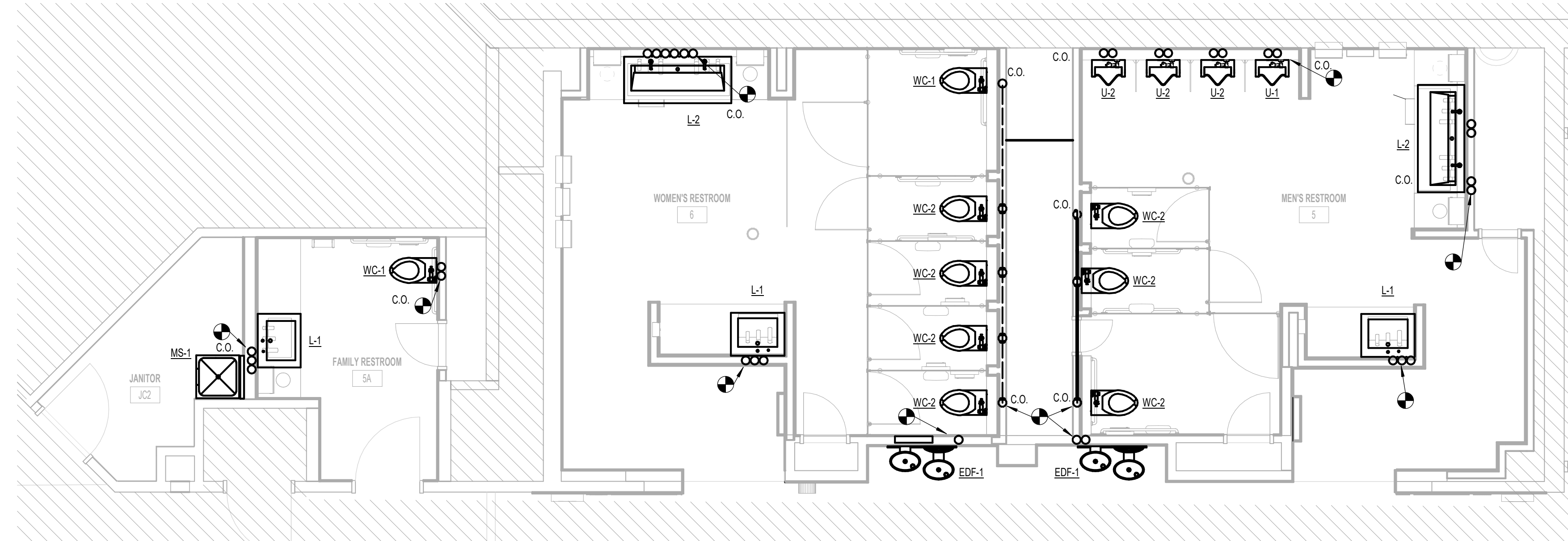


**1 PLUMBING OVERALL PLAN - LEVEL 2**  
1/8" = 1'-0"

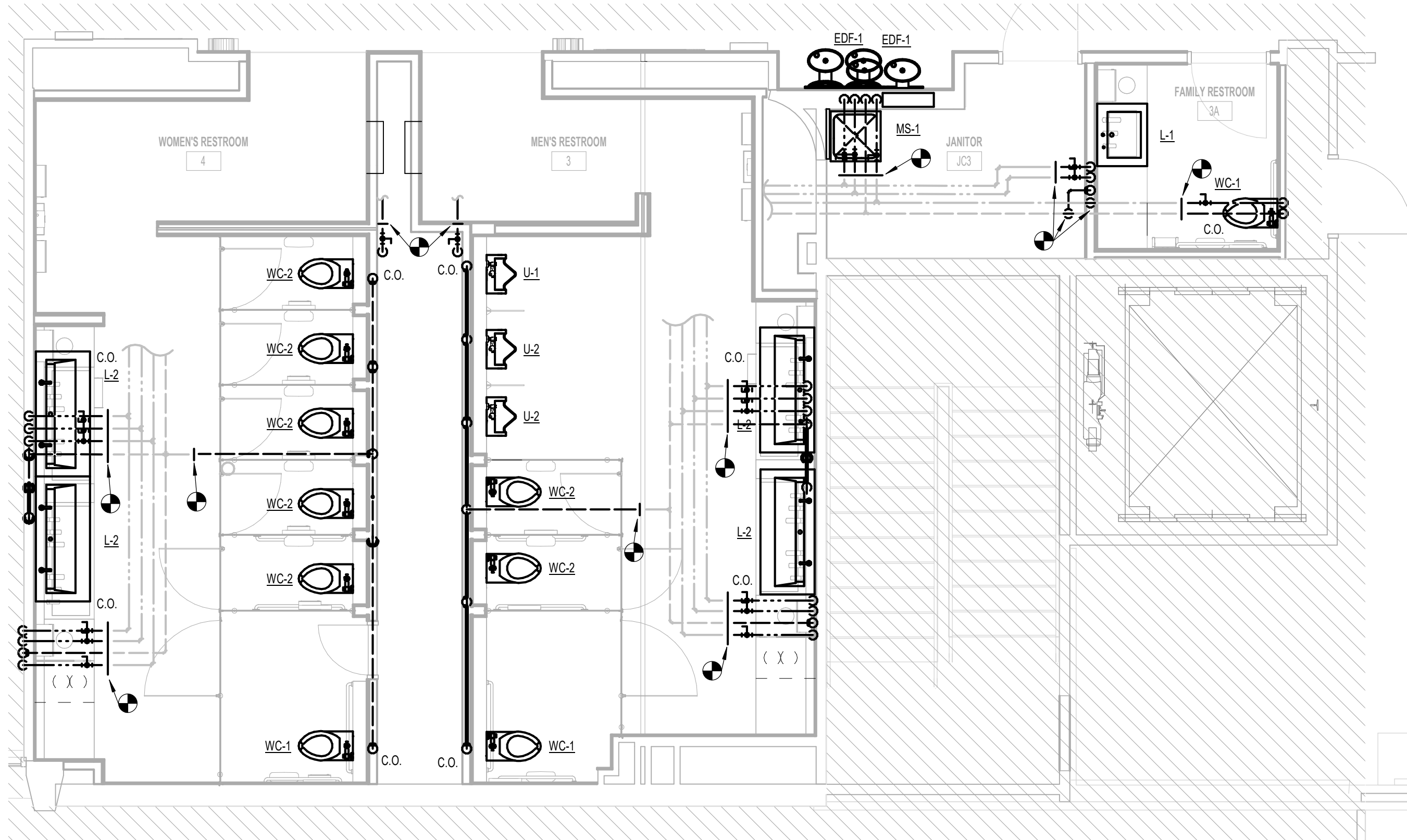
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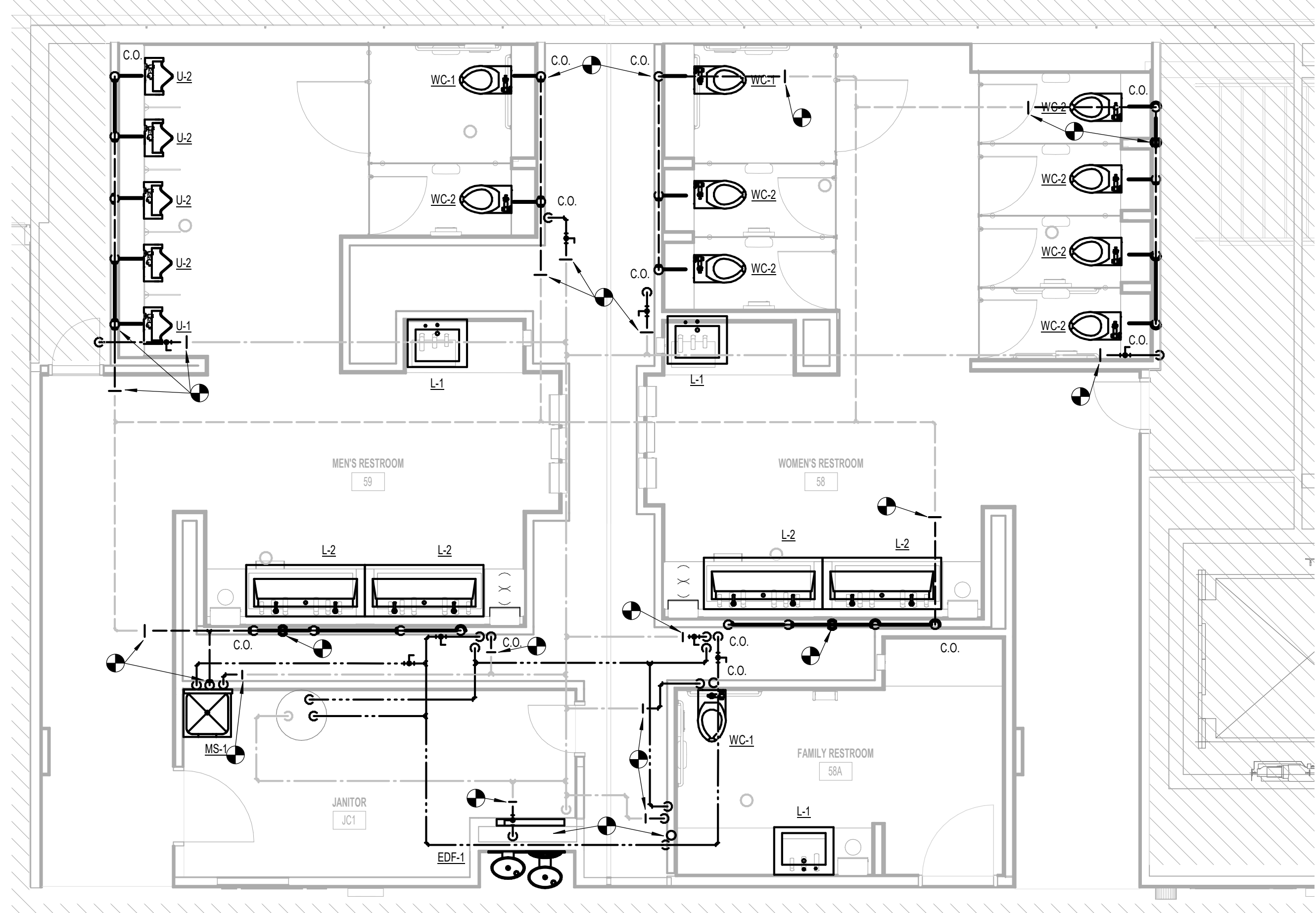
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**1** PLUMBING PLAN - RESTROOM GATE 5-6  
1/4" = 1'-0"



**2** PLUMBING PLAN - RESTROOM GATE 3-4  
1/4" = 1'-0"



**3** PLUMBING PLAN - RESTROOM GATE 58-59  
1/4" = 1'-0"

**GENERAL NOTE:**  
BUILDING TO BE 100%  
SPRINKLERED, PER NFPA 13.

- PLUMBING GENERAL NOTES:**
1. PROVIDE NEW PLUMBING FIXTURES ACCORDING TO SCHEDULE.
  2. LAVATORY FAUCET HOT WATER SUPPLY MUST BE WITHIN THE DISTANCE ALLOWED IN IECC, SECTION C404.5.1.
  3. PROVIDE NEW LAVATORIES AND DRINKING FOUNTAINS. ROUTE ALL NEW 2" SANITARY WASTE & VENT AND 3/4" DOW, DHW, & DHWR PIPING AS REQUIRED AND PROVIDE ANY ADDITIONAL PIPING & FITTINGS NOT SHOWN FOR CONNECTION TO EXISTING.
  4. PROVIDE NEW MOP SINK. ROUTE ALL NEW 4" SANITARY WASTE & VENT AND 3/4" DOMESTIC WATER PIPING AS REQUIRED AND PROVIDE ANY ADDITIONAL PIPING & FITTINGS NOT SHOWN FOR CONNECTION TO EXISTING.
  5. PROVIDE NEW WATER CLOSETS AND URINALS. ROUTE ALL NEW 4" SANITARY WASTE & VENT AND 1/2" DOMESTIC WATER PIPING AS REQUIRED AND PROVIDE ANY ADDITIONAL PIPING & FITTINGS NOT SHOWN FOR CONNECTION TO EXISTING.
  6. PROVIDE NEW CLEAN OUTS IN EASILY ACCESSIBLE LOCATIONS AT ENDS OF EACH BATTERY OF FIXTURES.
  7. PROVIDE DOMESTIC WATER ISOLATION VALVES FOR EACH BATTERY OF FIXTURES.
  8. CORE/SAW CUT FLOOR AS REQUIRED.
  9. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD.
  10. HORIZONTAL DOMESTIC WATER LINES FOR WATER CLOSETS TO BE ROUTED ABOVE FLUSH VALVES AND VENT PIPING IN CHASE.



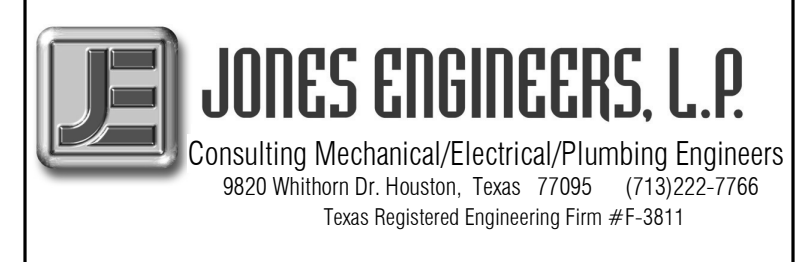
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Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

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APPROVAL DATE: 01/25/2023

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JE#4884  
01/25/2023  
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR., P.E. 58428

SHEET NAME: PLUMBING ENLARGED PLANS  
SHEET No. P-101 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1



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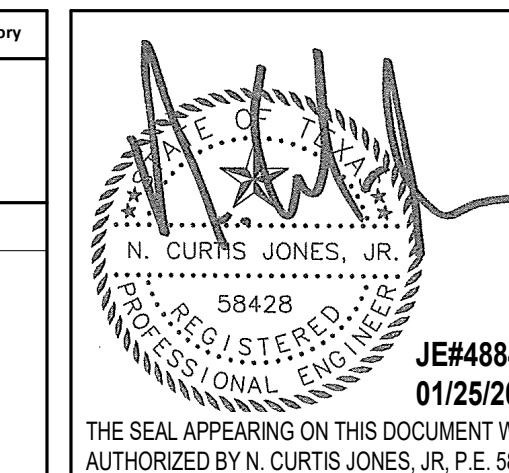
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APPROVAL DATE: 01/25/2023

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SHEET NAME: PLUMBING SCHEDULES AND DETAILS

SHEET No. P-501 SCALE: As indicated

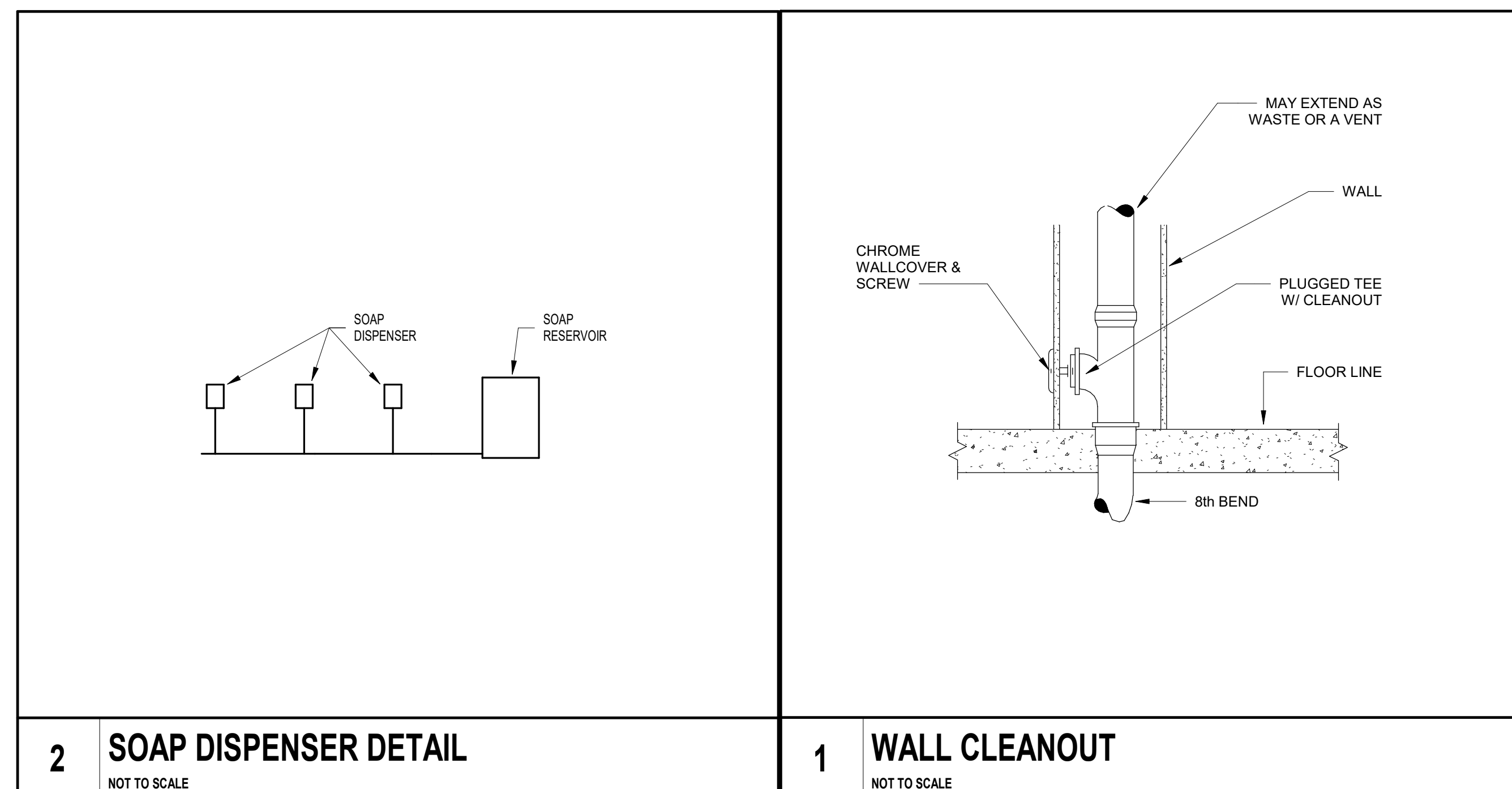
SHEET SIZE: 30"x42" ARCH E1

PLUMBING FIXTURE AND CONNECTION SCHEDULE

MARK	FITTURE	ROUGH-IN CONNECTION SIZE				MANUFACTURER	MODEL	DESCRIPTION AND NOTES
		C.W.	R.W.	VENT	WASTE			
EDF-1	ELECTRIC DRINKING FOUNTAIN					HALSEY TAYLOR	HYDROBOOST HTHB-HRFSEB-1	WALL MOUNTED BI-LEVEL WATER FOUNTAIN WITH BOTTLE FILLING STATION, PUSH-BAR ACTIVATION. BOTTLE FILLER PROVIDES 1.1-1.5 GPM FLOW RATE WITH LAMINAR FLOW TO MINIMIZE SPLASHING. FOR INDOOR APPLICATIONS. AN ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH AUTO 20-SECOND SHUT-OFF TIMER. ANTI-MICROBIAL, 369 CERTIFIED, LEAD-FREE DESIGN, CERTIFIED TO NSF/ANSI 42, 53, 61, & 372 (LEAD-FREE), ADA-COMPLIANT.
L-1	LAVATORY (SINGLE-SYSTEM)					THE SPLASH LAB USA	TSL.MON.C.CUSTOM	BASIN - MONOLITH-A-SERIES MODULAR SINK SYSTEM. TROUGH STYLE WITH SINGULAR DRAINAGE PER USER. COMES COMPLETE WITH POWDER COATED METAL LEG BRACKET SYSTEM FOR WALL MOUNTING. FINISH: CORIAN SOLID SURFACE - ANTARCTICA, ADA COMPLIANT. FAUCET - SPLASH LAB TSL.020.CS.H. RIBBON SENSOR FAUCET - 304 STAINLESS STEEL, STANDARD 0.5GPM FLOW WITH LAMINAR FLOW AERATOR. PROVIDE WITH HARD-WIRED AC POWER SUPPLY OR MULTI-AC ADAPTOR AS REQUIRED. APPURTENANCES - KOHLER K-8998 P-TRAP WITH ADA TRAP PROTECTOR AND KOHLER K-7805-P SINK SUPPLY STOPS WITH FLEXIBLE LAVATORY SUPPLY AND SUPPLY STOP ADA PROTECTORS. ZURN Z8737 FLAT GRID SINK STRAINER. RIBBON SOAP DISPENSER - SPLASH LAB TSL.R.010.CS.H. 304 STAINLESS STEEL WITH FOAM SOAP DISPENSING SYSTEM, 120V SOAP FEED SYSTEM, SMART VERSION - SPLASH LAB TSL.C.040.CS.M MULTI-FEED VERSION, RECOMMENDED FOR UP TO 3 SOAP DISPENSERS IN AIRPORT ENVIRONMENTS. TOP FILL WITH HIGH AND LOW CONTROL, TECHNOLOGY AND SMART RESTROOM INTEGRATION. PROVIDE WITH 1.6 GAL RESERVOIR. HAND DRYER - SPLASH LAB TSL.R.020.CS.H. 304 STAINLESS STEEL.
L-2	LAVATORY (MULTI-SYSTEM)					THE SPLASH LAB USA	TSL.MON.C.CUSTOM	BASIN - MONOLITH-A-SERIES MODULAR SINK SYSTEM. TROUGH STYLE WITH SINGULAR DRAINAGE PER USER. COMES COMPLETE WITH POWDER COATED METAL LEG BRACKET SYSTEM FOR WALL MOUNTING. FINISH: CORIAN SOLID SURFACE - ANTARCTICA, ADA COMPLIANT. FAUCET - SPLASH LAB TSL.020.CS.H. RIBBON SENSOR FAUCET - 304 STAINLESS STEEL, STANDARD 0.5GPM FLOW WITH LAMINAR FLOW AERATOR. PROVIDE WITH HARD-WIRED AC POWER SUPPLY OR MULTI-AC ADAPTOR AS REQUIRED. APPURTENANCES - KOHLER K-8998 P-TRAP WITH ADA TRAP PROTECTOR AND KOHLER K-7805-P SINK SUPPLY STOPS WITH FLEXIBLE LAVATORY SUPPLY AND SUPPLY STOP ADA PROTECTORS. ZURN Z8737 FLAT GRID SINK STRAINER. RIBBON SOAP DISPENSER - SPLASH LAB TSL.R.010.CS.H. 304 STAINLESS STEEL WITH FOAM SOAP DISPENSING SYSTEM, 120V SOAP FEED SYSTEM, SMART VERSION - SPLASH LAB TSL.C.040.CS.M MULTI-FEED VERSION, RECOMMENDED FOR UP TO 3 SOAP DISPENSERS IN AIRPORT ENVIRONMENTS. TOP FILL WITH HIGH AND LOW CONTROL, TECHNOLOGY AND SMART RESTROOM INTEGRATION. PROVIDE WITH 3 GAL RESERVOIR. HAND DRYER - SPLASH LAB TSL.R.020.CS.H. 304 STAINLESS STEEL.
MS-1	SERVICE SINK	3/4"	3/4"	2"	3"	ZURN INDUSTRIES	1996-24	BASIN: FLOOR MOUNTED, 24x24x10 SQUARE, MOP SERVICE BASIN WITH ZURN Z415B DRAIN BODY ASSEMBLY, STAINLESS-STEEL BUMPER GUARD AND STAINLESS-STEEL WALL GUARD. FAUCET: ZURN AQUASPEC Z84300-XL, CHROME PLATED FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. BODY INLETS 8" CENTER TO CENTER, COLD (BLUE) AND HOT (RED) INDICATORS.
U-1	URNAL (ADA)	1-1/2"		2"	4"	TOTO	UT104EV	COTTON WHITE, VITREOUS CHINA, UNIVERSAL, HIGH-EFFICIENCY, LOW CONSUMPTION (0.5 GPF), ELONGATED 14" FLUSHING RIM FROM FINISH WALL, WASHOUT FLUSH ACTION VALVE URINAL, MOUNTED AT ADA HEIGHT. WALL MOUNTED FLUSHOMETER FOR SCENARIOS WITH WALK-IN CHASE, TOTO TETSLA, SATIN FINISH. WALL MOUNTED FLUSHOMETER FOR SCENARIOS WITHOUT WALK-IN CHASE, TOTO TETSLA, SATIN FINISH.
U-2	URNAL	1-1/2"		2"	4"	TOTO	UT104EV	COTTON WHITE, VITREOUS CHINA, UNIVERSAL, HIGH-EFFICIENCY, LOW CONSUMPTION (0.5 GPF), ELONGATED 14" FLUSHING RIM FROM FINISH WALL, WASHOUT FLUSH ACTION VALVE URINAL. WALL MOUNTED FLUSHOMETER FOR SCENARIOS WITH WALK-IN CHASE, TOTO TETSLA, SATIN FINISH. WALL MOUNTED FLUSHOMETER FOR SCENARIOS WITHOUT WALK-IN CHASE, TOTO TETSLA, SATIN FINISH.
WC-1	WATER CLOSET (ADA)	1-1/2"		2"	4"	TOTO	CT708EVG	BOWL: WALL HUNG, WHITE VITREOUS CHINA, TOP-SPUD FLUSHOMETER VALVE, HIGH-EFFICIENCY, LOW CONSUMPTION 1.28 GPF TOILET WITH ELONGATED BOWL, CONDENSATION CHANNEL, CONCEALED DESIGN AND FULLY GLAZED TRAPWAY, ANTIMICROBIAL SURFACE, DIRECT-FED SIPHON JET ACTION AND TESTED TO SUPPORT STATIC WEIGHT LOAD OF 1,000 POUNDS, MOUNTED AT ADA HEIGHT. WALL MOUNTED FLUSHOMETER FOR SCENARIOS WITH WALK-IN CHASE, TOTO TETSLA, SATIN FINISH. WALL MOUNTED FLUSHOMETER FOR SCENARIOS WITHOUT WALK-IN CHASE, TOTO TETSLA, SATIN FINISH. SEAT: OPEN FRONT, LESS COVER, ELONGATED, HEAVY-DUTY, INJECTION MOLDED SOLID PLASTIC TOILET SEAT WITH FOUR MOLDED-IN BUMPERS, NON-SELF-SUSTAINING CHECK HINGES WITH NON-CORROSIVE 300 SERIES STAINLESS STEEL POSTS AND PINTLES, COMPLYING WITH AP6040ANSI 2124-S-2013, TOTO SC534.
WC-2	WATER CLOSET	1-1/2"		2"	4"	TOTO	CT708EVG	BOWL: WALL HUNG, WHITE VITREOUS CHINA, TOP-SPUD FLUSHOMETER VALVE, HIGH-EFFICIENCY, LOW CONSUMPTION 1.28 GPF TOILET WITH ELONGATED BOWL, CONDENSATION CHANNEL, CONCEALED DESIGN AND FULLY GLAZED TRAPWAY, ANTIMICROBIAL SURFACE, DIRECT-FED SIPHON JET ACTION AND TESTED TO SUPPORT STATIC WEIGHT LOAD OF 1,000 POUNDS. WALL MOUNTED FLUSHOMETER FOR SCENARIOS WITH WALK-IN CHASE, TOTO TETSLA, SATIN FINISH. WALL MOUNTED FLUSHOMETER FOR SCENARIOS WITHOUT WALK-IN CHASE, TOTO TETSLA, SATIN FINISH. SEAT: OPEN FRONT, LESS COVER, ELONGATED, HEAVY-DUTY, INJECTION MOLDED SOLID PLASTIC TOILET SEAT WITH FOUR MOLDED-IN BUMPERS, NON-SELF-SUSTAINING CHECK HINGES WITH NON-CORROSIVE 300 SERIES STAINLESS STEEL POSTS AND PINTLES, COMPLYING WITH AP6040ANSI 2124-S-2013, TOTO SC534.

PLUMBING PIPE MATERIALS

SYSTEM:	SERVICE:
WATER PIPE, ABOVE GRADE	TYPE 'L' COPPER
SANITARY SEWER, ABOVE GRADE	CAST IRON
FIRE SPRINKLER LINE, INSIDE	BLACK STEEL



FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/4884 MEP\_HobbyRestroomRenovationPH3\_R21.rvt

HAS FILE:

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No. :  
PLOT DATE:



7800 Airport Blvd  
Houston, TX 77061

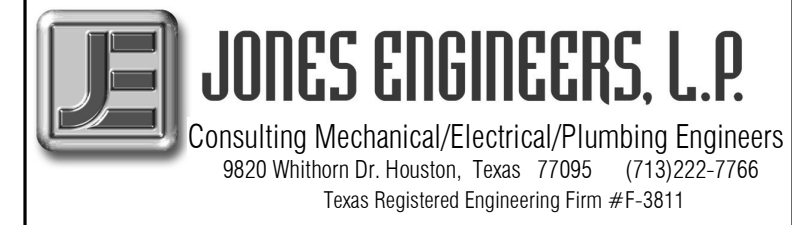
### HAS HOBBY AIRPORT RESTROOMS PHASE 3

C.I.P. No. PN209B A.I.P. No.  
C.O.H. No. D.O.A. No.

## RDLR Architects

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Consulting Mechanical/Electrical/Plumbing Engineers  
9820 Wilshire Dr., Houston, Texas 77063 (713) 922-7766  
Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.: 1429.15  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

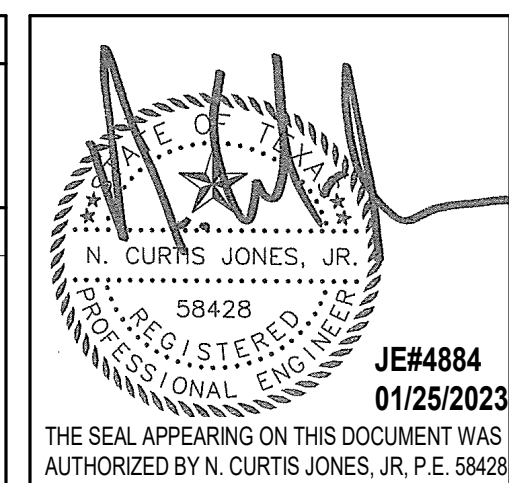
#### REVISIONS

No.	DESCRIPTION	DATE	BY
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2	95% CD	12.09.22	JE
3	IFC	01.25.2023	JE

DESIGN BY: JE  
DRAWN BY: JE  
CHECKED BY: JE  
ISSUE DATE: 01/25/2023  
APPROVED BY: CURT JONES  
APPROVAL DATE: 01/25/2023

DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM

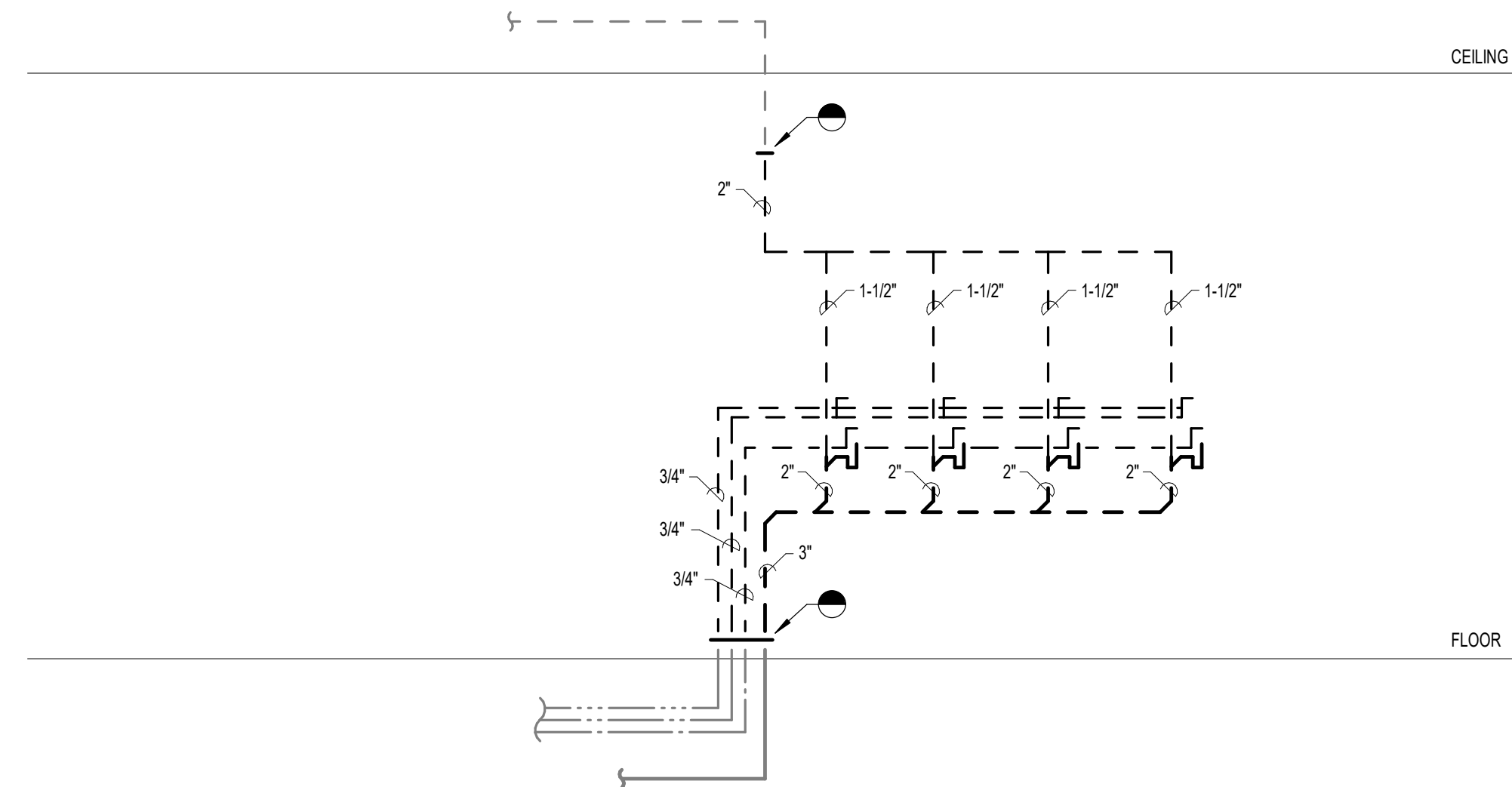
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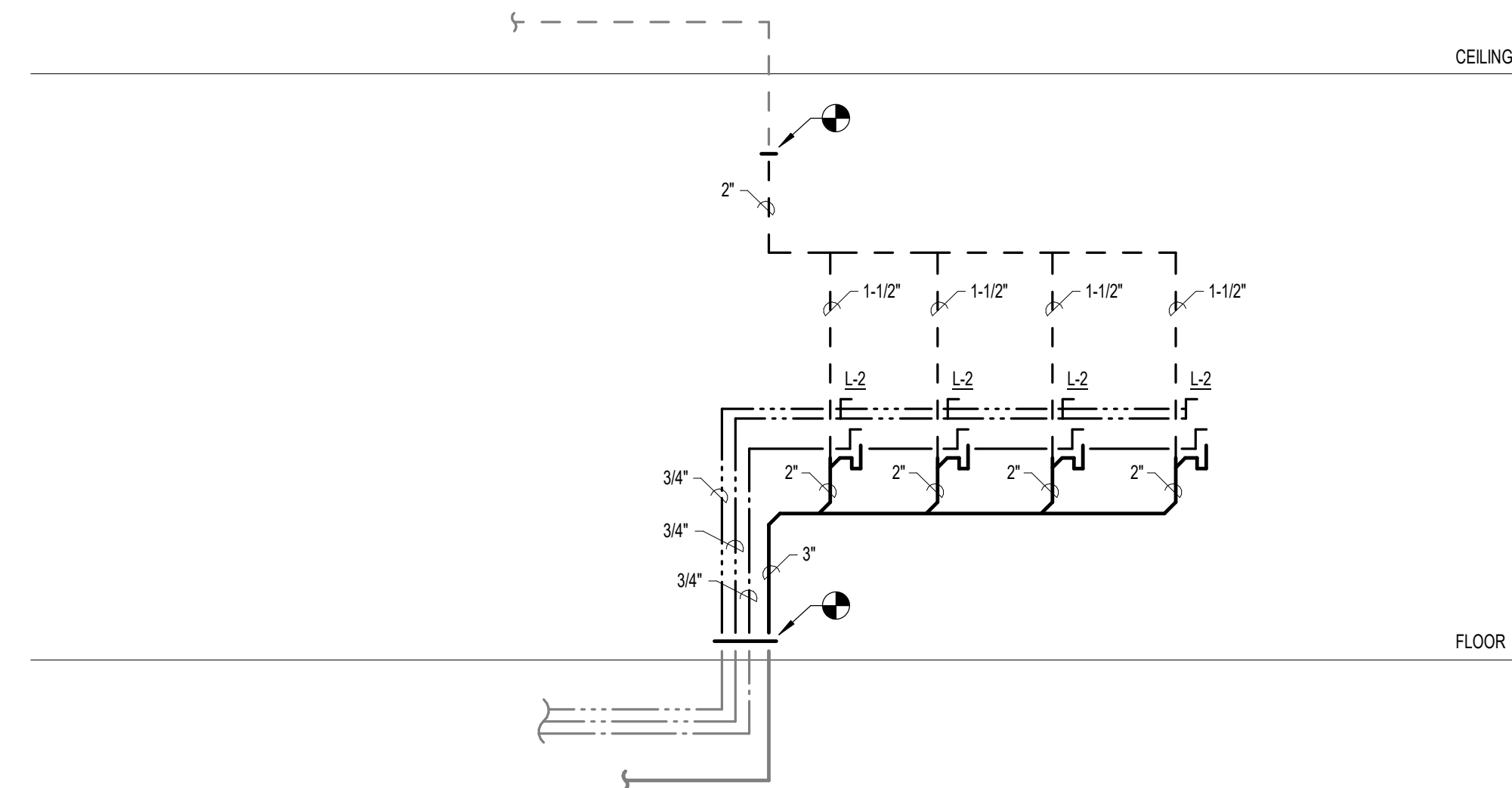
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SHEET No. P-601 SCALE: N.T.S.

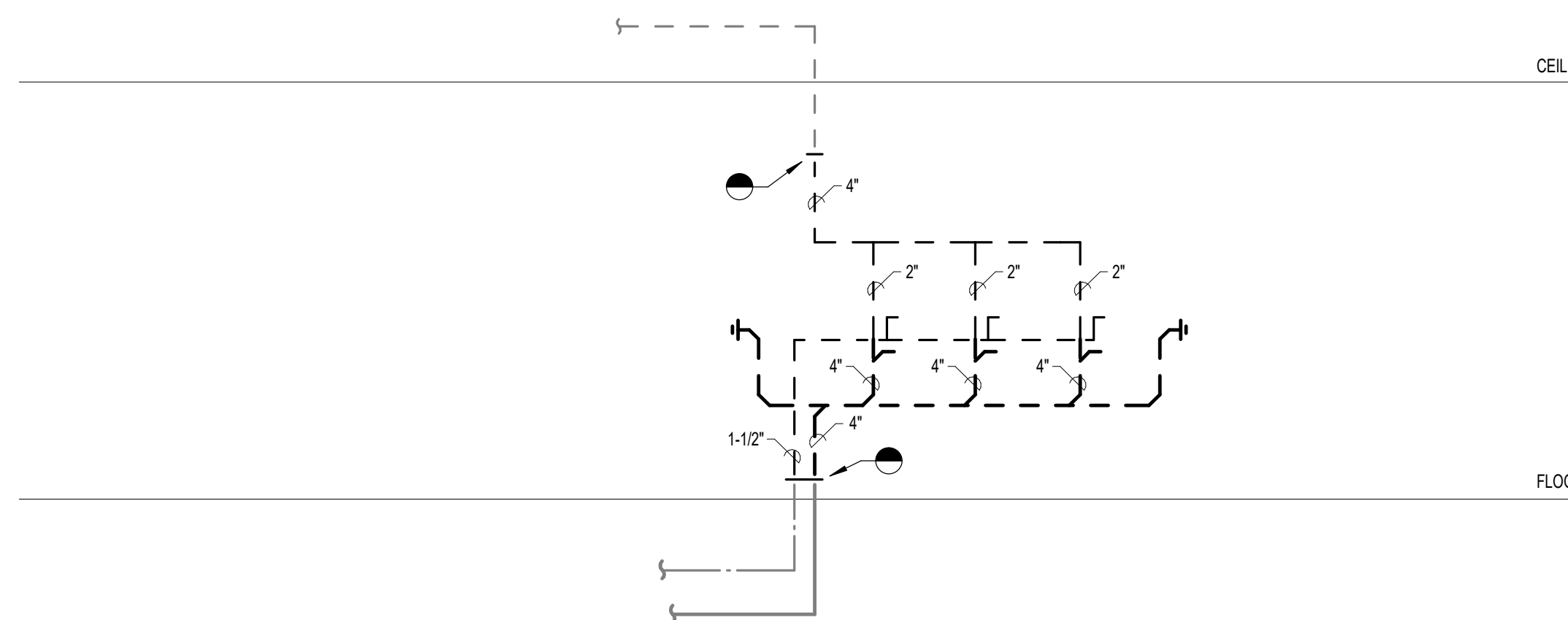
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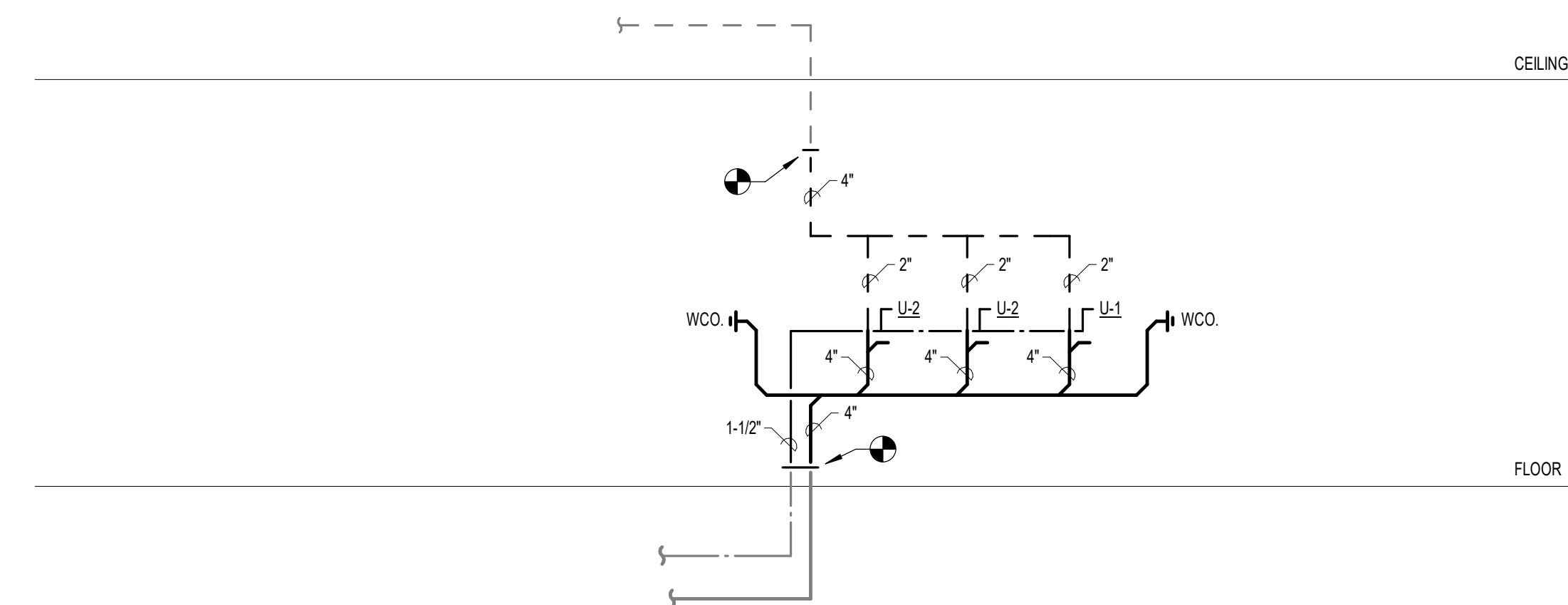
5 TYPICAL PLUMBING RISER DIAGRAM - LAVATORIES - DEMO  
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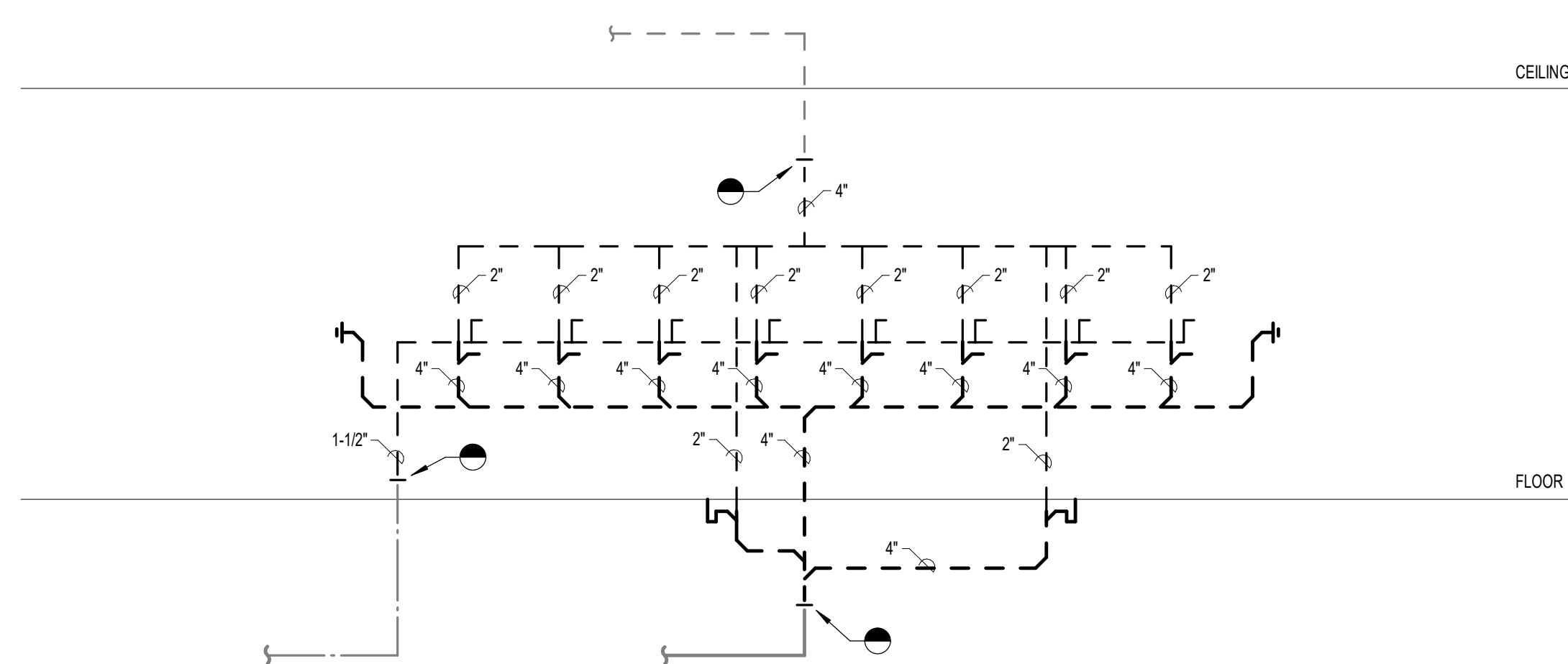
6 TYPICAL PLUMBING RISER DIAGRAM - LAVATORIES  
N.T.S.



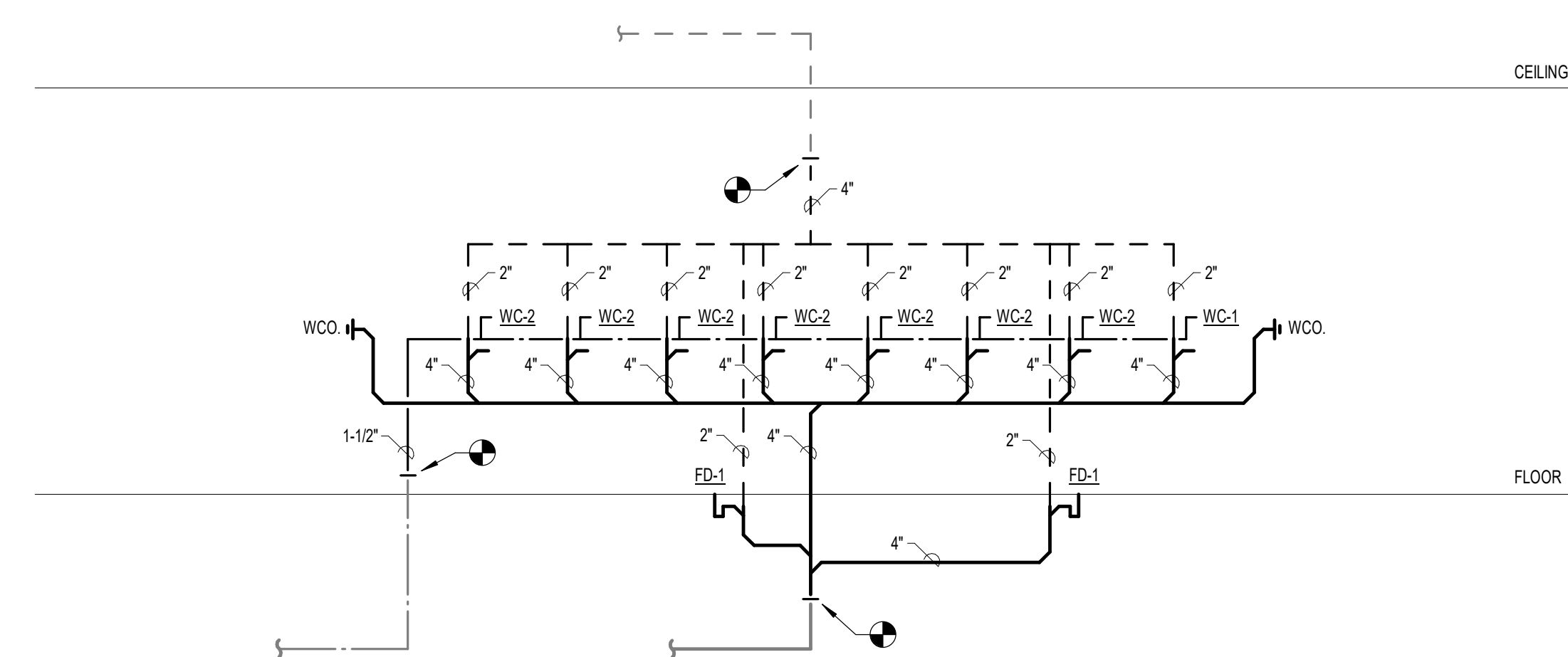
3 TYPICAL PLUMBING RISER DIAGRAM - URINALS - DEMO  
N.T.S.



4 TYPICAL PLUMBING RISER DIAGRAM - URINALS  
N.T.S.



1 TYPICAL PLUMBING RISER DIAGRAM - WATER CLOSETS - DEMO  
N.T.S.



2 TYPICAL PLUMBING RISER DIAGRAM - WATER CLOSETS  
N.T.S.

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/4884\_MEP\_HobbyRestroomRenovationPH3\_R21.rvt

HAS FILE:

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No. :  
PLOT DATE:

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No. :  
PLOT DATE:

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/2022.01.19 - RDLR (HOU RR RENOV PH3).rvt  
HAS FILE:

A B C D E

**TECHNOLOGY GENERAL NOTES**

- FOLLOW TELECOM STANDARDS AND PRACTICES. SEE DIVISION 27 SPECIFICATIONS AND T DRAWINGS.
- REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER (RCDD) SUPERVISOR SHALL REVIEW, APPROVE AND STAMP ALL SHOP DRAWINGS. COORDINATE DRAWINGS AND RECORD DRAWINGS.
- ALL WALL PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE STOPPING.
- REFER TO THE ELECTRICAL FLOOR PLAN DRAWINGS FOR ADDITIONAL, ROUGH-IN REQUIREMENTS. WHERE THERE ARE DRAWING DISCREPANCIES, THE CONTRACTOR SHALL INSTALL THE GREATER QUANTITY OF DEVICES.
- REFER TO THE SITE PLAN ON AND RISER DIAGRAM FOR TELECOMMUNICATION BACKBONE CONDUITS/CABLES. FIELD COORDINATE EXACT ROUTING WITH OTHER TRADES.
- ALL COMMUNICATIONS EQUIPMENT SHOWN SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.
- BOND ALL COMMUNICATIONS CABINETS, RELAY RACKS, CABLE TRAYS, AND OTHER METALLIC SUPPORTING DEVICES TO TELECOMMUNICATIONS GROUND BUSBAR INSIDE COMMUNICATIONS ROOM. BOND WITH A #6 GROUND CONDUCTOR.
- ALL HORIZONTAL VOICE AND DATA CABLES SHALL BE DISTRIBUTED VIA MINIMUM 1" CONDUIT AND/OR CABLE TRAY. NO EXCEPTIONS.
- SINGLE LINE DIAGRAMS, SCHEMATICS, DETAILS AND CONDUIT PATHS SHOWN HEREIN ARE CONCEPTUAL AND ILLUSTRATE ONLY THE FUNCTIONAL RELATIONSHIPS BETWEEN COMPONENTS OF THE SYSTEM. ACCORDINGLY, FULL SHOP DRAWING DEVELOPMENT IS REQUIRED TO REALIZE THE SPECIFIED FUNCTIONS.
- DEVICE LOCATIONS ON PLANS ARE CONCEPTUAL. LOCATE AS SITE CONDITIONS REQUIRE AND AS APPROVED BY GC.
- REFER TO THE BID SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING THIS WORK.
- PAINTING, PATCHING AND FINISHES FOR DEVICES LOCATED IN EXISTING AREAS SHALL MATCH EXISTING FINISHES AS APPROVED BY GC.
- FINISHES OF DEVICES IN NEW/REMODEL AREAS SHALL BE APPROVED BY GC.
- WORK AND MATERIALS SHALL CONFORM TO THE MOST CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AS FURNISHED BY GC. WORK AND MATERIALS NOT IN CONFORMANCE WITH THESE SPECIFICATIONS AND DETAILS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- IN SOME INSTANCES THE IDF MAY BE OVER 90 METERS FROM THE IP DEVICE DUE TO LEGACY DESIGN STANDARDS WHEN THE BUILDING WAS CONSTRUCTED. IF TESTED CABLE DOES NOT PASS CERTIFICATION, CONTRACTOR MUST USE MIDSPAN EXTENDER INSTALLED INSIDE OF ENCLOSURE. REFERENCE DETAIL SHEETS FOR INSTALLATION DIAGRAM.

**TECHNOLOGY ABBREVIATIONS**

(E)	EXISTING		
GC	GENERAL CONTRACTOR		
LEC	LOCAL EXCHANGE CARRIER		
MMF	MULTIMODE FIBER		
(N)	NEW		
NIC	NOT IN CONTRACT		
PR	PAIR AS IN COPPER PAIR (CATEGORY 5)		
R	RADIUS		
SMF	SINGLE MODE FIBER		
STP	SHIELDED TWISTED PAIR, 22 AWG		
UTP	UNSHIELDED TWISTED PAIR		

**REFERENCE SPECIFICATIONS**

- 270526 - TELECOMMUNICATIONS GROUNDING AND BONDING
- 270528 - INTERIOR COMMUNICATION PATHWAYS
- 270543 - EXTERIOR COMMUNICATION PATHWAYS
- 270553 - IDENTIFICATION AND LABELING OF COMMUNICATION INFRASTRUCTURE
- 271045 - RESTROOM MONITORING SYSTEM
- 271100 - COMMUNICATIONS CABINETS AND EQUIPMENT ROOMS
- 271500 - HORIZONTAL MEDIA INFRASTRUCTURE
- 272100 - DATA COMMUNICATION NETWORK EQUIPMENT
- 272200 - LAPTOP, AND SERVERS EQUIPMENT
- 275113 - AUDIO COMMUNICATION SYSTEM
- SPECIFICATION CAN BE DOWNLOADED AT  
<https://www.fly2houston.com/biz/resources/building-standards-and-permits/>

**TECHNOLOGY EQUIPMENT SYMBOLS LIST**

SYMBOL	DESCRIPTION
	HDMI RECEIVER
	HDMI TRANSMITTER
	FIBER OPTIC PATCH PANEL
	FIBER OPTIC TRANSMITTER
	FIBER OPTIC RECEIVER
	COPPER PATCH PANEL
	CURTESY PHONE
	HAND HOLE
	MAINTENANCE HOLE
	MAINTENANCE HOLE
	NETWORK SWITCH (OWNER)
	NETWORK SWITCH (TENANT)
	PULL BOX
	OSP COPPER PROTECTOR
	X-CAT6 TERMINATION JACK WHERE X REPRESENTS QUANTITY OF CAT6 CABLES. FIELD COORDINATE EXACT PLACEMENT WITH OTHER TRADE.
	EXAMPLE: 4-CAT6 WITH 4-PORT WALL PLATE, 15" A.F.F.
	CAT 6 TERMINATION JACK.
	X=CONFIGURATION Y=QTY OF CAT 6 CABLES PROVIDE PATCH CORD FOR EACH CONNECTED PORT.
	TV OUTLET (1 RG-6 CABLE)
	HDMI WITH 2 AUDIO JACKS. INCLUDE PLENUM HDMI AND 2 AUDIO CABLE FROM JACK TO AV SOURCE WITHIN ROOM.
	1 CAT 6 WITH PLATE FOR WALL MOUNTED PHONE, 45" A.F.F.
	BLANK WALL PLATE
	X CAT 6 CABLE (FLOOR OUTLET)
	WIRELESS ACCESS POINT, 2 CAT 6A CABLES
	ALL WEATHER OUTDOOR PHONE, 1 CAT 6

**TECHNOLOGY EQUIPMENT SYMBOLS LIST**

SYMBOL	DESCRIPTION
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	TERMINATING CONDUIT. PROVIDE GROUND LUG AND INSULATED THROAT BUSHING.
	EXPOSED CONDUIT
	CONCEALED CONDUIT
	ARIEL CABLE
	BLUETOOTH BEACON PUCK
	ETHERNET EXTENDER
	FLIGHT INFORMATION DISPLAY PC
	FLAT PANEL DISPLAY
	HORIZONTAL CABLE MANAGEMENT
	JUNCTION BOX
	MINIATURE COMPUTER
	BATHROOM STALL OCCUPANCY SENSOR LIGHT
	POWER SUPPLY
	PASSENGER COUNTER SENSOR
	REMOTE EQUIPMENT ENCLOSURE
	AV SPEAKER TYPE 1. MODEL JBL CONTROL 24CT
	AV SPEAKER TYPE 2
	BATHROOM STALL OCCUPANCY SENSOR GATEWAY
	TOUCH PANEL / TABLET

**SHEET INDEX**

SHEET NO.	DESCRIPTION
T-001	TECHNOLOGY - ABBREVIATIONS & SYMBOLS
T-002	TECHNOLOGY - SPECIFICATIONS
T-101	TECHNOLOGY - OVERALL FLOOR PLAN - LEVEL 1
T-102	TECHNOLOGY - OVERALL FLOOR PLAN - LEVEL 2
T-103	TECHNOLOGY - FLOOR PLAN - RESTROOMS 3-4
T-104	TECHNOLOGY - FLOOR PLAN - RESTROOMS 5-6
T-105	TECHNOLOGY - FLOORPLAN RESTROOMS 58-59
T-401	TECHNOLOGY - ENLARGED PLAN - IDF 102.39
T-402	TECHNOLOGY - ENLARGED PLAN - IDF 201.31
T-601	TECHNOLOGY - EQUIPMENT DETAILS
T-601	TECHNOLOGY - EQUIPMENT SCHEDULES



7800 Airport Blvd  
Houston, TX 77061

**HAS HOBBY AIRPORT RESTROOMS  
PHASE 3**

C.I.P. No. PN209B A.I.P. No.  
C.O.H. No. D.O.A. No.

**RDLR Architects**  
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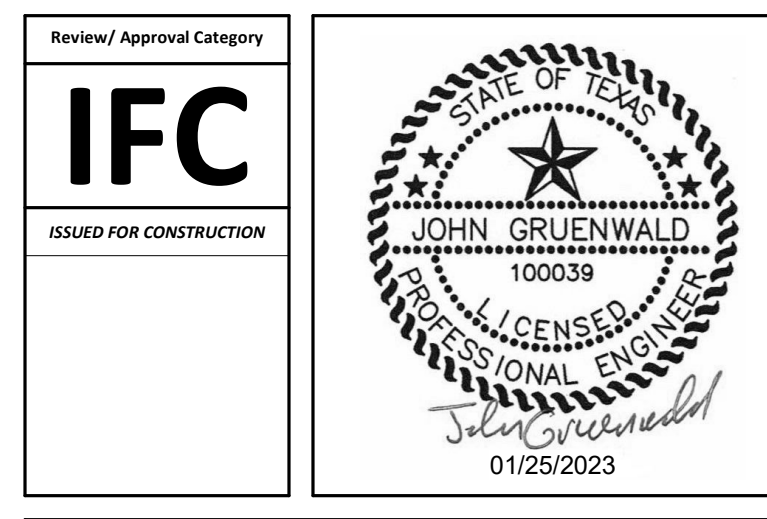
DESIGNER PROJECT No.: 2022.019  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

NO.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	PGA
2	30% CD	10.28.22	PGA
3	95% CD	12.09.22	PGA
4	IFC	01.25.23	PGA

DESIGN BY: PGA  
DRAWN BY: AC  
CHECKED BY: JG  
ISSUE DATE: 01/25/23  
APPROVED BY: Approver  
APPROVAL DATE: 01/25/2023

**DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM**



SHEET NAME: TECHNOLOGY - ABBREVIATIONS & SYMBOLS

SHEET No. T-001 SCALE:

SHEET SIZE: 30"x42" ARCH E1



7800 Airport Blvd  
Houston, TX 77061

**HAS HOBBY AIRPORT RESTROOMS  
PHASE 3**

C.I.P. No. PN209B A.I.P. No.  
C.O.H. No. D.O.A. No.

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DESIGNER PROJECT No.: 2022.019  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	PGA
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4	IFC	01.25.23	PGA

DESIGN BY: PGA  
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ISSUE DATE: 01/25/23  
APPROVED BY: Approver  
APPROVAL DATE: 01/25/2023

**DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM**



SHEET NAME: TECHNOLOGY - SPECIFICATIONS

SHEET No. T-002 SCALE:

SHEET SIZE: 30"x42" ARCH E1

**RESTROOM TECHNOLOGY SPECIFICATIONS**

**SECTION 271045 - RESTROOM MONITORING SYSTEM**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
  1. Refer to <https://www.fly2houston.com/biz/resources/building-standards-and-permits> for a complete list of related specification sections.
- B. Reference Symbols
  1. All device symbols are defined by the appropriate symbol schedule on the symbols and abbreviations sheet in the systems drawing package. Not all device symbols indicated may be required for the project.
  2. Because of the scale of the drawings, symbols are shown on drawings as close as possible to the mounting location. Contractor shall coordinate exact locations with all drawings and affected trades prior to submittal of shop drawings.
    - a. The installing Contractor shall coordinate exact locations with all security and telecommunications drawings and site plan drawings as well as all affected trades prior to submittal of any shop drawings.

**1.2 SUMMARY**

- A. An expansion to the existing Restroom Monitoring System (A.K.A. Smart Restroom) shall be installed at each public restroom space planned in the project). The system shall be a reconfiguration and update of the existing "Smart Restroom" system (SRR) manufactured by the existing vendor, TRAX.
  - B. The Smart Restroom System shall:
    1. Count number users of each Restroom using Bluetooth and video analytics, for the purpose of notification of Janitorial staff to inspect, service consumables and clean the spaces at predetermined thresholds of users.
      - a. Provide airport maintenance and management with statistical data on Restroom usage patterns and trends using beacon interfaced to custodial carts.
    2. Provide touch-screen passenger experience at each restroom location support interface to system to collect positive and negative input from users.
    3. Additionally, the scope of work shall include all necessary modifications, software upgrades and programming as required to seamlessly integrate the Existing HAS IT Smart Restroom platform. The work includes materials, infrastructure, equipment, software updates, and programming as required to provide a fully integrated and operational system as herein specified.
    4. The installation, performance, features, functions, software, and programming modifications as specified herein as well as all related specification sections have been designed to offer the maximum system efficiency ease of operation, occupant safety and enhance the MJT Experience.
  - C. The initial deployment of the Smart Restroom System components shall consist of, but not be limited to, the following.
    1. Each restroom shall be provisioned with:
      - a. User counting camera system with video analytics.
      - b. Custodial frequency tracking
      - c. Passenger experience touch screen
      - d. Network interface and mini-PC
    2. Local Area Network (LAN) and beacon integration shall be performed to support the deployment of all Smart Restroom components as described above.
  - D. The Smart Restroom System shall be IP-based. The Contractor shall be responsible for all integration with the other trades, vendors, and HAS IT for network and low voltage cabling, cable terminations, patch panels, media cabinet (TE) and necessary configuration to provide the functionality described within this document. SRR configuration shall be performed in coordination with HAS IT, TRAX, and the Project Management.
    1. In addition to SRR equipment procurement, installation, programming and activation, The Contractor shall furnish and install the following tasks as part of the Work.
      - a. System training as specified.
      - b. System warranty as specified.
      - c. System testing and acceptance plans as specified.
  - E. The Division 27 integrator shall be responsible for providing all equipment, devices, system components, software, licenses, final cable terminations, configuration, programming, commissioning, and testing of all network communications cabling and equipment in accordance with all related Division 27 Specification Sections.
  - F. Contact TRAX and coordinate with them on implementing:
    1. TRAX Web Application - SaaS browser access to TRAX software and data including administrative access; unlimited users. Includes reporting, dashboards, business intelligence, digital map views of restrooms and sensors
    2. TRAX SmartRestrooms Mobile Application iOS and Android Mobile App - Access for janitorial users and for supervisor users.
    3. AVIUS Feedback Software - Feedback Survey API data stream to TRAX
    4. Kontakt BLE Data API Beacon data stream to TRAX Platform
    5. XOVIS IBEK Software - Throughput counter API data stream from cameras to TRAX platform
    6. Site Visit
    7. Testing and Commissioning
    8. Software Training to End User
  - G. Coordinate with TRAX and HAS IT for VLAN / TRAX Cloud Server requirements/setup for SMART RESTROOM TECHNOLOGY.

**1.3 REFERENCES**

- A. Refer to HAS Standards and specific specification sections for requirements.

**1.4 SYSTEMS DESCRIPTIONS**

- A. Refer to HAS Standards and specific specification sections for requirements.

**1.5 SUBMITTALS**

- A. Refer to HAS Standards and specific specification sections for additional information.
- B. Qualifications: Demonstrate compliance with requirements for Contractor certifications and trade skill sets.
- C. Submit Technical Implementation Plan.
- D. Submit manufacturer's technical data for each product provided.
- E. Submit technical and operations manuals.
- F. Include spares list to be approved by HAS IT Project Manager for approval.

**1.6 QUALITY ASSURANCE**

- A. For infrastructure, refer to HAS Standards and specific specification sections for requirements.
- B. For Smart Restroom Technology, coordinate with TRAX.

**1.7 DELIVERY STORAGE AND HANDLING**

- A. For infrastructure, refer to HAS Standards and specific specification sections for requirements.
- B. For Smart Restroom Hardware/Software/Licenses, coordinate with TRAX.

**1.8 RECORD DOCUMENTS**

- A. For infrastructure, refer to HAS Standards and specific specification sections for requirements.
- B. For Smart Restroom Technology, coordinate with TRAX.

**1.9 OPERATIONS AND MAINTENANCE**

- A. For infrastructure, refer to HAS Standards and specific specification sections for requirements.
- B. For Smart Restroom Technology, coordinate with TRAX.

**1.10 SOFTWARE AGREEMENT**

- A. For Smart Restroom Hardware/Software/Licenses, coordinate with TRAX.

**1.11 EXTRA MATERIAL**

- A. For infrastructure, refer to HAS Standards and specific specification sections for requirements.
- B. For Smart Restroom Technology, coordinate with TRAX.

**RESTROOM TECHNOLOGY SPECIFICATIONS**

**SECTION 271045 - RESTROOM MONITORING SYSTEM**

**PART 2 - PRODUCTS**

**2.1 MANUFACTURED PRODUCTS**

- A. For infrastructure, refer to HAS Standards and specific specification sections in addition to the following
- B. For Smart Restroom Technology, all products shall be compatible with the latest revision of existing HAS TRAX Smart Restrooms system product as integrated and provided by TRAX, no approved equal.

**2.2 SYSTEM CONFIGURATION REQUIREMENTS**

- A. Program and configure the Smart Restrooms to be a seamless reconfiguration and upgrade extension of the existing TRAX system. Perform all network-related work including but not limited to:
  1. HAS IT network assignments including port assignments and activation requirements.
- C. Coordinate with HAS network provider to provide optimal performance for the Smart restroom system and the HAS network.

**2.3 SYSTEM SOFTWARE AND LICENSE REQUIREMENTS**

- A. System software shall be TRAX Smart Restroom Systems, no approved equal.
- B. SMART RESTROOM SYSTEM Configuration to be subcontracted through TRAX.

**2.4 HARDWARE REQUIREMENTS**

- A. Network Switch
  1. Refer to Section 27 21 00 for SRR switch equipment.
- B. Mini PC or NUC
  1. Processor equipment for SRR shall be NOW MICRO DMPS-2200
- C. Beacons
  1. Bluetooth beacons for SRR shall be latest HAS IT adopted product offered by TRAX for the SRR system.
  2. Current basis of design: KONTACT IO, ANCHOR BEACON 2.
- D. Passenger Count Camera
  1. Passenger Count cameras/ sensors for SRR shall be latest HAS IT adopted product offered by TRAX for the SRR system
  2. Current basis of design: XOVIS, PC2-S.
- E. Passenger Feedback Screen
  1. Passenger experience feedback touchscreen tablet for SRR shall be latest HAS IT adopted product offered by TRAX for the SRR system.
  2. Current basis of design: Samsung Galaxy A7 LTE with ARMOR ACTIVE ELITE ENCLOSURE AND WEDGE MOUNT, and a BOUNCEPAD VESA MAXI CASE.
- F. Flat Panel Display
  1. Bathroom Display, LG 32SM5KE, mounted with a SMARTMOUNT SF632P.
- G. Bathroom Stall Occupancy Sensor System
  1. Bathroom Stall Occupancy Lights, ZURN Z-LIGHT-W1.
  2. Bathroom Stall Occupancy Light Gateway, ZURN ZGW-WRP-W1-ETH.
  3. Bathroom Stall Occupancy Light Power Supply, ZURN Z-PWRSUP-W1 or Meanwell IRM-80-12ST.
  4. Bathroom Stall Occupancy Lights Cable, Belden 6100UE.

**RESTROOM TECHNOLOGY SPECIFICATIONS**

**SECTION 271045 - RESTROOM MONITORING SYSTEM**

**PART 3 - EXECUTION**

**3.1 COORDINATION**

- A. Refer to HAS Standards and specific specification sections for requirements.
- B. Contact INFAX@TRAX at 1-770-209-9929 for details regarding their aspects of the scope.

**3.2 EQUIPMENT PROTECTION**

- A. Protect all materials, equipment, devices, or components permanently installed and/or stored on the job site. Protect all materials, equipment, cabling, devices, or components during construction and after installation, provide appropriate protection of all materials, equipment, components and/or devices until time of substantial completion. All materials, equipment, components and/or devices shall be protected during shipment and storage against any physical damage, dirt, moisture, cold, snow or rain.

**3.3 WORK PERFORMANCE**

- A. Refer to HAS Standards and specific specification sections in addition to the following:
  1. Refer to related Specification Sections for additional project coordination requirements. In addition to the requirements defined in this Specification Section, the contractor shall coordinate and meet all requirements addressed in Division 26, Division 27, and Division 28 Specification Sections.
  2. The contractor shall adjust and calibrate the system to provide of performance acceptable to HAS.

**3.4 EQUIPMENT INSTALLATION**

- A. All system equipment installations shall be in accordance with good engineering practices, NEC, local building codes, and all manufacturer's requirements. Cable terminations at all equipment locations shall comply with all state and local electrical codes. All wiring shall test free from all grounds, shorts, stray voltages, and EMI.
- B. Follow manufacturers and integrator's instructions for installing, components and adjusting all equipment and cabling.

**3.5 INSTALLATION REQUIREMENTS**

- A. In addition to all demonstration and training as specified by Division 01, HAS Standards and specific specification sections and related Division 27 Specification Sections, system installation shall be provided in accordance with all requirements of this Section.
- B. General
  1. SRR installation shall be configured, programmed, and commissioned by TRAX certified programmer.
- C. Software / License Installation
  1. The Contractor shall provide, configure, and program all SRR software/licenses, in compliance HAS IT approved and existing SRR system offer by TRAX.
- D. Hardware Installation
  1. The Contractor shall provide, configure, and install all SRR hardware in compliance HAS IT approved and existing SRR system offer by TRAX.
- E. System Startup
  1. The Contractor shall not apply power to the system until after:
    - a. TRAX representative has inspected and approved the SRR configuration and installation for compliance with HAS IT and integrator's system operational requirements.

**3.6 COMMUNICATIONS CABLING REQUIREMENTS**

- A. For infrastructure, refer to HAS Standards and specific specification sections for requirements.
- B. For Smart Restroom Hardware/Software/Licenses, TRAX

**3.7 ELECTRICAL POWER DISTRIBUTION**

- A. Refer to HAS Standards and specific specification sections for requirements.

**3.8 TRANSIENT VOLTAGE SUPPRESSION**

- A. Refer to HAS Standards and specific specification sections for requirements.

**3.9 GROUNDING AND BONDING**

- A. Refer to HAS Standards and specific specification sections for requirements.

**3.10 EQUIPMENT IDENTIFICATION**

- A. Refer to HAS Standards and specific specification sections for requirements.

**3.11 MAINTENANCE AND SERVICE**

- A. For infrastructure, refer to HAS Standards and specific specification sections for requirements.
- B. For Smart Restroom Hardware/Software/Licenses, coordinate with TRAX.

**3.12 WARRANTY**

- A. Refer to HAS Standards and specific specification sections for requirements.
- B. The Product Warranty's shall meet all manufacturer's specification to ensure against product defects.
- C. As part of TRAX's services, a warranty period will be provided for their equipment and services.

**3.13 FIELD SERVICES**

- A. For infrastructure, refer to HAS Standards and specific specification sections for requirements.
- B. For Smart Restroom Technology, coordinate with TRAX.

**3.14 TRAINING**

- A. For infrastructure, refer to HAS Standards and specific specification sections for requirements.
- B. For Smart Restroom Technology, coordinate with TRAX.

**3.15 PROJECT CLOSEOUT REQUIREMENTS**

- A. For infrastructure, refer to HAS Standards and specific specification sections for requirements.
- B. For Smart Restroom Technology, coordinate with TRAX.

END OF SECTION 27 10 45

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/2022.01.9 - RDLR (HOU RR RENOV PH3).rvt

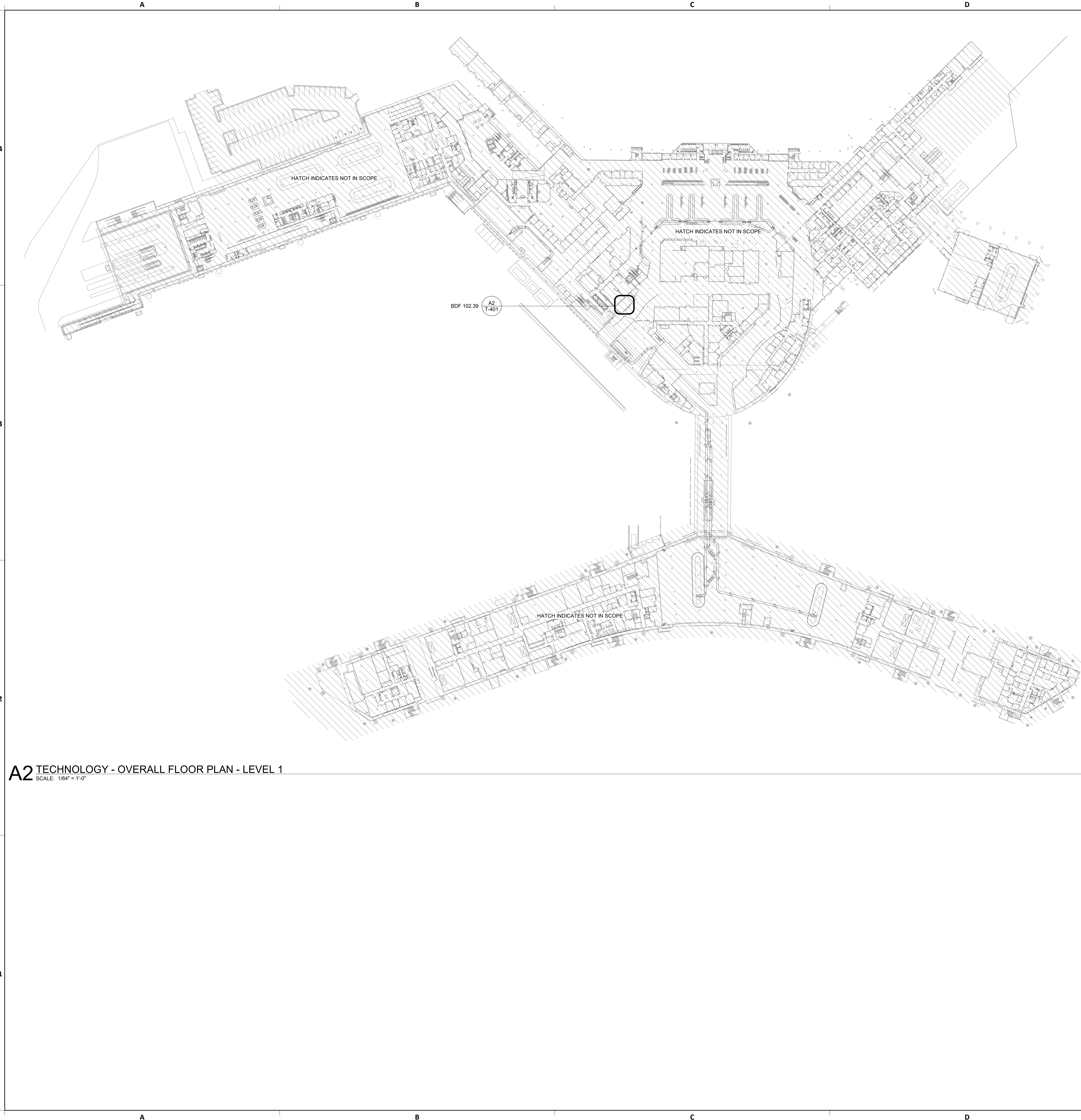
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DOA DWG FILE:  
OLD DOA No. :  
PLOT DATE:

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No. :  
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FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/2022.01.19 - RDLR (HOU RR RENOV PH3).rvt

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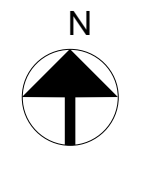


**A2 TECHNOLOGY - OVERALL FLOOR PLAN - LEVEL 1**  
SCALE: 1/64" = 1'-0"

**GENERAL NOTES**

1. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
2. COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.

**KEYED NOTES**



7800 Airport Blvd  
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**HAS HOBBY AIRPORT RESTROOMS  
PHASE 3**

C.I.P. No. PN209B A.I.P. No.  
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**RDLR Architects**  
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DESIGNER PROJECT No.: 2022.019  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	PGA
2	30% CD	10.28.22	PGA
3	95% CD	12.09.22	PGA
4	IFC	01.25.23	PGA

DESIGN BY: PGA  
DRAWN BY: AC  
CHECKED BY: JG  
ISSUE DATE: 01/25/23  
APPROVED BY: Approver  
APPROVAL DATE: 01/25/2023

**DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM**

Review/Approval Category  
**IFC**  
ISSUED FOR CONSTRUCTION



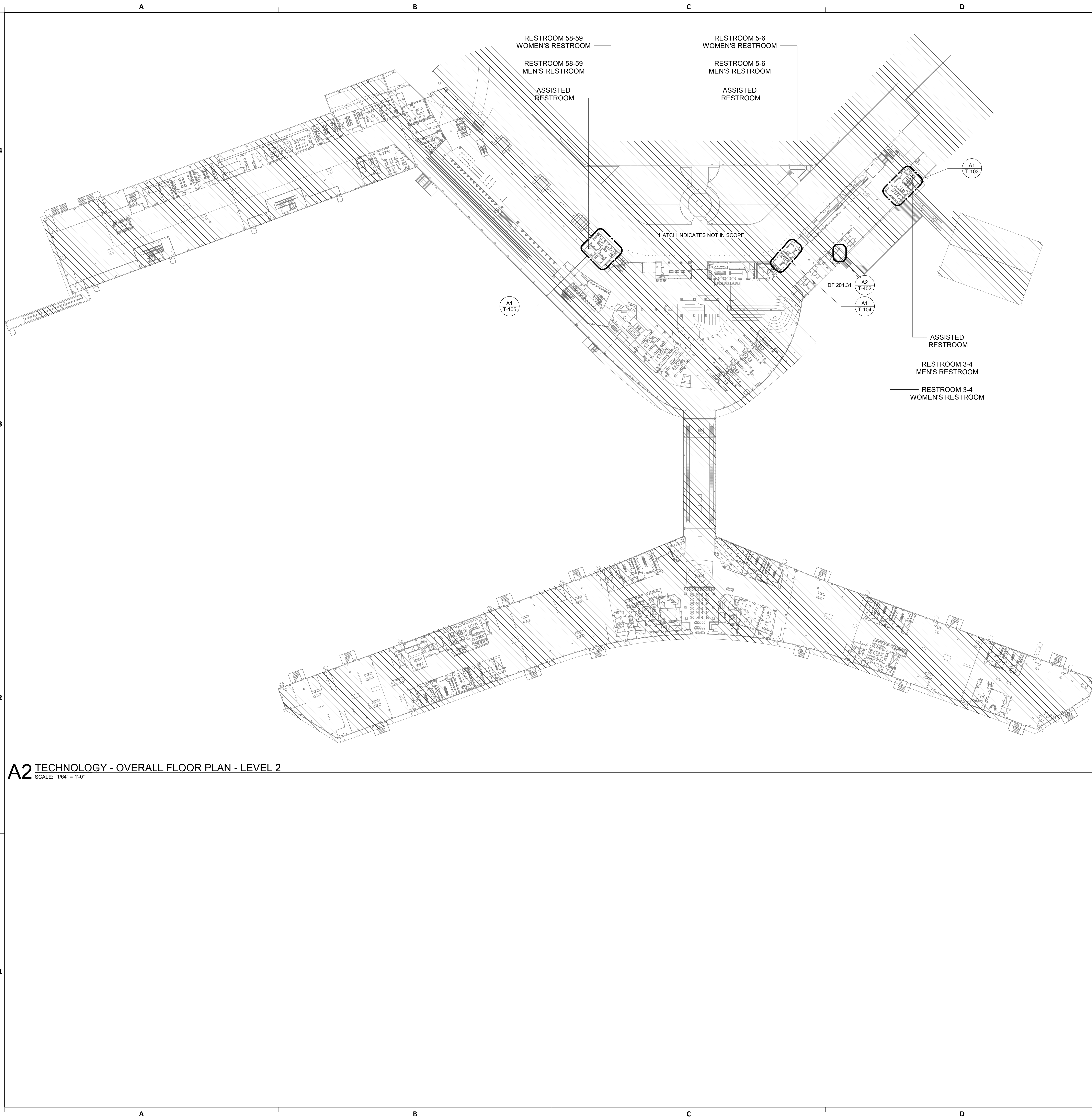
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SHEET No. T-101 SCALE: 1/64" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

PLOT DATE:  
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FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/2022.01.19 - RDLR (HOU RR RENOV PH3).rvt

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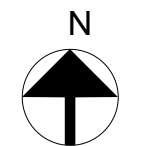


**A2** TECHNOLOGY - OVERALL FLOOR PLAN - LEVEL 2  
SCALE: 1/64" = 1'-0"

**GENERAL NOTES**

1. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
2. COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.

**KEYED NOTES**



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346.570.2418  
pgaengineers.com  
TBP# FRM #12493

DESIGNER PROJECT No.: 2022.019  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	PGA
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3	95% CD	12.09.22	PGA
4	IFC	01.25.23	PGA

DESIGN BY: PGA  
DRAWN BY: AC  
CHECKED BY: JG  
ISSUE DATE: 01/25/23  
APPROVED BY: Approver  
APPROVAL DATE: 01/25/2023

**DIRECTOR  
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HOUSTON AIRPORT SYSTEM**



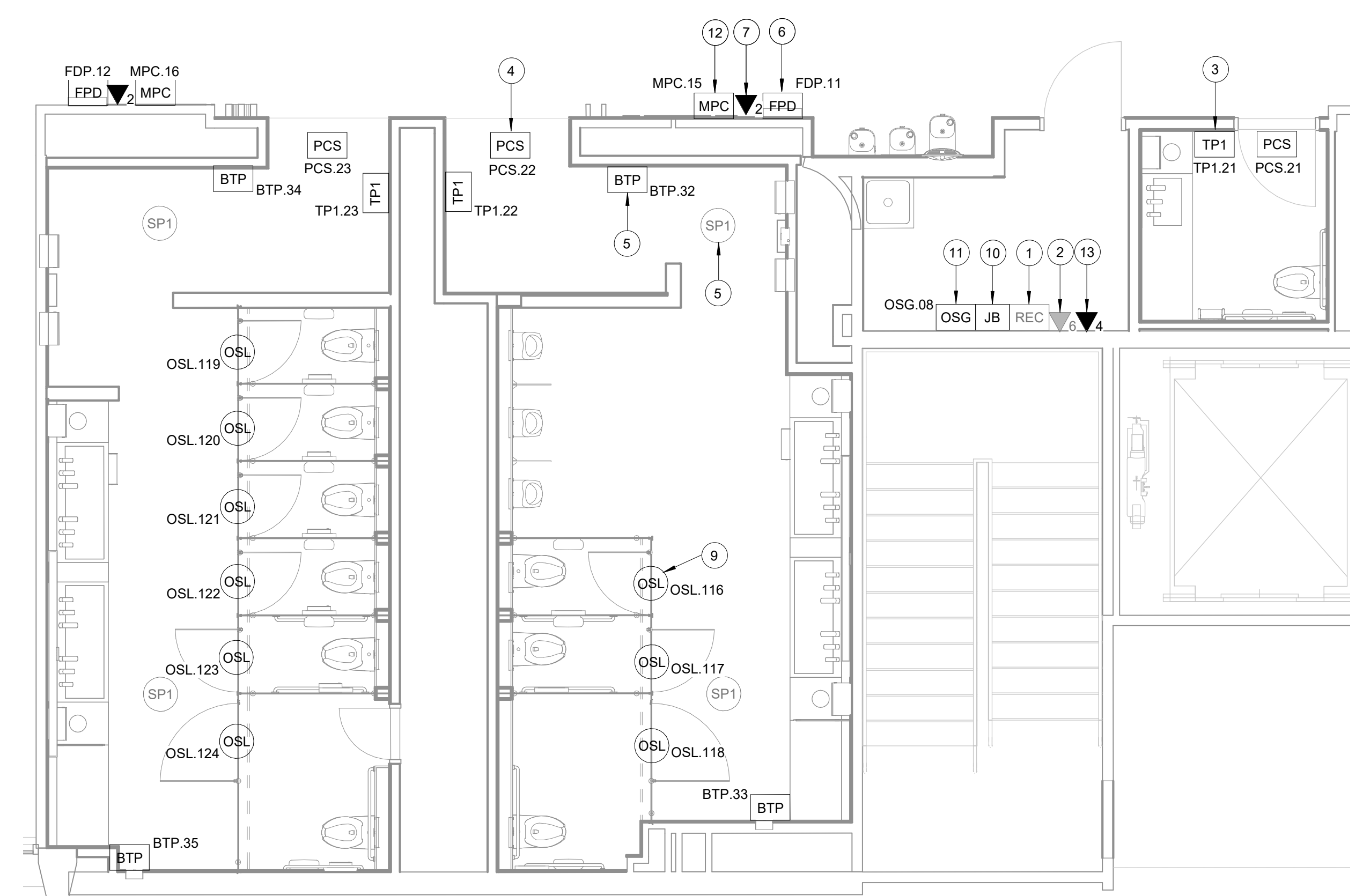
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SHEET No. T-102 SCALE: 1/64" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1



PLOT DATE:  
DOA DWG FILE:  
OLD DOA No. :  
PLOT DATE:

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/2022.019 - RDLR (HOU RR RENOV PH3).rvt  
HAS FILE:



**A1** TECHNOLOGY - FLOORPLAN RESTROOM 3-4  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

1. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
2. REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION.
3. COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
4. SCREENED DEVICES DENOTE EXISTING.
5. TURN OVER ANY DEMO'D TECHNOLOGY DEVICES TO HAS IT.

**LEGEND**

- BTP BLUETOOTH BEACON PUCK
- FPD FLAT PANEL DISPLAY
- HCM HORIZONTAL CABLE MANAGEMENT
- JB JUNCTION BOX
- MPC MINIATURE COMPUTER
- OSG BATHROOM STALL OCCUPANCY SENSOR GATEWAY
- OSL BATHROOM STALL OCCUPANCY SENSOR LIGHT
- PWR POWER SUPPLY
- PCS PASSENGER COUNTER SENSOR
- REC REMOTE EQUIPMENT ENCLOSURE
- SP1 AV SPEAKER TYPE 1
- TP1 TOUCH PANEL / TABLET

**KEYED NOTES**

1. EXISTING WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
2. EXISTING 6-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED INSIDE EXISTING REC.
3. REPLACE EXISTING IPAD WITH SAMSUNG GALAXY A71 LTE. MOUNT TO WALL WITH ARMOR ACTIVE ELITE ENCLOSURE AND WEDGE MOUNT. WITH A BOUNCEPAD VESA MAXI CASE. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION AS REQUIRED.
4. REPLACE EXISTING PASSENGER COUNT SENSOR WITH XOVIS PC2-S. MOUNTED WITH PA-PC2-FM - FLUSH MOUNT KIT. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION. (1) CAT6 CABLE ROUTED THROUGH A 1" C. TO EXISTING REC.
5. REPLACE EXISTING BLUETOOTH BEACON PUCK WITH KONTAKT IO ANCHOR BEACON 2. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
6. FLAT PANEL DISPLAY, LG 32SM5KE. MOUNTED TO WALL WITH SMARTMOUNT SF832P.
7. 2-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED TO WALL. 2 CAT6 CABLE ROUTED THROUGH A 1" C TO EXISTING REC. FED FROM NEW 4-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED INSIDE EXISTING REC. REFERENCE KEYNOTE 13 AND SHEET T-402.
8. EXISTING CEILING SPEAKER (SP1).
9. BATHROOM STALL OCCUPANCY LIGHTS, ZURN Z-LIGHT-W1. MOUNT AT 6" INSIDE THE STALL. MEASURED FROM THE STALL DOOR AS PER MANUFACTURER INSTALLATION INSTRUCTIONS.
10. LOCATION OF JUNCTION BOX FOR BATHROOM STALL OCCUPANCY LIGHTS POWER SUPPLY. JUNCTION BOX TO HAVE 1" CONDUIT ROUTED TO CEILING.
11. BATHROOM STALL OCCUPANCY LIGHT GATEWAY, ZURN ZGW-WRP-W1-ETH. PLACE INSIDE NEW WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
12. MINI COMPUTER, NOW MICRO DMPS-2200. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
13. 4-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED INSIDE EXISTING REC. 4 CAT6 CABLE ROUTED FROM IDF 201.31 THROUGH A 1" C TO EXISTING REC.



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**HAS HOBBY AIRPORT RESTROOMS  
PHASE 3**

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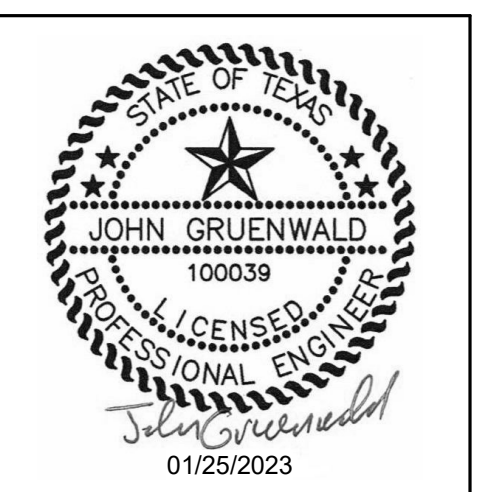
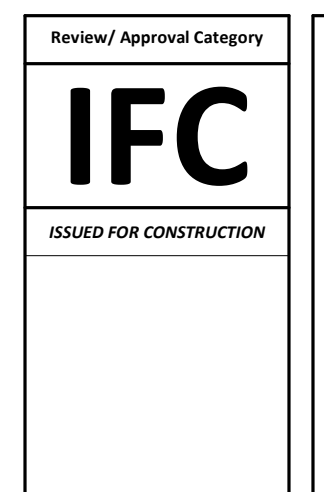
DESIGNER PROJECT No.: 2022.019  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	PGA
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DESIGN BY: PGA  
DRAWN BY: AC  
CHECKED BY: JG  
ISSUE DATE: 01/25/23  
APPROVED BY: Approver  
APPROVAL DATE: 01/25/2023

**DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM**



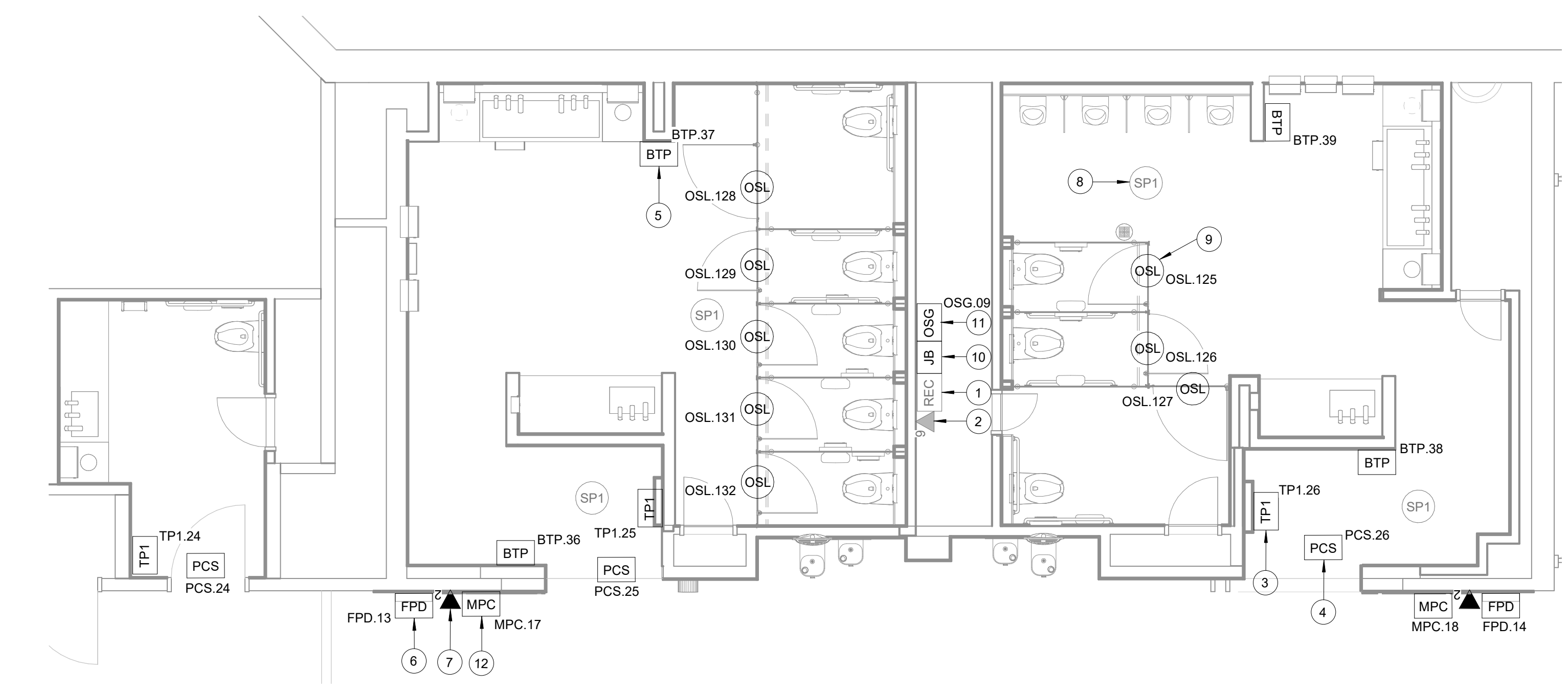
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3-4  
SHEET No. T-103 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No. :  
PLOT DATE:

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/2022.01.19 - RDLR (HOU RR RENOV PH3).rvt

HAS FILE:



**A1 TECHNOLOGY - FLOORPLAN RESTROOM 5-6**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

1. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
2. REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION.
3. COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
4. SCREENED DEVICES DENOTE EXISTING.
5. TURN OVER ANY DEMO'D TECHNOLOGY DEVICES TO HAS IT.

**LEGEND**

- BTP** BLUETOOTH BEACON PUCK
- FPD** FLAT PANEL DISPLAY
- HCM** HORIZONTAL CABLE MANAGEMENT
- JB** JUNCTION BOX
- MPC** MINIATURE COMPUTER
- OSG** BATHROOM STALL OCCUPANCY SENSOR GATEWAY
- OSL** BATHROOM STALL OCCUPANCY SENSOR LIGHT
- PWR** POWER SUPPLY
- PCS** PASSENGER COUNTER SENSOR
- REC** REMOTE EQUIPMENT ENCLOSURE
- SP1** AV SPEAKER TYPE 1
- TP1** TOUCH PANEL / TABLET

**KEYED NOTES**

1. EXISTING WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
2. EXISTING 6-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED INSIDE EXISTING REC.
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6. FLAT PANEL DISPLAY, LG 32SM5KE. MOUNTED TO WALL WITH SMARTMOUNT SF832P.
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8. EXISTING CEILING SPEAKER (SP1).
9. BATHROOM STALL OCCUPANCY LIGHTS, ZURN Z-LIGHT-W1. MOUNT AT 6" INSIDE THE STALL. MEASURED FROM THE STALL DOOR AS PER MANUFACTURER INSTALLATION INSTRUCTIONS.
10. LOCATION OF JUNCTION BOX FOR BATHROOM STALL OCCUPANCY LIGHTS POWER SUPPLY. JUNCTION BOX TO HAVE 1" CONDUIT ROUTED TO CEILING.
11. BATHROOM STALL OCCUPANCY LIGHT GATEWAY, ZURN ZGW-WRP-W1-ETH. PLACE INSIDE NEW WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
12. MINI COMPUTER, NOW MICRO DMPS-2200. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
13. 4-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED INSIDE EXISTING REC. 4 CAT6 CABLE ROUTED FROM IDF 201.31 THROUGH A 1" C TO EXISTING REC.



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**HAS HOBBY AIRPORT RESTROOMS  
PHASE 3**

C.I.P. No. **PN209B** A.I.P. No.  
C.O.H. No. D.O.A. No.

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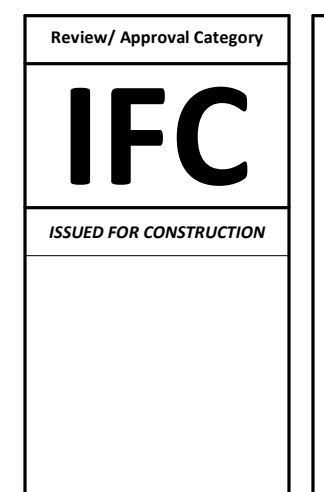
DESIGNER PROJECT No.: 2022.019  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

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1	15% SD	09.30.22	PGA
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**DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM**



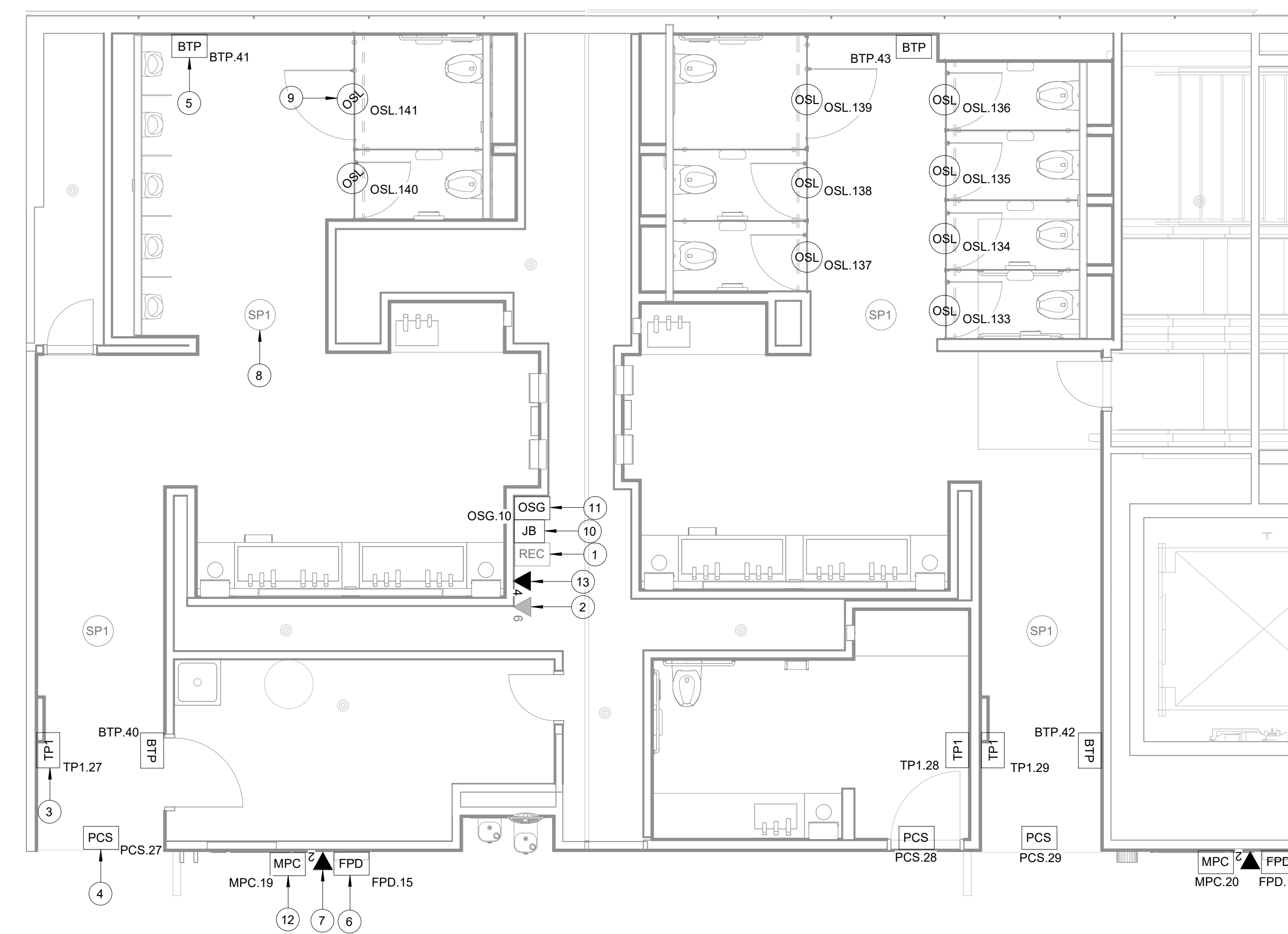
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SHEET No. T-104 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No. :  
PLOT DATE:

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/2022.019 - RDLR (HOU RR RENOV PH3).rvt

HAS FILE:



**A1 TECHNOLOGY - FLOORPLAN RESTROOMS 58-59**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

1. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
2. REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION.
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4. SCREENED DEVICES DENOTE EXISTING.
5. TURN OVER ANY DEMO'D TECHNOLOGY DEVICES TO HAS IT.

**LEGEND**

- BTP BLUETOOTH BEACON PUCK
- FPD FLAT PANEL DISPLAY
- HCM HORIZONTAL CABLE MANAGEMENT
- JB JUNCTION BOX
- MPC MINIATURE COMPUTER
- OSG BATHROOM STALL OCCUPANCY SENSOR GATEWAY
- OSL BATHROOM STALL OCCUPANCY SENSOR LIGHT
- PWR POWER SUPPLY
- PCS PASSENGER COUNTER SENSOR
- REC REMOTE EQUIPMENT ENCLOSURE
- SP1 AV SPEAKER TYPE 1
- TP1 TOUCH PANEL / TABLET

**KEYED NOTES**

1. EXISTING WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
2. EXISTING 6-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED INSIDE EXISTING REC.
3. REPLACE EXISTING IPAD WITH SAMSUNG GALAXY A71 LTE. MOUNT TO WALL WITH ARMOR ACTIVE ELITE ENCLOSURE AND WEDGE MOUNT. WITH A BOUNCEPAD VESA MAXI CASE. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION AS REQUIRED.
4. REPLACE EXISTING PASSENGER COUNT SENSOR WITH XOVIS PC2-S. MOUNTED WITH PA-PC2-FM - FLUSH MOUNT KIT. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION. (1) CAT6 CABLE ROUTED THROUGH A 1" C. TO EXISTING REC.
5. REPLACE EXISTING BLUETOOTH BEACON PUCK WITH KONTAKT.IO ANCHOR BEACON 2. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
6. FLAT PANEL DISPLAY, LG 32SM5KE. MOUNTED TO WALL WITH SMARTMOUNT SF832P.
7. 2-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED TO WALL. 2 CAT6 CABLE ROUTED THROUGH A 1" C TO EXISTING REC. FED FROM 4-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED INSIDE EXISTING REC. REFERENCE KEYNOTE 13 AND SHEET T-401.
8. EXISTING CEILING SPEAKER (SP1). RE-ZONE SPEAKERS TO INCLUDE, "BACKGROUND MUSIC." DSP PROGRAMMING CHANGES SHALL BE SUBCONTRACTED THROUGH HAS PA SYSTEM CONTRACT HOLDER. CONTACT HAS IT FOR POINT OF CONTACT.
9. BATHROOM STALL OCCUPANCY LIGHTS. ZURN Z-LIGHT-W1. MOUNT AT 6" INSIDE THE STALL. MEASURED FROM THE STALL DOOR AS PER MANUFACTURER INSTALLATION INSTRUCTIONS.
10. LOCATION OF JUNCTION BOX FOR BATHROOM STALL OCCUPANCY LIGHTS POWER SUPPLY. JUNCTION BOX TO HAVE 1" CONDUIT ROUTED TO CEILING.
11. BATHROOM STALL OCCUPANCY LIGHT GATEWAY. ZURN ZGW-WRP-W1-ETH. PLACE INSIDE NEW WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
12. MINI COMPUTER, NOW MICRO DMPS-2200. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
13. 4-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED INSIDE EXISTING REC. 4 CAT6 CABLE ROUTED FROM BDF 102.39 THROUGH A 1" C TO EXISTING REC.



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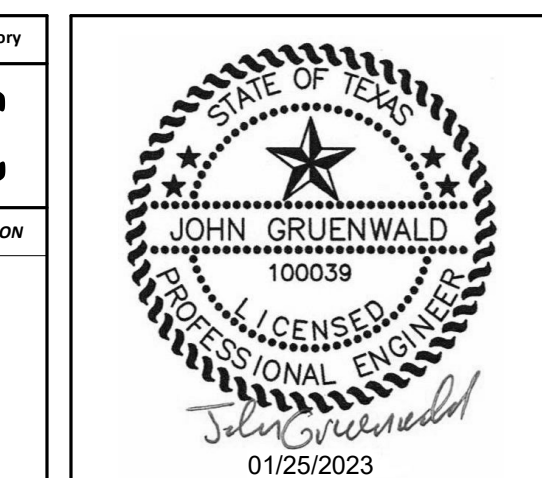
DESIGNER PROJECT No.: 2022.019  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	PGA
2	30% CD	10.28.22	PGA
3	95% CD	12.09.22	PGA
4	IFC	01.25.23	PGA

DESIGN BY: PGA  
DRAWN BY: AC  
CHECKED BY: JG  
ISSUE DATE: 01/25/23  
APPROVED BY: Approver  
APPROVAL DATE: 01/25/2023

**DIRECTOR  
of  
HOUSTON AIRPORT SYSTEM**

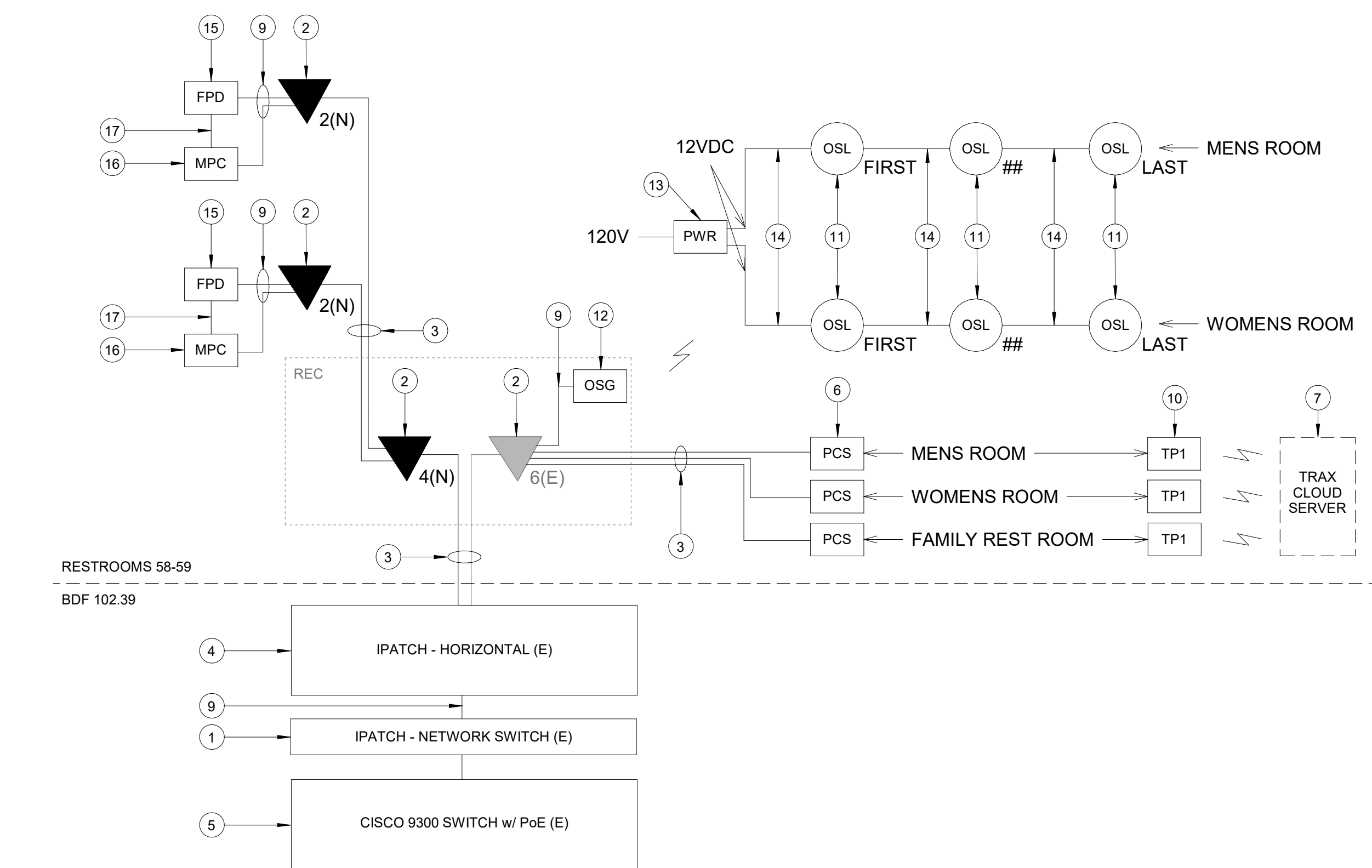


SHEET NAME: TECHNOLOGY - FLOORPLAN RESTROOMS 58-59  
SHEET No. T-105 SCALE: 1/4" = 1'-0"  
SHEET SIZE: 30"x42" ARCH E1

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No. :  
PLOT DATE:

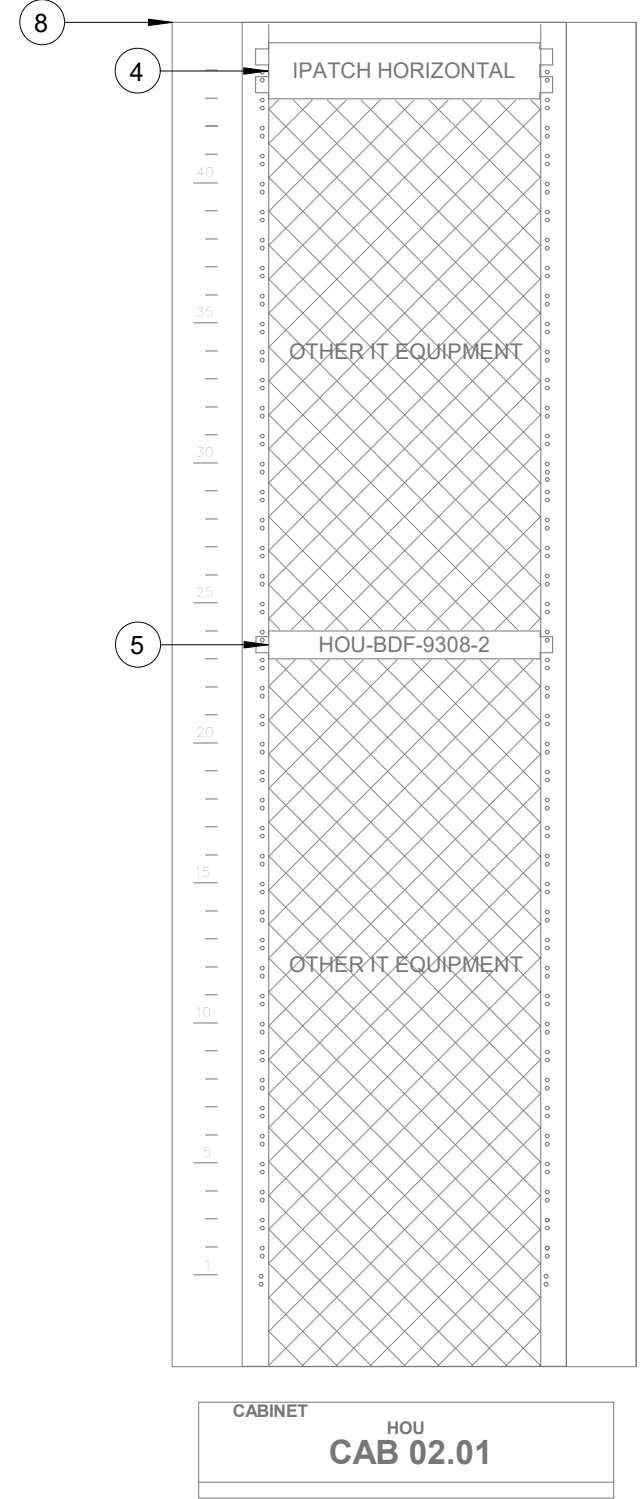
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HAS FILE:

**A2 TECHNOLOGY - ENLARGED PLAN - BDF 102.39**  
SCALE: 1/2" = 1'-0"



**A1 BDF 102.39 - ONE LINE DIAGRAM**  
SCALE: NTS

**C3 BDF 102.39 - CABINET/RACK ELEVATIONS**  
SCALE: 1" = 1'-0"



**GENERAL NOTES**

- TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
- COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
- SCREENED DEVICES DENOTES EXISTING.

**LEGEND**

- BTP** BLUETOOTH BEACON PUCK
- FPD** FLAT PANEL DISPLAY
- HCM** HORIZONTAL CABLE MANAGEMENT
- JB** JUNCTION BOX
- MPC** MINIATURE COMPUTER
- OSG** BATHROOM STALL OCCUPANCY SENSOR GATEWAY
- OSL** BATHROOM STALL OCCUPANCY SENSOR LIGHT
- PWR** POWER SUPPLY
- PCS** PASSENGER COUNTER SENSOR
- REC** REMOTE EQUIPMENT ENCLOSURE
- SP1** AV SPEAKER TYPE 1
- TP1** TOUCH PANEL / TABLET

**KEYED NOTES**

- (NOT USED)
- CATEGORY 6 DATA RECEPTACLE.
- CATEGORY 6 CABLES.
- IPATCH HORIZONTAL. (E)
- CISCO 9300 NETWORK SWITCH. (E)
- PASSENGER COUNT SENSOR. XOVIS PC2-S. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- TRAX CLOUD SERVER, LOCATED OFFSITE.
- EQUIPMENT CABINET "02.01" (E). REFERENCE DETAIL "C3" ON THIS SHEET.
- CATEGORY 6 PATCH CORDS.
- TABLET, SAMSUNG GALAXY A7. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- BATHROOM STALL OCCUPANCY LIGHTS, ZURN Z-LIGHT-W1. EXACT NUMBER DAISY-CHAINED NOT SHOWN, REFERENCE SHEET T-105.
- BATHROOM STALL OCCUPANCY LIGHT GATEWAY, ZURN ZGW-WBP-W1-ETH. LOCATED IN RESTROOM 58-59 JANITOR CLOSET REC. REFERENCE SHEET T-105.
- BATHROOM STALL OCCUPANCY LIGHT POWER SUPPLY, ZURN Z-PWRSUP-W1. MUST BE HARD WIRED BY ELECTRICIAN AND INSTALLED INTO A STANDARD 4-1/16" SQUARE METAL JUNCTION BOX IN ACCORDANCE WITH APPLICABLE LOCAL ELECTRIC CODE. REFERENCE SPECIFICATIONS.
- PLENUM RATED 16 GAUGE 2 CONDUCTOR WIRE. REFERENCE SPECIFICATIONS.
- EXISTING FLAT PANEL DISPLAY, LG 32SM5KE.
- MINI COMPUTER, NOW MICRO DMPS-2200. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- HDMI CABLE.



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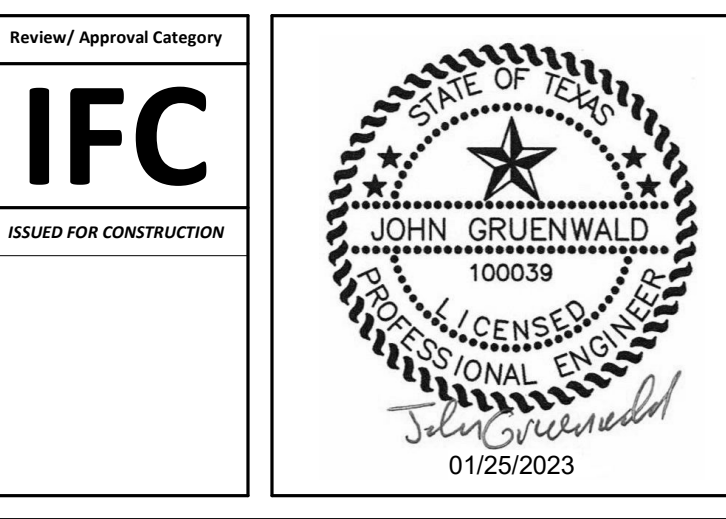
DESIGNER PROJECT No.: 2022.019  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

**REVISIONS**

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4	IFC	01.25.23	PGA

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DRAWN BY: AC  
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APPROVAL DATE: 01/25/2023

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SHEET NAME: TECHNOLOGY - ENLARGED PLAN - BDF 102.39  
SHEET No. T-401 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1



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APPROVAL DATE: 01/25/2023

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SHEET NAME:  
TECHNOLOGY - ENLARGED PLAN - IDF 201.31

SHEET No. T-402 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

#### GENERAL NOTES

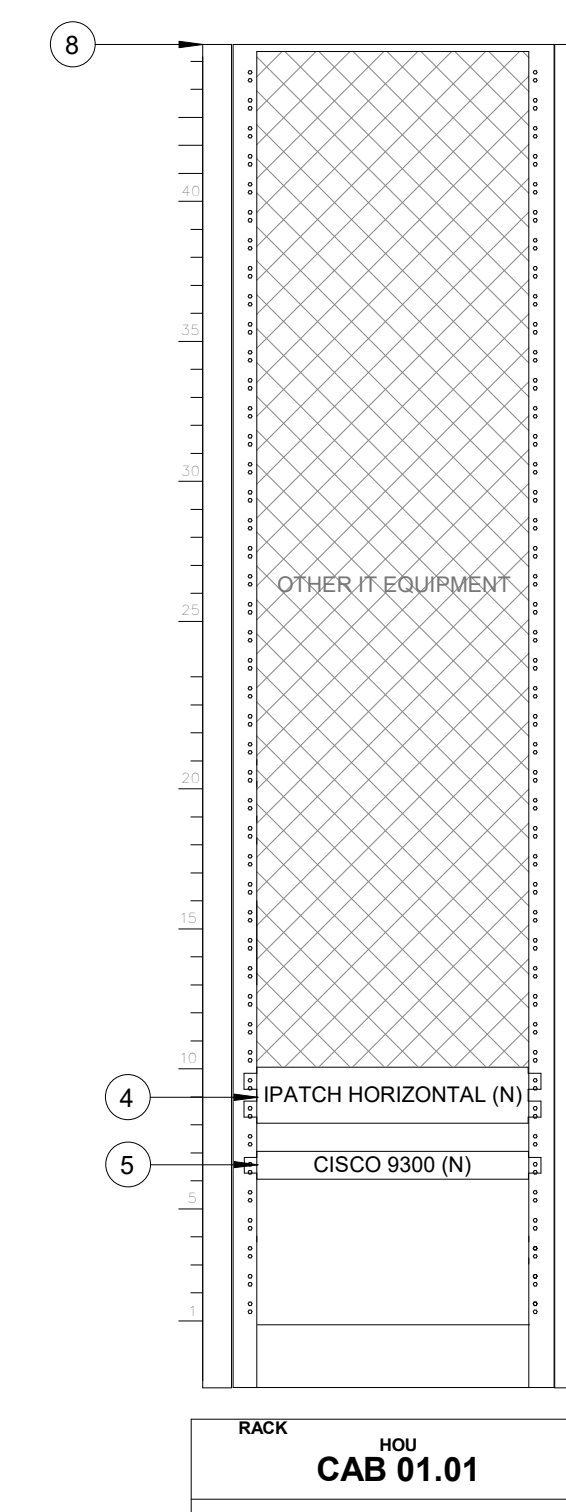
- TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
- COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
- SCREENED DEVICES DENOTES EXISTING.

#### LEGEND

- BLUETOOTH BEACON PUCK
- FLAT PANEL DISPLAY
- HORIZONTAL CABLE MANAGEMENT
- JUNCTION BOX
- MINIATURE COMPUTER
- BATHROOM STALL OCCUPANCY SENSOR GATEWAY
- BATHROOM STALL OCCUPANCY SENSOR LIGHT
- POWER SUPPLY
- PASSENGER COUNTER SENSOR
- REMOTE EQUIPMENT ENCLOSURE
- AV SPEAKER TYPE 1
- TOUCH PANEL / TABLET

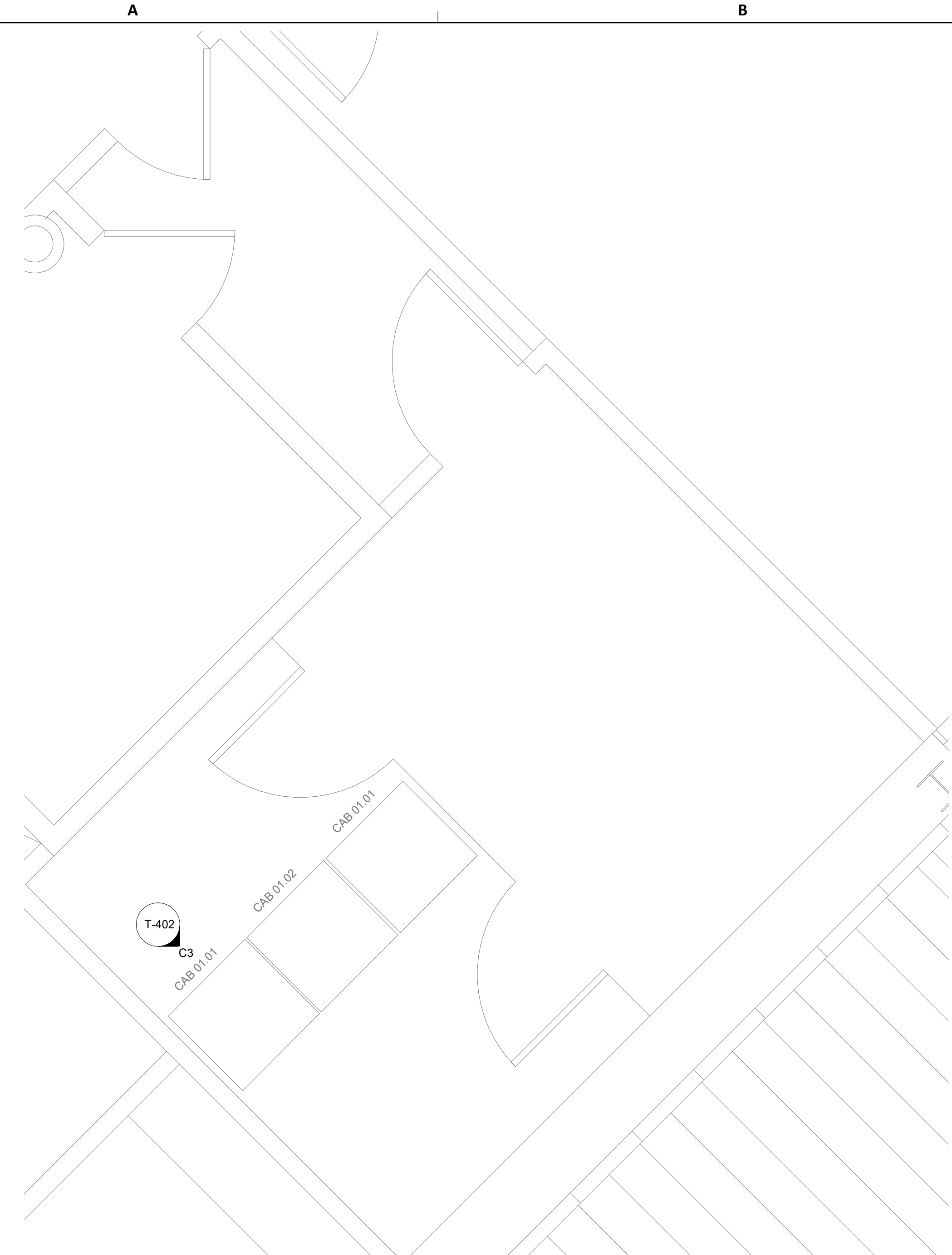
#### KEYED NOTES

- (NOT USED.)
- CATEGORY 6 DATA RECEPTACLE.
- CATEGORY 6 CABLES.
- IPATCH HORIZONTAL (N)
- CISCO 9300 NETWORK SWITCH (N)
- PASSENGER COUNT SENSOR, XOVIS PC2-S. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- TRAX CLOUD SERVER, LOCATED OFFSITE.
- EQUIPMENT CABINET "01.01" (E), REFERENCE DETAIL "C3" ON THIS SHEET.
- CATEGORY 6 PATCH CORDS. QUANTITY AS REQUIRED.
- TABLET, SAMSUNG GALAXY A7. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- BATHROOM STALL OCCUPANCY LIGHTS, ZURN Z-LIGHT-W1. EXACT NUMBER DAISY-CHAINED NOT SHOWN, REFERENCE SHEETS T-103/104.
- BATHROOM STALL OCCUPANCY LIGHT GATEWAY, ZURN ZGW-WRP-W1-ETH. LOCATED IN GATE 40-43 RESTROOM JANITOR CLOSET REC, REFERENCE SHEETS T-103/104.
- BATHROOM STALL OCCUPANCY LIGHT POWER SUPPLY, ZURN Z-PWRSUP-W1. MUST BE HARD WIRED BY ELECTRICIAN AND INSTALLED INTO A STANDARD 4-1/16" SQUARE METAL JUNCTION BOX IN ACCORDANCE WITH APPLICABLE LOCAL ELECTRIC CODE. REFERENCE SPECIFICATIONS.
- PLENUM RATED 16 GAUGE 2 CONDUCTOR WIRE. REFERENCE SPECIFICATIONS.
- EXISTING FLAT PANEL DISPLAY, LG 32SM5KE.
- MINI COMPUTER, NOW MICRO DMPS-2200. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- HDMI CABLE.



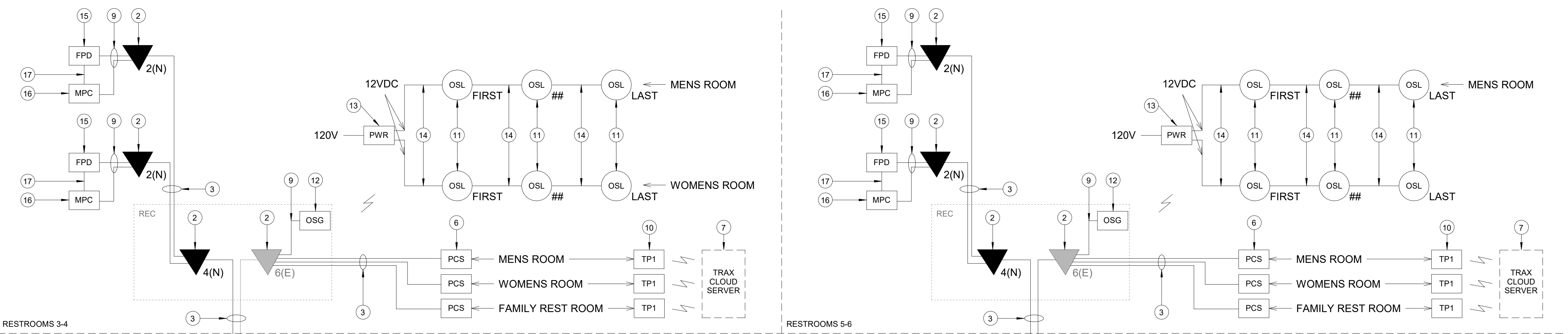
### C3 IDF 201.31 - CABINET/RACK ELEVATIONS

SCALE: 1" = 1'-0"



### A2 TECHNOLOGY - ENLARGED PLAN - IDF 201.31

SCALE: 1/2" = 1'-0"



### A1 IDF 201.31 - ONE LINE DIAGRAM

SCALE: NTS

FILE PATH: BIM 360//1429 Hobby Restroom Renovation Phase III/2022.01.19 - RDLR (HOU RR RENOV PH3).rvt  
PLOT DATE: DOA DWG FILE: OLD DOA No.: PLOT DATE:

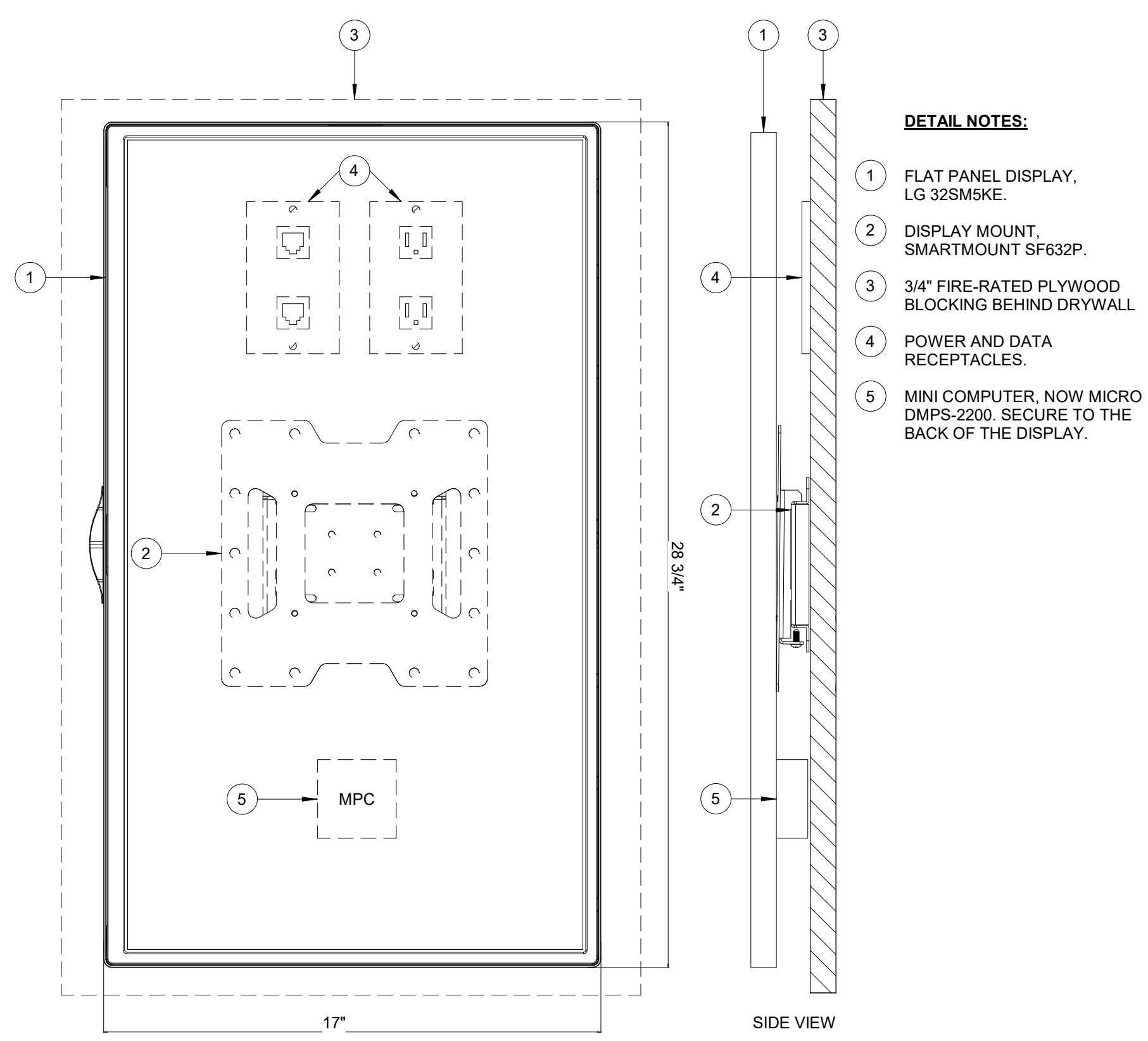
**REVISIONS**

No.	DESCRIPTION	DATE	BY
1	15% SD	09.30.22	PGA
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DESIGN BY: PGA  
DRAWN BY: AC  
CHECKED BY: JG  
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APPROVAL DATE: 01/25/2023

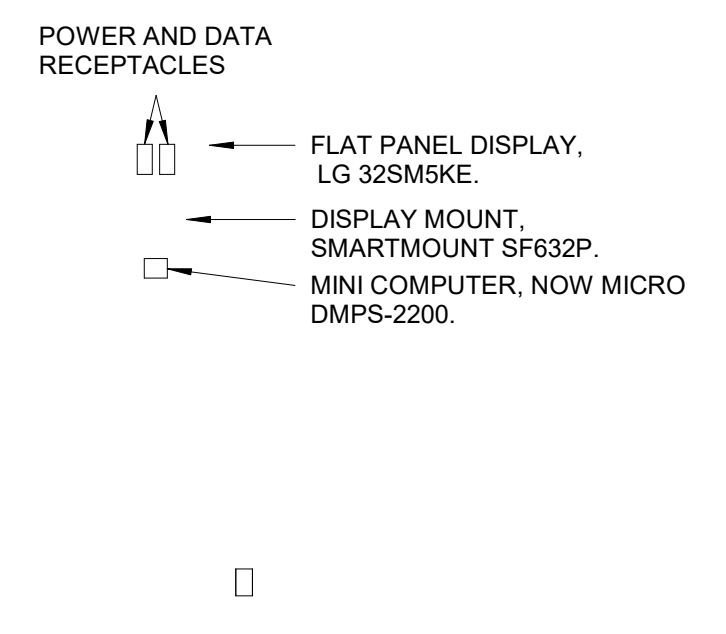
**DIRECTOR**  
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Review/Approval Category  
**IFC**  
ISSUED FOR CONSTRUCTION

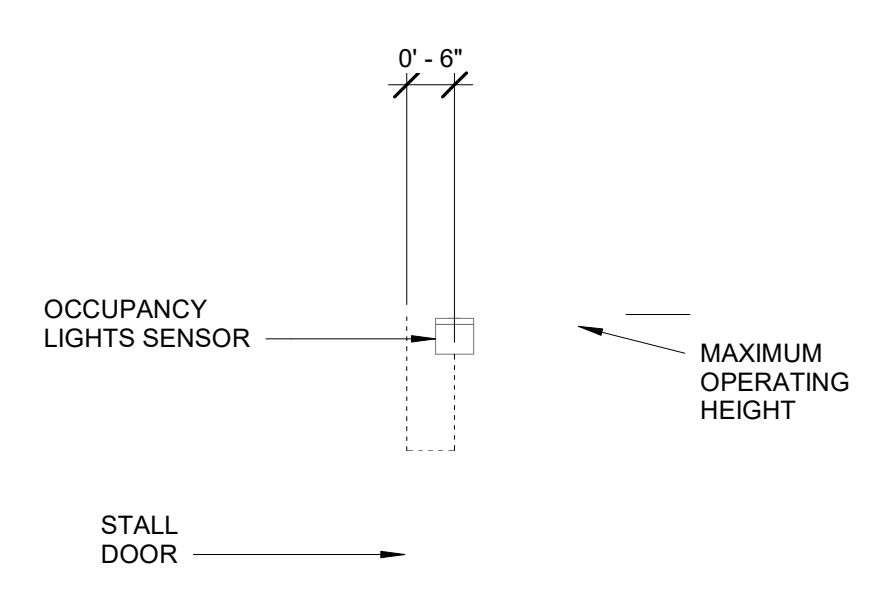


- DETAIL NOTES:**
- 1 FLAT PANEL DISPLAY, LG 32SM5KE.
  - 2 DISPLAY MOUNT, SMARTMOUNT SF832P.
  - 3 3/4" FIRE-RATED PLYWOOD BLOCKING BEHIND DRYWALL.
  - 4 POWER AND DATA RECEPTACLES.
  - 5 MINI COMPUTER, NOW MICRO DMP5-2200. SECURE TO THE BACK OF THE DISPLAY.

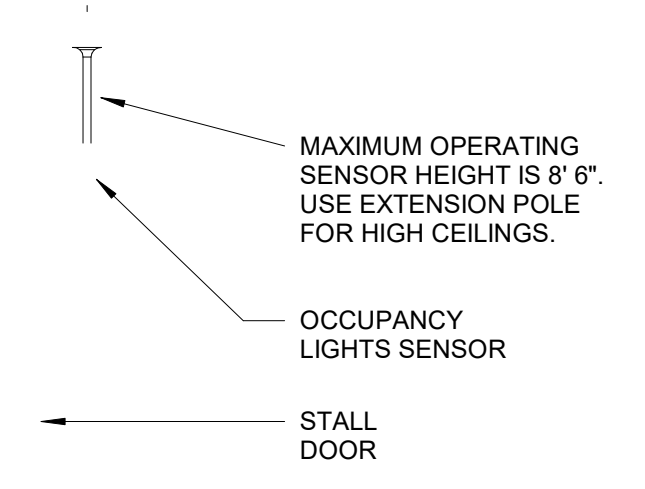
**A3 FLAT PANEL DISPLAY WITH MOUNT**  
SCALE: NTS



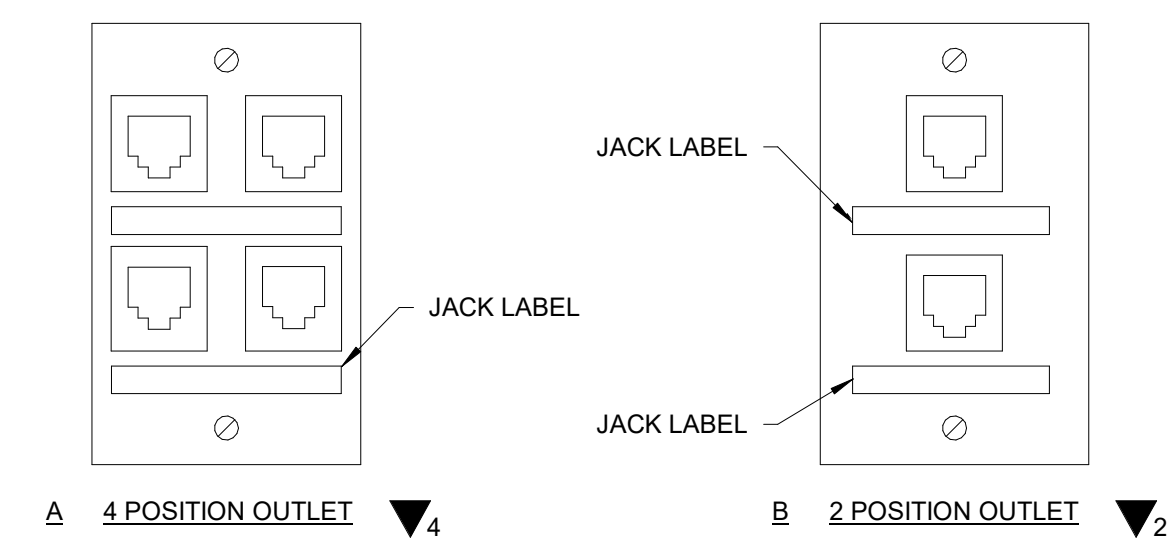
**B3 DISPLAY ELEVATION**  
SCALE: 3/8" = 1'-0"



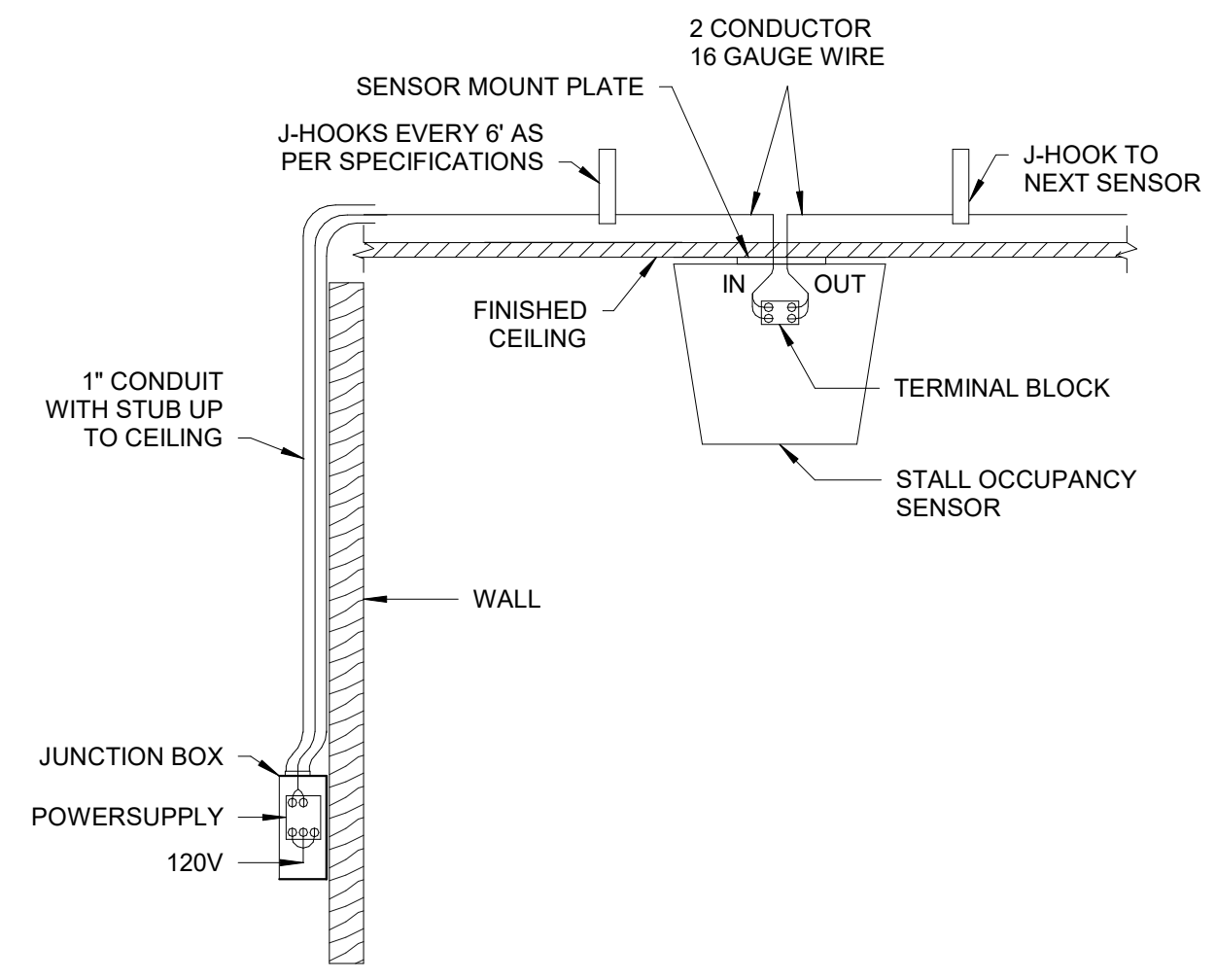
**C3 SENSOR DIAGRAM**  
SCALE: 1/2" = 1'-0"



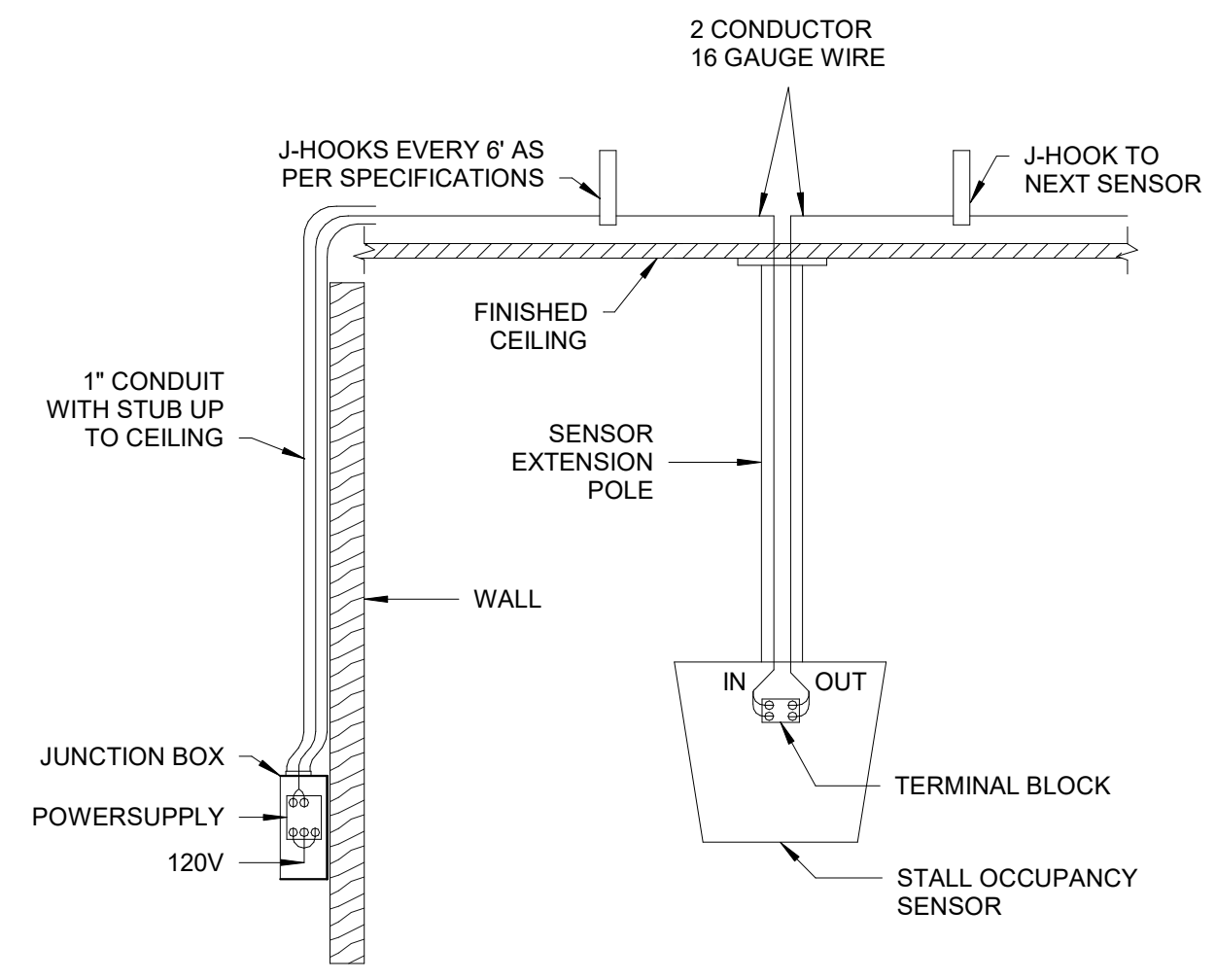
**D3 SENSOR DIAGRAM HIGH CEILING**  
SCALE: 1/2" = 1'-0"



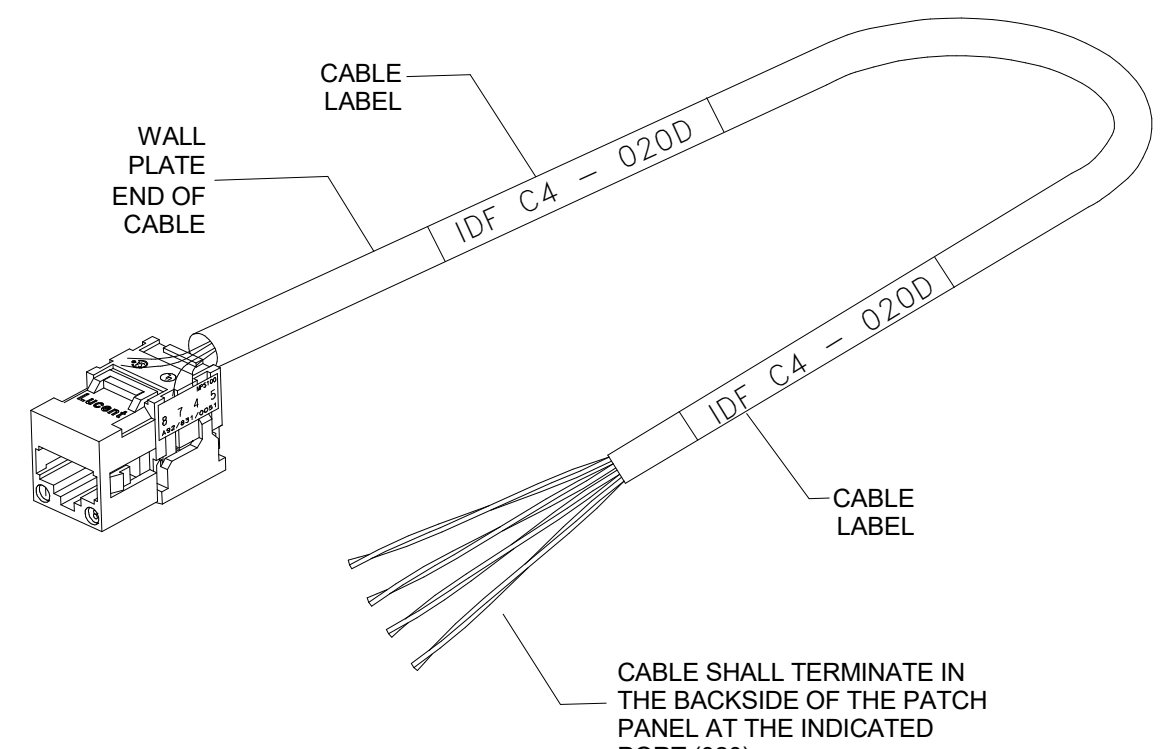
**A2 COVERPLATE DETAIL**  
SCALE: NTS



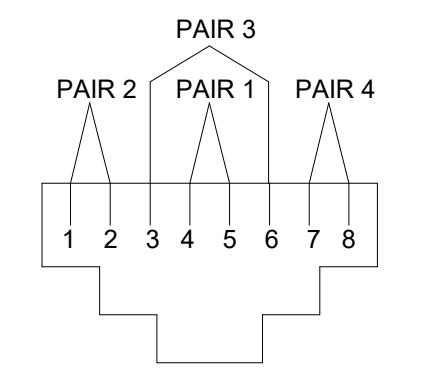
**B2 STALL SENSOR INSTALLATION DETAIL**  
SCALE: NTS



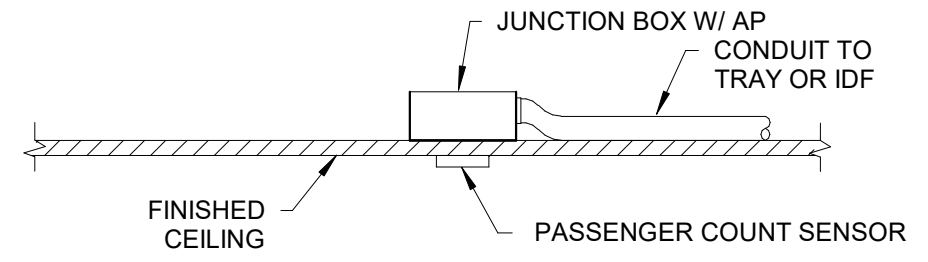
**C2 STALL SENSOR INSTALLATION DETAIL**  
SCALE: NTS



**A1 CABLE LABEL DETAIL**  
SCALE: NTS



**B1 TERMINATION DETAIL**  
SCALE: NTS



**C1 PASSENGER COUNT SENSOR INSTALLATION DETAIL**  
SCALE: NTS

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/2022.019 - RDLR (HOU RR RENOV PH3).rvt  
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 PLOT DATE:  
 OLD DWA No. :  
 DOA DWG FILE:  
 PLOT DATE:



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### HAS HOBBY AIRPORT RESTROOMS PHASE 3

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TBP# FRM #12493

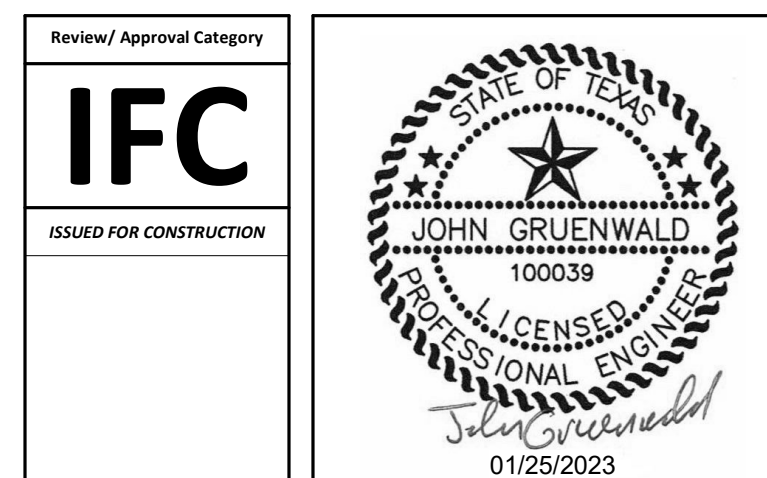
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TECHNOLOGY SCHEDULE				
DEVICE ID	LOCATION	MANUFACTURER	MODEL	COMMENTS
BTP.32	RESTROOM 3-4	KONTAKT.IO	ANCHOR BEACON 2	
BTP.33	RESTROOM 3-4	KONTAKT.IO	ANCHOR BEACON 2	
BTP.34	RESTROOM 3-4	KONTAKT.IO	ANCHOR BEACON 2	
BTP.35	RESTROOM 3-4	KONTAKT.IO	ANCHOR BEACON 2	
BTP.36	RESTROOMS 5-6	KONTAKT.IO	ANCHOR BEACON 2	
BTP.37	RESTROOMS 5-6	KONTAKT.IO	ANCHOR BEACON 2	
BTP.38	RESTROOMS 5-6	KONTAKT.IO	ANCHOR BEACON 2	
BTP.39	RESTROOMS 5-6	KONTAKT.IO	ANCHOR BEACON 2	
BTP.40	RESTROOMS 58-59	KONTAKT.IO	ANCHOR BEACON 2	
BTP.41	RESTROOMS 58-59	KONTAKT.IO	ANCHOR BEACON 2	
BTP.42	RESTROOMS 58-59	KONTAKT.IO	ANCHOR BEACON 2	
BTP.43	RESTROOMS 58-59	KONTAKT.IO	ANCHOR BEACON 2	
BTP.44	RESTROOMS 58-59			
BTP.45	RESTROOM 3-4			
FDP.11	RESTROOM 3-4	LG	32SM5KE	
FDP.12	RESTROOM 3-4	LG	32SM5KE	
FPD.13	RESTROOMS 5-6	LG	32SM5KE	
FPD.14	RESTROOMS 5-6	LG	32SM5KE	
FPD.15	RESTROOMS 58-59	LG	32SM5KE	
FPD.16	RESTROOMS 58-59	LG	32SM5KE	
MPC.15	RESTROOM 3-4	NOW MICRO	DMPS-2200	
MPC.16	RESTROOM 3-4	NOW MICRO	DMPS-2200	
MPC.17	RESTROOMS 5-6	NOW MICRO	DMPS-2200	
MPC.18	RESTROOMS 5-6	NOW MICRO	DMPS-2200	
MPC.19	RESTROOMS 58-59	NOW MICRO	DMPS-2200	
MPC.20	RESTROOMS 58-59	NOW MICRO	DMPS-2200	
OSG.08	RESTROOM 3-4	ZURN	ZGW-WRP-W1-ETH	
OSG.09	RESTROOM 5-6	ZURN	ZGW-WRP-W1-ETH	
OSG.10	RESTROOMS 58-59	ZURN	ZGW-WRP-W1-ETH	
OSL.116	RESTROOM 3-4	ZURN	Z-LIGHT-W1	
OSL.117	RESTROOM 3-4	ZURN	Z-LIGHT-W1	
OSL.118	RESTROOM 3-4	ZURN	Z-LIGHT-W1	
OSL.119	RESTROOM 3-4	ZURN	Z-LIGHT-W1	
OSL.120	RESTROOM 3-4	ZURN	Z-LIGHT-W1	
OSL.121	RESTROOM 3-4	ZURN	Z-LIGHT-W1	
OSL.122	RESTROOM 3-4	ZURN	Z-LIGHT-W1	
OSL.123	RESTROOM 3-4	ZURN	Z-LIGHT-W1	
OSL.124	RESTROOM 3-4	ZURN	Z-LIGHT-W1	
OSL.125	RESTROOMS 5-6	ZURN	Z-LIGHT-W1	
OSL.126	RESTROOMS 5-6	ZURN	Z-LIGHT-W1	
OSL.127	RESTROOMS 5-6	ZURN	Z-LIGHT-W1	
OSL.128	RESTROOMS 5-6	ZURN	Z-LIGHT-W1	
OSL.129	RESTROOMS 5-6	ZURN	Z-LIGHT-W1	
OSL.130	RESTROOMS 5-6	ZURN	Z-LIGHT-W1	
OSL.131	RESTROOMS 5-6	ZURN	Z-LIGHT-W1	
OSL.132	RESTROOMS 5-6	ZURN	Z-LIGHT-W1	
OSL.133	RESTROOMS 58-59	ZURN	Z-LIGHT-W1	
OSL.134	RESTROOMS 58-59	ZURN	Z-LIGHT-W1	
OSL.135	RESTROOMS 58-59	ZURN	Z-LIGHT-W1	
OSL.136	RESTROOMS 58-59	ZURN	Z-LIGHT-W1	
OSL.137	RESTROOMS 58-59	ZURN	Z-LIGHT-W1	
OSL.138	RESTROOMS 58-59	ZURN	Z-LIGHT-W1	
OSL.139	RESTROOMS 58-59	ZURN	Z-LIGHT-W1	
OSL.140	RESTROOMS 58-59	ZURN	Z-LIGHT-W1	
OSL.141	RESTROOMS 58-59	ZURN	Z-LIGHT-W1	
PCS.21	RESTROOM 3-4	XOVIS	PC2-S	
PCS.22	RESTROOM 3-4	XOVIS	PC2-S	
PCS.23	RESTROOM 3-4	XOVIS	PC2-S	
PCS.24	RESTROOMS 5-6	XOVIS	PC2-S	
PCS.25	RESTROOMS 5-6	XOVIS	PC2-S	
PCS.26	RESTROOMS 5-6	XOVIS	PC2-S	
PCS.27	RESTROOMS 58-59	XOVIS	PC2-S	
PCS.28	RESTROOMS 58-59	XOVIS	PC2-S	
PCS.29	RESTROOMS 58-59	XOVIS	PC2-S	
TP1.21	RESTROOM 3-4	SAMSUNG	GALAXY A7	
TP1.22	RESTROOM 3-4	SAMSUNG	GALAXY A7	
TP1.23	RESTROOM 3-4	SAMSUNG	GALAXY A7	
TP1.24	RESTROOMS 5-6	SAMSUNG	GALAXY A7	
TP1.25	RESTROOMS 5-6	SAMSUNG	GALAXY A7	
TP1.26	RESTROOMS 5-6	SAMSUNG	GALAXY A7	
TP1.27	RESTROOMS 58-59	SAMSUNG	GALAXY A7	
TP1.28	RESTROOMS 58-59	SAMSUNG	GALAXY A7	
TP1.29	RESTROOMS 58-59	SAMSUNG	GALAXY A7	

### B1 EQUIPMENT SCHEDULE

SCALE: 1/16" = 1'-0"

FILE PATH: BIM 360/1429 Hobby Restroom Renovation Phase III/2022.01.9 - RDLR (HOU RR RENOV PH3).rvt

HAS FILE:

PLOT DATE:  
DOA DWG FILE:  
OLD DOA No. :  
PLOT DATE: