

UPGRADE ELECTRICAL AND RESTROOMS, GRANDSTAND MISSOURI STATE FAIRGROUNDS SEDALIA, MO



OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

DEPARTMENT OF AGRICULTURE
MISSOURI STATE FAIRGROUNDS

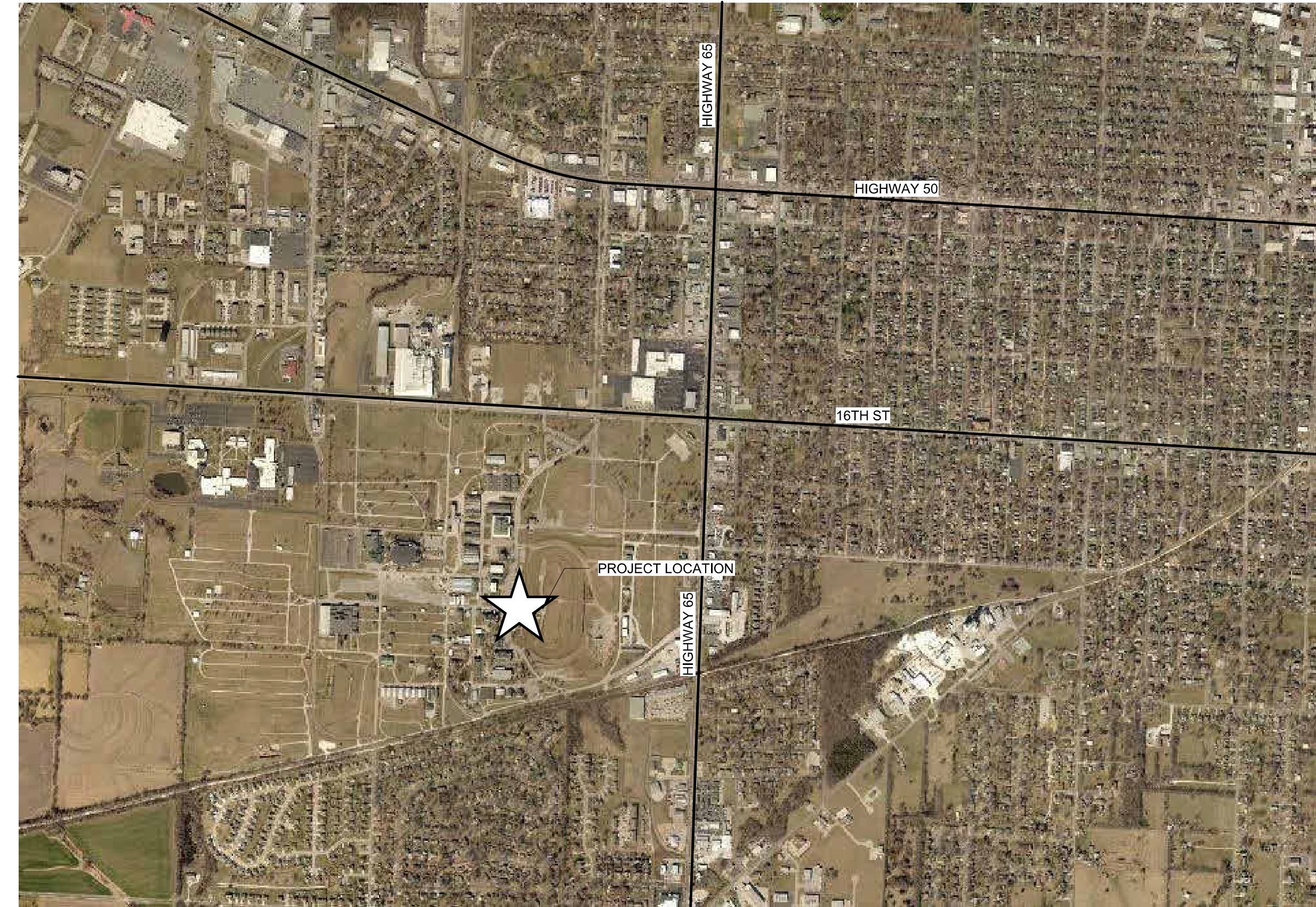
PROJECT
MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: ROBERT ROLLINGS
ARCHITECTS, LLC

PROJECT NUMBER: F2304-01

SITE NUMBER: 1501
ASSET NUMBER: 3511501018

NOTE:
 THESE DRAWINGS, ALONG WITH THE PROJECT SPECIFICATIONS, REPRESENT A UNIFIED SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL DRAWINGS IN THIS SET, REGARDLESS OF SHEET NUMBER AND DISCIPLINE, AND SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF OTHER TRADES. ANY APPARENT DISCREPANCIES BETWEEN DRAWINGS OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
 DO NOT BID FROM PARTIAL SETS OF BID DOCUMENTS.
 BY SUBMITTING A BID, BIDDERS REPRESENT THAT THEY HAVE VISITED THE SITE, BECOME FAMILIAR WITH THE BID DOCUMENTS IN THEIR ENTIRETY AND WITH LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND HAVE CORRELATED THE BIDDERS PERSONAL OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.



2 SITE MAP, SEDALIA, MO
 G-002 NTS



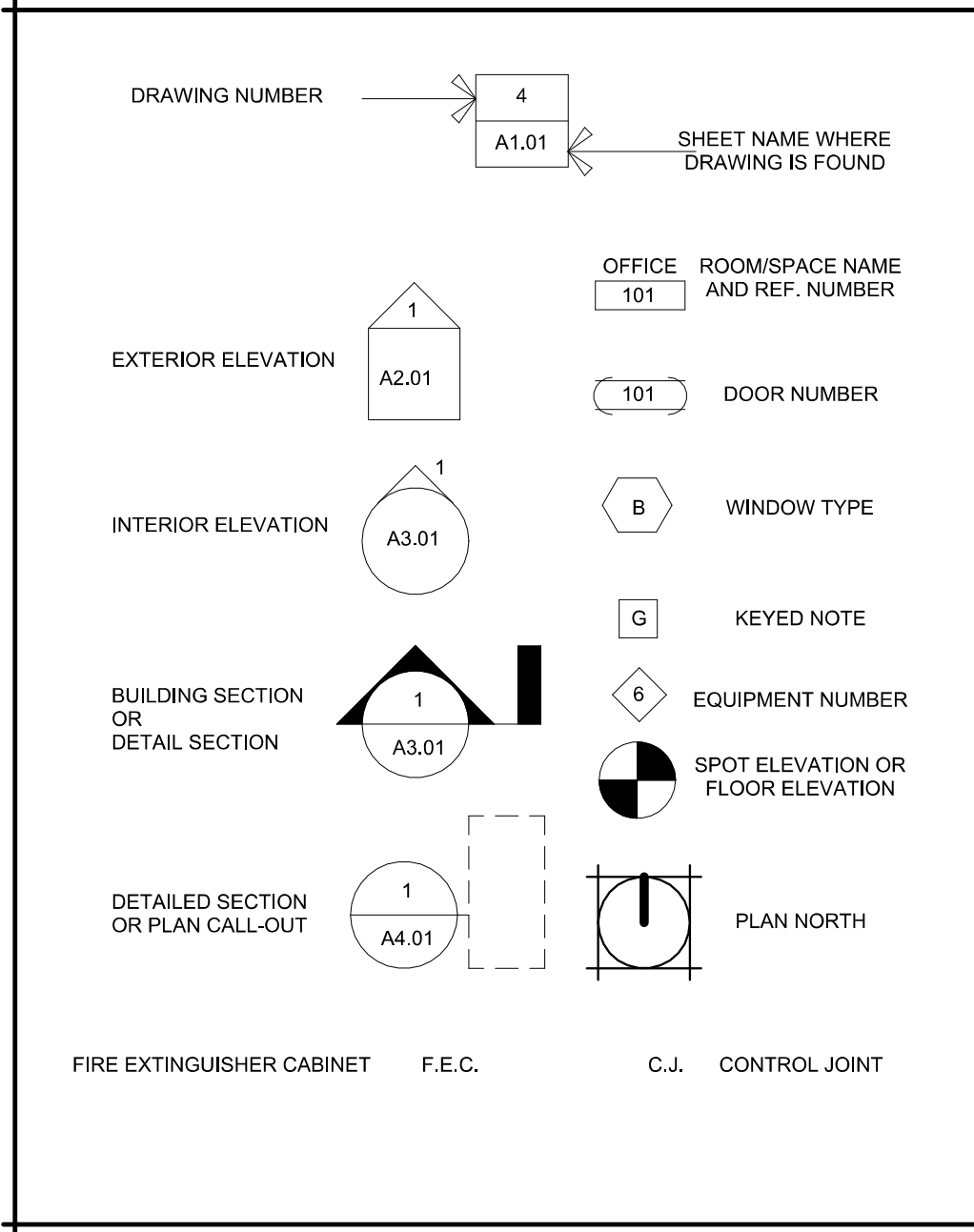
3 PROJECT LOCATION
 G-002 NTS

A-110

SHEET IN SERIES

DISCIPLINE	SERIES
A ARCHITECTURAL	0 GENERAL INFORMATION
C CIVIL	1 PLANS
E ELECTRICAL	2 EXTERIOR ELEVATIONS
F FIRE PROTECTION	3 BUILDING SECTIONS
G GENERAL	4 LARGE SCALE VIEWS
H HAZARDOUS MATERIALS	5 DETAILS
I INTERIORS	6 SCHEDULES & DIAGRAMS
L LANDSCAPE	7 REFLECTED CEILING PLANS
M MECHANICAL	8 STAIRS AND ELEVATORS
P PLUMBING	9 3D REPRESENTATIONS
Q EQUIPMENT	
R RESOURCES	
S STRUCTURAL	
T TELECOMMUNICATIONS	
X OTHER DISCIPLINES	
Z CONTRACTOR/SHOP DRAWINGS	

4	SHEET NAMING CONVENTION
A1.01	SHEET NAMES DO NOT DEFINE LIMITS OF WORK



SHEET ORDER	SHEET NUMBER	SHEET NAME
1	G-001	COVER SHEET
2	G-002	GENERAL INFORMATION
3	S-100	GENERAL STRUCTURAL DATA & ROOF FRAMING PLAN
4	S-500	STRUCTURAL DETAILS
5	S-501	STRUCTURAL DETAILS
6	AD-101	DEMO / REFERENCE PLANS
7	AD-401	DEMOLITION DETAIL PLANS
8	A-101	PLANS
9	A-401	DETAIL PLAN VIEWS
10	A-402	INTERIOR ELEVATIONS
11	A-501	MEMBRANE ROOF DETAILS
12	A-502	ADDITIONAL DETAILS
13	MEP-001	MEP GENERAL INFORMATION
14	D-101	SITE DEMOLITION PLAN
15	D-102	GRANDSTAND SEATING DEMOLITION PLAN
16	D-103	BELOW GRANDSTAND DEMOLITION PLAN
17	D-104	ENLARGED DEMOLITION PLANS
18	D-105	ENLARGED DEMOLITION PLANS
19	M-101	ENLARGED HVAC PLANS (PHASE 1)
20	E-101	SITE ELECTRICAL PLAN
21	E-102	ENLARGED POWER PLANS
22	E-103	ENLARGED STAGE POWER PLANS (PHASE 3 ALT. 1)
23	E-104	GRANDSTAND SEATING LIGHTING PLAN (PHASE 1)
24	E-105	BELOW GRANDSTAND LIGHTING PLAN (PHASE 1)
25	E-106	ENLARGED LIGHTING PLANS (PHASE 1)
26	E-501	ELECTRICAL DETAILS
27	E-502	ELECTRICAL DETAILS
28	E-601	ELECTRICAL SCHEDULES
29	E-602	ELECTRICAL SCHEDULES
30	P-101	ENLARGED PLUMBING PLANS (PHASE 1)

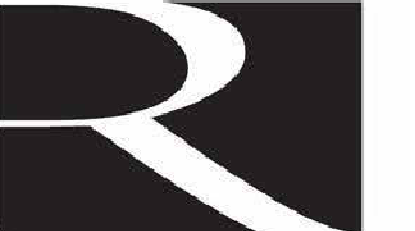
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STATE OF MISSOURI
 MICHAEL L. PARSON,
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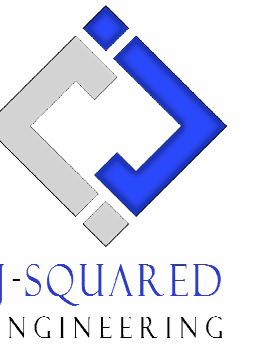


11.29.23

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OFFICE OF ADMINISTRATION
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UPGRADE ELECTRICAL AND
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 MISSOURI STATE
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 2503 W. 16TH ST.
 SEDALIA, MO 65301

PROJECT # T2304-01
 SITE # 1501
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REVISION:
 DATE: _____
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 DATE: _____

ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE: G-02
 DRAWN BY: AMK
 CHECKED BY: RDR
 DESIGNED BY: AMK

SHEET TITLE:
**GENERAL
 INFORMATION**

SHEET NUMBER:
G-002

GENERAL NOTES

ELEVATION DATUM
SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS
2018 INTERNATIONAL BUILDING CODE

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

1. CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:
FOUNDATIONS - 3,000 PSI
CAST-IN-PLACE WALLS - 3,500 PSI
FLOOR SLAB - 4,000 PSI
EXTERIOR SLABS, WALLS AND CURBS - 4,000 PSI
2. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
3. CHLORIDE-BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
5. ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION.
6. CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
7. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
8. CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINMENT AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
9. SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
10. READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
11. CONCRETE WORK EXECUTION
 - A. CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
 - B. POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
CAST AGAINST AND EXPOSED TO EARTH.....3 INCHES
EXPOSED TO EARTH OR WEATHER.....2 INCHES
NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH.....1 1/4 INCHES
 - C. PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4" OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.
 - D. STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
 - E. CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.

STRUCTURAL STEEL

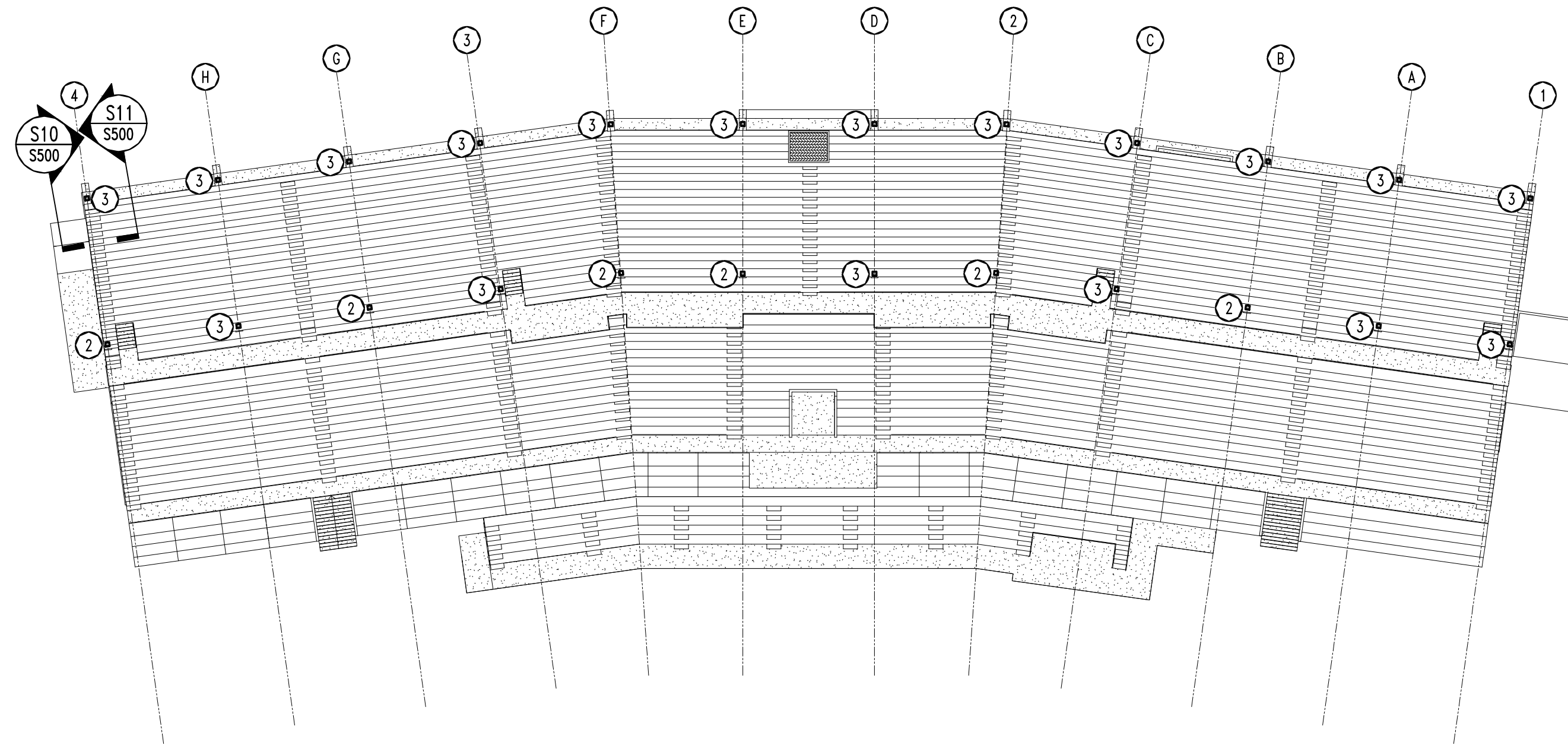
1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND CURRENT OSHA STANDARDS.
2. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
3. BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM A325-N, SIZE AS PER PLAN.
4. ANCHOR BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM F1554 GRADE 36.
5. SPlicing OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.
6. ALL STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL RECEIVE ONE COAT OF "IRONCLAD RETARDO RUST INHIBITIVE PAINT 163" (BENJAMIN MOORE) OR APPROVED EQUAL UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS. ALL STEEL SURFACES EMBEDDED IN CONCRETE SHALL NOT BE PAINTED. PREPARATION OF STEEL SURFACES SHALL MEET THE REQUIREMENTS OF THE STEEL STRUCTURES PAINTING COUNCIL (SSPC-SP1) AND THE REMOVAL OF GREASE AND OIL BY SOLVENT CLEANING (SSPC-SP1) AND THE REMOVAL OF MILL SCALE, RUST, WELD FLUX AND SLAG BY HAND TOOL CLEANING (SSPC-SP2). PRIMER SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE BUT NOT LESS THAN ONE GALLON PER 400 SQ.FT. THEREBY DEPOSITING A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. ANY SCARRED AREAS SHALL BE TOUCHED UP WITH THE SAME PAINT AFTER ERECTION.
7. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX.

SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO HIRE & ENSURE THE FOLLOWING INSPECTIONS HAVE BEEN PERFORMED ON THE PROJECT.

- a. CONCRETE GROUT DESIGN MIX (PERIODIC)
- b. PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- c. STRUCTURAL STEEL FABRICATIONS (UNLESS AISC APPROVED) (PERIODIC)
- d. STRUCTURAL STEEL BOLTING & WELDING (PERIODIC)

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.



1
S200
COLUMN LAYOUT PLAN
SCALE: 1/32" = 1'-0"
*GRID SYSTEM BASED ON SEATING SECTIONS.

REPAIR NOTES

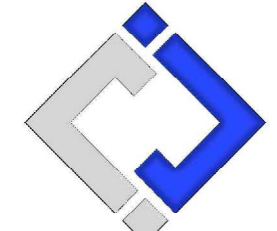
- 1 CONTRACTORS RESPONSIBILITY TO VISIT SITE PRIOR TO BIDDING TO UNDERSTAND COMPLEXITY OF ACCESS FOR COLUMN REPAIRS.
- 2 REPAIR COLUMN AS SHOWN IN DETAIL S1/S500.
- 3 INSTALL WEEP IN BASE OF COLUMN AS SHOWN IN DETAIL S1/S200. (ANGLE REINFORCING NOT REQUIRED AT THIS LOCATION.)



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MISSOURI STATE
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SEDALIA, MO 65301

PROJECT # T2304-01
SITE # 1501
ASSET # 3511501018

REVISION:
DATE: _____

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ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: SEH
CHECKED BY: JWV
DESIGNED BY: JWV

SHEET TITLE:

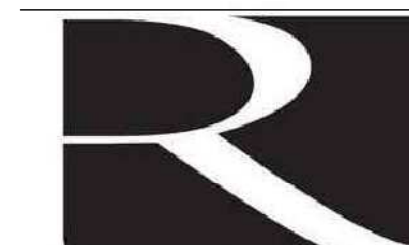
**GENERAL
STRUCTURAL
DATA & PLAN**

SHEET NUMBER:

S-100

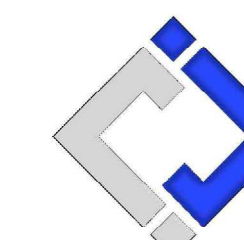


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DRAWN BY: SEH
CHECKED BY: JWV
DESIGNED BY: JWV

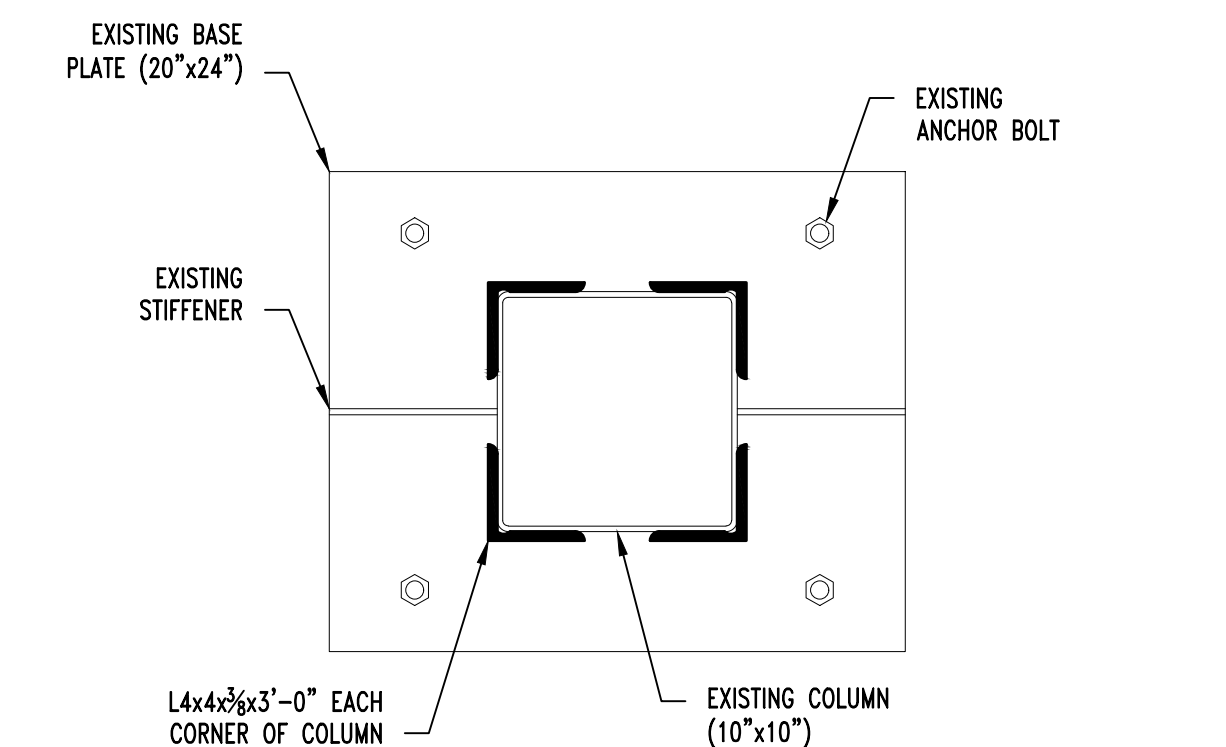
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**STRUCTURAL
DETAILS**

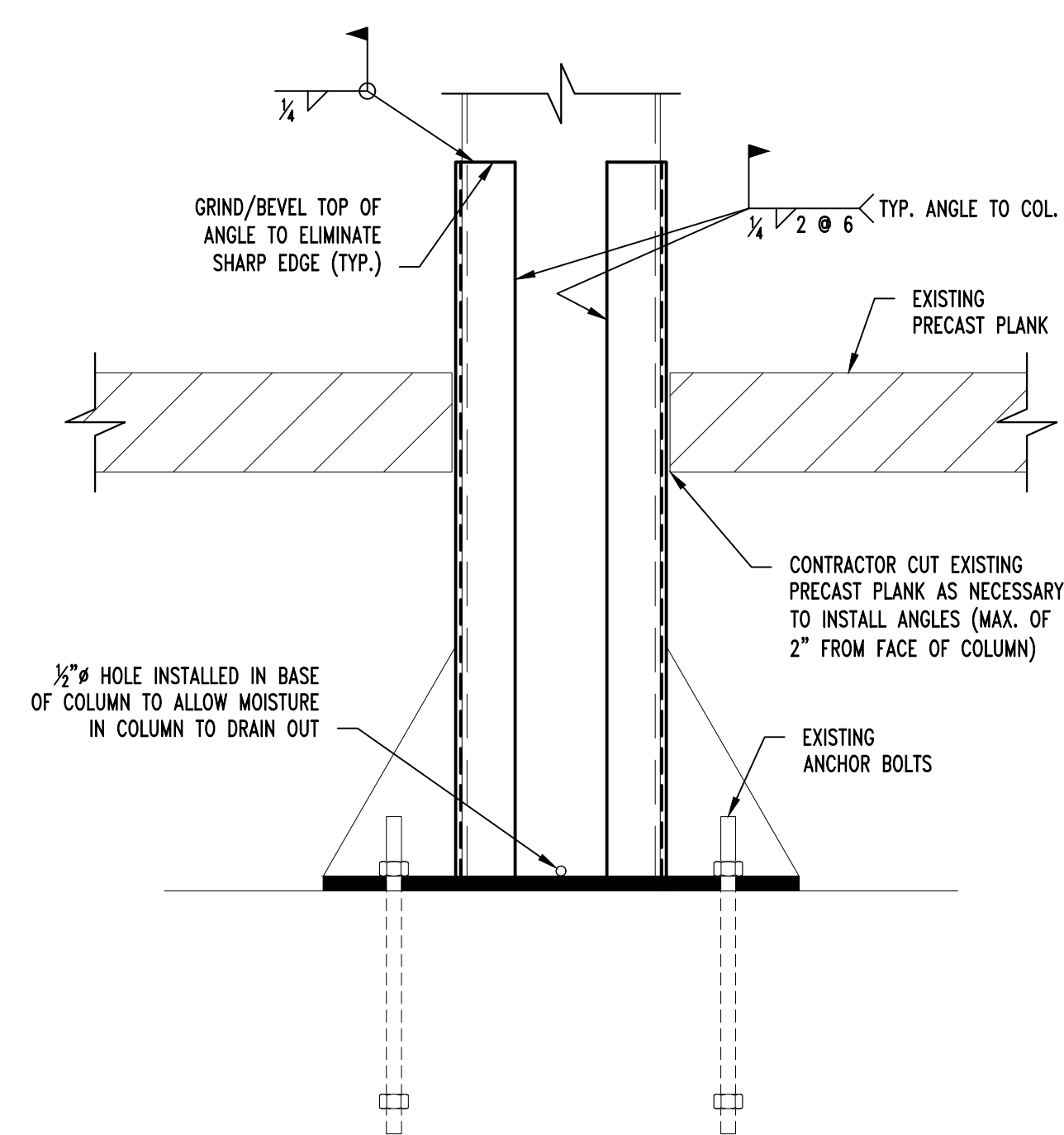
SHEET NUMBER:

S-500

SHEET 4 OF 30
11/29/2023



PLAN VIEW



COLUMN REPAIR DETAIL

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

NOTE:
COLUMN TO BE PAINTED ONCE
REPAIR IS COMPLETED. REFER TO
ARCH. FOR PAINT REQUIREMENTS.



CONCRETE SUPPORT AT GRID LINE 4 (NORTH FACE)

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

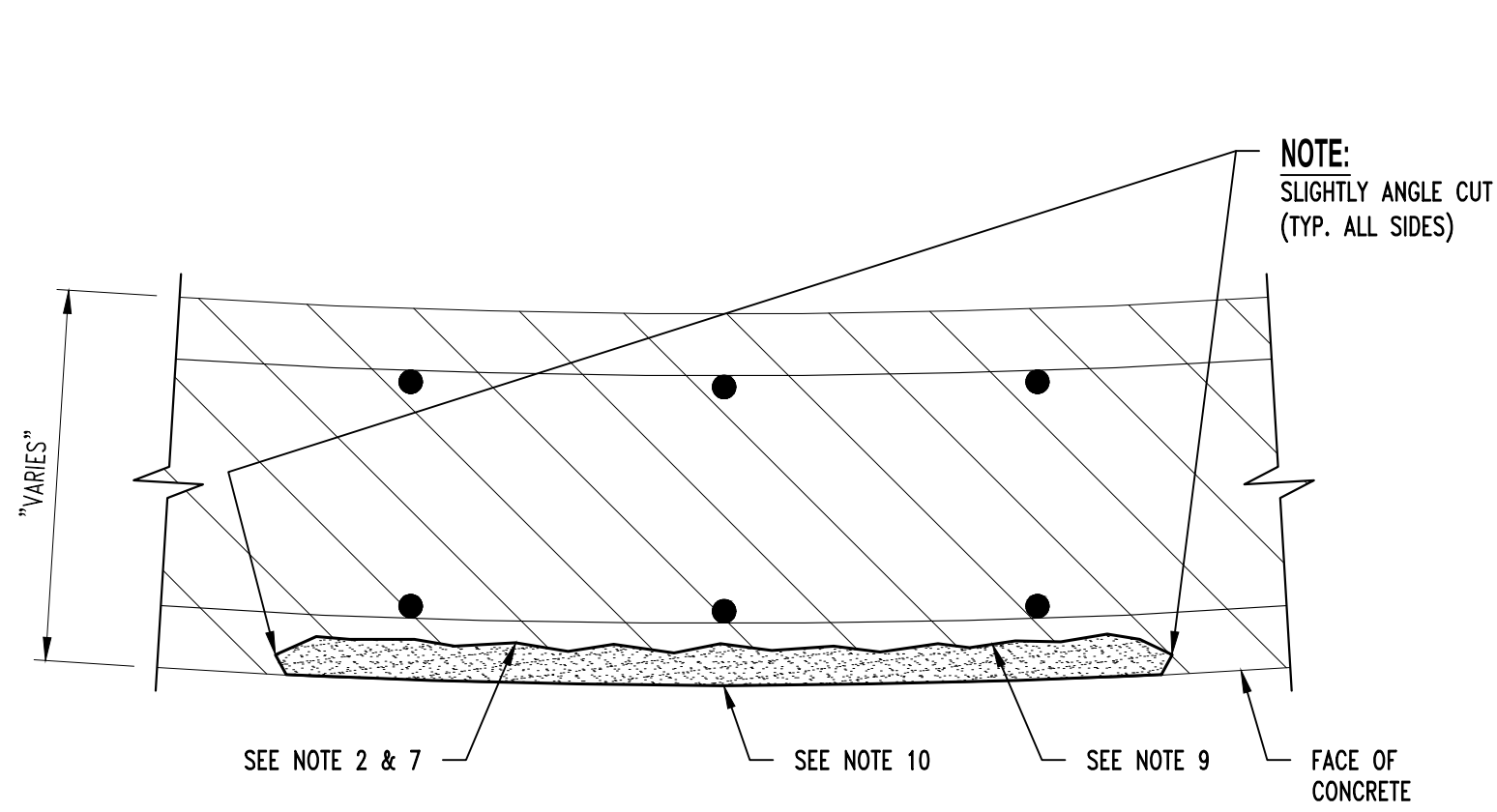
CRACKED/SPALLED
CONCRETE; REFER TO
SHEET S501 FOR
NECESSARY REPAIRS



CONCRETE SUPPORT AT GRID LINE 4 (SOUTH FACE)

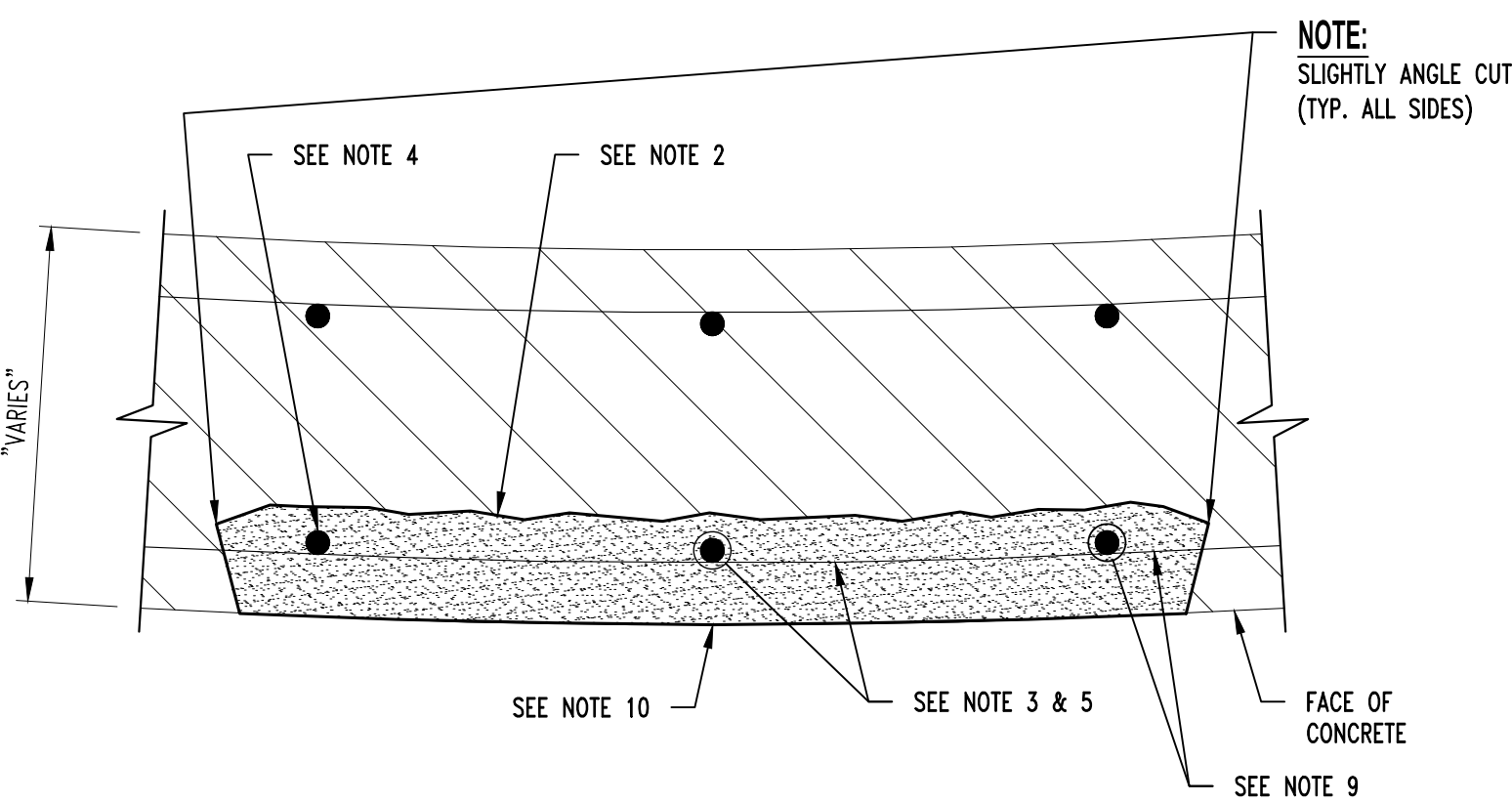
SCALE: 1/2" = 1'-0"

CRACKED/SPALLED
CONCRETE; REFER TO
SHEET S501 FOR
NECESSARY REPAIRS



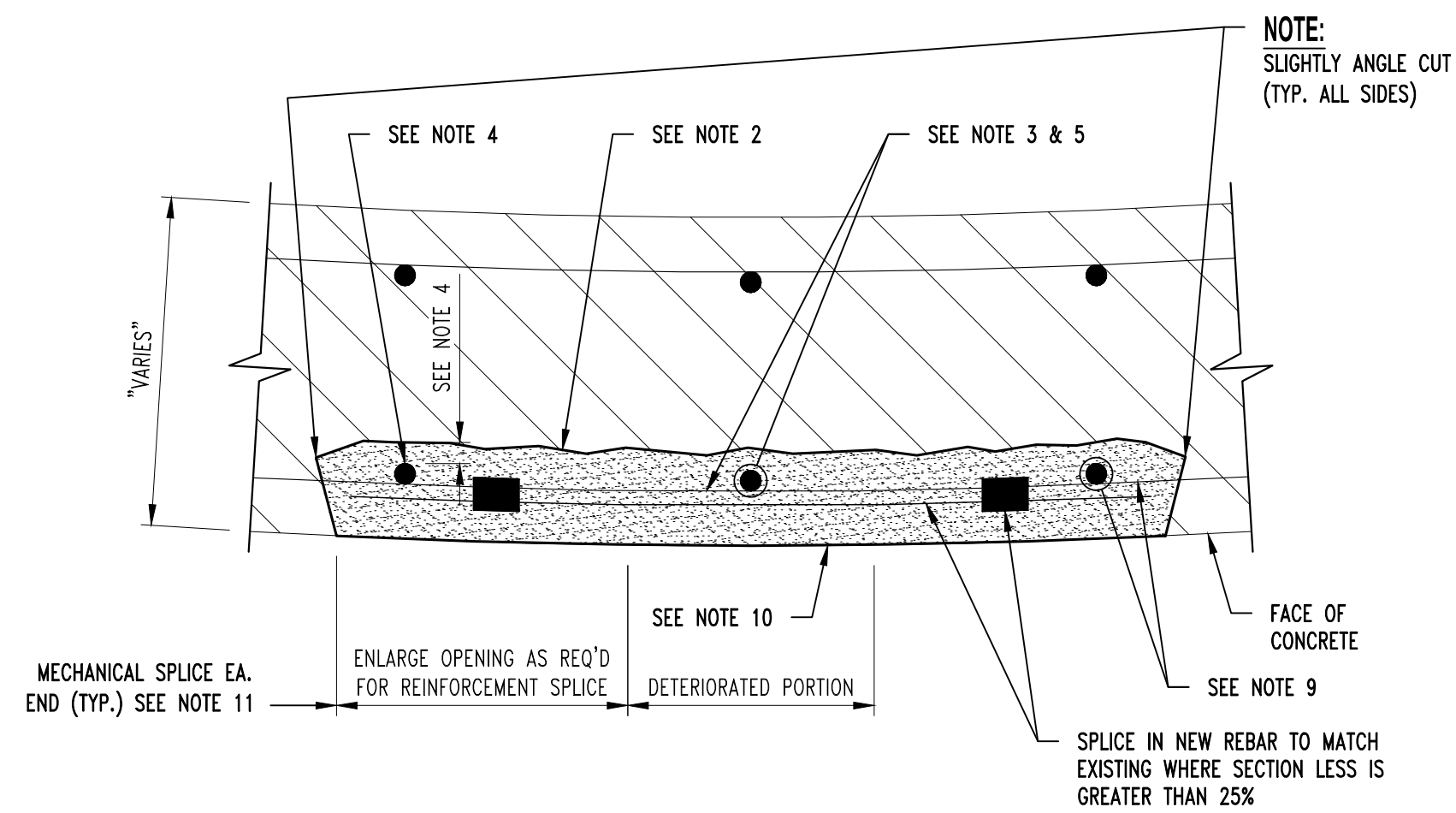
SURFACE SPALL REPAIR

NOTE:
DETAIL APPLIES TO SURFACE SPALLS
WITH NO REINFORCEMENT EXPOSED.



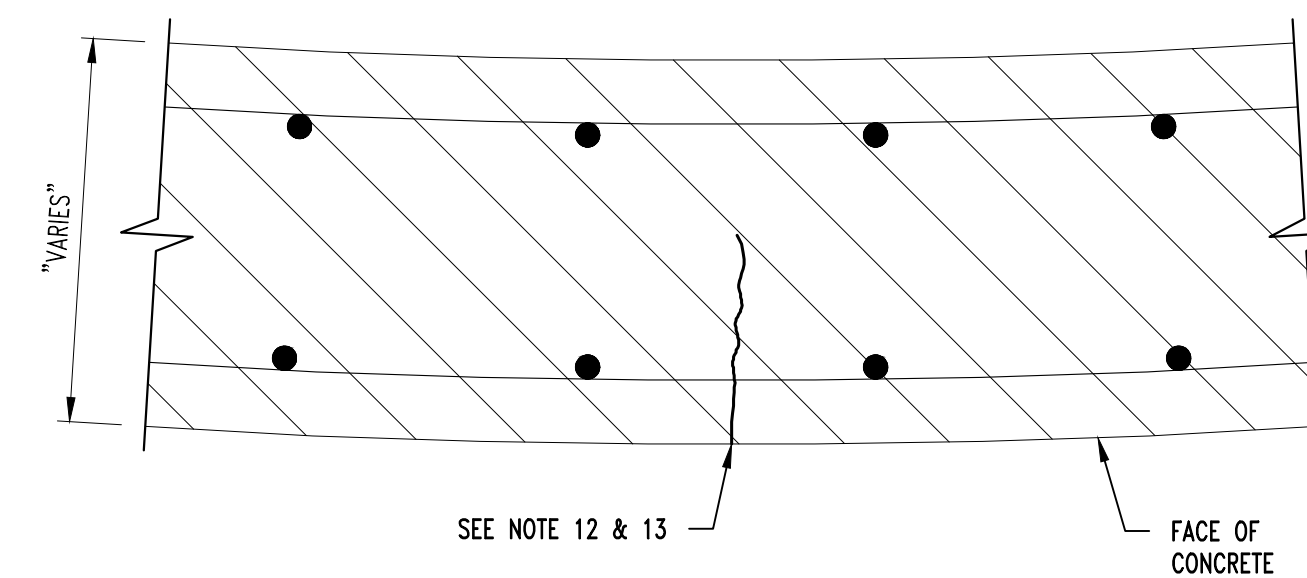
DEEP SPALL w/ REINFORCEMENT SECTION LOSS LESS THAN OR EQUAL TO 25%

NOTE:
DETAIL APPLIES TO SURFACE SPALLS
WITH REINFORCEMENT EXPOSED.



DEEP SPALL w/ REINFORCEMENT SECTION LOSS GREATER THAN OR EQUAL TO 25%

NOTE:
DETAIL APPLIES TO SURFACE SPALLS
WITH REINFORCEMENT EXPOSED.



CRACK REPAIR

NOTE:
DETAIL APPLIES TO CRACKS
LARGER THAN 0.03".

BAR SIZE	NOMINAL DIAMETER (IN.)	MINIMUM ALLOWABLE DIAMETER (IN.)
#3	0.375	0.325
#4	0.500	0.433
#5	0.625	0.541
#6	0.750	0.650
#7	0.875	0.758
#8	1.000	0.866
#9	1.128	0.977
#10	1.270	1.100

REINFORCED BAR DIAMETER TABLE

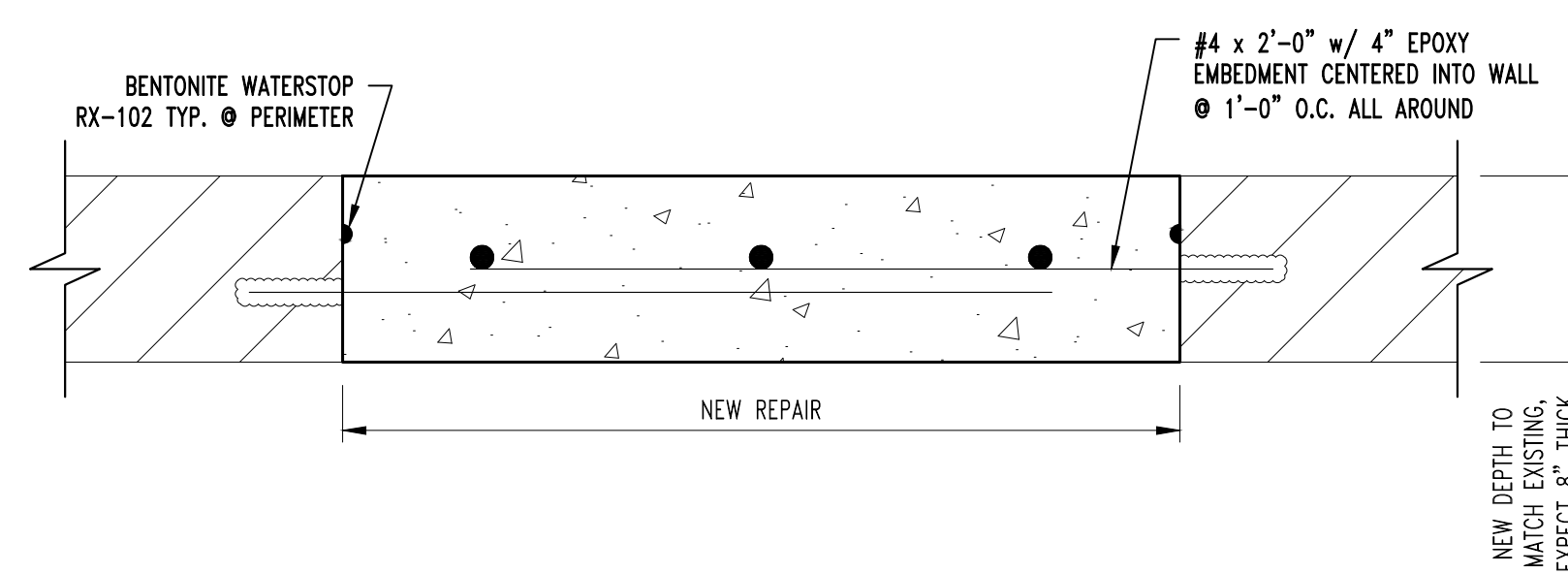
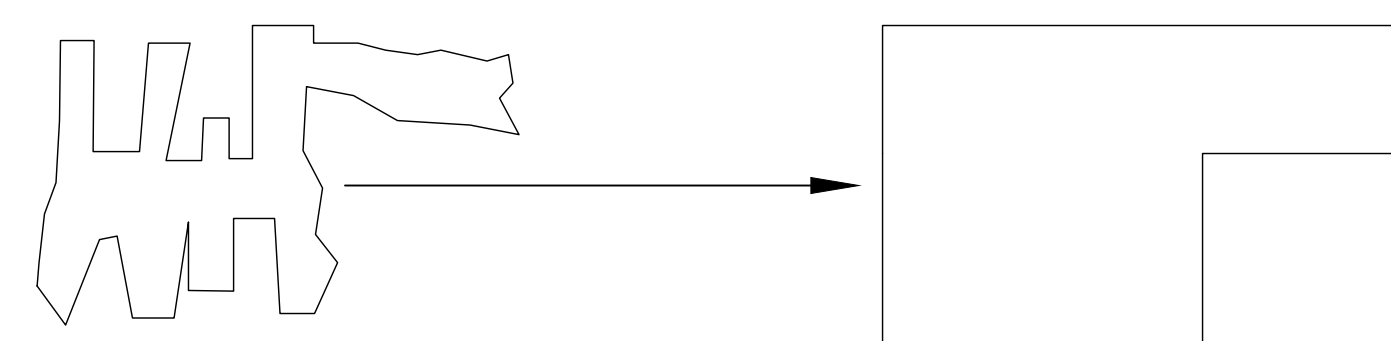
CONCRETE REPAIR NOTES

- PRIOR TO PERFORMING ANY CONCRETE REPAIRS, CONTRACTOR SHALL EXAMINE THE ENTIRE CONCRETE SURFACE BY SOUNDING TO DETECT ANY DEFICIENCIES NOT SHOWN ON THE CONTRACT DOCUMENTS. IF DEFICIENCIES ARE DETECTED, MARK OUTLINE ON CONCRETE SURFACE AND NOTIFY OWNER'S REPRESENTATIVE. PROVIDE OWNER'S REPRESENTATIVE WITH APPROXIMATE SIZE AND LOCATION OF EACH DEFICIENCY NOTED.
- REMOVE ALL LOOSE AND DETERIORATED CONCRETE. CHIP OUT AND PATCH AREA 1/2" MIN. BEYOND SPALLED SURFACE. AT BOUNDARIES OF DETERIORATED CONCRETE, SAWCUT BOUNDARY TO A MINIMUM DEPTH OF 3/4". DO NOT FEATHER EDGES.
CARE SHOULD BE EXERCISED NOT TO DAMAGE EXISTING REINFORCING STEEL DURING CONCRETE REMOVAL. CONCRETE REMOVAL SHALL EXTEND TO WHERE BAR IS WELL BONDED TO SURROUNDING SOUND CONCRETE. CARE SHALL BE EXERCISED NOT TO DAMAGE THE BAR'S BOND TO SURROUNDING CONCRETE. IF BOND BETWEEN BAR AND CONCRETE IS BROKEN, UNDERCUTTING OF THE BAR IS REQUIRED AS SPECIFIED IN ITEM 4 BELOW.
- IF HALF OF THE THICKNESS OF THE REINFORCEMENT BAR OR MORE IS EXPOSED PROVIDE A MINIMUM OF 1/2" CLEARANCE BETWEEN EXPOSED REINFORCEMENT AND SURROUNDING CONCRETE FOR HAND APPLIED REPAIR MATERIALS AND A MINIMUM OF 1" CLEARANCE FOR SPRAY APPLIED REPAIR MATERIALS.
- MECHANICALLY CLEAN STEEL BY SANDBLASTING OR WIRE BRUSH TO WHITE METAL CONDITION TO REMOVE CORROSION. AFTER CLEANING REINFORCING STEEL, MEASURE DIAMETER AT NARROWEST POINT. IF SECTION LOSS IS GREATER THAN 25% (SEE "REINFORCING BAR DIAMETER TABLE" ON THIS SHEET) ADD NEW REINFORCING BAR MATCHING SIZE OF EXISTING. MAINTAIN A MINIMUM OF 1/2" CONCRETE COVER AT ALL NEW AND EXISTING REINFORCEMENT, ANY REINFORCEMENT TO BE DRILLED AND GROUTED INTO EXISTING CONCRETE SHALL USE HILTI HIT HY 200 MAX EPOXY ADHESIVE (OR APPROVED EQUAL).
- SCARIFY CONCRETE SURFACE TO OBTAIN CONCRETE SURFACE PROFILE ROUGHENED.
- MINIMUM DEPTH OF PATCH TO BE 3/4".
- SUBSTRATE SHOULD BE SATURATED SURFACE DRY (SSD) WITH NO STANDING WATER DURING APPLICATION.
- APPLY CONCRETE PRIMER TO SUBSTRATE PER MANUFACTURERS SPECIFICATIONS. APPLY TWO COATS OF ANTI-CORROSION COATING PER MANUFACTURERS SPECIFICATIONS TO ALL EXPOSED REINFORCEMENT ALLOWING TO PROPERLY DRY BETWEEN COATS. SIKA FERROGARD 901 OR APPROVED EQUAL.
- WHILE CONCRETE PRIMER IS STILL WET, APPLY PATCH MATERIAL PER MANUFACTURERS SPECIFICATIONS. FOR APPLICATIONS GREATER THAN 1" IN DEPTH, APPLY PATCH MATERIAL IN LIFTS. SCORE THE TOP SURFACE OF EACH LIFT AND ALLOW EACH LIFT TO REACH FINAL SET THEN REPEAT FROM STEP 8.
- PROVIDE MECHANICAL SPLICE CAPABLE OF DEVELOPING 125% F_y. MAINTAIN A MINIMUM OF 1/2" CONCRETE COVER AT ALL NEW AND EXISTING REINFORCEMENT.
- CLEAN CRACK SURFACES AND REMOVE ANY FOREIGN MATTER AND DEPOSITS.
- INSTALL POLYMER MODIFIED CEMENTITIOUS PATCHING MATERIAL PER MANUFACTURERS SPECIFICATION AND TOOL SURFACE TO MATCH SURROUNDING SURFACE. SIKATOP-123 OR APPROVED EQUAL.



DETERIORATED CONCRETE SURFACE REPAIR

NOTE:
1. REPAIR CONFIGURATIONS TO BE KEPT AS SIMPLE AS POSSIBLE.
2. CORNERS MUST BE SQUARED TO AVOID FEATHERED EDGES.

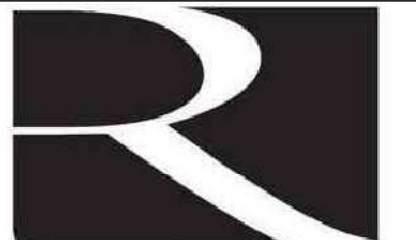


FULL DEPTH REPAIR DETAIL

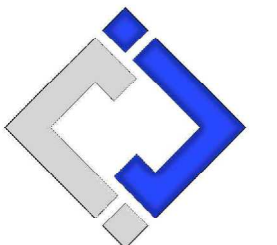
STATE OF MISSOURI
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MISSOURI STATE
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PROJECT # T2304-01
SITE # 1501
ASSET # 3511501018

REVISION:
DATE: _____

REVISION:
DATE: _____

REVISION:
DATE: _____

ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: SEH _____
CHECKED BY: JWV _____
DESIGNED BY: JWV _____

SHEET TITLE:

**STRUCTURAL
DETAILS**

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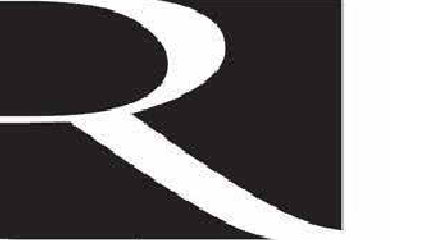
S-501

SHEET 5 OF 30
11/29/2023

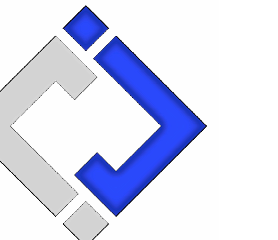


11.27.23

Robert D. Rollings 200501228, Certificate of Authority # A-2006003876



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ISSUE DATE: 11/29/2023
BID DOCUMENTS

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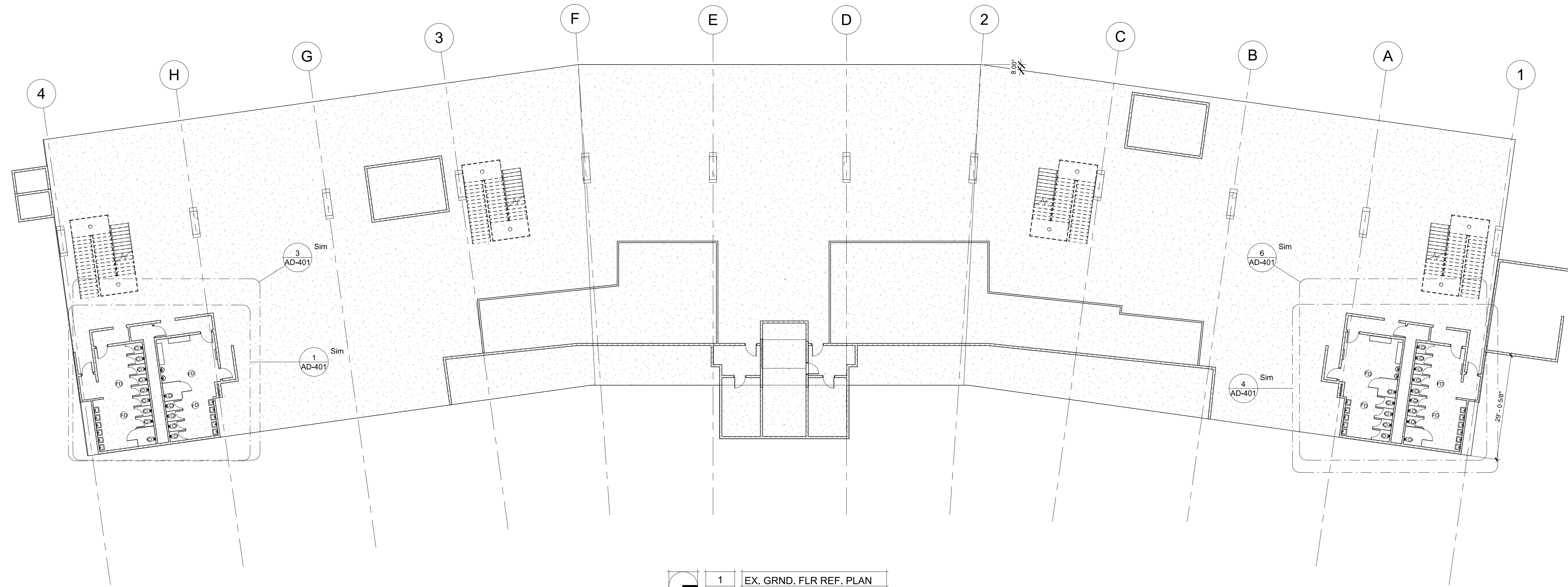
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**DEMO / REFERENCE
PLANS**

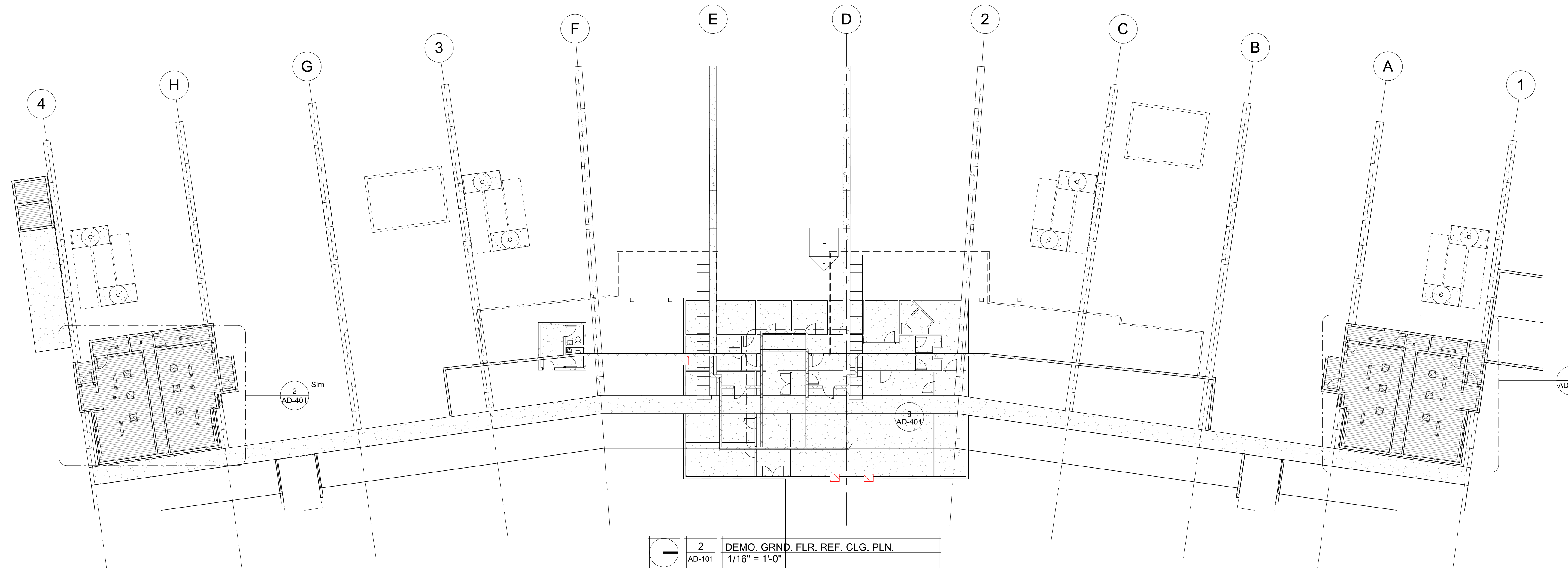
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AD-101

SHEET 6 OF 30
ISSUE DATE: 11/29/23



1 EX. GRND. FLR REF. PLAN
AD-101 1/16" = 1'-0"

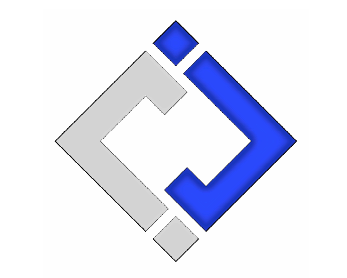


2 DEMO. GRND. FLR REF. CLG. PLN.
AD-101 1/16" = 1'-0"



Robert D. Rollings 200501208, Certificate of Authority # A-206603876

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ISSUE DATE: 11/29/2023
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CHECKED BY: RDR
DESIGNED BY: AMK

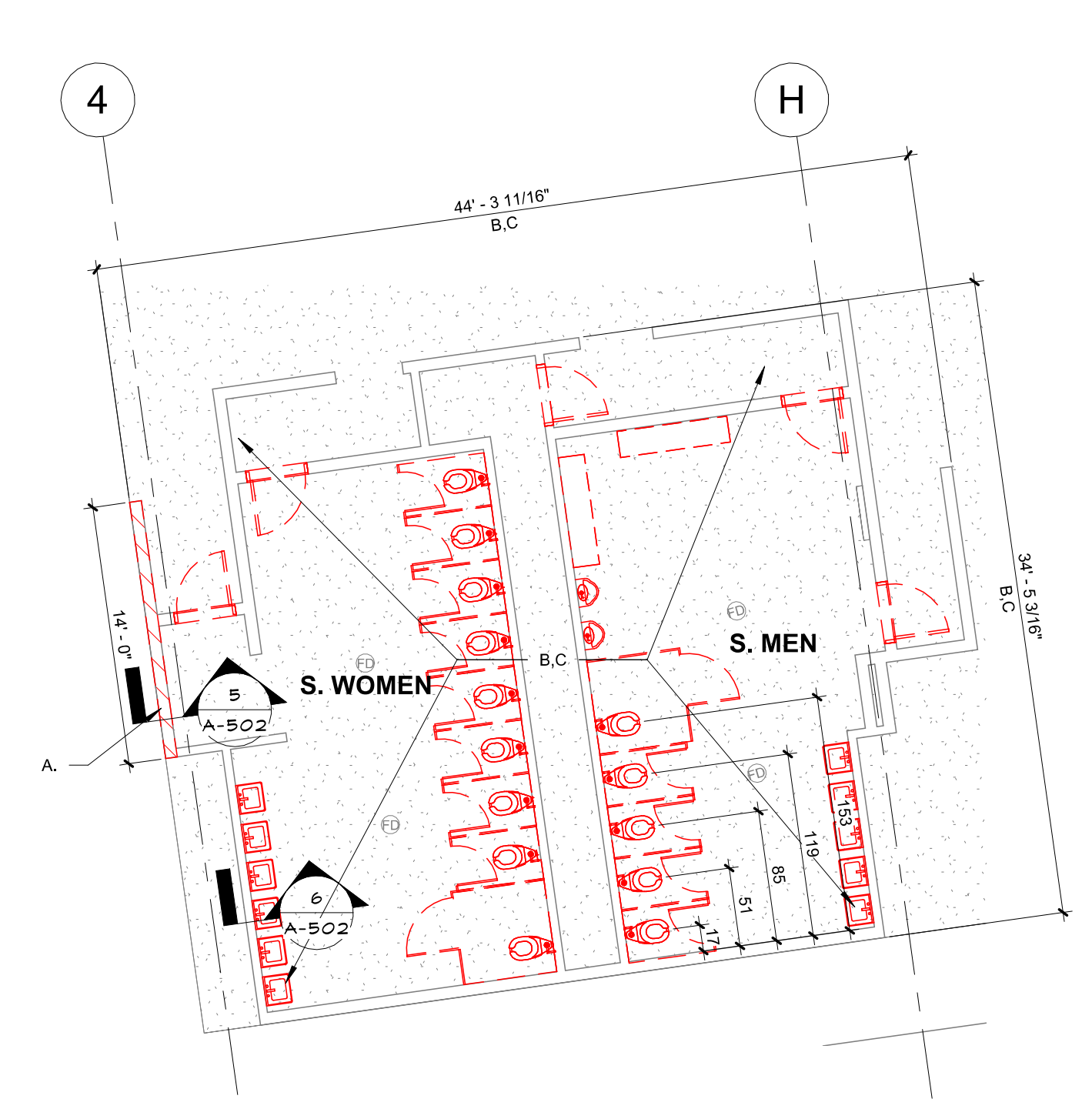
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**DEMOLITION
DETAIL PLANS**

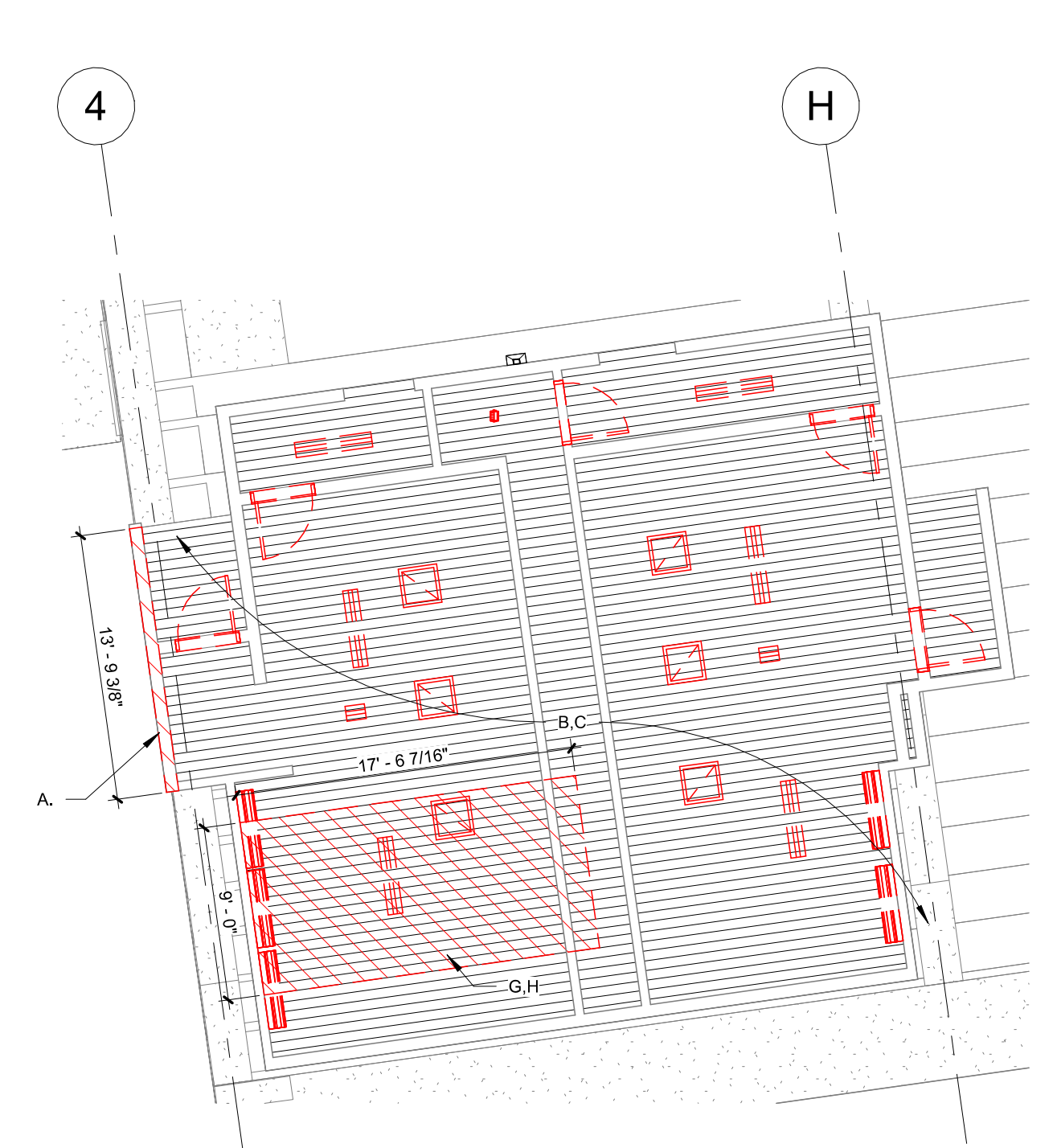
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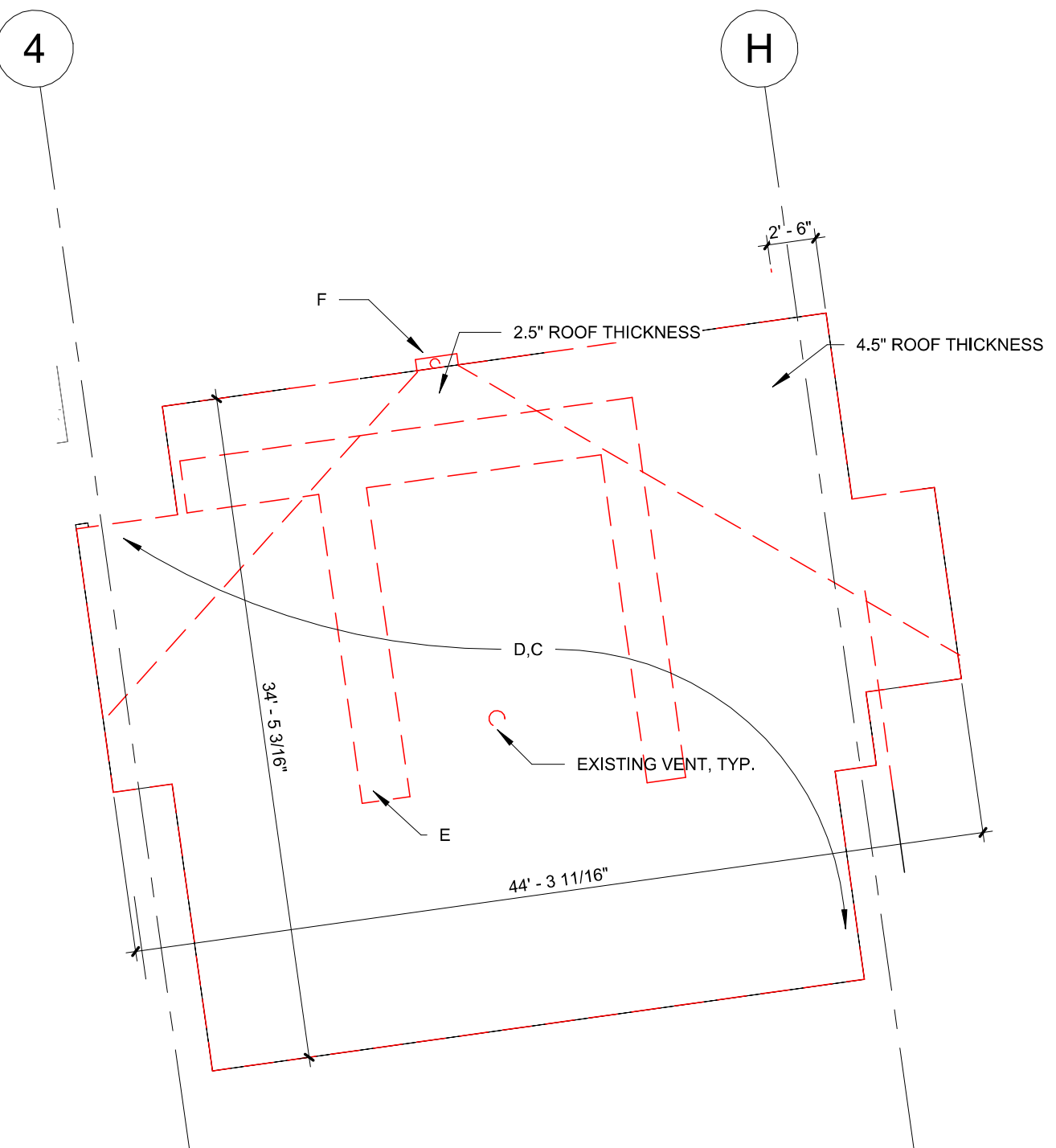
SHEET 7 OF 30
ISSUE DATE: 11/29/23



1 DEMO PLAN, SOUTH BATHROOMS
AD-401 1/8" = 1'-0"

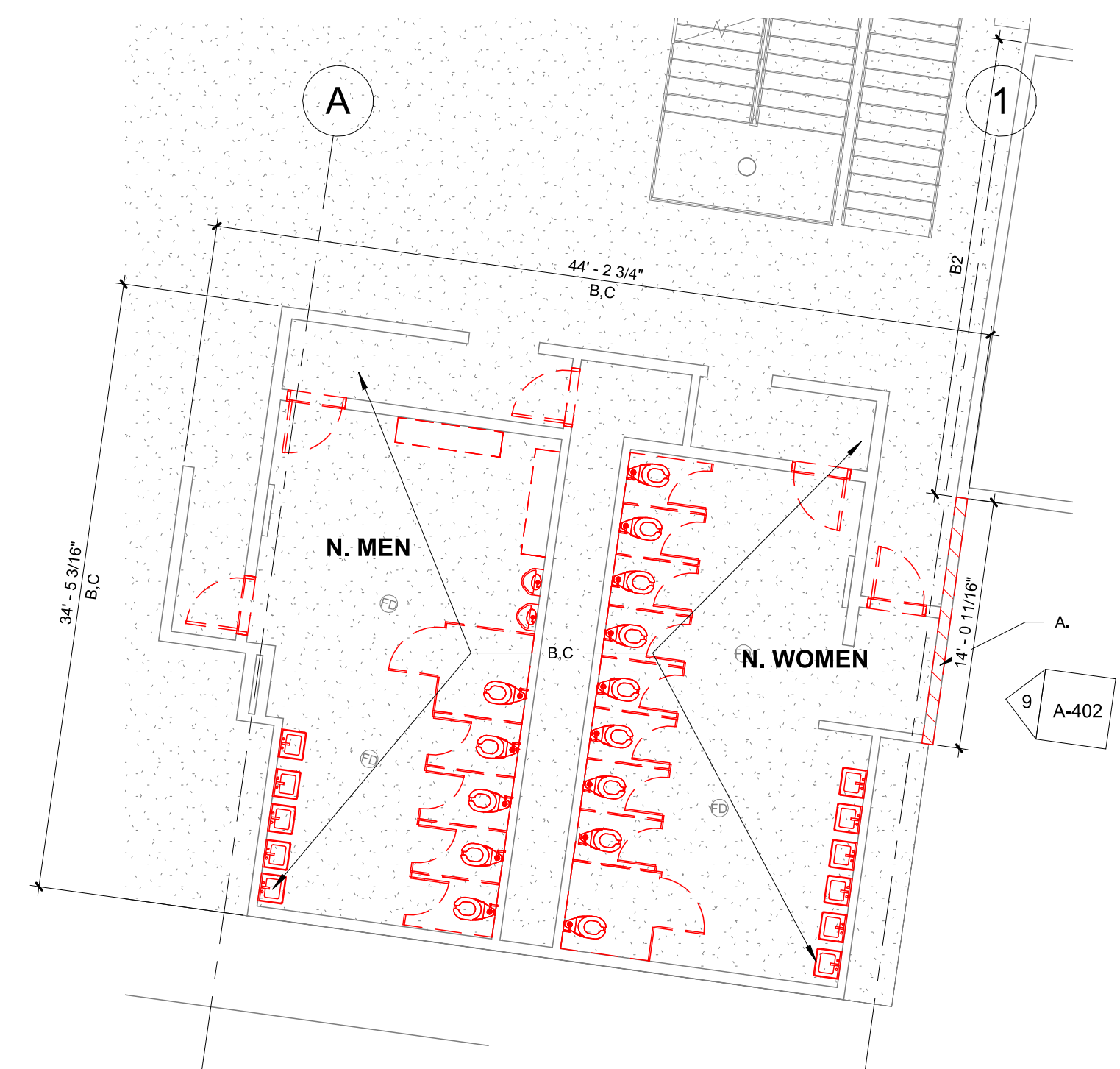


2 DEMO RCP., SOUTH RESTROOM
AD-401 1/8" = 1'-0"

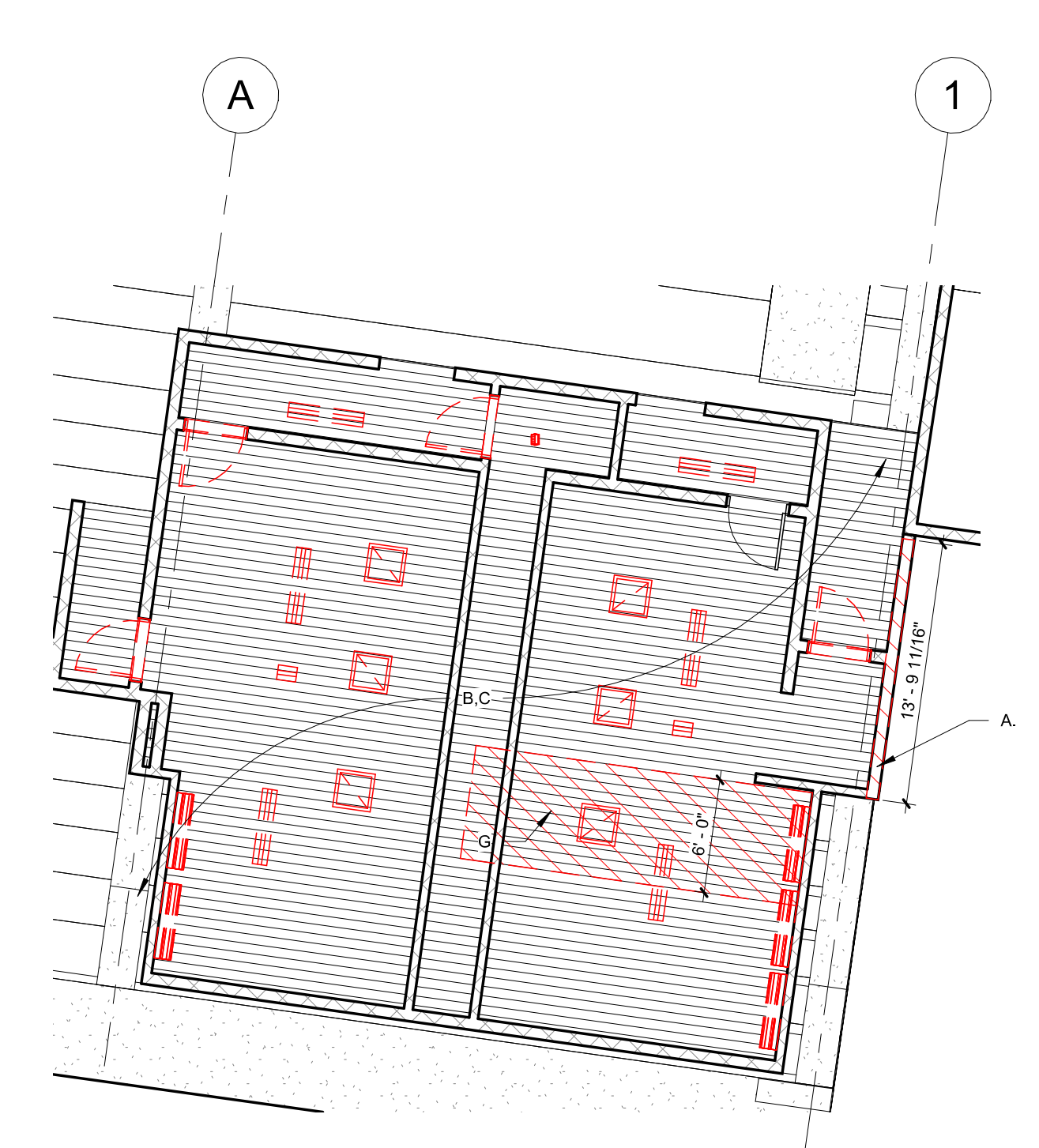


3 DEMO PLAN, ROOF, S. RESTROOM
AD-401 1/8" = 1'-0"

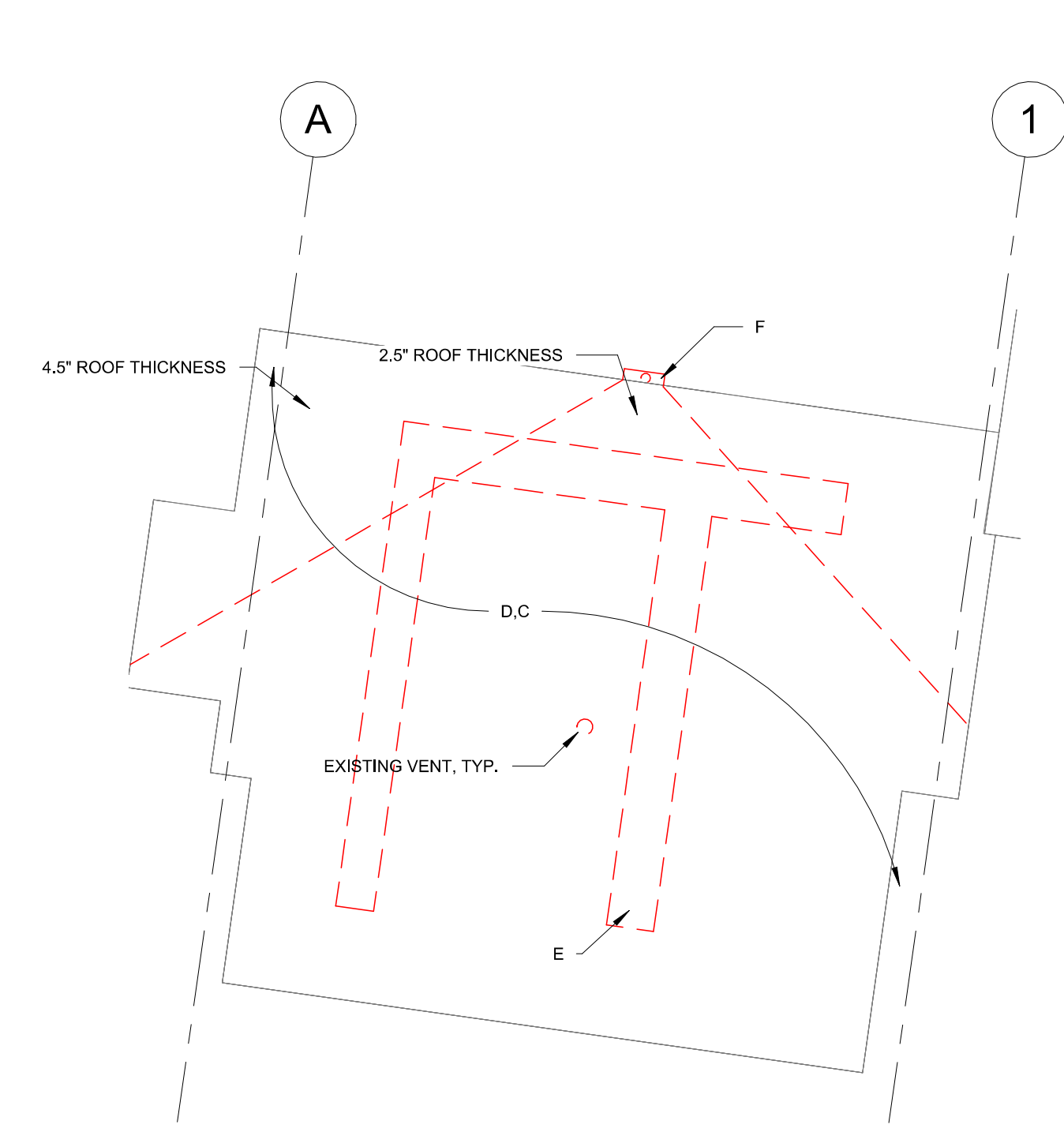
- DEMOLITION NOTES:
- A. DEMO CMU WALL TO EXTENTS INDICATED. VERIFY EXTENTS OF DAMAGE IN FIELD. PREP FOR INSTALLATION OF NEW CMU WALL, TYP.
 - B. TYPICAL IN BATHROOMS
 1. OWNER TO REMOVE TOILETS, URINALS, TP DISPENSERS, PAPER TOWEL DISPENSERS, SOAP DISPENSERS.
 2. GC TO DEMOLISH FLOORING, MIRRORS, SINKS, URINAL TROUGH, LIGHTS, VENTS, TOILET PARTITIONS. PREP DOORS AND INTERIOR & EXTERIOR WALLS FOR NEW PAINT. PREP FLOOR FOR NEW EPOXY FLOORING, TYP.
 3. DEMOLISH DOORS AND HARDWARE. EXISTING FRAMES TO REMAIN.
 - C. SEE MEP DRAWINGS FOR MEP DEMOLITION NOTES
 - D. DEMO ROOF AND ROOF TRIM TO METAL DECK, TYP.
 1. EXISTING ROOF SYSTEM CONSISTS EPDM MEMBRANE, 1/2" WOOD FIBER BOARD, TAPERED EPS, EPS, ON TOP OF STRUCTURAL METAL DECK. SEE DRAWINGS FOR APPROXIMATE THICKNESSES.
 - E. DEMO VENTILATION SYSTEM, TYP.
 - F. DEMO COLLECTOR BOX AND DOWNSPOUT, TYP.
 - G. REMOVE AND REPLACE RUSTED METAL DECK. EXISTING PANELS APPEAR TO BE 3" 16 GA TYPE N DECK. GC TO CONFIRM PROFILE AND GAUGE PRIOR TO PURCHASING, TYP.
 - H. DEMO METAL PANEL ATTACHED TO THE UNDERSIDE OF THE METAL DECK, TYP.



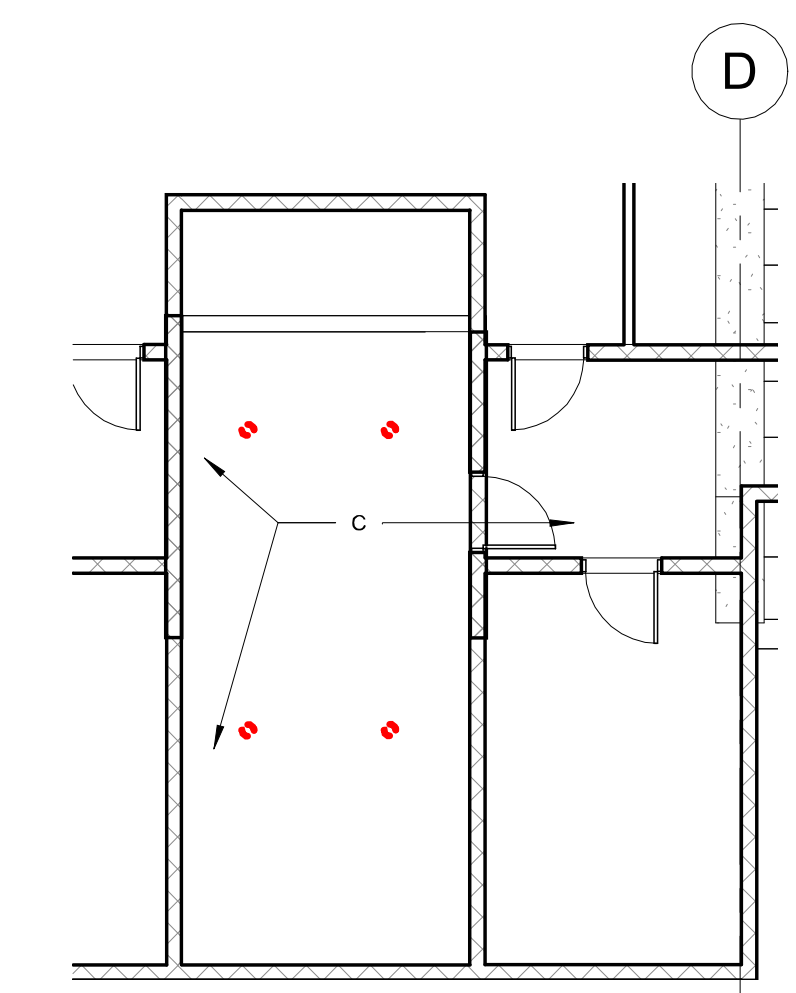
4 DEMO PLAN, NORTH BATHROOMS
AD-401 1/8" = 1'-0"



5 DEMO RCP., NORTH RESTROOM
AD-401 1/8" = 1'-0"



6 DEMO PLAN, ROOF, N. BATHROOMS
AD-401 1/8" = 1'-0"



g DEMO RCP., ELECTRICAL ROOM
AD-401 1/8" = 1'-0"

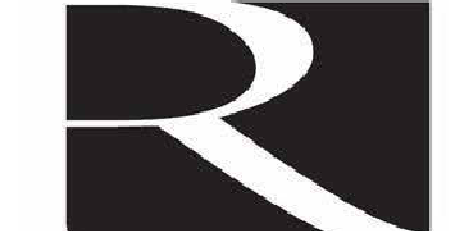
- | | | | | |
|--------------------------------|-------------------|--|------------------------------------|----------------------|
| ATTENTION (OR REPAIR) REQUIRED | ANTENNA, MAY VARY | DS DOWNSPOUT | APPROX. PHOTO LOCATION & DIRECTION | FLUE CHIMNEY |
| ROOF CORE | EXPANSION JOINT | AD AREA DIVIDER | G GAS LINE | EXAMPLE ROOF SLOPE |
| H HOT VENT | PONDED WATER | CM CURB MOUNTED EQUIPMENT (FANS & VENTS) | E ELECTRICAL CONDUIT | THROUGH WALL SCUPPER |
| V VENT THROUGH ROOF | T TURBINE | H HATCH | EP EXISTING ROOF PATCH | OS OVERFLOW SCUPPER |
| FA FAN | SOIL STACK | RUT ROOF TOP UNIT, HVAC | WALKWAY PADS | L LADDER |
| | | | | PITCH POCKET |
- ROOF LEGEND: ALL SIZES SHALL BE NOTED, EXCEPT WHEN NOT APPLICABLE. DESCRIPTION MAY BE REQUIRED.

ROOF SYMBOLS
NTS

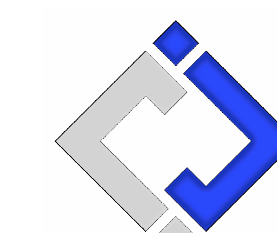


11.29.23

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SITE # 1501
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BID DOCUMENTS

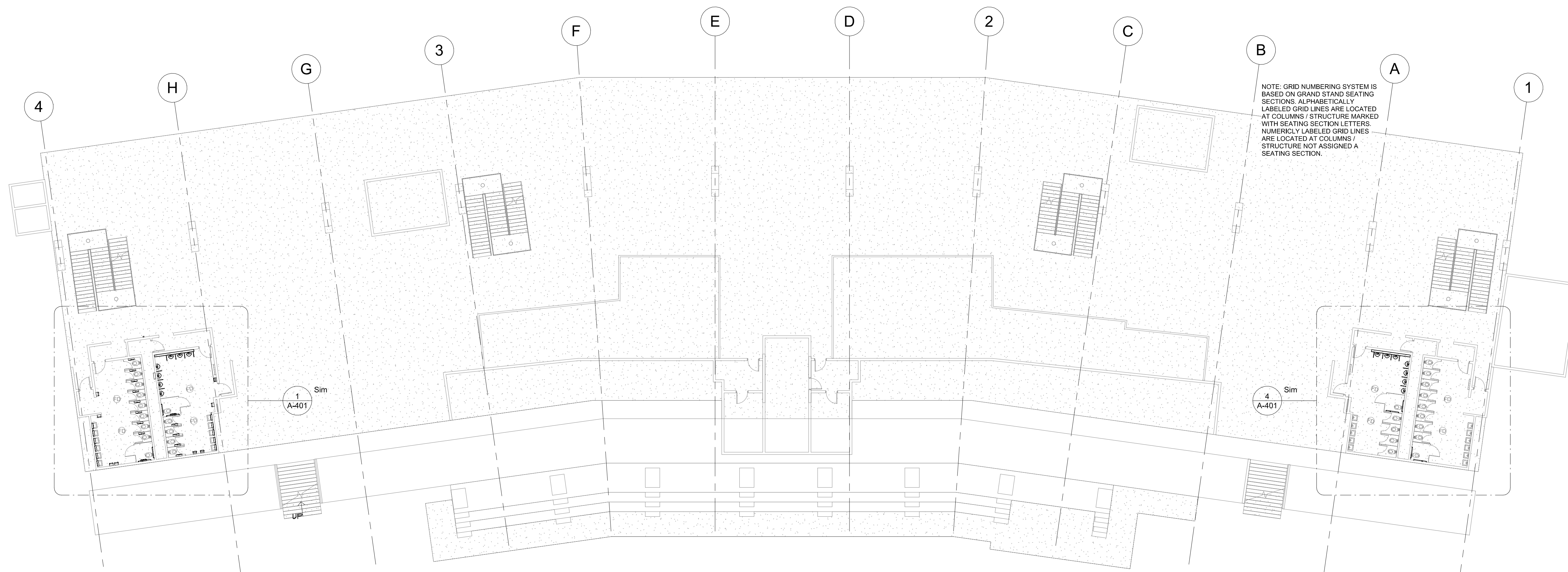
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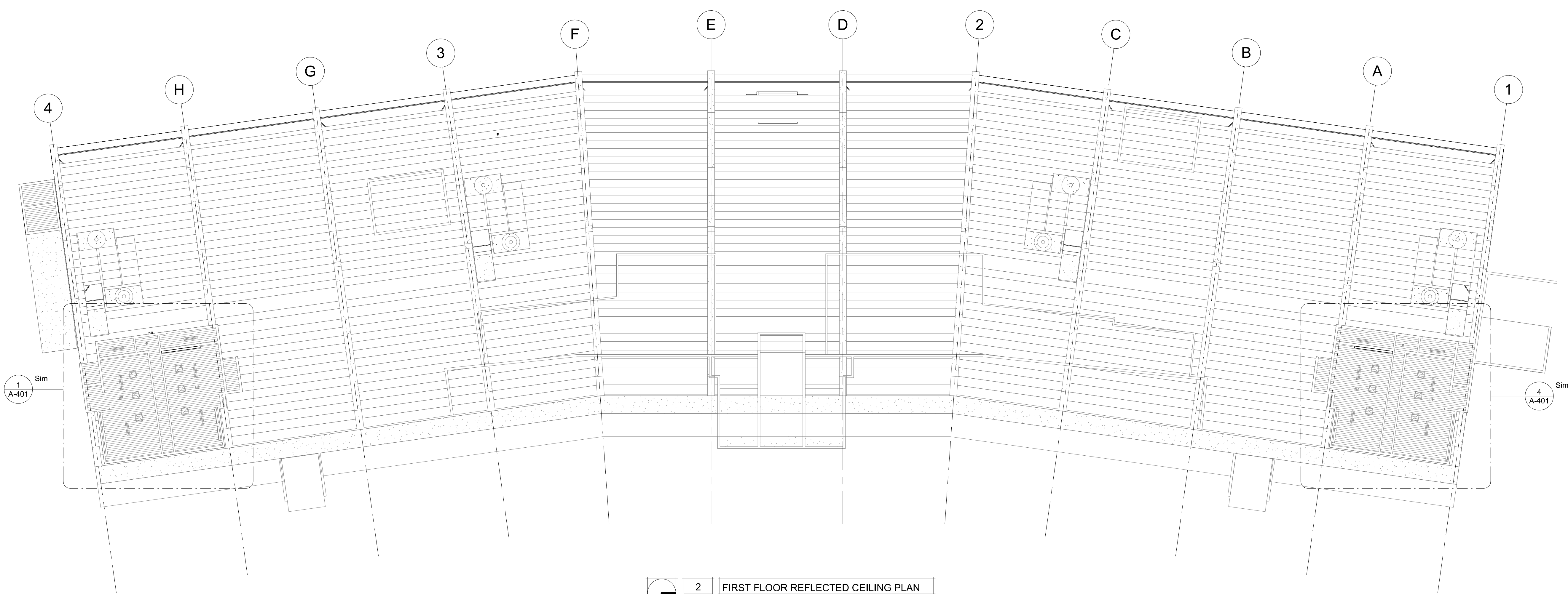
PLANS

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A-101

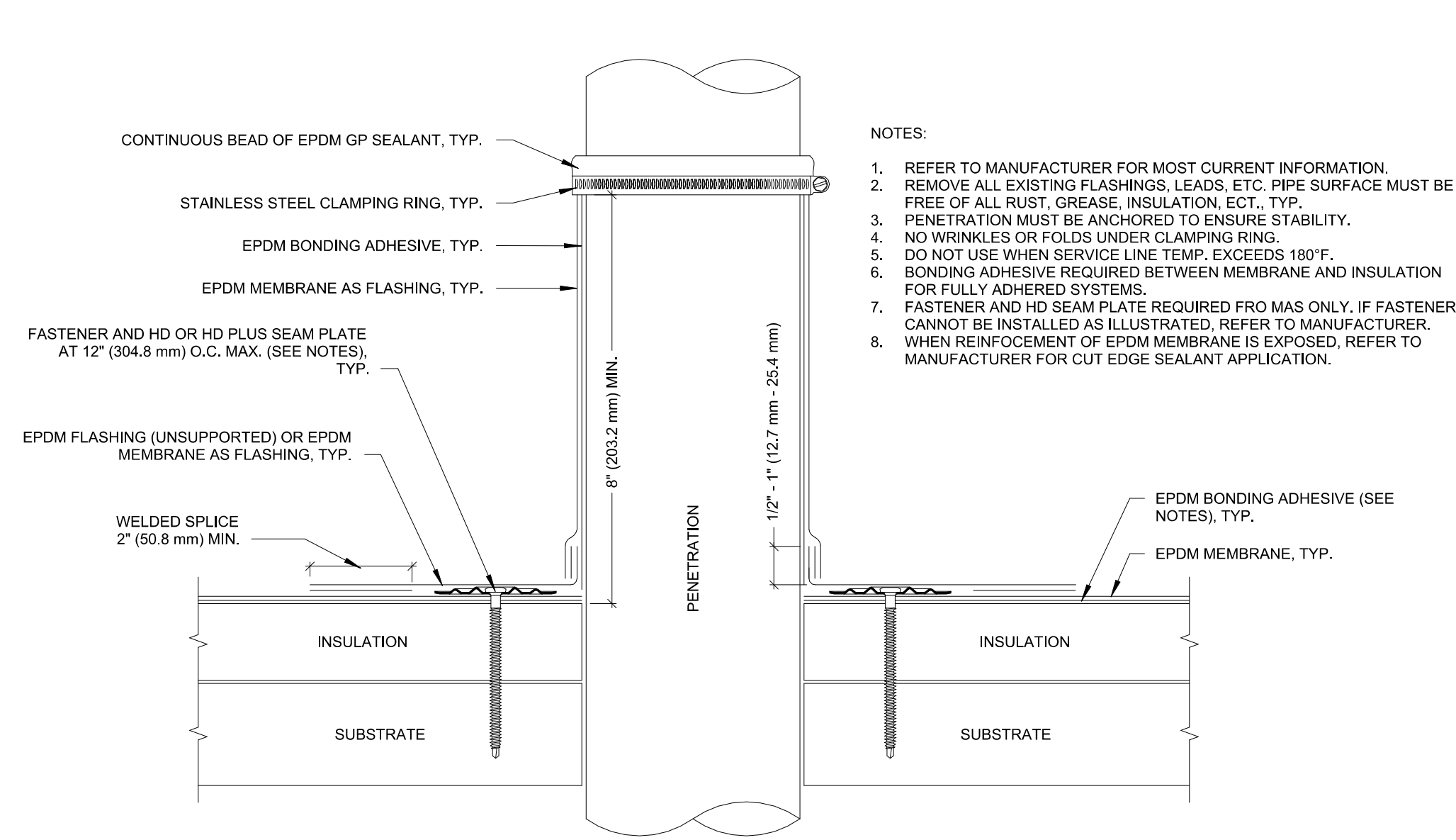
SHEET 8 OF 30
ISSUE DATE: 11/29/23



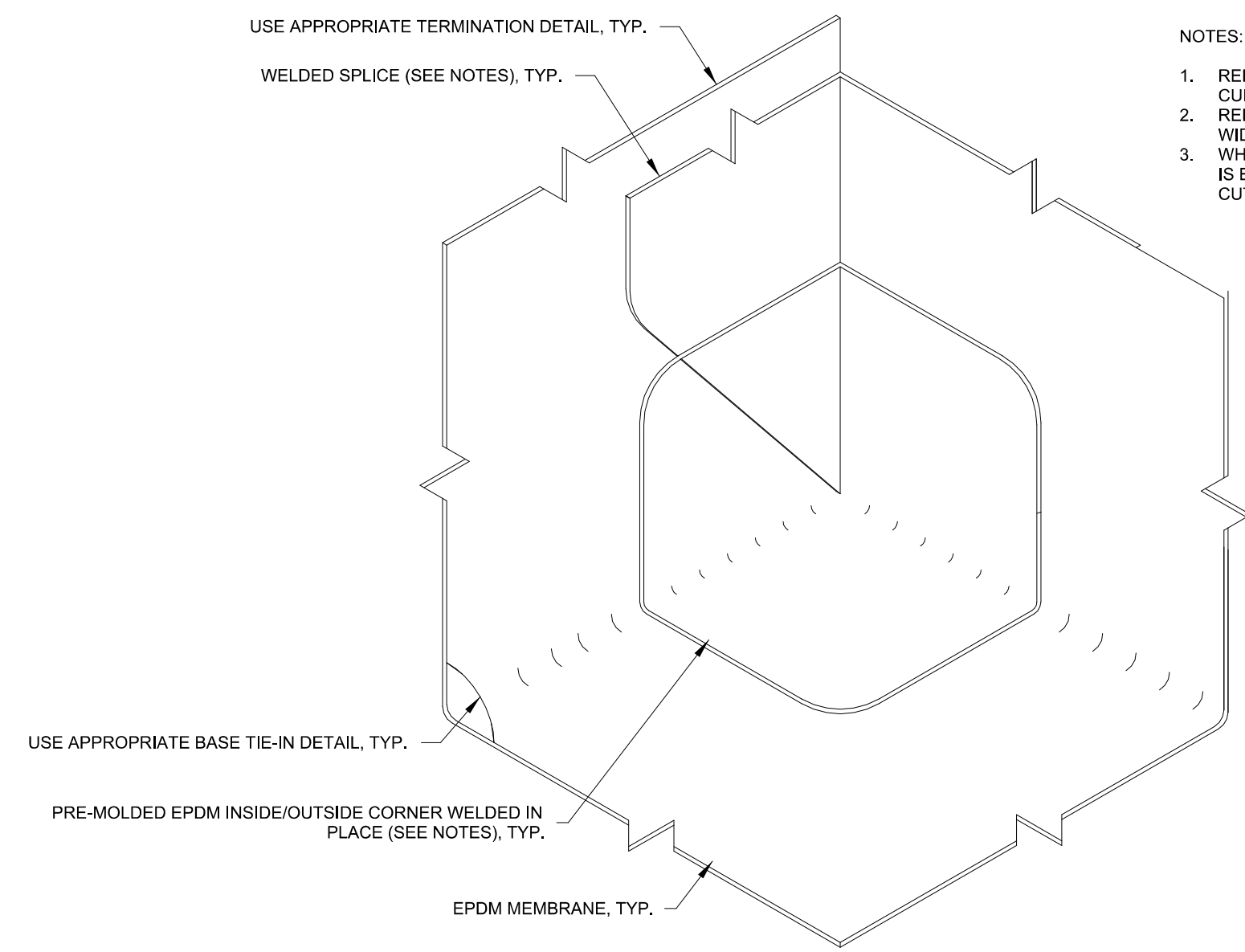
1 FIRST FLOOR REFERENCE PLAN
A-101 1/16" = 1'-0"



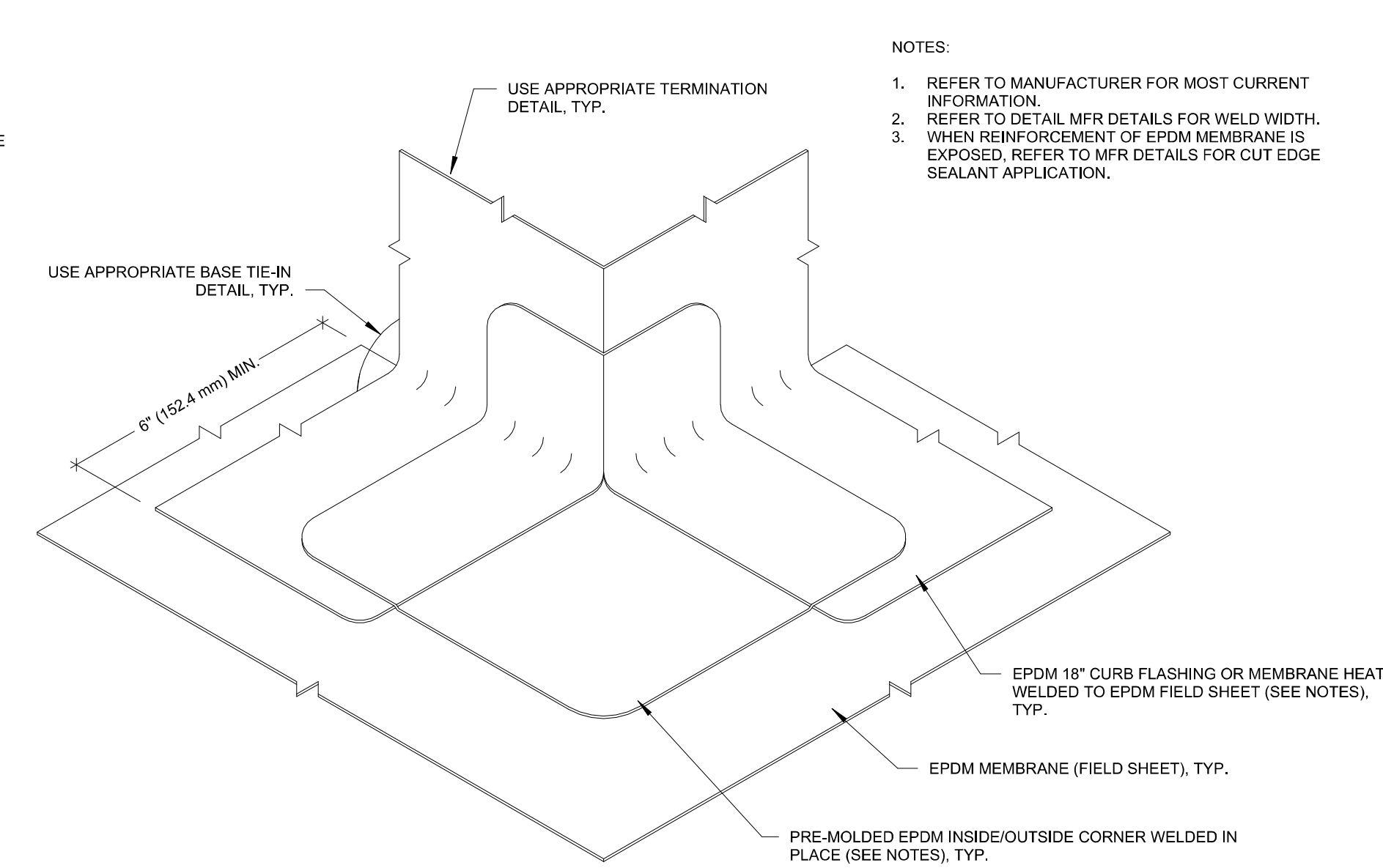
2 FIRST FLOOR REFLECTED CEILING PLAN
A-101 1/16" = 1'-0"



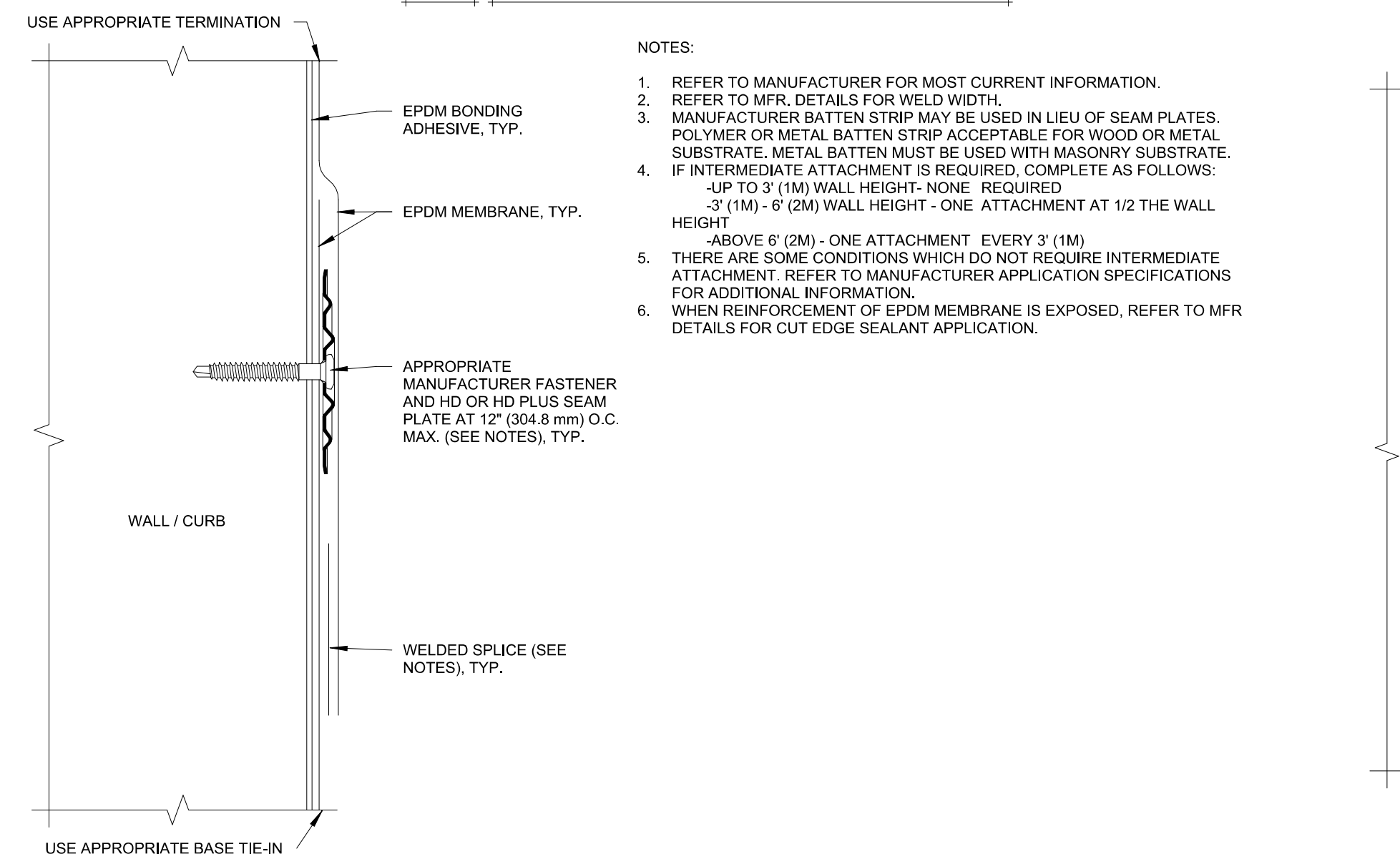
1 EPDM DETAIL - PENETRATION
6" = 1'-0"



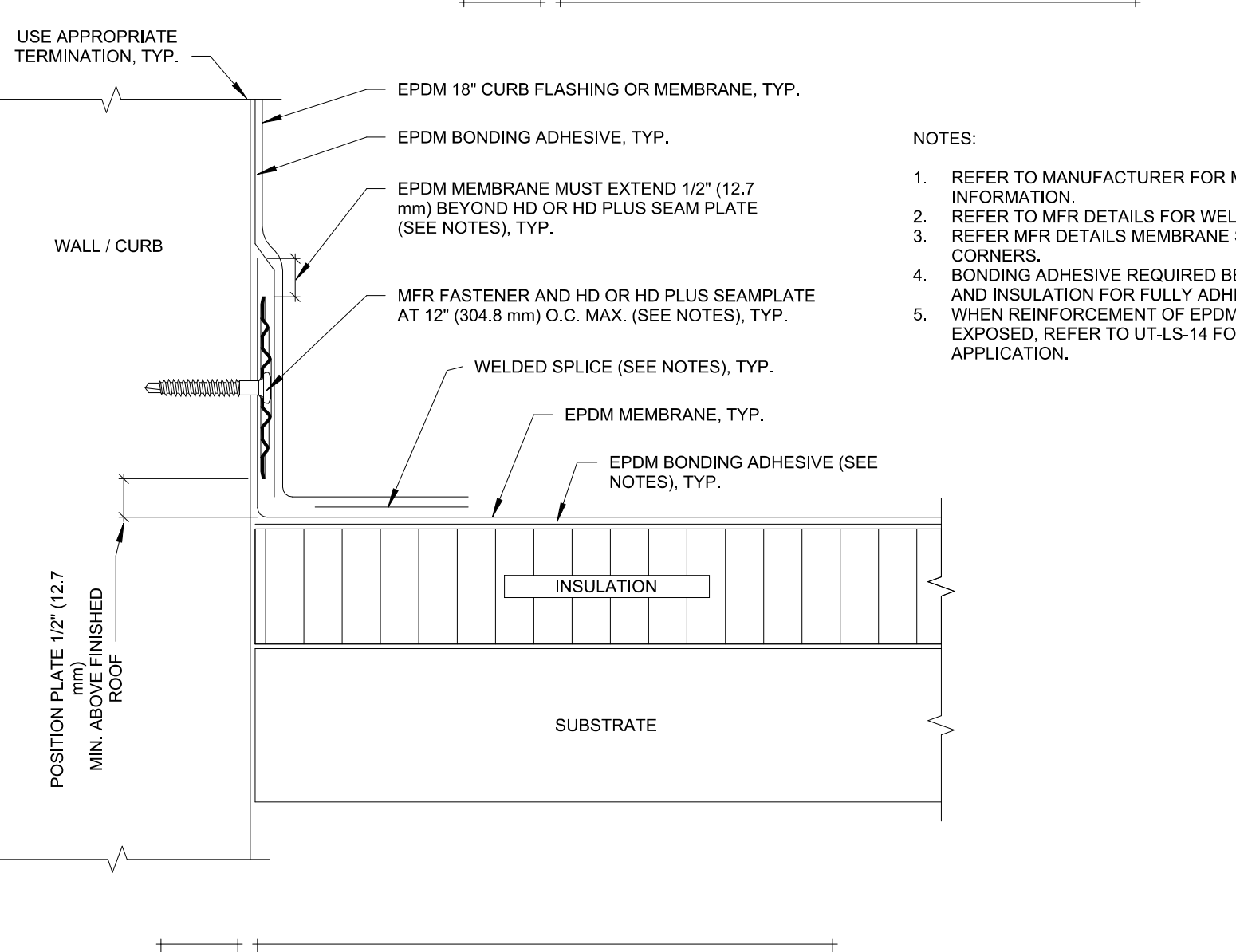
2 EPDM DETAIL - INSIDE CORNER
6" = 1'-0"



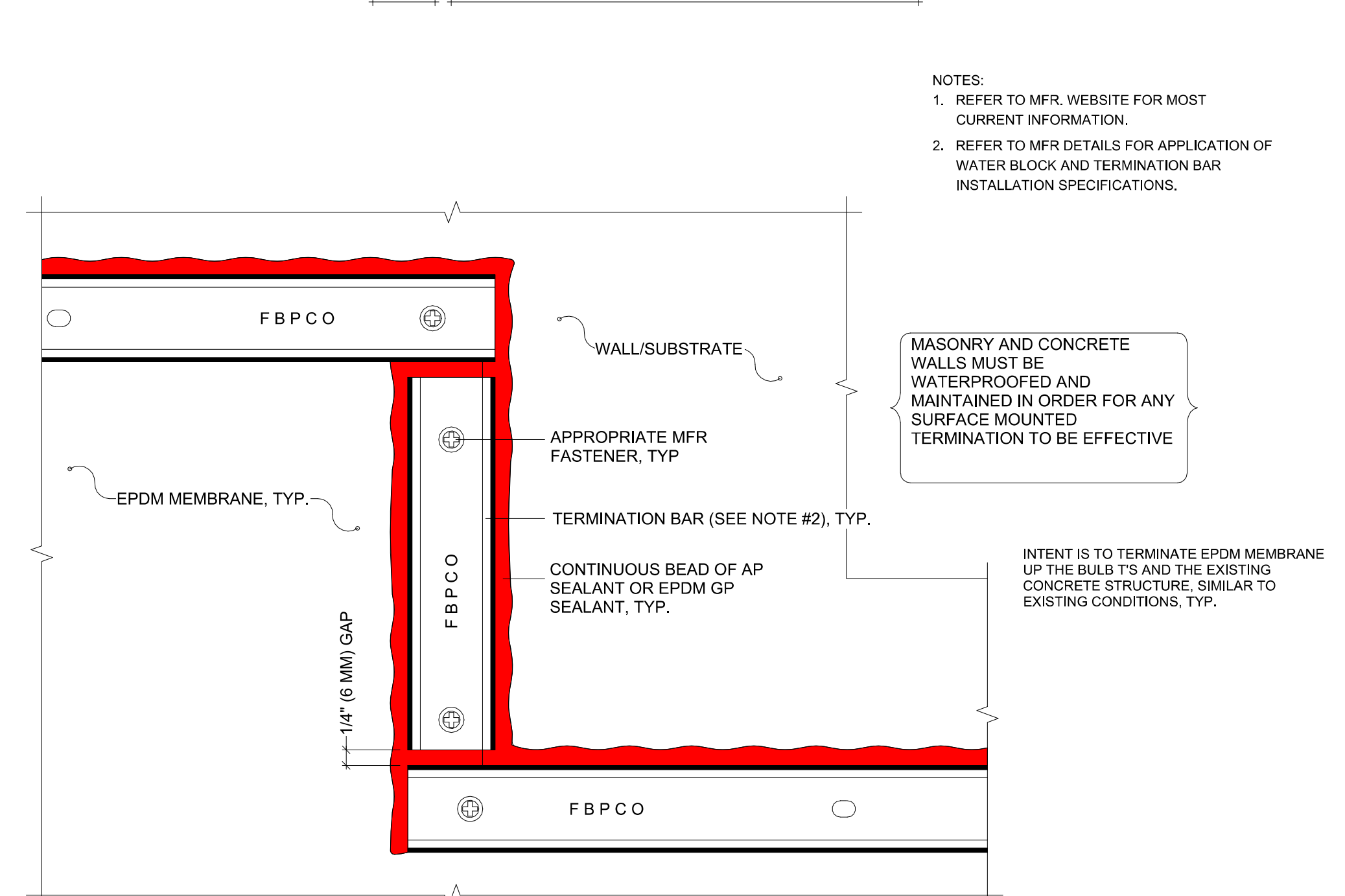
3 EPDM DETAIL - OUTSIDE CORNER
6" = 1'-0"



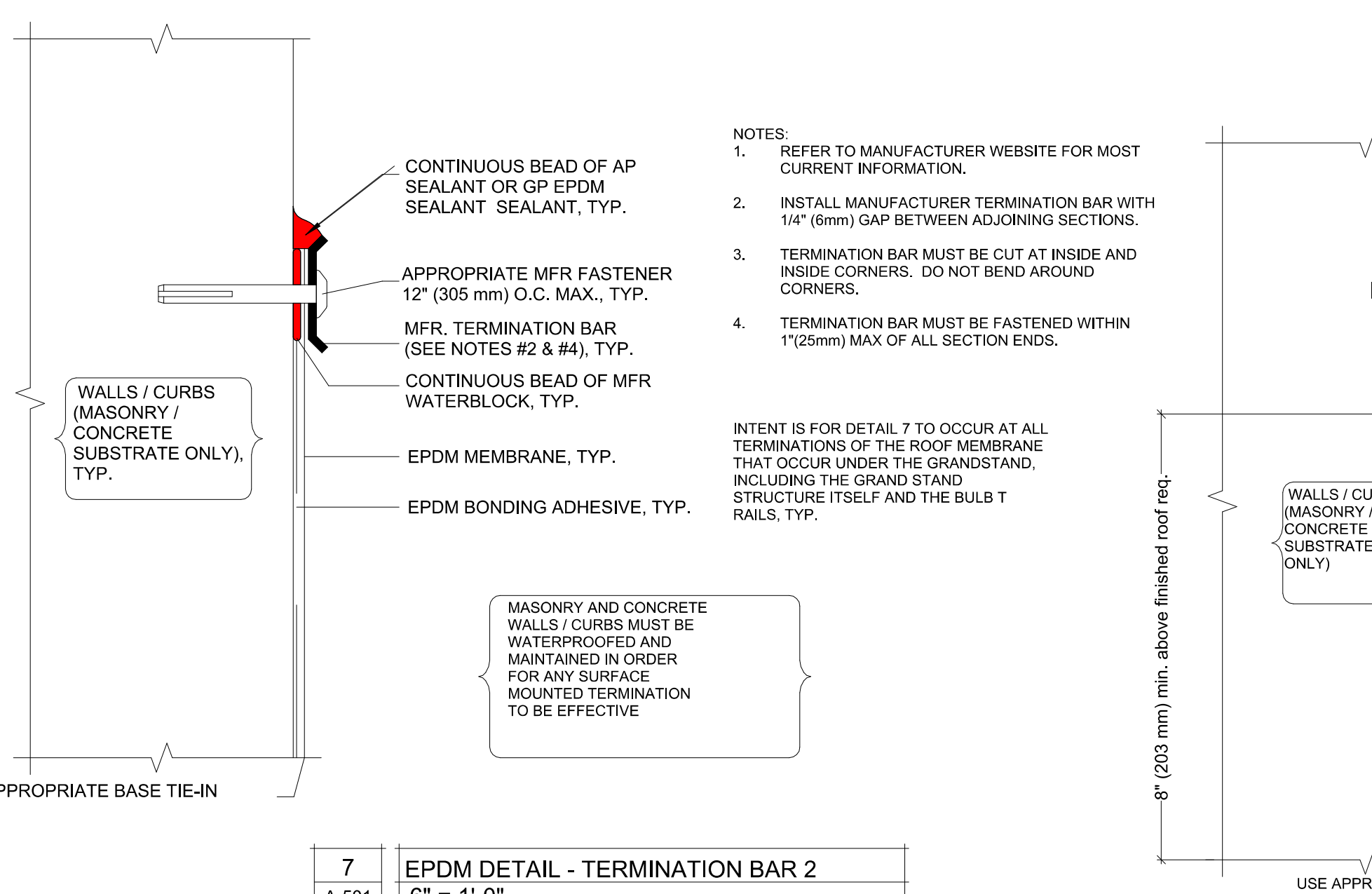
4 EPDM DETAIL - WALL SPLICE
6" = 1'-0"



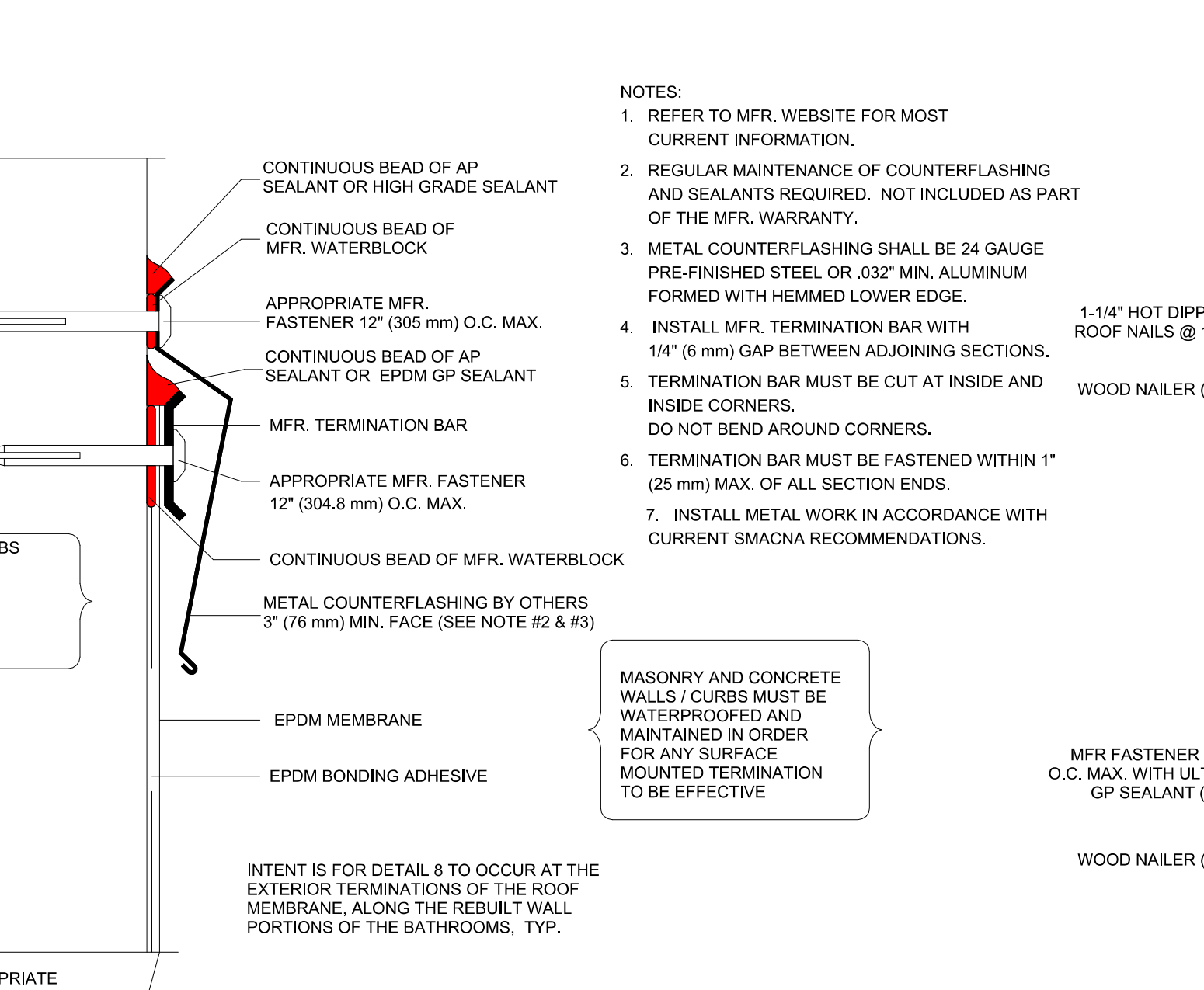
5 EPDM DETAIL - BASE TIE-IN TO WALL
6" = 1'-0"



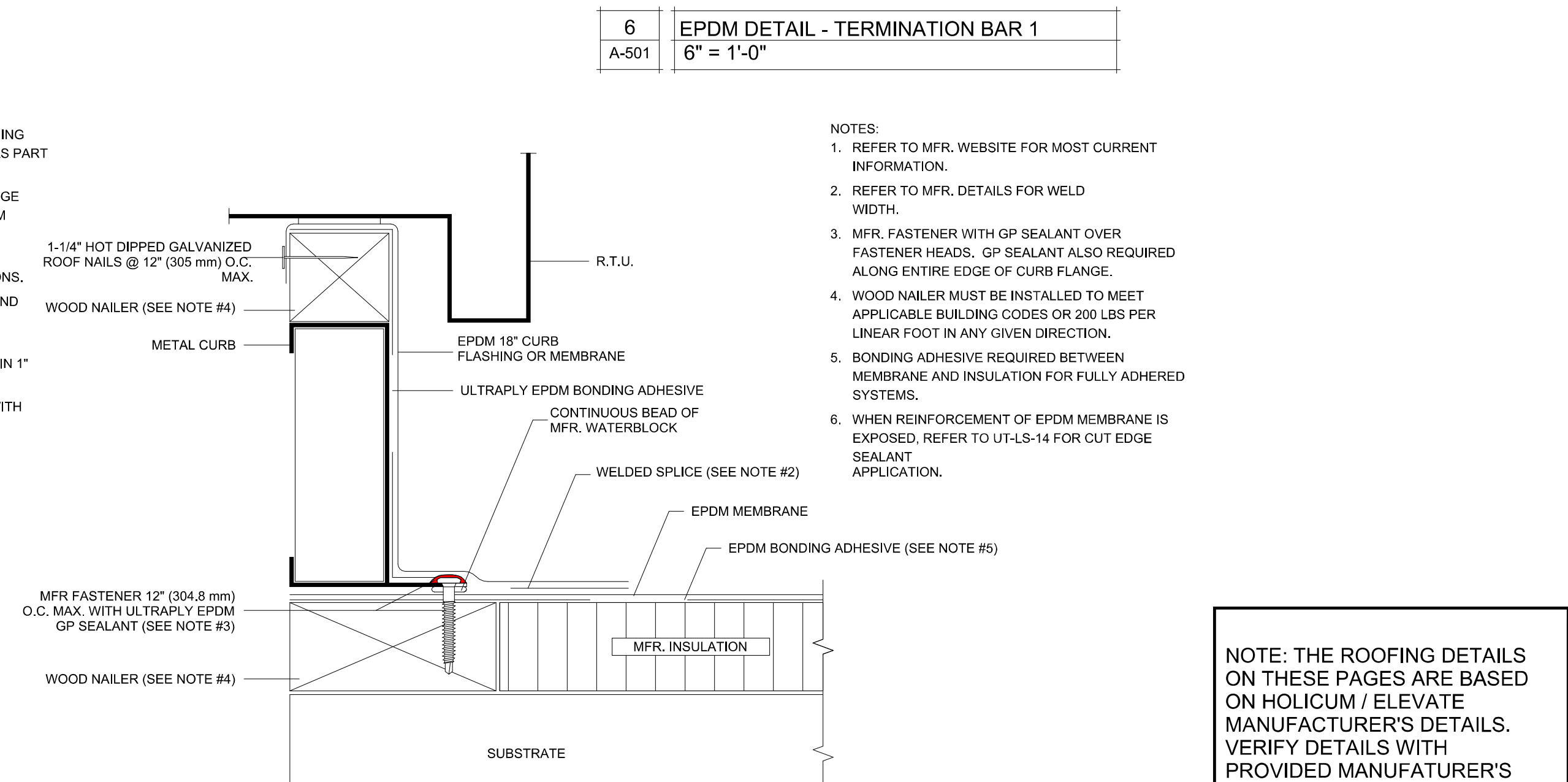
6 EPDM DETAIL - TERMINATION BAR 1
6" = 1'-0"



7 EPDM DETAIL - TERMINATION BAR 2
6" = 1'-0"



8 EPDM DETAIL - TERMINATION BAR 3
6" = 1'-0"



9 EPDM DETAIL - CURB DETAIL
6" = 1'-0"

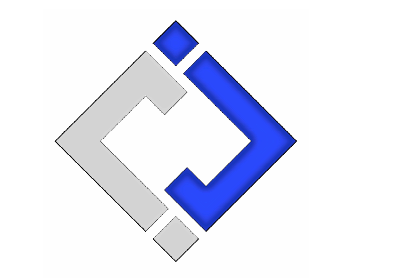
NOTE: THE ROOFING DETAILS ON THESE PAGES ARE BASED ON HOLICUM / ELEVATE MANUFACTURER'S DETAILS. VERIFY DETAILS WITH PROVIDED MANUFACTURER'S DETAILS. THERE IS NO MINIMUM R-VALUE FOR THIS PROJECT. BUILDING IS NOT CONDITIONED. SEE SPECIFICATIONS FOR PRE APPROVED ALTERNATE BRANDS, TYP.



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ASSET # 3511501018

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BID DOCUMENTS

CAD DWG FILE: -DT-11
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

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MEMBRANE ROOF DETAILS

SHEET NUMBER:
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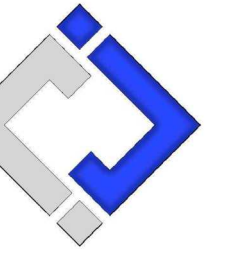
SHEET 11 OF 30
ISSUE DATE: 11/29/23



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CAD DWG FILE: _____
DRAWN BY: RXM _____
CHECKED BY: JAP _____
DESIGNED BY: KEL _____

SHEET TITLE:

MEP GENERAL
INFORMATION

SHEET NUMBER:

MEP-001

SHEET 13 OF 30
11/29/2023

GENERAL MEP SPECIFICATIONS

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH HIS TRADE REGARDLESS OF WHERE THE WORK IS DEPICTED IN THE DRAWINGS OR SPECIFICATIONS.
- THE LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND WILL NEED TO BE COORDINATED IN FIELD. THE CONTRACTOR SHALL INCLUDE THIS COORDINATION IN HIS SCOPE AND INCLUDE ALL COSTS OF MODIFYING THE LAYOUT AS REQUIRED IN HIS BID.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS.
- ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURE'S PUBLISHED INSTRUCTIONS.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES.
- CONTRACTOR IS RESPONSIBLE FOR TO COORDINATE EQUIPMENT LOCATIONS AND SYSTEM ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
- CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE PROJECT IS TURN OVER TO THE OWNER, UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO INCLUDE IN HIS SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, AND TAPS ASSOCIATED WITH HIS WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE HIS WORK, UNLESS NOTED OTHERWISE.
- THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSION, ARCHITECTURAL SHALL GOVERN.
- SEE DISCIPLINE SHEETS FOR ADDITIONAL DISCIPLINE SPECIFIC SPECIFICATIONS.

REFERENCED CODES IN EFFECT

- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL FUEL GAS CODE
- 2015 INTERNATIONAL FIRE CODE
- 2017 NATIONAL ELECTRIC CODE

SHEET LIST TABLE

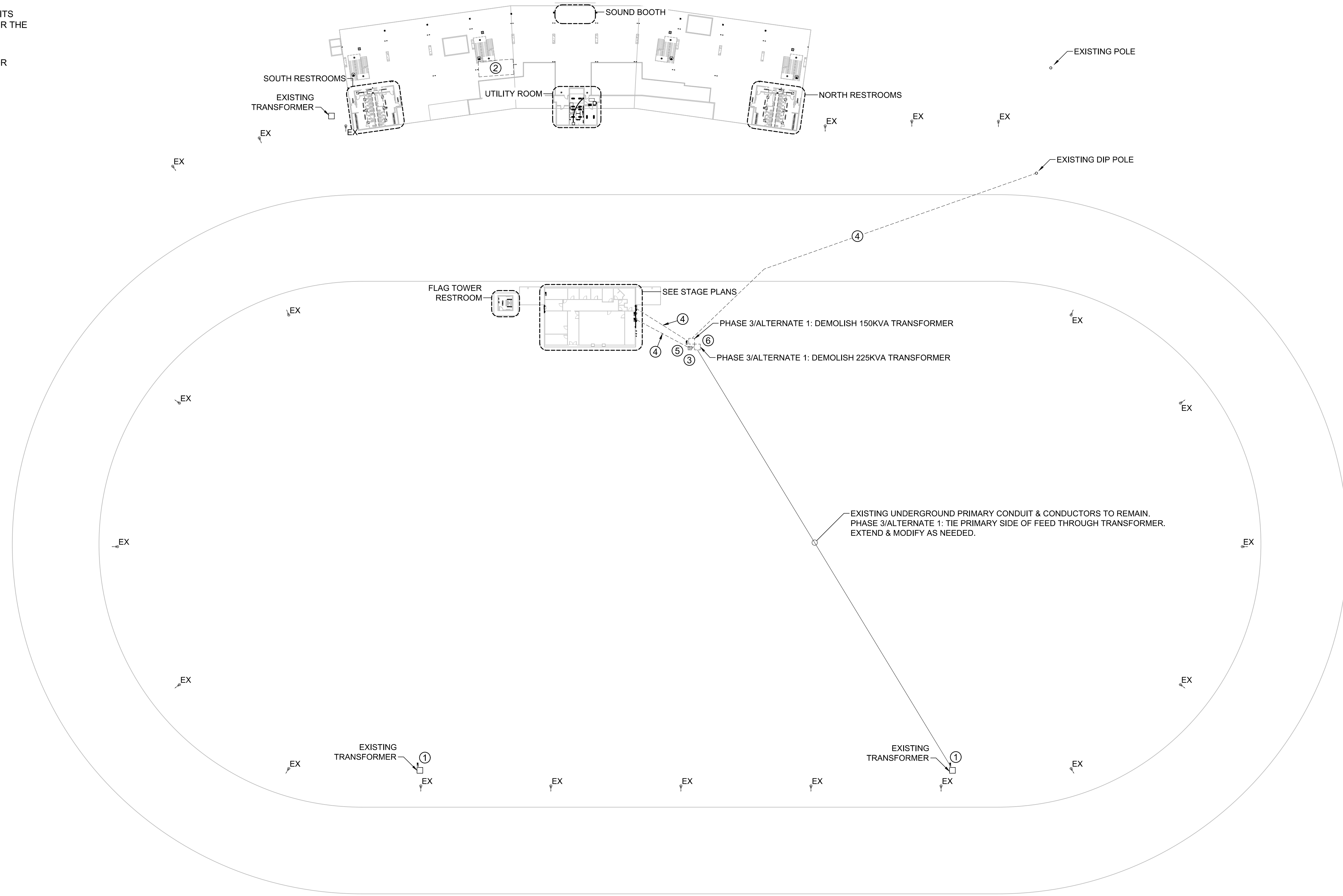
Sheet Number	Sheet Title
MEP-001	MEP GENERAL INFORMATION
D-101	SITE DEMOLITION PLAN
D-102	GRANDSTAND SEATING DEMOLITION PLAN
D-103	BELOW GRANDSTAND DEMOLITION PLAN
D-104	ENLARGED DEMOLITION PLANS
D-105	ENLARGED DEMOLITION PLAN
M-101	ENLARGED HVAC PLANS (PHASE 1)
E-101	SITE ELECTRICAL PLAN
E-102	ENLARGED POWER PLANS
E-103	ENLARGED STAGE POWER PLAN (PHASE 3 ALT. 1)
E-104	GRANDSTAND SEATING LIGHTING PLAN (PHASE 1)
E-105	BELOW GRANDSTAND LIGHTING PLAN (PHASE 1)
E-106	ENLARGED LIGHTING PLANS (PHASE 1)
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-601	ELECTRICAL SCHEDULES
E-602	ELECTRICAL SCHEDULES
P-101	ENLARGED PLUMBING PLANS (PHASE 1)

DEMOLITION PLAN GENERAL NOTES:

1. SEE SHEETS E-501, E-502, E-601 & E-602 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. SEE SHEET M-501 FOR ADDITIONAL HVAC NOTES, DETAILS, & SCHEDULES.
3. SEE SHEET P-501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.
4. ALL EQUIPMENT LABELED 'EX' OR 'EXISTING' SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

DEMOLITION PLAN KEY NOTES:

- ① PHASE 2: DEMOLISH PANEL & PREP FOR NEW PANEL INSTALLATION.
- ② PHASE 1: DEMOLISH HANGING PRESS BOX & ALL ASSOCIATED ELECTRICAL & HVAC EQUIPMENT & WIRING.
- ③ PHASE 3/ALTERNATE 1: DEMOLISH DISCONNECT.
- ④ PHASE 3/ALTERNATE 1: DEMOLISH CONDUIT AND CONDUCTORS.
- ⑤ PHASE 3/ALTERNATE 1: DEMOLISH PANEL & ROUTE EXISTING CIRCUITS THAT ARE TO REMAIN TO NEW PANEL CONNECTION LOCATED UNDER THE STAGE.
- ⑥ PHASE 1: REPLACE EXISTING 600A DISCONNECT WITH NEW DOUBLE THROW 600A DISCONNECT. SEE STAGE POWER RISER (PHASE 1) FOR MORE DETAILS.



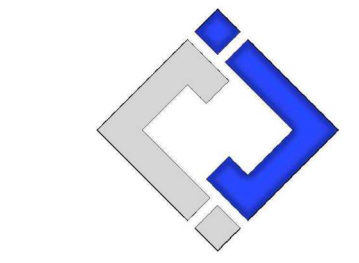
SITE DEMOLITION PLAN
 SCALE: 1" = 50 ft



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CAD DWG FILE: _____
DRAWN BY: RXM _____
CHECKED BY: JAP _____
DESIGNED BY: KEL _____

SHEET TITLE:

**SITE DEMOLITION
PLAN**

SHEET NUMBER:

D-101

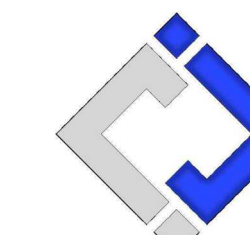
SHEET 14 OF 30
11/29/2023



Keaton E. Leisinger, P.E.
PE-2021035875
MO Certificate of Authority # 2018029680



1806 West Broadway Boulevard
Sedalia, MO 65301
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OFFICE OF ADMINISTRATION
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UPGRADE ELECTRICAL AND
RESTROOMS, GRANDSTAND
MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST.
SEDALIA, MO 65301

PROJECT # T2304-01
SITE # 1501
ASSET # 3511501018

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:
**GRANDSTAND
SEATING
DEMOLITION
PLAN**

SHEET NUMBER:

D-102

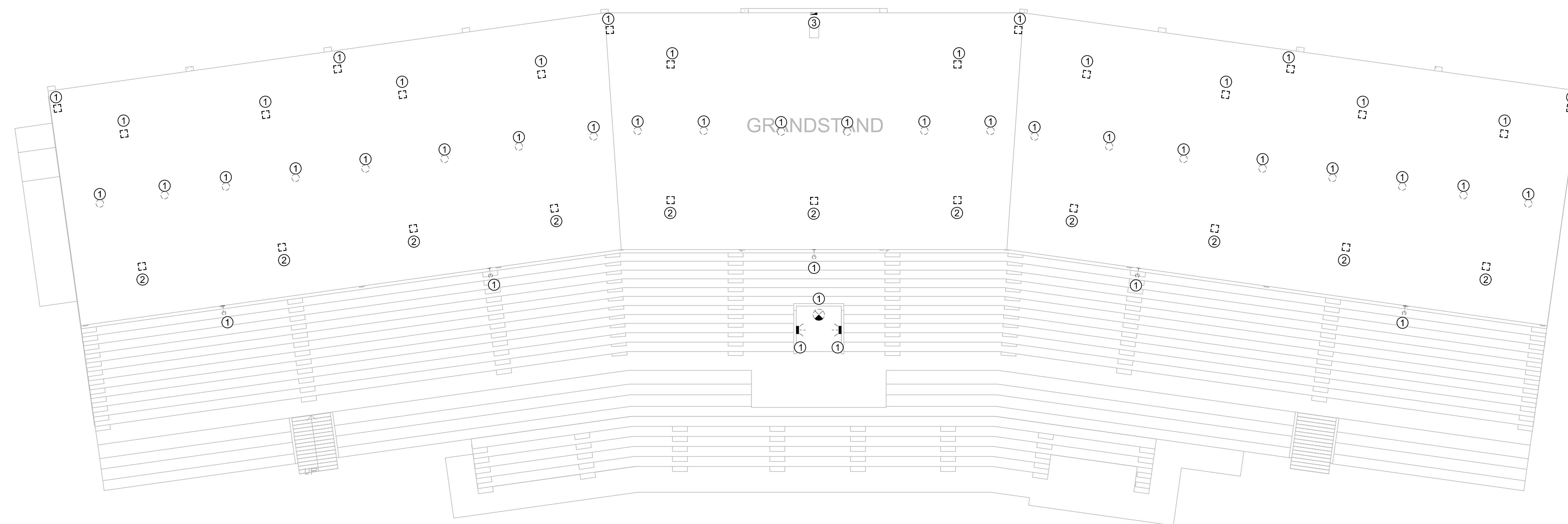
SHEET 15 OF 30
11/29/2023

DEMOLITION PLAN GENERAL NOTES:

1. SEE SHEETS E-501, E-502, E-601 & E-602 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. SEE SHEET M-501 FOR ADDITIONAL HVAC NOTES, DETAILS, & SCHEDULES.
3. SEE SHEET P-501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.
4. ALL EQUIPMENT LABELED 'EX' OR 'EXISTING' SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

DEMOLITION PLAN KEY NOTES:

- ① PHASE 1: DEMOLISH LIGHT FIXTURE IN PLACE & PREP FOR NEW FIXTURE CONNECTION.
- ② PHASE 1: EXISTING BOX & CIRCUIT TO REMAIN. LIGHT FIXTURE WITHIN BOX SHALL BE DEMOLISHED & PREPARED FOR NEW FIXTURE INSTALLATION. SEE FIXTURE (F2) DETAIL.
- ③ PHASE 1: DEMOLISH PANEL IN SOUND BOOTH & PREP FOR NEW PANEL INSTALLATION.



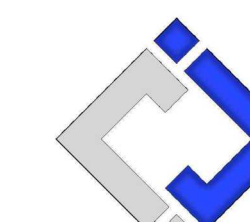
GRANDSTAND SEATING DEMOLITION PLAN
SCALE: 1/16" = 1'-0"



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PROJECT # T2304-01
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DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 11/29/2023

BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:
**BELOW
GRANDSTAND
DEMOLITION
PLAN**

SHEET NUMBER:

D-103

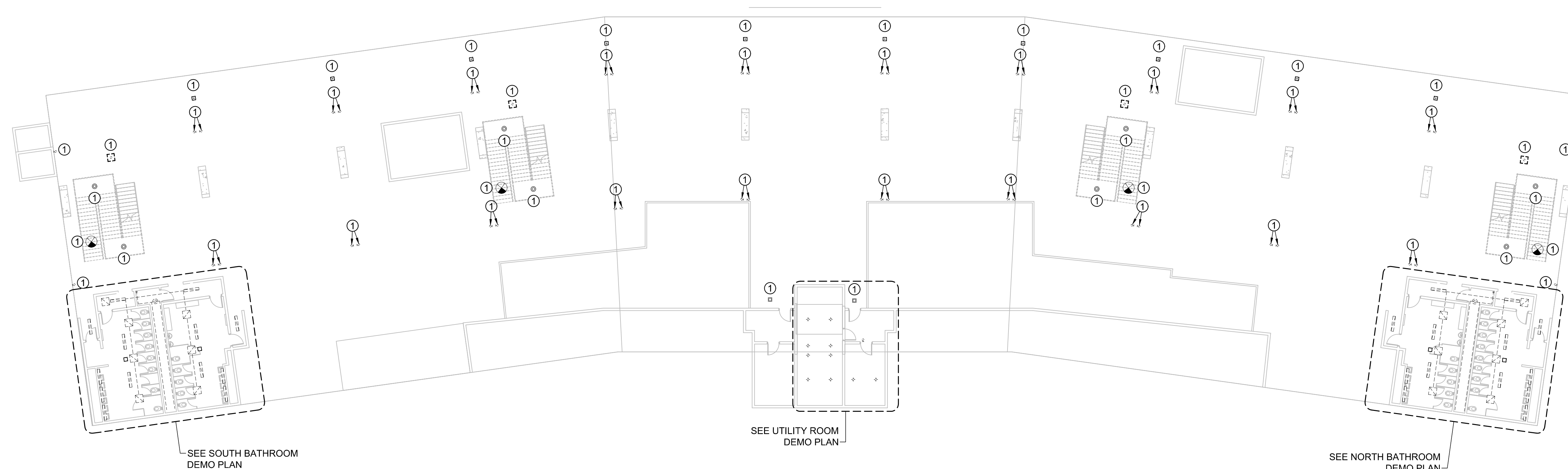
SHEET 16 OF 30
11/29/2023

DEMOLITION PLAN GENERAL NOTES:

1. SEE SHEETS E-501, E-502, E-601 & E-602 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. SEE SHEET M-501 FOR ADDITIONAL HVAC NOTES, DETAILS, & SCHEDULES.
3. SEE SHEET P-501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.
4. ALL EQUIPMENT LABELED 'EX' OR 'EXISTING' SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

DEMOLITION PLAN KEY NOTES:

- ① PHASE 1: DEMOLISH LIGHT FIXTURE IN PLACE & PREP FOR NEW FIXTURE CONNECTION.



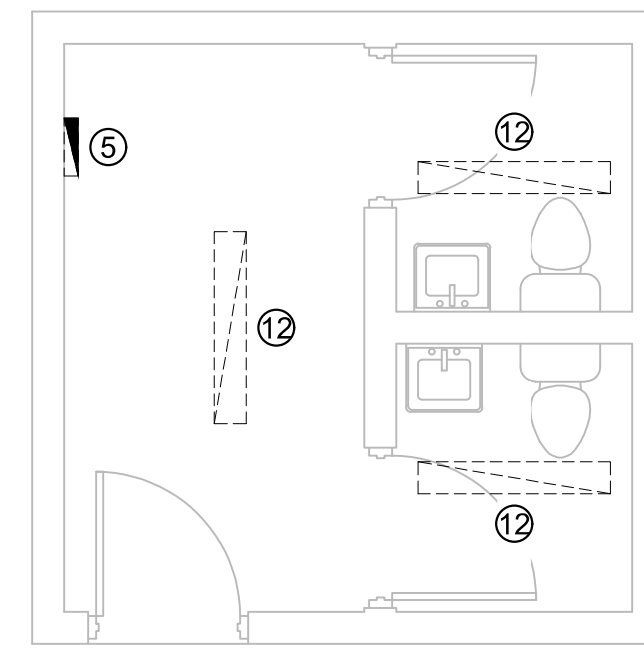
BELOW GRANDSTAND DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

DEMOLITION PLAN GENERAL NOTES:

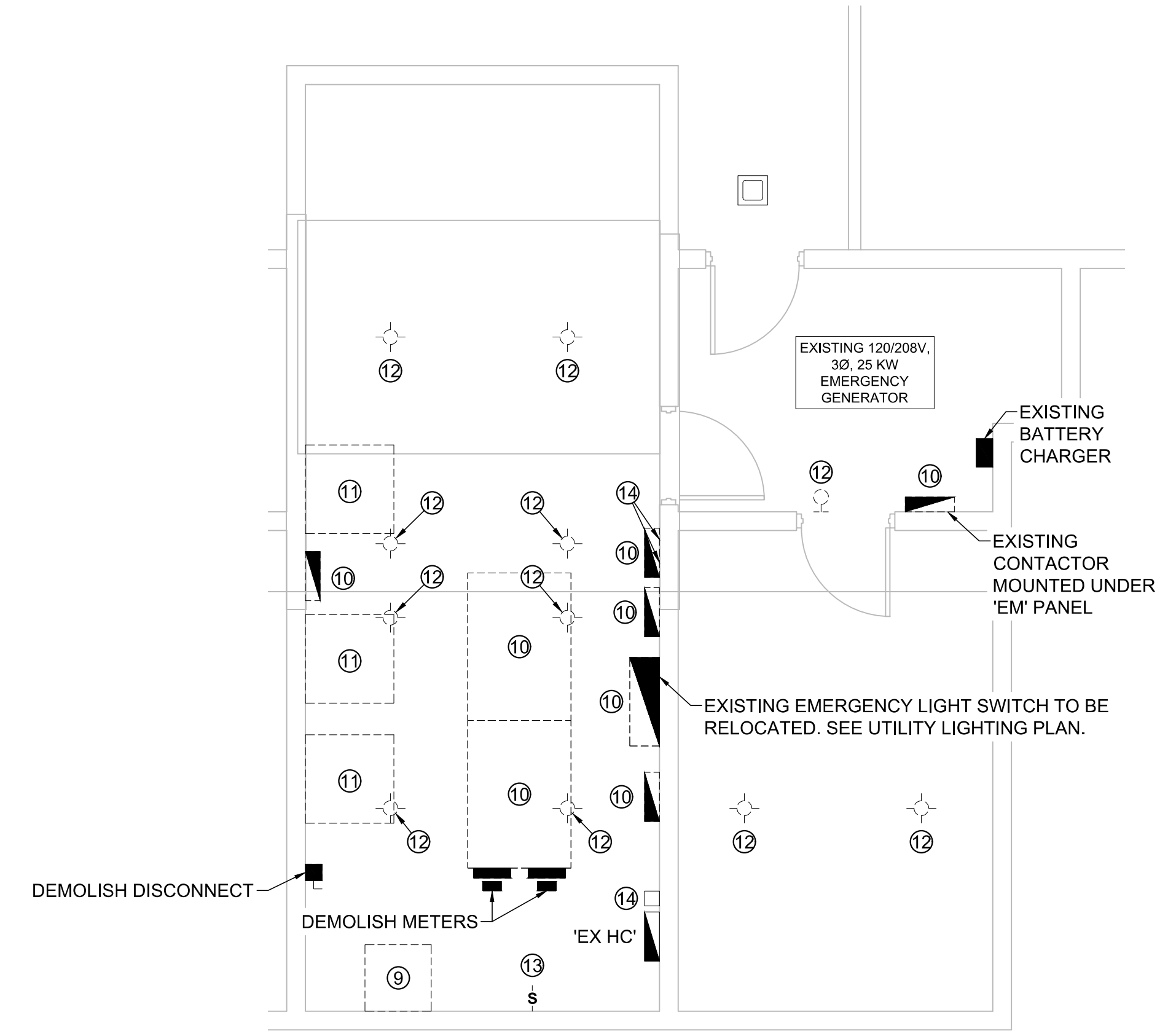
1. SEE SHEETS E-501, E-502, E-601 & E-602 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. SEE SHEET M-501 FOR ADDITIONAL HVAC NOTES, DETAILS, & SCHEDULES.
3. SEE SHEET P-501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.
4. ALL EQUIPMENT LABELED 'EX' OR 'EXISTING' SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

DEMOLITION PLAN KEY NOTES:

- ① PHASE 1: DEMOLISH LIGHT FIXTURE & ASSOCIATED WIRING BACK TO PANEL.
- ② PHASE 1: DEMOLISH GRILLE & ASSOCIATED DUCTWORK ON ROOF.
- ③ PHASE 1: DEMOLISH LAVATORY & ASSOCIATED COLD WATER PIPING BACK TO MAIN CONNECTION.
- ④ PHASE 1: OWNER TO REMOVE FIXTURE. CONTRACTOR TO DEMOLISH COLD WATER LINE BACK TO MAIN CONNECTION.
- ⑤ PHASE 1: DEMOLISH ELECTRIC PANEL.
- ⑥ PHASE 1: DEMOLISH COLD WATER MAIN BACK TO THIS LOCATION. LEAVE ENOUGH EXISTING PIPE FOR NEW PIPE TO TIE INTO.
- ⑦ PHASE 1: DEMOLISH URINAL TROFF & ASSOCIATED SANITARY, VENT, & COLD WATER PIPING.
- ⑧ PHASE 1: DEMOLISH ALL VENT PIPING IN CHASE. LEAVE ENOUGH EXISTING PIPE FOR NEW PIPE TO TIE INTO.
- ⑨ PHASE 1: DEMOLISH FAN & ASSOCIATED CONTROL SWITCH.
- ⑩ PHASE 2: DEMOLISH PANEL & PREP FOR NEW PANEL INSTALLATION.
- ⑪ PHASE 2: DEMOLISH STEP DOWN TRANSFORMER.
- ⑫ PHASE 1: DEMOLISH LIGHT FIXTURE IN PLACE & PREP FOR NEW FIXTURE CONNECTION.
- ⑬ PHASE 2: EXISTING SWITCH AND SO CORD TO BE RELOCATED. SEE LIGHTING CONTROL DETAILS FOR MORE INFORMATION.
- ⑭ EXISTING LIGHTING CONTACTOR TO REMAIN.



FLAG TOWER RESTROOM DEMO PLAN
SCALE: 1/4" = 1'-0"



UTILITY ROOM DEMO PLAN
SCALE: 1/4" = 1'-0"



SOUTH BATHROOMS DEMO PLAN
SCALE: 1/4" = 1'-0"



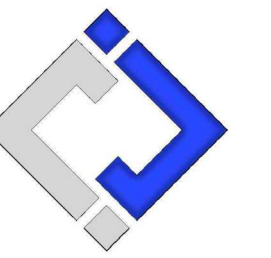
NORTH BATHROOMS DEMO PLAN
SCALE: 1/4" = 1'-0"



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PROJECT # T2304-01
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DATE: _____

ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

ENLARGED
DEMOLITION
PLANS

SHEET NUMBER:

D-104

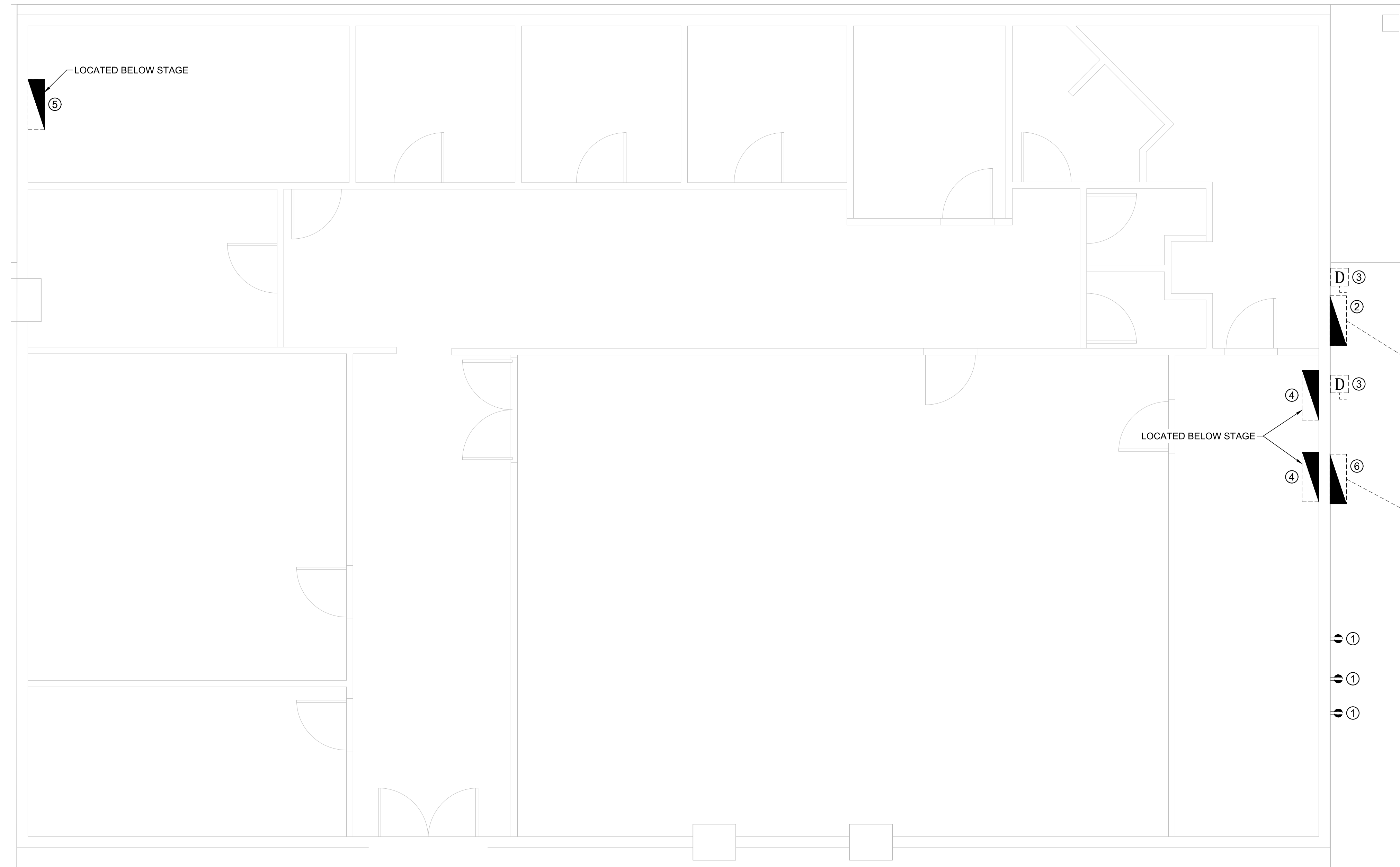
SHEET 17 OF 30
11/29/2023

DEMOLITION PLAN GENERAL NOTES:

1. SEE SHEETS E-501, E-502 E-601 & E-602 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. SEE SHEET M-501 FOR ADDITIONAL HVAC NOTES, DETAILS, & SCHEDULES.
3. SEE SHEET P-501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.
4. ALL EQUIPMENT LABELED 'EX' OR 'EXISTING' SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

DEMOLITION PLAN KEY NOTES:

- ① PHASE 3/ALTERNATE 1: DEMOLISH RECEPTACLE & ASSOCIATED CONDUIT & CONDUCTORS.
- ② PHASE 3/ALTERNATE 1: DEMOLISH PANEL & ASSOCIATED CONDUIT & CONDUCTORS BACK TO TRANSFORMER AND PREPARE FOR NEW STAGE SERVICE.
- ③ PHASE 3/ALTERNATE 1: DEMOLISH DISCONNECT & ASSOCIATED CONDUIT & CONDUCTORS BACK TO PANEL.
- ④ PHASE 3/ALTERNATE 1: DEMOLISH PANEL. PREPARE ALL EXISTING BRANCH CIRCUITS FOR NEW PANEL RECONNECTION.
- ⑤ PHASE 3/ALTERNATE 1: DEMOLISH PANEL & ASSOCIATED CONDUIT & CONDUCTORS BACK TO MAIN DISTRIBUTION PANEL.
- ⑥ PHASE 1: REPLACE EXISTING 800A DISCONNECT WITH DOUBLE THROW DISCONNECT. SEE STAGE POWER RISER (PHASE 1) FOR MORE DETAILS. PHASE 3/ALTERNATE 1: SALVAGE 800A DISCONNECT TO OWNER & DEMOLISH ASSOCIATED CONDUIT & CONDUCTORS BACK TO TRANSFORMER AND PREPARE FOR NEW STAGE SERVICE.



BELOW STAGE DEMO PLAN
 SCALE: 1/4" = 1'-0"

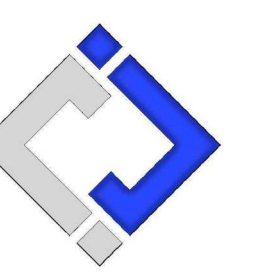
STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



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PROJECT # T2304-01
 SITE # 1501
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REVISION: _____
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 DATE: _____

ISSUE DATE: 11/29/2023
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CAD DWG FILE: _____
 DRAWN BY: RXM _____
 CHECKED BY: JAP _____
 DESIGNED BY: KEL _____

SHEET TITLE:

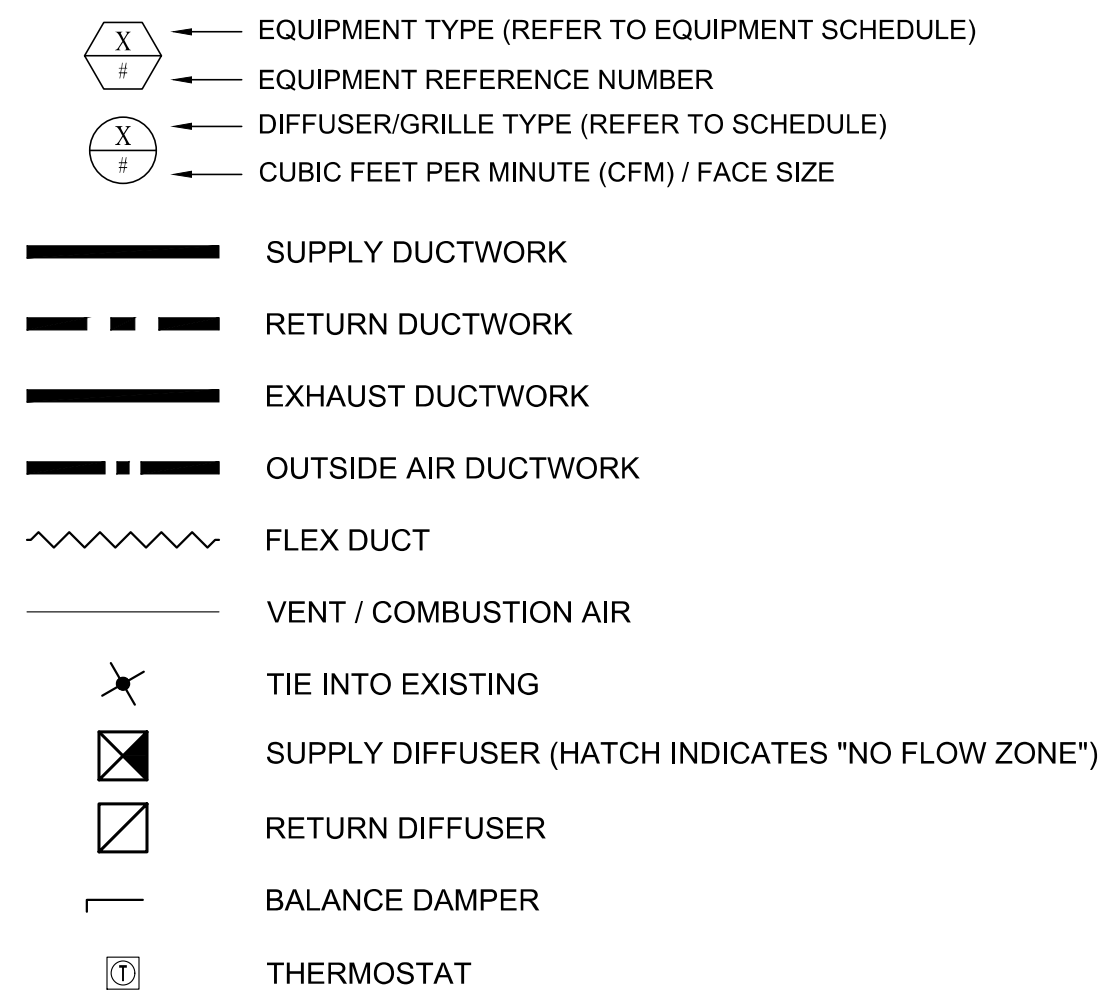
**ENLARGED
 DEMOLITION
 PLAN**

SHEET NUMBER:

D-105

SHEET 18 OF 30
 11/29/2023

HVAC PLAN SYMBOL LEGEND



EXHAUST FAN SCHEDULE											
TAG	EQUIPMENT TYPE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	FLOW		ELECTRICAL			PHYSICAL		NOTES
				CFM	S.P.	VOLT/PH	MCA	OCP	DIM.	WEIGHT	
EF-1.1	UTILITY FAN	S & P	CM-16	3,600	1"	208 / 3	11	20	22"x32"x37"	120	1,2
EF-1.2	UTILITY FAN	S & P	CM-16	3,600	1"	208 / 3	11	20	22"x32"x37"	120	1,2
EF-2	UTILITY FAN	S & P	CFD-12	2,000	0.5"	208 / 3	7	20	27"x27"x21"	82	1,2

NOTES:
 1. WITH SPEED CONTROLLER
 2. HORIZONTAL DISCHARGE.

AIR DEVICE SCHEDULE						
TAG	SERVICE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	SIZE	COLOR / FINISH	NOTES
E1	EX-HAUST	PRICE	80	AS INDICATED	WHITE	1
T1	TRANSFER	TITUS	T-700	AS INDICATED	PRIMED	1,2

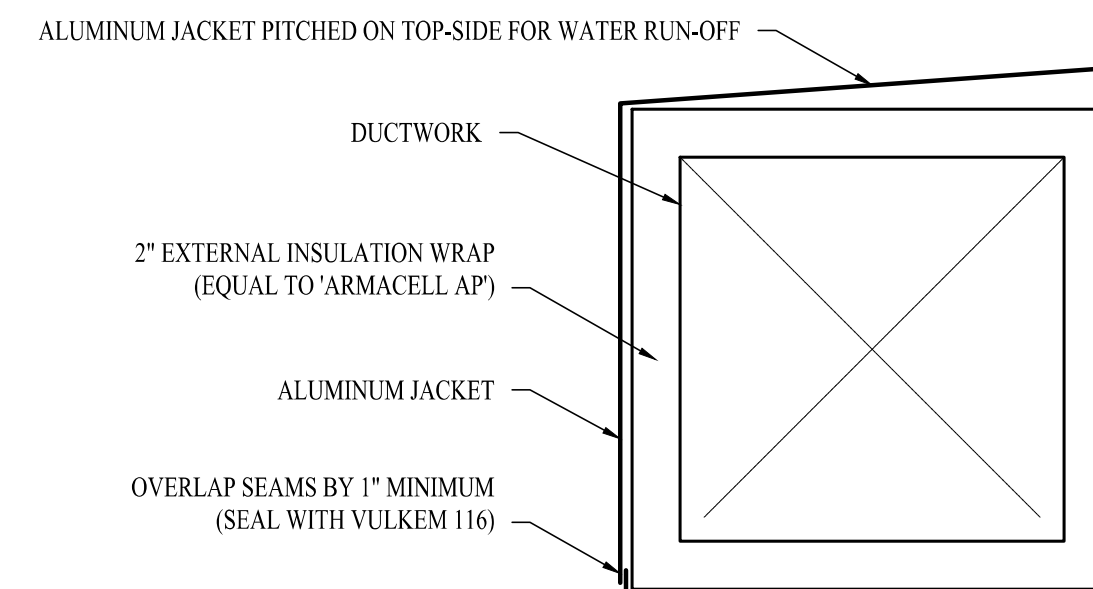
NOTES:
 1. VERIFY AIR DEVICE FINISHES WITH OWNER/ARCHITECT PRIOR TO INSTALLATION
 2. PAINT TO MATCH DOOR COLOR.

HVAC PLAN GENERAL NOTES:

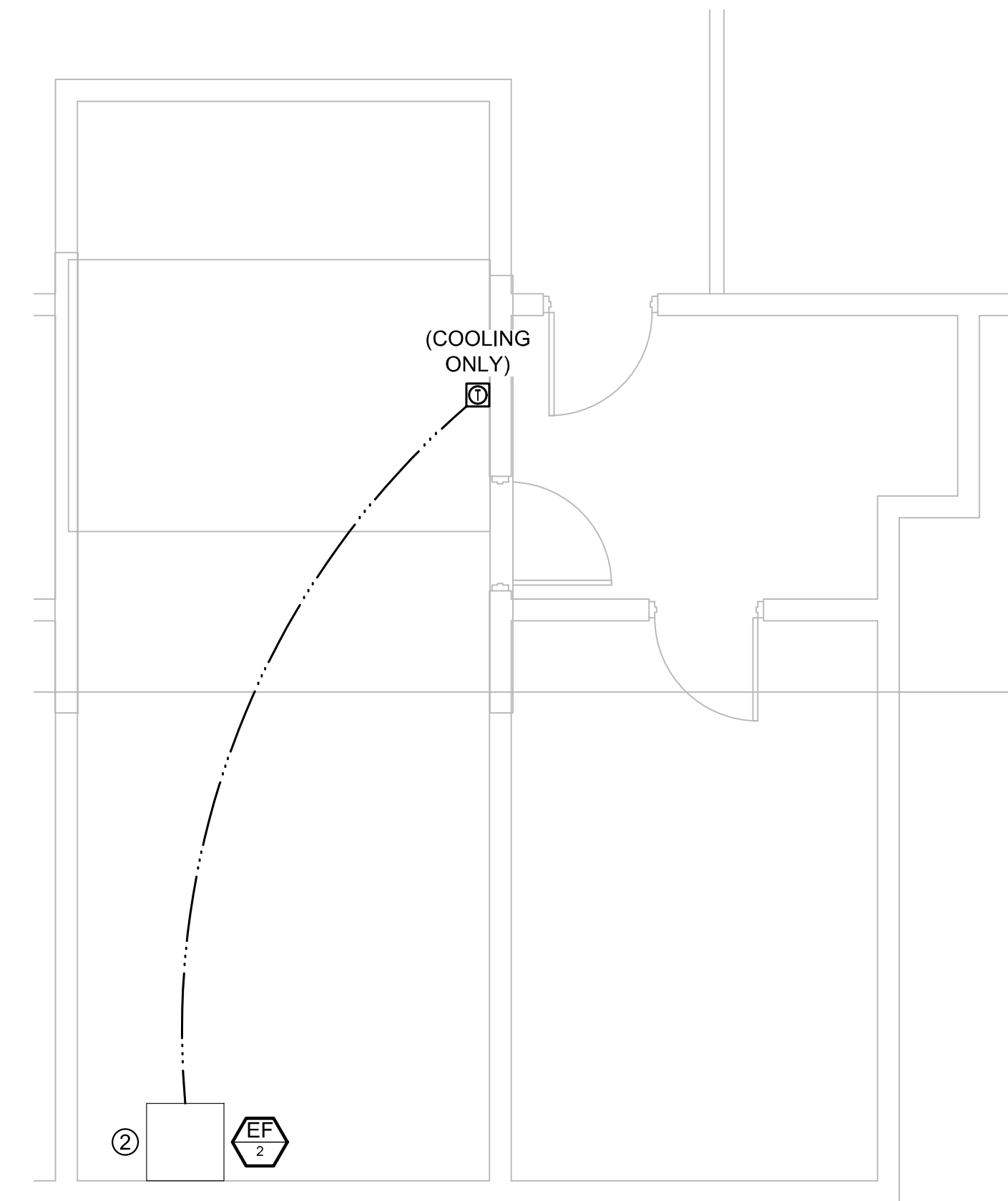
- ALL DUCTWORK SHALL BE MOUNTED ON ROOF. SEE DUCTWORK DETAILS.

HVAC PLAN KEY NOTES:

- REUSE EXISTING ROOF PENETRATION. PROVIDE NEW GRILLE AS SHOWN.
- MOUNT FAN ON FLOOR WITH RUBBER INSULATORS. FAN TO DISCHARGE OUT EXISTING WALL OPENING. CONTRACTOR TO BLOCK OFF OPENING NOT USED BY FAN OUTLET.
- EXHAUST FAN TO BE CONTROLLED BY OCCUPANCY SENSOR & COOLING ONLY THERMOSTAT WIRED IN PARALLEL. PROVIDE VANDAL RESISTANT COVER FOR THERMOSTAT & SWITCH.



BUILDING EXTERIOR DUCT SECTION DETAIL



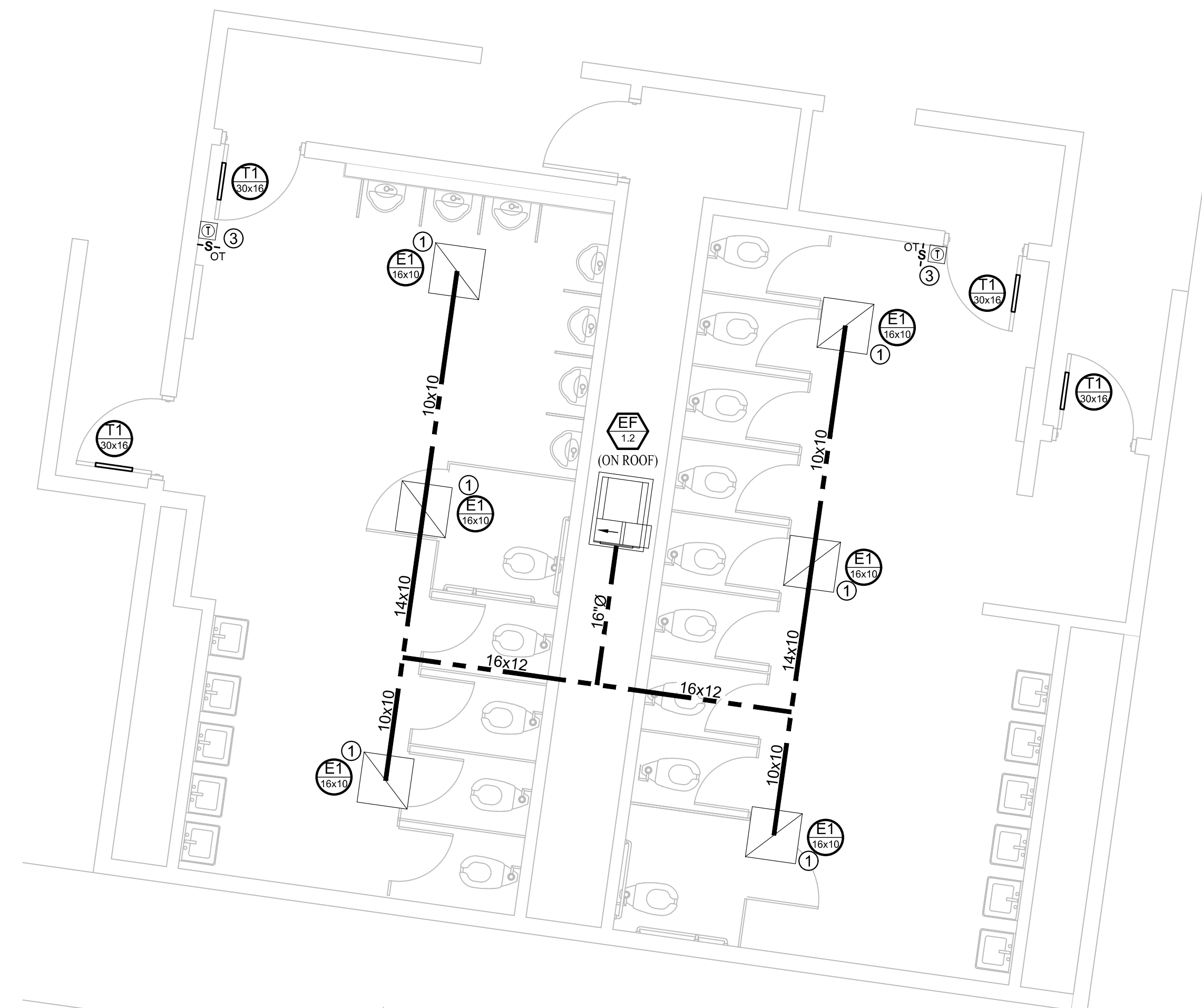
UTILITY ROOM HVAC PLAN

SCALE: 1/4" = 1'-0"



SOUTH BATHROOMS HVAC PLAN

SCALE: 1/4" = 1'-0"



NORTH BATHROOMS HVAC PLAN

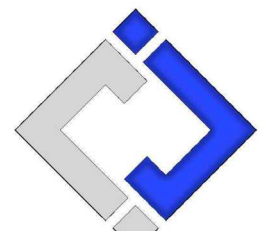
SCALE: 1/4" = 1'-0"



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DATE: _____

ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

ENLARGED HVAC
PLANS (PHASE 1)

SHEET NUMBER:

M-101

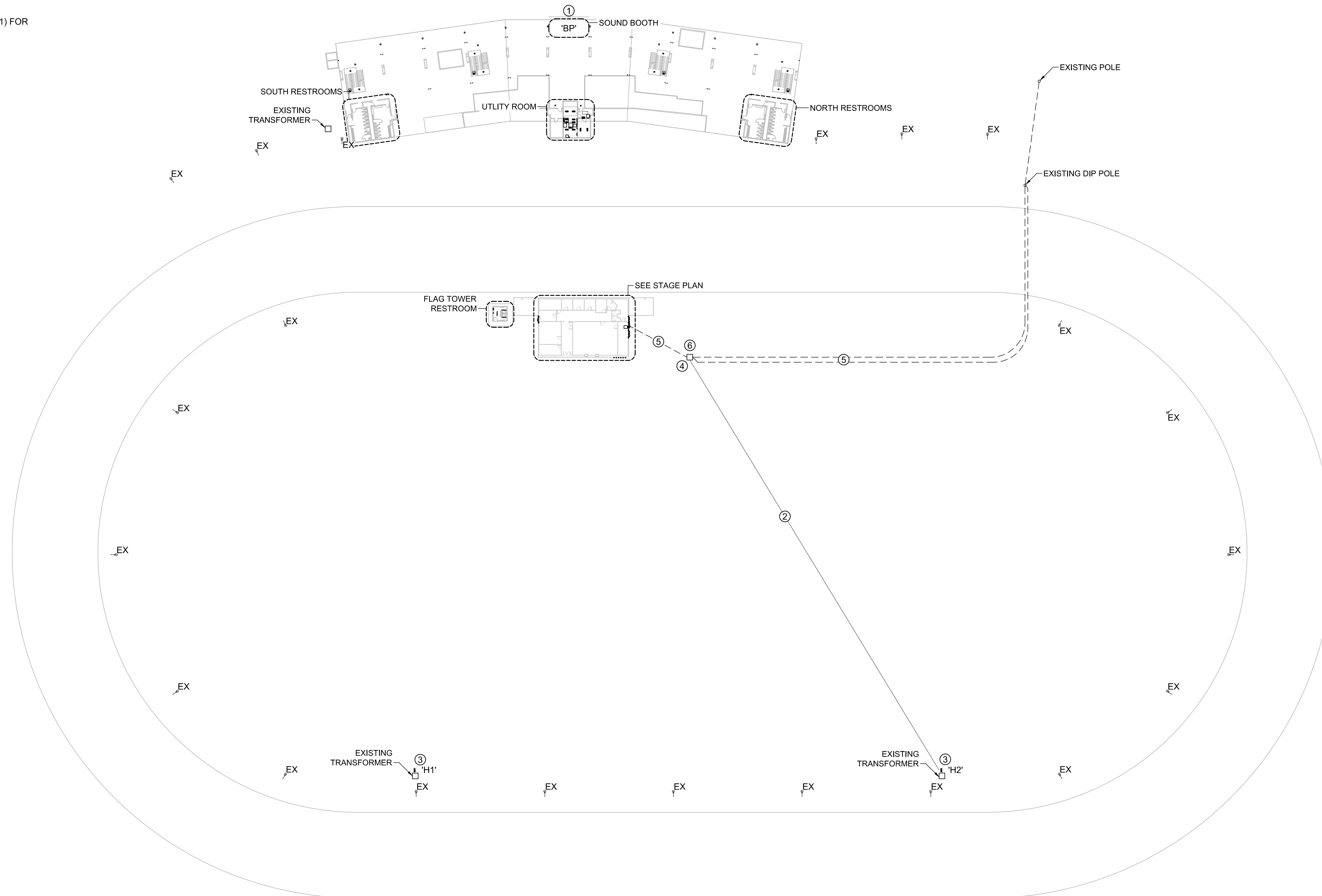
SHEET 19 OF 30
11/29/2023

POWER PLAN GENERAL NOTES:

1. SEE SHEETS E-501, E-502, E-601 & E-602 FOR ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. ALL EQUIPMENT LABELED "EX" OR "EXISTING" SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

POWER PLAN KEY NOTES:

- ① PHASE 1: PROVIDE & INSTALL NEW PANEL. SEE PANEL SCHEDULE & POWER RISER FOR MORE DETAILS.
- ② EXISTING CONDUIT & CONDUCTORS TO REMAIN.
- ③ PHASE 2: PROVIDE & INSTALL NEW PANEL. SEE PANEL SCHEDULE & POWER RISER FOR MORE DETAILS.
- ④ PHASE 3/ALTERNATE 1: PROVIDE & INSTALL NEW 300KVA TRANSFORMER.
- ⑤ PHASE 3/ALTERNATE 1: SEE POWER RISER FOR CONDUIT & CONDUCTOR SIZE AND FURTHER INFORMATION.
- ⑥ PHASE 1: PROVIDE & INSTALL NEW 600A & 800A, 120/208Y, NEMA 3R, DOUBLE THROW DISCONNECTS. SEE STAGE POWER RISER (PHASE 1) FOR MORE INFORMATION.



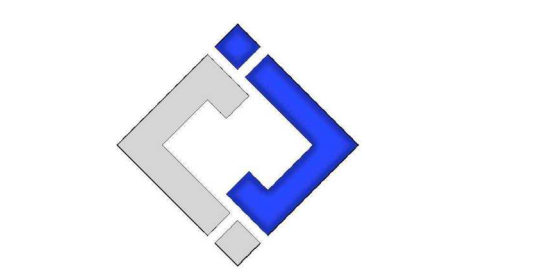
SITE ELECTRICAL PLAN
 SCALE: 1" = 50 ft



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CAD DWG FILE: _____
DRAWN BY: RXM _____
CHECKED BY: JAP _____
DESIGNED BY: KEL _____

SHEET TITLE:

**SITE ELECTRICAL
PLAN**

SHEET NUMBER:

E-101

SHEET 20 OF 30
11/29/2023

POWER PLAN SYMBOL LEGEND

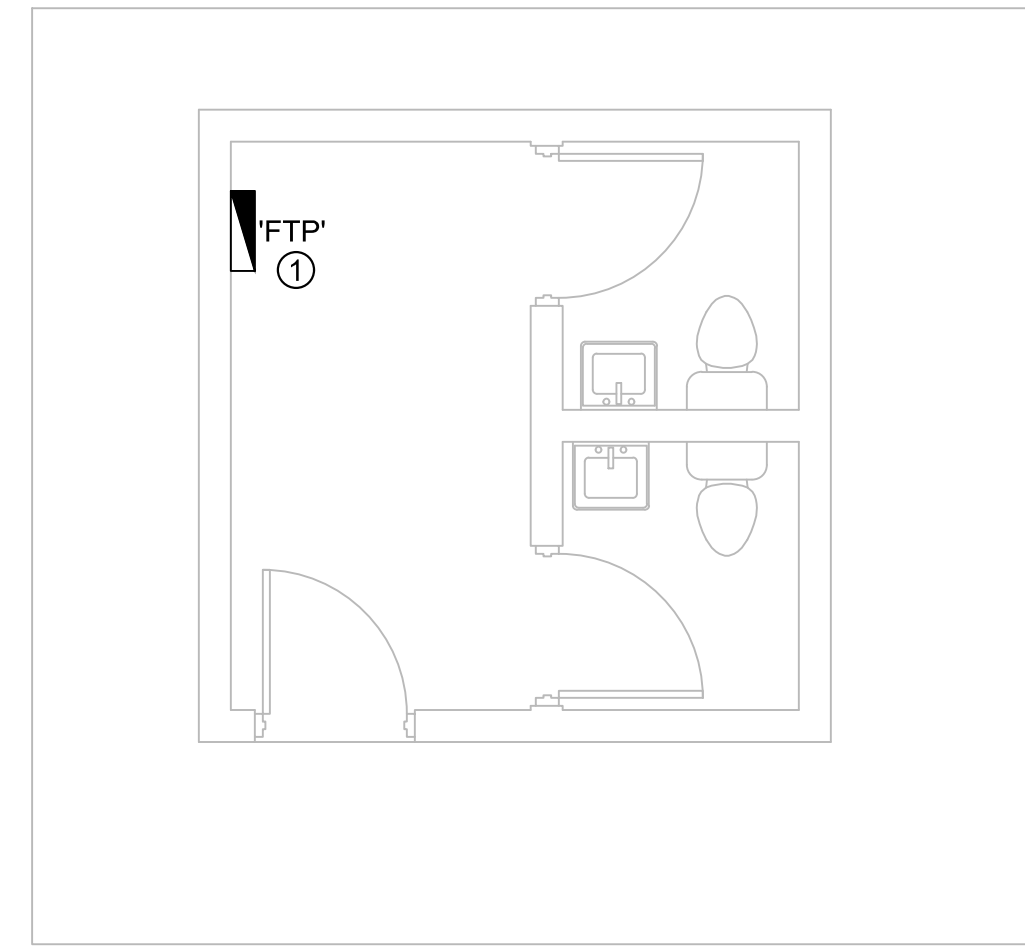
- CIRCUIT WIRING
- CIRCUIT TAG
- JUNCTION BOX
- RECEPTACLE
INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- "WP" = WEATHERPROOF OUTDOOR RECEPTACLE
- "AW" = ABOVE WINDOW RECEPTACLE
- "AC" = ABOVE CEILING RECEPTACLE
- "EX" = EXISTING RECEPTACLE TO REMAIN
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- 208V RECEPTACLE
- QUADPLEX CONVENIENCE RECEPTACLE
- USB OUTLET WITH USB-A & USB-C CHARGING PORT
- DATA / PHONE JACK BOX WITH 1" CONDUIT & PULL STRING UP TO CEILING SPACE (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- WIRELESS ACCESS POINT, CEILING MOUNTED
- FLOOR RECEPTACLE
- FLOOR DATA
- DISCONNECT
- FUSED DISCONNECT
- FUSED SWITCH
- STARTER / DISCONNECT
- TIE INTO EXISTING

POWER PLAN GENERAL NOTES:

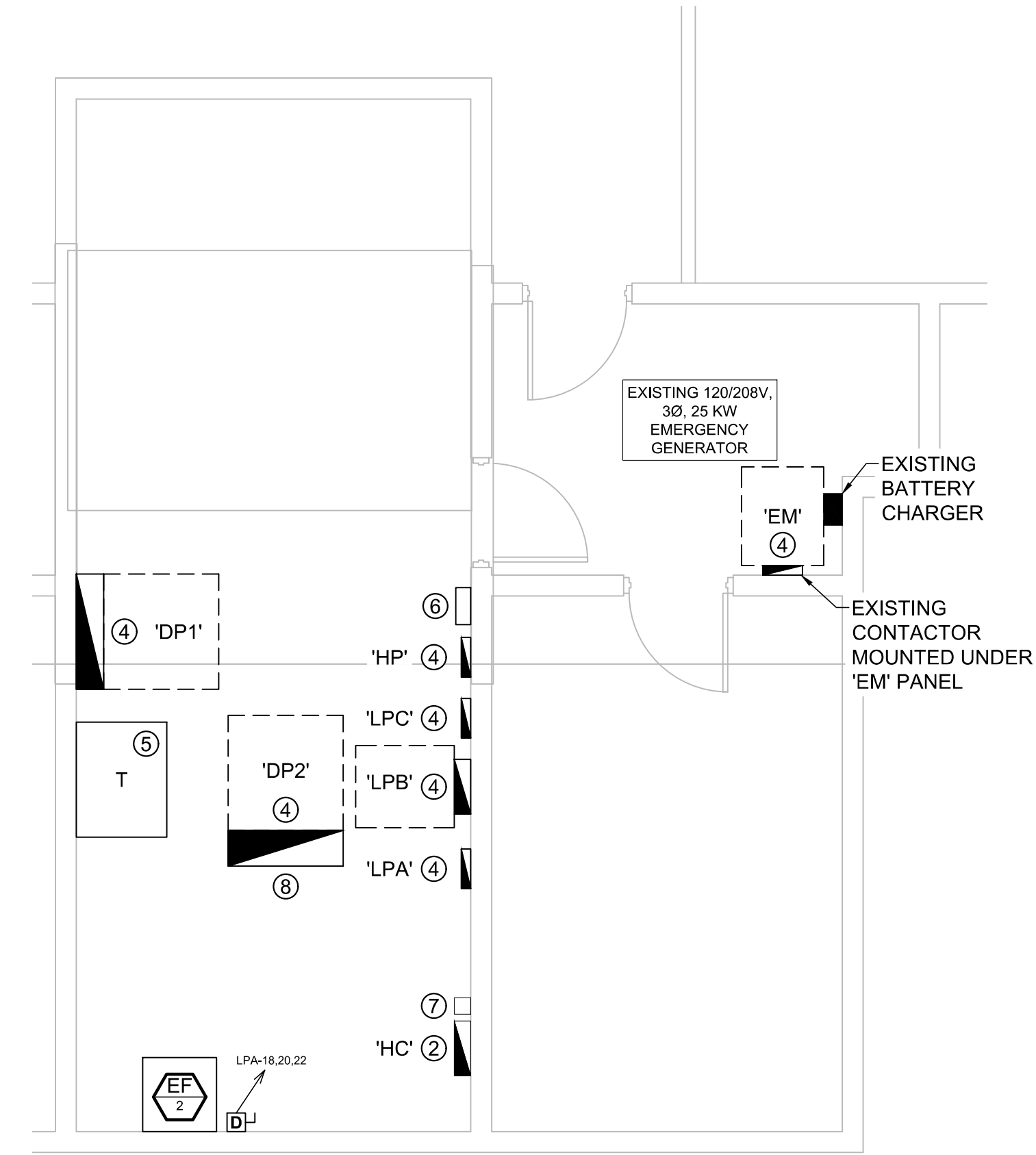
1. SEE SHEETS E-501, E-502, E-601 & E-602 FOR ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. ALL EQUIPMENT LABELED "EX" OR "EXISTING" SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
3. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL CONDUIT & CONDUCTOR MODIFICATIONS OR EXTENSIONS NECESSARY FOR A FULLY FUNCTIONAL ELECTRICAL SYSTEM.

POWER PLAN KEY NOTES:

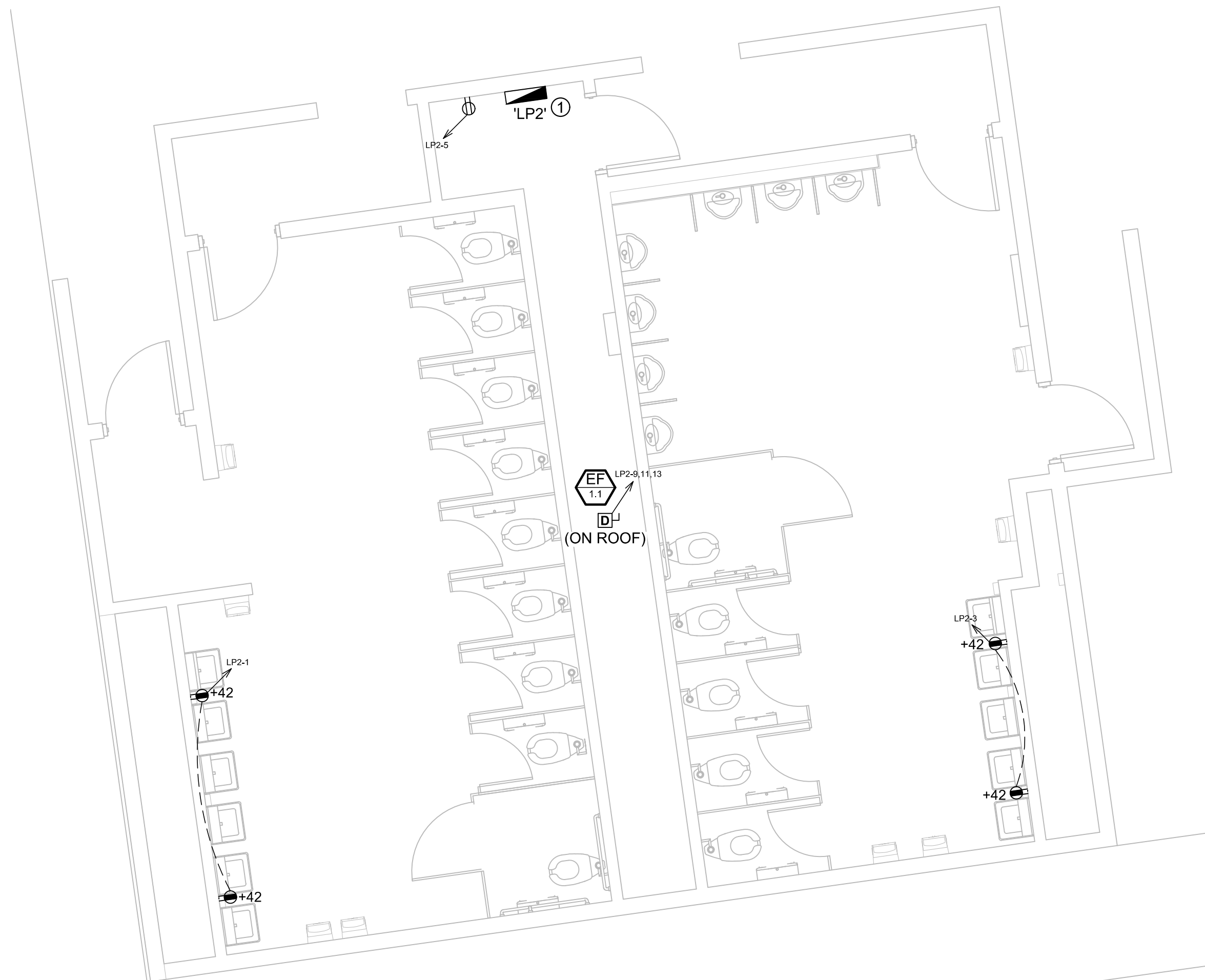
- ① PHASE 1: PROVIDE & INSTALL NEW PANEL. SEE PANEL SCHEDULE & POWER RISERS FOR MORE DETAILS.
- ② EXISTING PANEL TO REMAIN.
- ③ PHASE 2: PROVIDE & INSTALL NEW 800A, 120/208V, 3Ø DISCONNECT.
- ④ PHASE 2: PROVIDE & INSTALL NEW PANEL. SEE PANEL SCHEDULE & POWER RISERS FOR MORE DETAILS.
- ⑤ PHASE 2: NEW STEP DOWN TRANSFORMER. SEE POWER RISER FOR MORE DETAILS.
- ⑥ PHASE 2: (2) EXISTING CONTACTORS AND CONTROL SWITCHES TO BE RELOCATED HERE. PROVIDE & INSTALL (1) NEW LIGHTING CONTACTOR. SEE LIGHTING CONTROL DETAILS FOR FURTHER INFORMATION.
- ⑦ EXISTING LIGHTING CONTACTOR TO REMAIN.
- ⑧ PHASE 2: PROVIDE & INSTALL UNISTRUT STRUCTURE FOR PANEL MOUNTING.



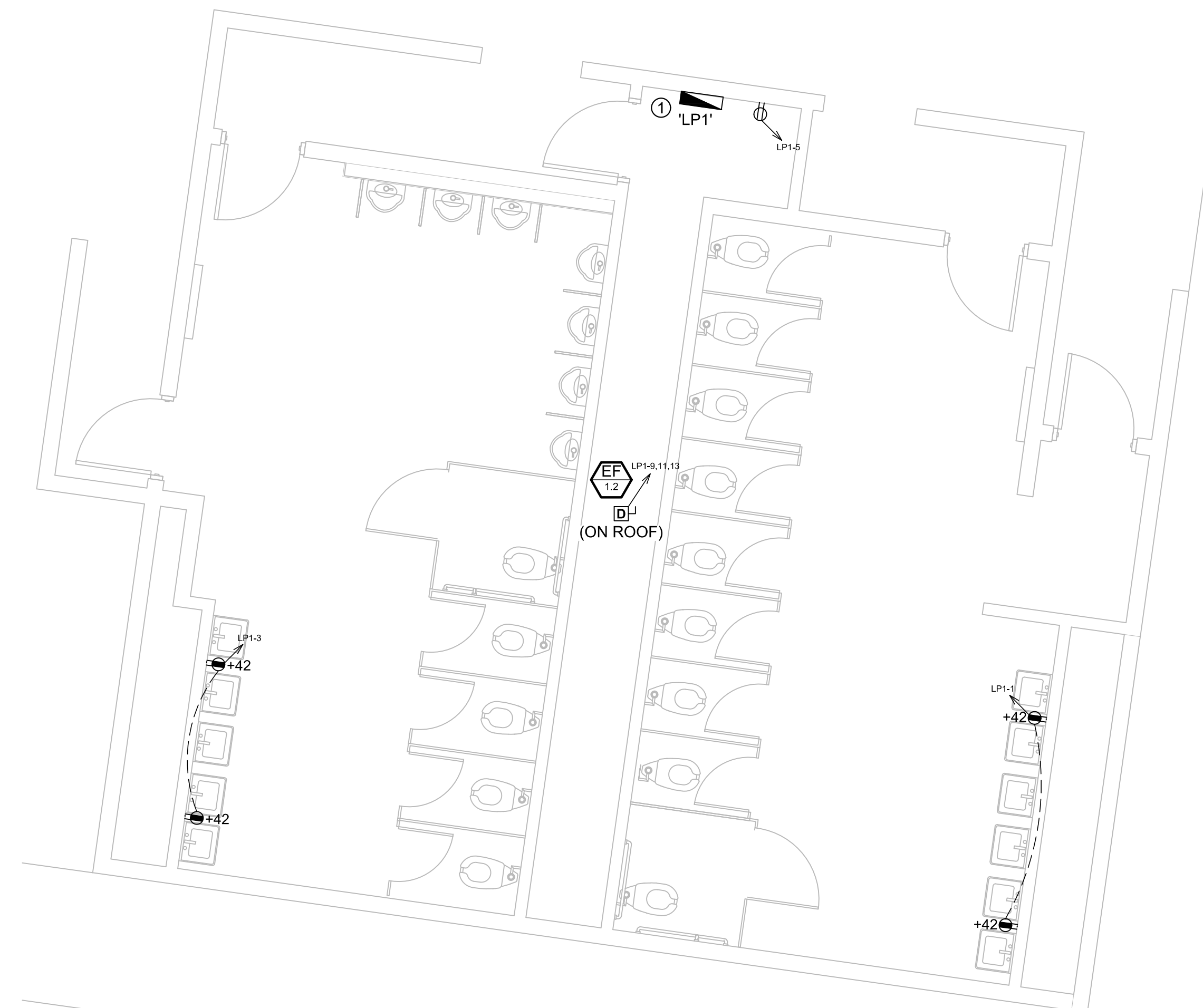
FLAG TOWER POWER PLAN
SCALE: 1/4" = 1'-0"



UTILITY ROOM POWER PLAN
SCALE: 1/4" = 1'-0"



SOUTH BATHROOMS POWER PLAN
SCALE: 1/4" = 1'-0"



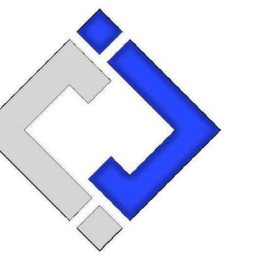
NORTH BATHROOMS POWER PLAN
SCALE: 1/4" = 1'-0"



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CONSTRUCTION

UPGRADE ELECTRICAL AND
RESTROOMS, GRANDSTAND
MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST.
SEDALIA, MO 65301

PROJECT # T2304-01
SITE # 1501
ASSET # 3511501018

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

ENLARGED
POWER PLANS

SHEET NUMBER:

E-102

SHEET 21 OF 30
11/29/2023

POWER PLAN SYMBOL LEGEND

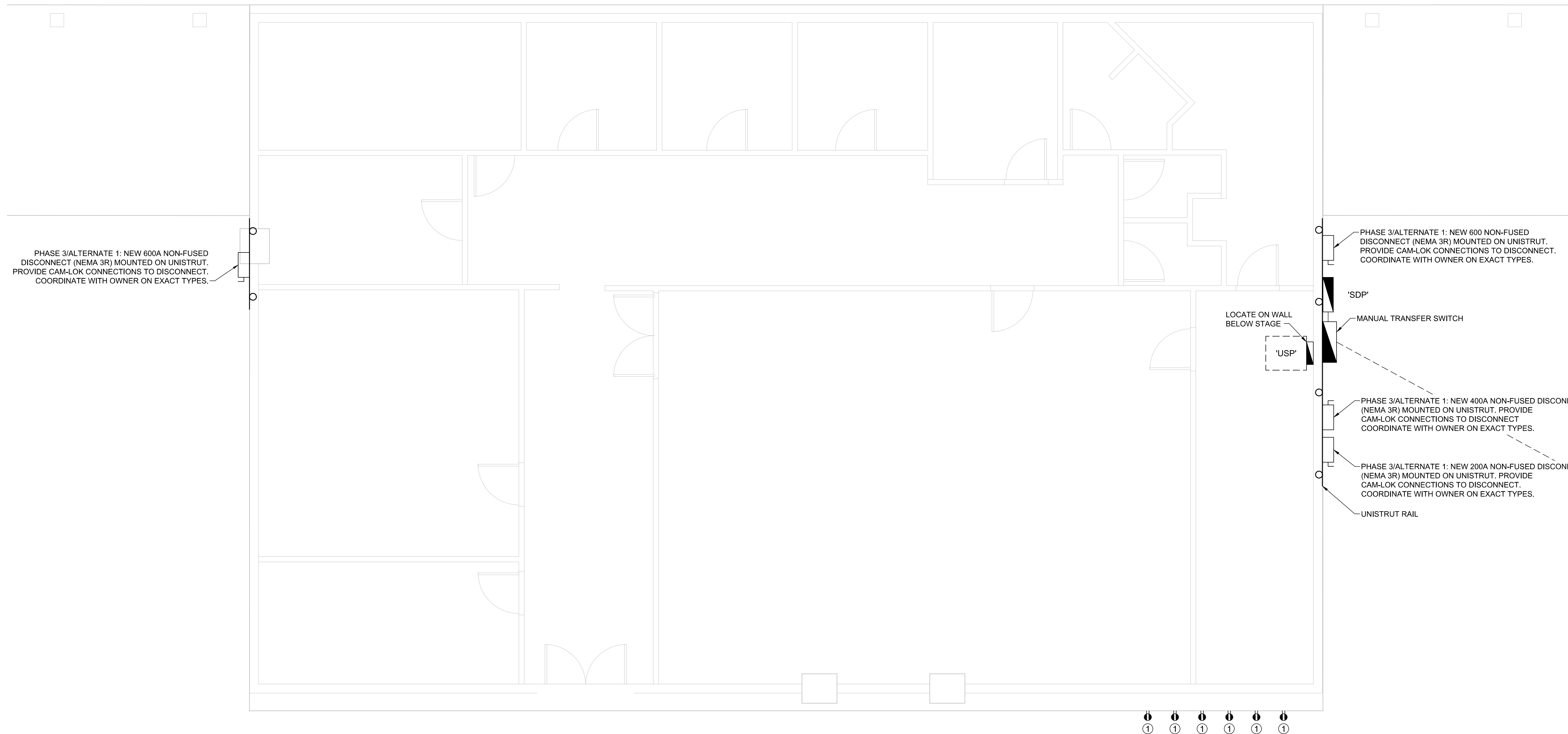
	CIRCUIT WIRING		DATA / PHONE JACK BOX WITH 1" CONDUIT & PULL STRING UP TO CEILING SPACE (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
	CIRCUIT TAG		WIRELESS ACCESS POINT, CEILING MOUNTED
	JUNCTION BOX		FLOOR RECEPTACLE
	RECEPTACLE		FLOOR DATA
	INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)		DISCONNECT
	"WP" = WEATHERPROOF OUTDOOR RECEPTACLE		FUSED DISCONNECT
	"AW" = ABOVE WINDOW RECEPTACLE		FUSED SWITCH
	"AC" = ABOVE CEILING RECEPTACLE		STARTER / DISCONNECT
	"EX" = EXISTING RECEPTACLE TO REMAIN		TIE INTO EXISTING
	GFCI DUPLEX CONVENIENCE RECEPTACLE		
	208V RECEPTACLE		
	QUADPLEX CONVENIENCE RECEPTACLE		
	USB OUTLET		
	WITH USB-A & USB-C CHARGING PORT		

POWER PLAN GENERAL NOTES:

- SEE SHEETS E-501, E-502, E-601 & E-602 FOR ELECTRICAL NOTES, DETAILS, & SCHEDULES.
- ALL EQUIPMENT LABELED "EX" OR "EXISTING" SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

POWER PLAN KEY NOTES:

- PHASE 3/ALTERNATE 1: 50A BUS PLUG MOUNTED TO BACK OF STAGE PLATFORM.



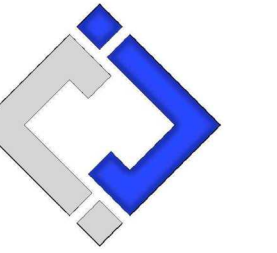
STAGE POWER PLAN
SCALE: 1/4" = 1'-0"



Keaton E. Leisinger, P.E.
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PROJECT # T2304-01
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REVISION: _____
DATE: _____

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REVISION: _____
DATE: _____

ISSUE DATE: 11/29/2023

BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM _____
CHECKED BY: JAP _____
DESIGNED BY: KEL _____

SHEET TITLE:

ENLARGED STAGE
POWER PLAN
(PHASE 3 ALT. 1)

SHEET NUMBER:

E-103

SHEET 22 OF 30
11/29/2023

LIGHTING PLAN SYMBOL LEGEND

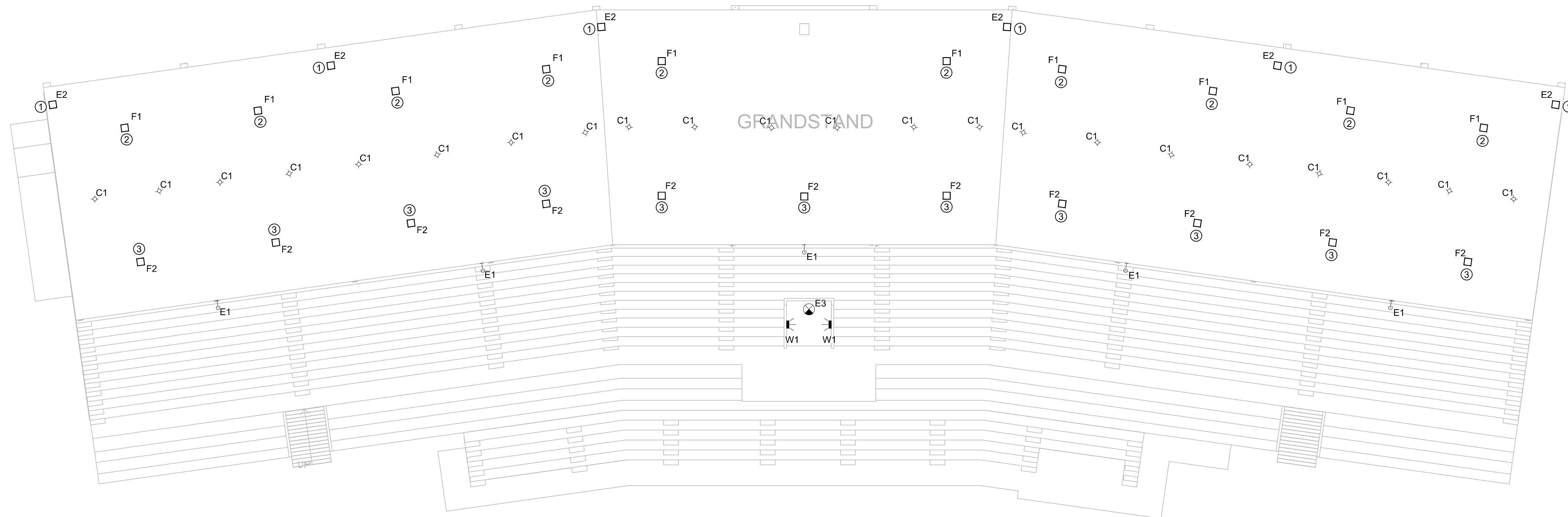
- X1 ← "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- ← LIGHTING FIXTURE
- EM ← "EM" INDICATES EMERGENCY BATTERY BACKUP
- NL ← "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- ⊙ ← EXIT LIGHT
- ⊙ ← INDICATES REQUIRED REMOTE HEAD
- ⊙ ← EMERGENCY EGRESS LIGHT
- ⊙ ← SWITCH (WALL MOUNTED)
 - SWITCH TYPE:
 - 3 = 3-WAY
 - 4 = 4-WAY
 - OP = PASSIVE INFRARED OCCUPANCY SENSOR
 - OU = ULTRASONIC OCCUPANCY SENSOR
 - OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
 - VP = PASSIVE INFRARED VACANCY SENSOR
 - VU = ULTRASONIC VACANCY SENSOR
 - VT = DUAL-TECHNOLOGY VACANCY SENSOR
 - M = MOMENTARY SWITCH
 - SS = SCENE SWITCH
- ⊙ ← DIMMER SWITCH (WALL MOUNTED)
 - SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- ⊙ ← SWITCH (CEILING MOUNTED)
 - SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS

LIGHTING PLAN GENERAL NOTES:

1. SEE SHEETS E-501, E-502, E-601 & E-602 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. ALL NEW LIGHT FIXTURES ARE ONE FOR ONE REPLACEMENTS. RECONNECT TO EXISTING CIRCUIT.
3. EXISTING GRANDSTAND LIGHTING CIRCUITS TO BE CONTROLLED BY NEW LIGHTING CONTACTOR IN UTILITY ROOM. SEE LIGHTING CONTROL DETAILS FOR MORE INFORMATION.

LIGHTING PLAN KEY NOTES:

- ① AIM FIXTURE TOWARD GRANDSTAND EXIT WALKWAYS.
- ② AIM FIXTURE UPWARD TOWARD GRANDSTAND CANOPY.
- ③ AIM FIXTURE TOWARD UNCOVERED GRANDSTAND SEATING AREA.



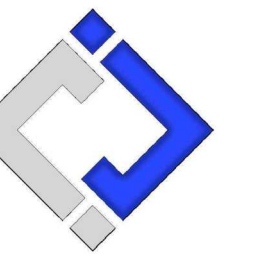
GRANDSTAND SEATING LIGHTING PLAN (PHASE 1)
SCALE: 1/16" = 1'-0"



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DATE: _____

ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:
GRANDSTAND
SEATING
LIGHTING PLAN
(PHASE 1)

SHEET NUMBER:

E-104

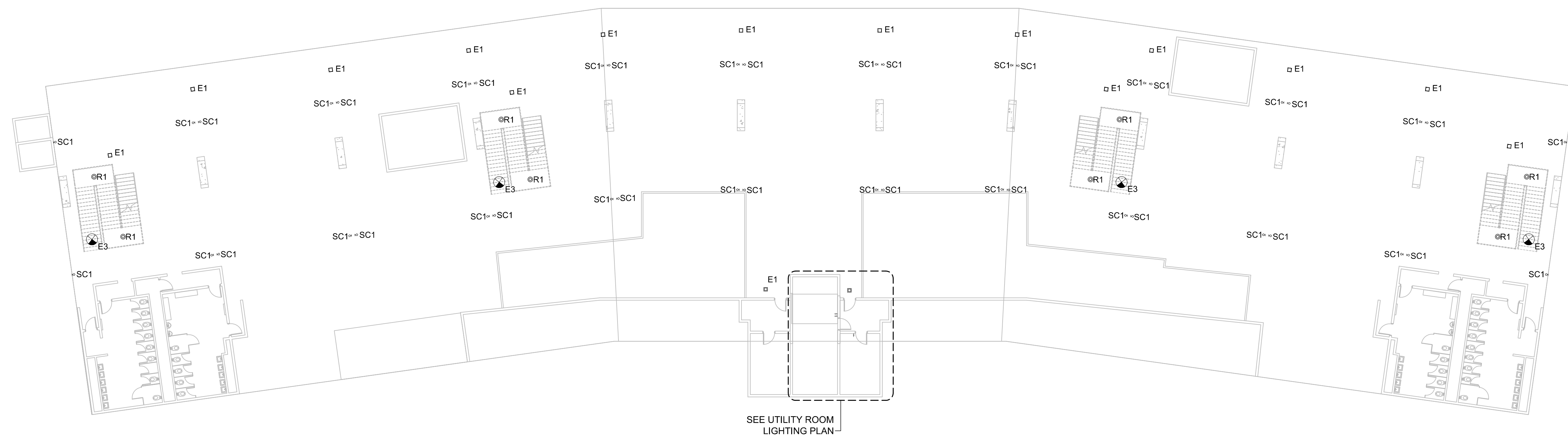
SHEET 23 OF 30
11/29/2023

LIGHTING PLAN SYMBOL LEGEND

- X1 ← "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- ← LIGHTING FIXTURE
- EM ← "EM" INDICATES EMERGENCY BATTERY BACKUP
- NL ← "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SWITCH (WALL MOUNTED)
 - SWITCH TYPE:
 - 3 = 3-WAY
 - 4 = 4-WAY
 - OP = PASSIVE INFRARED OCCUPANCY SENSOR
 - OU = ULTRASONIC OCCUPANCY SENSOR
 - OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
 - VP = PASSIVE INFRARED VACANCY SENSOR
 - VU = ULTRASONIC VACANCY SENSOR
 - VT = DUAL-TECHNOLOGY VACANCY SENSOR
 - M = MOMENTARY SWITCH
 - SS = SCENE SWITCH
- DIMMER SWITCH (WALL MOUNTED)
 - SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- SWITCH (CEILING MOUNTED)
 - SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS

LIGHTING PLAN GENERAL NOTES:

1. SEE SHEETS E-501, E-502, E-601 & E-602 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. ALL NEW LIGHT FIXTURES ARE ONE FOR ONE REPLACEMENTS. RECONNECT TO EXISTING CIRCUIT.
3. EXISTING GRANDSTAND LIGHTING CIRCUITS TO BE CONTROLLED BY NEW LIGHTING CONTACTOR IN UTILITY ROOM.



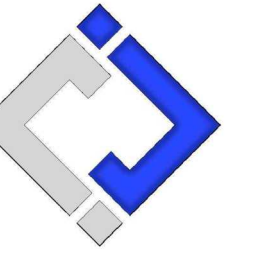
BELOW GRANDSTAND LIGHTING PLAN (PHASE 1)
SCALE: 1/16" = 1'-0"



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ASSET # 3511501018

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DATE: _____

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:
**BELOW
GRANDSTAND
LIGHTING PLAN
(PHASE 1)**

SHEET NUMBER:

E-105

SHEET 24 OF 30
11/29/2023

LIGHTING PLAN SYMBOL LEGEND

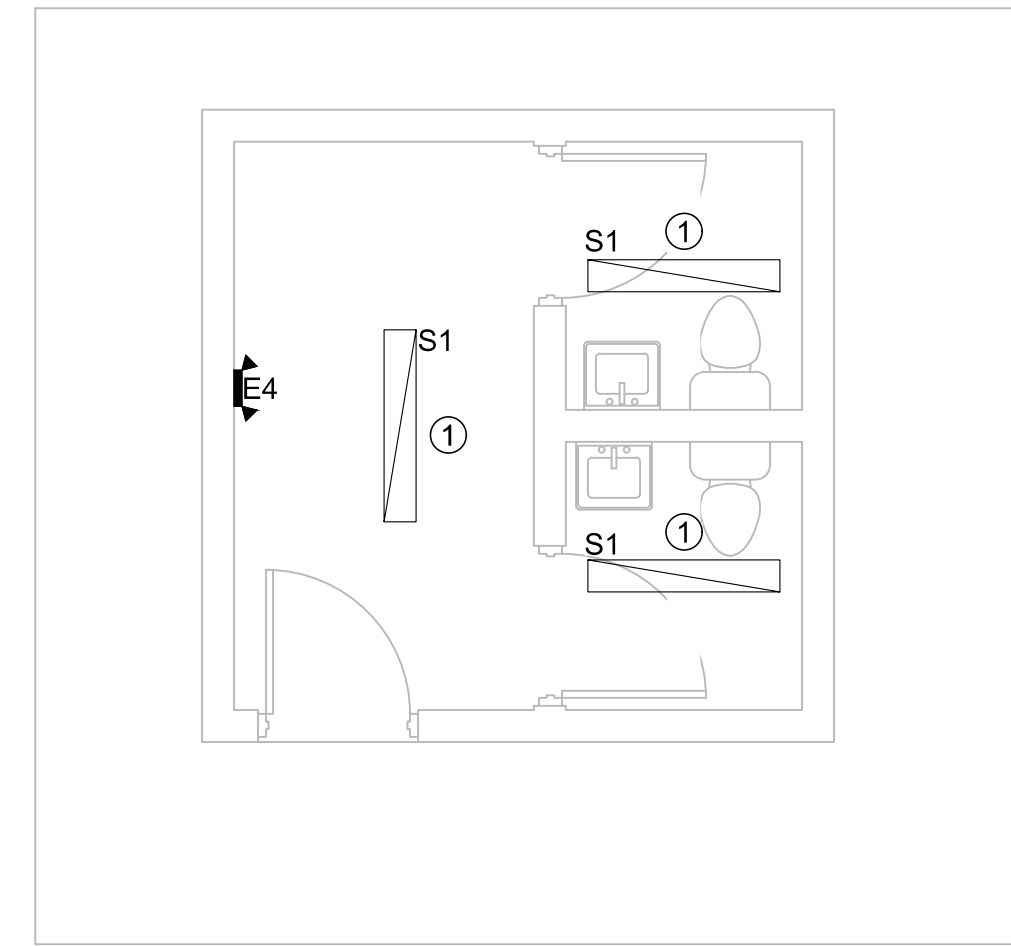
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- EM ← "EM" INDICATES EMERGENCY BATTERY BACKUP
- NL ← "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SWITCH (WALL MOUNTED)
 - SWITCH TYPE:
 - 3 = 3-WAY
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 - OU = ULTRASONIC OCCUPANCY SENSOR
 - OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
 - VP = PASSIVE INFRARED VACANCY SENSOR
 - VU = ULTRASONIC VACANCY SENSOR
 - VT = DUAL-TECHNOLOGY VACANCY SENSOR
 - M = MOMENTARY SWITCH
 - SS = SCENE SWITCH
- DIMMER SWITCH (WALL MOUNTED)
 - SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- SWITCH (CEILING MOUNTED)
 - SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS

LIGHTING PLAN GENERAL NOTES:

1. SEE SHEETS E-501, E-502, E-601 & E-602 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.

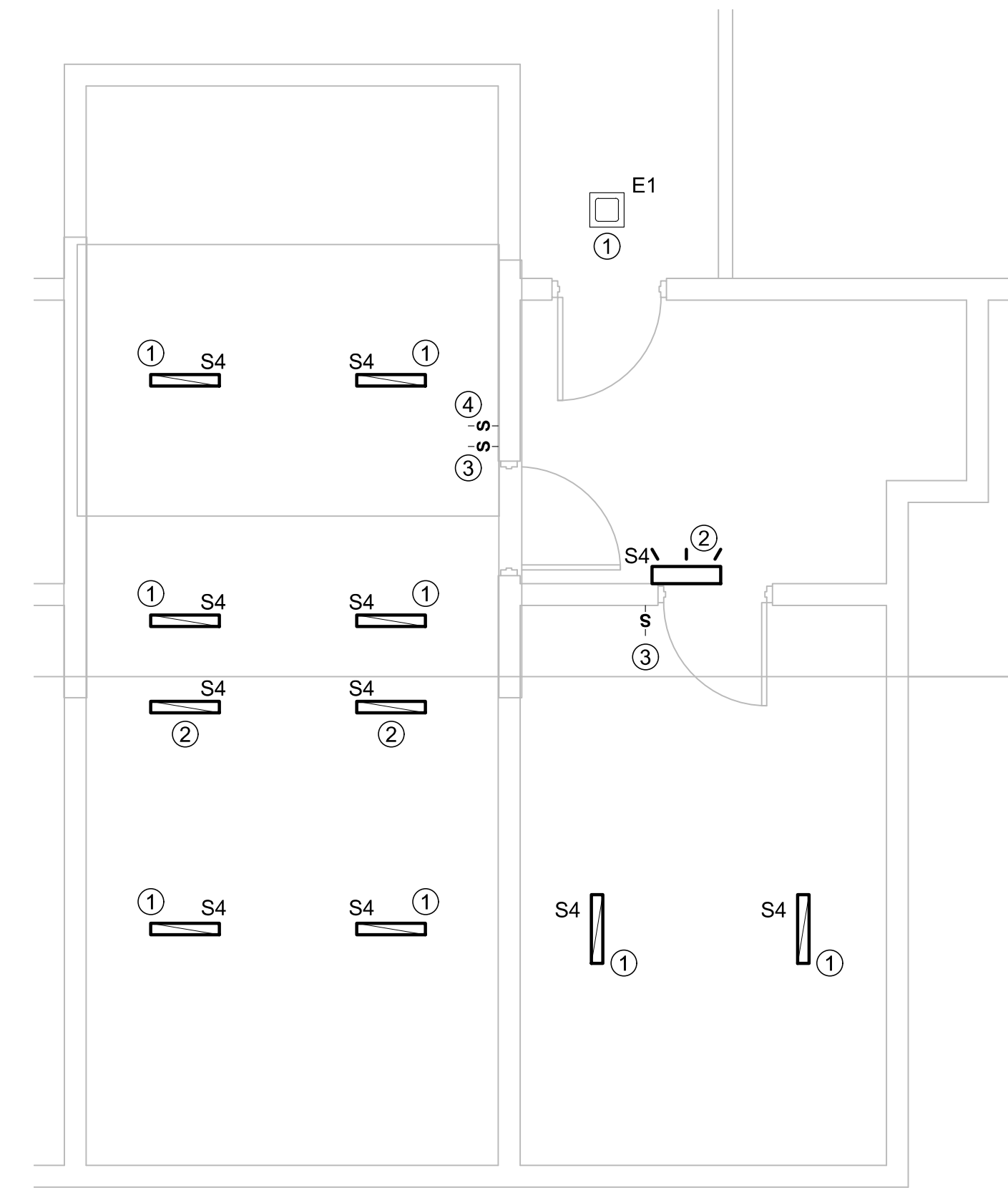
LIGHTING PLAN KEY NOTES:

- ① TIE INTO EXISTING LIGHTING CIRCUIT.
- ② TIE INTO EXISTING EMERGENCY LIGHTING CIRCUIT.
- ③ EXISTING ROOM LIGHT SWITCH TO REMAIN.
- ④ PHASE 2: EXISTING CONTACTOR CONTROL SWITCH TO BE RELOCATED. SEE UTILITY ROOM DETAIL FOR MORE INFORMATION.



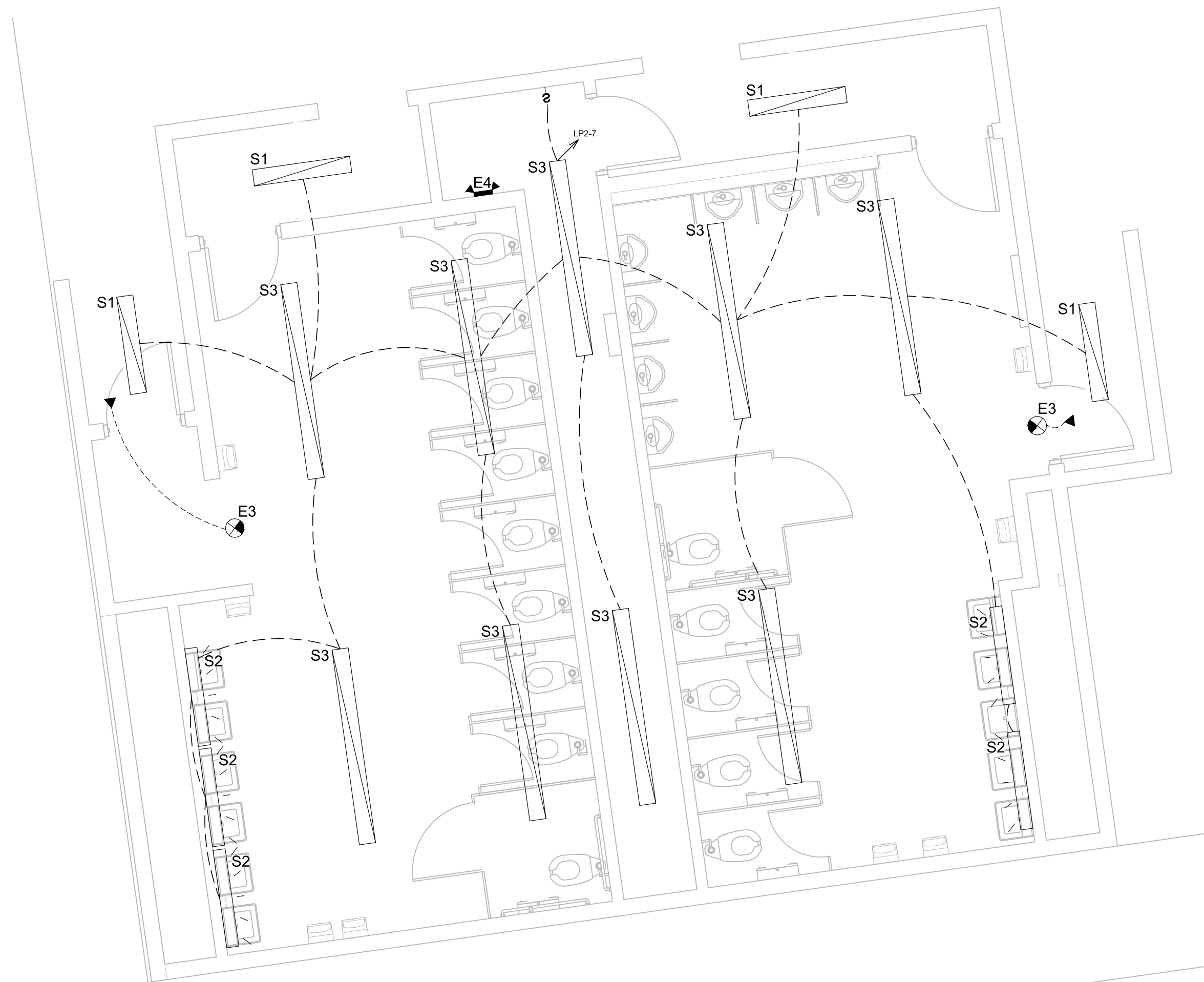
FLAG TOWER LIGHTING PLAN

SCALE: 1/4" = 1'-0"



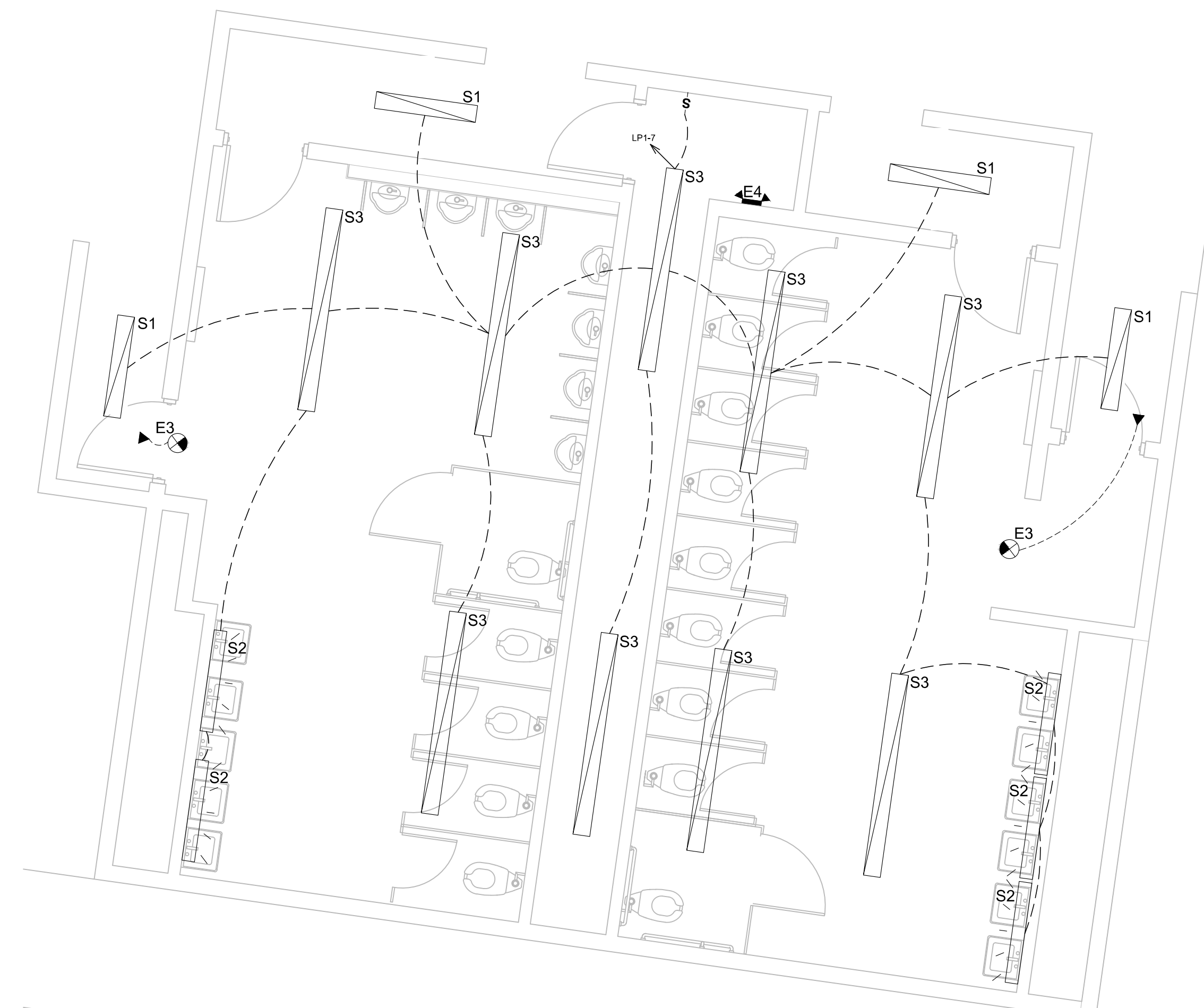
UTILITY ROOM LIGHTING PLAN

SCALE: 1/4" = 1'-0"



SOUTH BATHROOMS LIGHTING PLAN

SCALE: 1/4" = 1'-0"



NORTH BATHROOMS LIGHTING PLAN

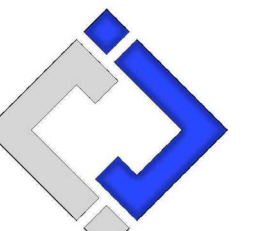
SCALE: 1/4" = 1'-0"



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PROJECT # T2304-01
SITE # 1501
ASSET # 3511501018

REVISION: _____
DATE: _____

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DATE: _____

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DATE: _____

ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

ENLARGED
LIGHTING PLANS
(PHASE 1)

SHEET NUMBER:

E-106

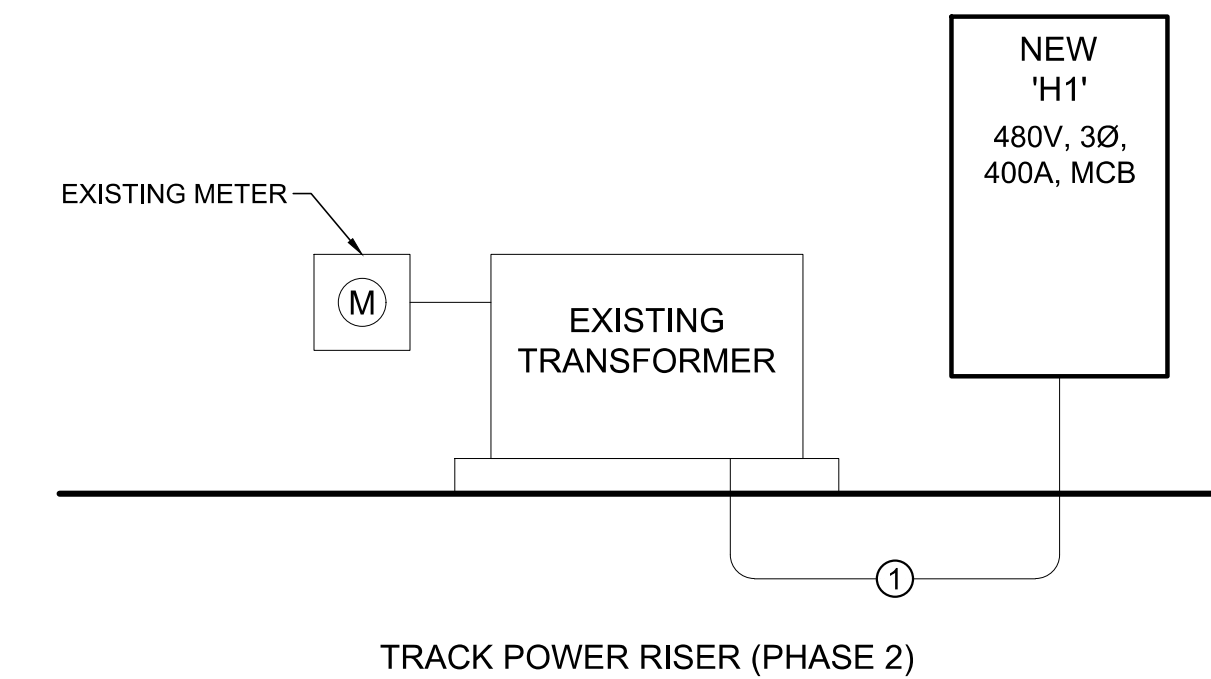
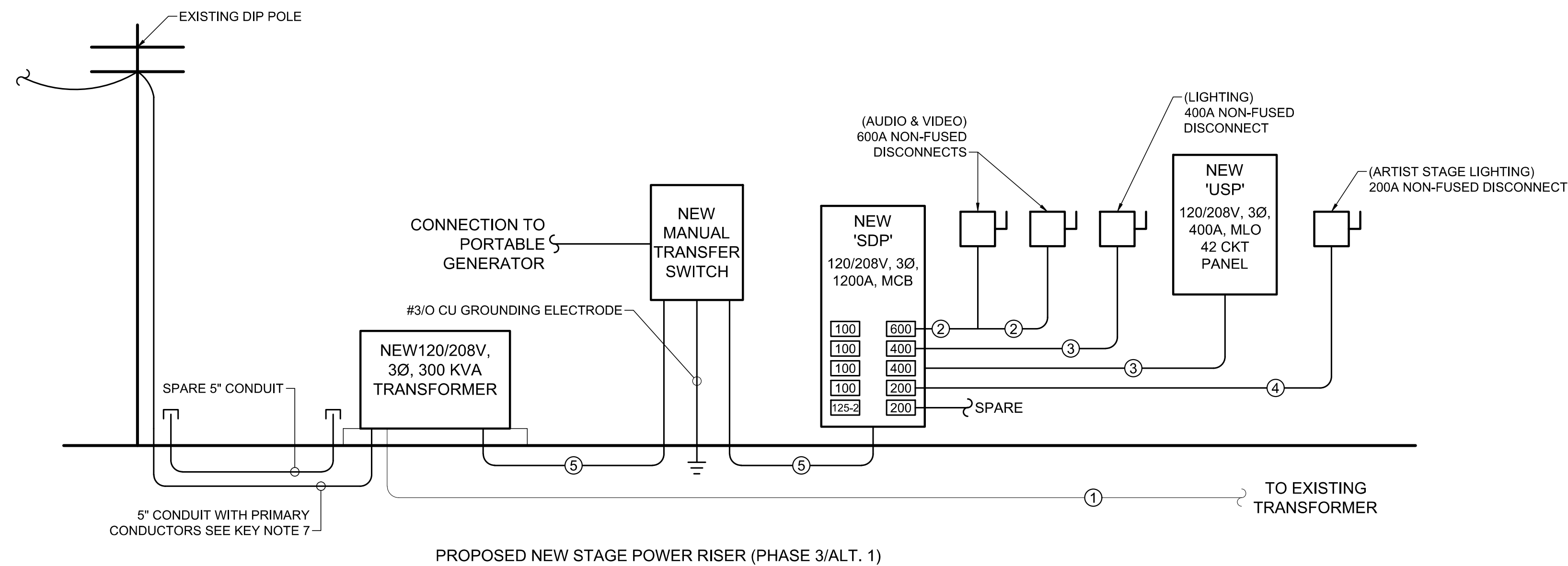
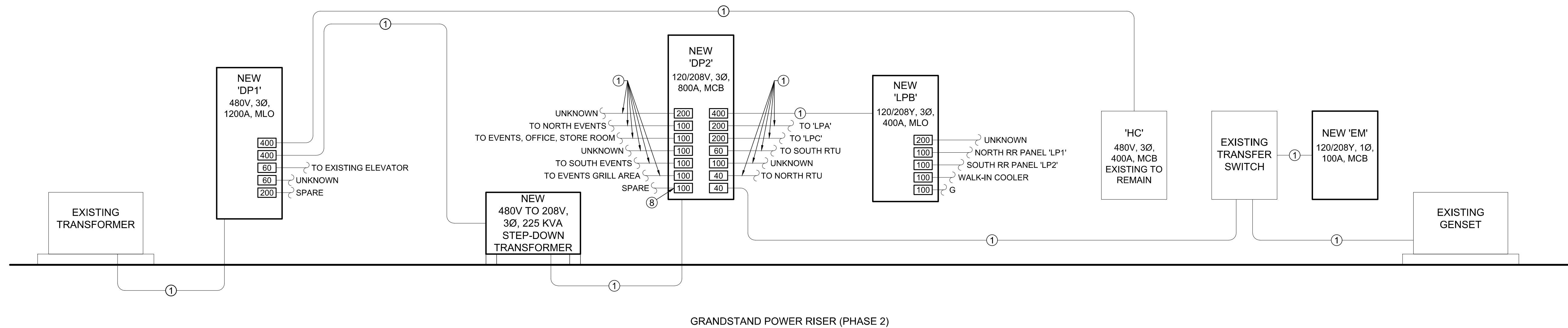
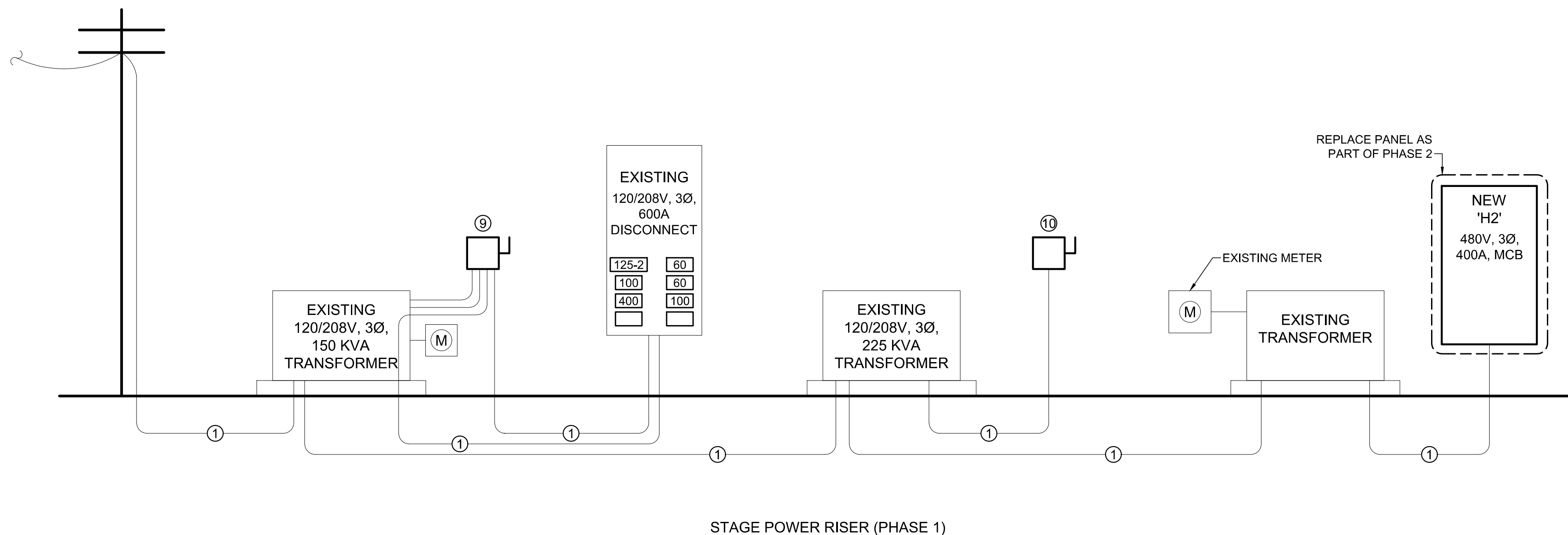
SHEET 25 OF 30
11/29/2023

POWER RISER GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ANY CONDUIT & CONDUCTOR MODIFICATIONS & EXTENSIONS NECESSARY FOR A FULLY FUNCTIONAL ELECTRIC SYSTEM.
2. CONTRACTOR SHALL INCLUDE IN BID 1,000 FT OF #12 THHN, #10 THHN, AND #8 THHN.
3. CONTRACTOR SHALL ALSO INCLUDE IN BID 100 FT OF ¾" AND 1" CONDUIT.
4. CONTRACTOR SHALL PROVIDE UNIT PRICE PER FOOT FOR #12 THHN, #10 THHN, AND #8 THHN IN ¾" OR 1" CONDUIT.

POWER RISER KEY NOTES:

1. EXISTING CONDUIT & CONDUCTORS TO REMAIN.
2. (2) 4" CONDUITS, EACH WITH (4) #350 CU & (1) #1 CU GRD.
3. 4" CONDUITS WITH (4) #500 CU & (1) #3 CU GRD.
4. 2 ½" CONDUITS WITH (4) #3/0 CU & (1) #6 CU GRD.
5. (4) 4" CONDUITS WITH (4) #350 CU & (1) #3/0 CU GRD.
6. (2) 4" CONDUITS WITH (4) #500 CU & (1) #2/0 CU GRD.
7. PRIMARY CONDUCTORS SHALL MEET THE FOLLOWING SPECIFICATIONS. 3/0 URD CABLE, CLASS B STRAND, WITH A WATER BLOCKING STRAND FILLER TO SEAL AND FILL THE SPACE BETWEEN THE STRANDS, TO HAVE AN EXTENDED THERMO SETTING SEMI CONDUCTING CONDUCTOR SHIELD WHICH IS FREE STRIPPING FROM THE CONDUCTOR AND BONDED TO THE INSULATION, 220 MIL TREE RETARDANT UCC4202 OR BOREALIS 4212 INSULATION, EXTRUDED THERMOSETTING SEMI CONDUCTING INSULATION WITH CONTROLLED ADHESION TO THE INSULATION HAVING A REDUCED CONCENTRIC NEUTRAL OF 11-14AWG. BARE COPPER NEUTRAL WIRES & OVERALL ENCAPSULATING JACKET OF LINEAR LOW DENSITY POLYETHYLENE EXTRUDED TO FILL IN THE SPACE BETWEEN NEUTRAL WIRES. JACKET MUST BE FREE STRIPPING FROM THE UNDERLYING INSULATION SHIELD. CABLE TO BE TANDEM EXTRUDED & DRY CURED. CABLE TO BE CONSTRUCTED PER ICEA S-94-649, ICEA S-97-682 AND AEC CS8.
8. FORMERLY POWER FOR HANGING ANNOUNCER BOOTH PANEL.
9. REPLACE EXISTING DISCONNECT WITH NEW 600A, 120/208Y, 3Ø, NEMA 3R, DOUBLE THROW DISCONNECT FOR STAND BY GENERATOR CONNECTION.
10. REPLACE EXISTING DISCONNECT WITH NEW 800A, 120/208Y, 3Ø, NEMA 3R, DOUBLE THROW DISCONNECT FOR STANDBY GENERATOR CONNECTION.



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BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

ELECTRICAL
DETAILS

SHEET NUMBER:

E-501

SHEET 26 OF 30
11/29/2023



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BID DOCUMENTS

CAD DWG FILE:
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

**ELECTRICAL
DETAILS**

SHEET NUMBER:

E-502

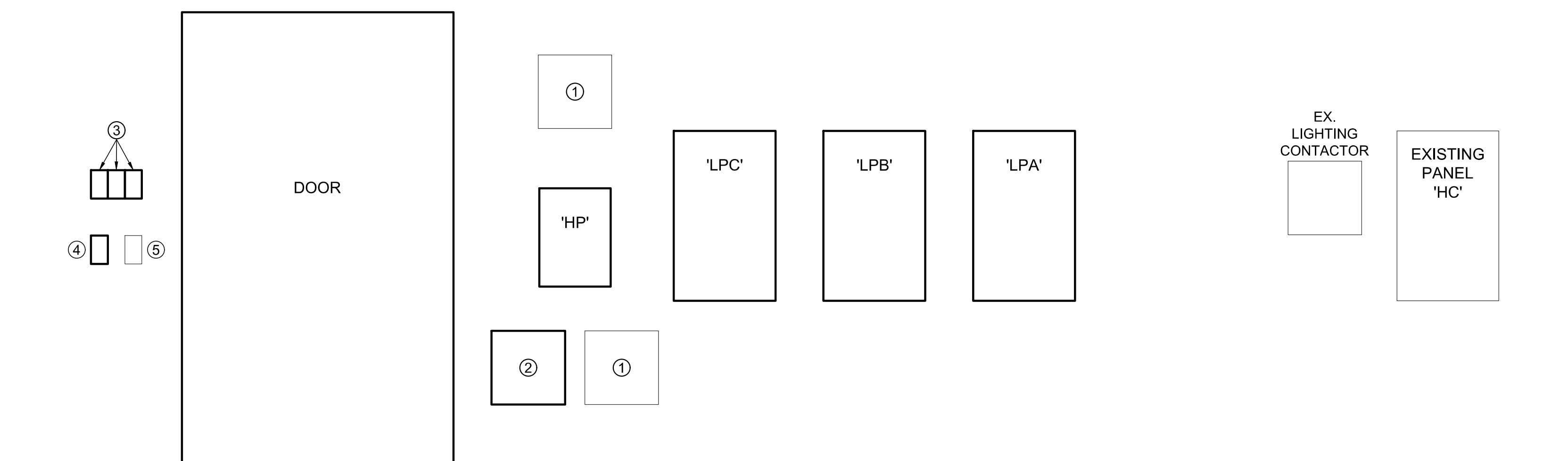
SHEET 27 OF 30
11/29/2023

LIGHT FIXTURE SCHEDULE											
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES	
C1	LUMARK	RPGC25S-POSITION 0	EXTERIOR LED AREA LIGHT	SURFACE	7800	4000	70	120	63	1	
E1	LUMARK	NFFLD-S-C15-UNV-66-KNC-CB	LED FLOODLIGHT	KNUCKLE MOUNT	5700	4000	70	120	51	1	
E2	LUMARK	NFFLD-S-C15-UNV-66-KNC-WH	LED FLOODLIGHT	KNUCKLE MOUNT	5700	4000	70	120	51	1	
E3	MULE	CWL-1-R-WH WITH R-ASRLED-2-WP	EXTERIOR EXIT LIGHT WITH HEADS WITH EXTERIOR REMOTE HEAD	WALL / CEILING	-	-	-	UNV	5	1,2	
E4	RPLIGHTING	REL20	EXTERIOR EGRESS LIGHT	WALL	-	-	-	UNV	1	1	
F1	LUMARK	NFFLD-S-C15-UNV-66-KNC-WH	LED FLOODLIGHT	KNUCKLE MOUNT	5700	4000	70	120	51	1	
F2	LUMARK	NFFLD-S-C15-UNV-66-T-WH	LED FLOODLIGHT	SEE NOTES	5700	4000	70	120	51	1,3	
R1	LUMARK	RPGC25S-POSITION 1	EXTERIOR LED AREA LIGHT	SURFACE	7800	4000	70	120	50	1	
S1	FAIL-SAFE	4APVTL-D-SL3C3	4' VAPOR TIGHT LED STRIP	SURFACE	5900	3500	80	120	46	1	
S2	FAIL-SAFE	4APVTL-D-SL3C3	4' VAPOR TIGHT LED STRIP	WALL ABOVE MIRROR	5900	3500	80	120	46	1	
S3	FAIL-SAFE	8APVTL-D-SL3C3	8' VAPOR TIGHT LED STRIP	SURFACE	8700	3500	80	120	60	1	
S4	METALUX	2SNX-SL3-UNV-L835-CD1-U	2' LED STRIP LIGHT	SURFACE	2000	3500	80	120	14	1,4	
SC1	HALO	CTKR2B-SR-CARETAKER	EXTERIOR LED AREA LIGHT	SURFACE	7000	4000	70	120	50	1	
W1	LUMARK	XTOR1B-W	EXTERIOR LED WALL PACK	WALL	1400	4000	70	120	12	1	

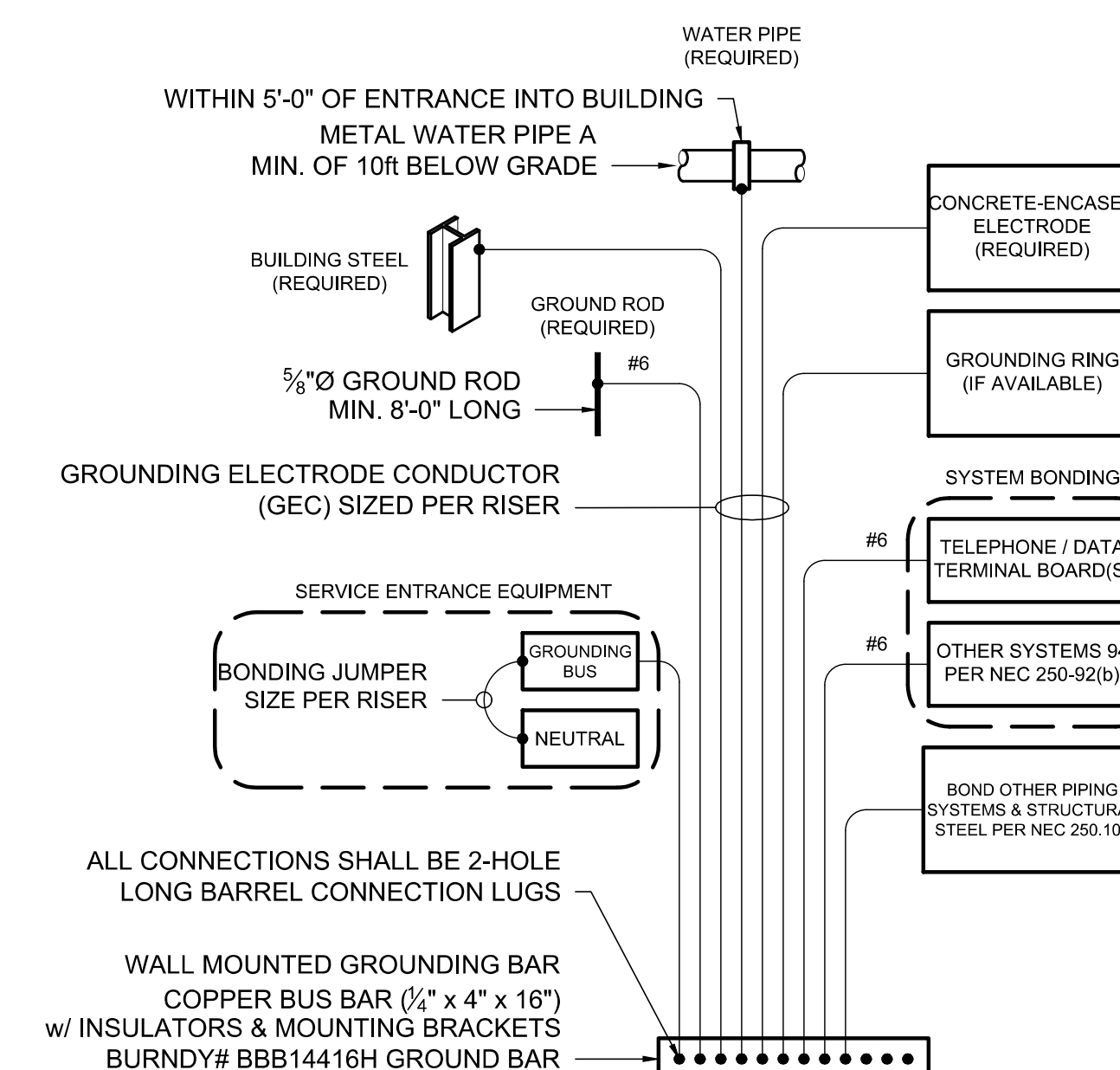
NOTES:
 1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION
 2. WITH RED LETTERS
 3. CONTRACTOR TO PROVIDE CUSTOM FABRICATED BOX WITH F2 FIXTURE MOUNTED ON IT. SEE FIXTURE F2 DETAIL.
 4. SELECTABLE LIGHT FIXTURE. CONTRACTOR TO SET FIXTURE TO VALUES REFLECTED ON THE LIGHTING SCHEDULE.

UTILITY ROOM NORTH WALL ELEVATION KEY NOTES:

- ① RELOCATED EXISTING LIGHTING CONTACTOR
- ② NEW LIGHTING CONTACTOR TO CONTROL CIRCUITS LPC-9, LPC-11, LPC-13.
- ③ NEW OR RELOCATED LIGHTING CONTACTOR CONTROL SWITCHES. PERMANENTLY LABEL SWITCH WITH AREA WHERE LIGHTS ARE LOCATED.
- ④ RELOCATED EMERGENCY LIGHT SWITCH.
- ⑤ EXISTING UTILITY ROOM LIGHT SWITCH.



UTILITY ROOM NORTH WALL ELEVATION



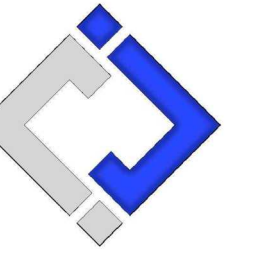
TYPICAL GROUNDING & BONDING DETAIL



Keaton E. Leisinger, P.E.
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT DESIGN AND
CONSTRUCTION

UPGRADE ELECTRICAL AND
RESTROOMS, GRANDSTAND

MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST.
SEDALIA, MO 65301

PROJECT # T2304-01
SITE # 1501
ASSET # 3511501018

REVISION:
DATE:

REVISION:
DATE:

REVISION:
DATE:

ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE:
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

ELECTRICAL
SCHEDULES

SHEET NUMBER:

E-601

SHEET 28 OF 30
11/29/2023

PANEL 'FTP' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/208		100A MLO		SURFACE		10,000		PHASE "A" LOAD	0
NEMA RATING: 3R								PHASE "B" LOAD	0
								PHASE "C" LOAD	0
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	FIRST FLOOR / RECEP	20-1		A		30-1	RACE TRACK SIGNAL LIGHTS	2	
3	FIRST FLOOR / RECEP	20-1		B		20-1	RESTROOM LIGHTS	4	
5	FIRST & SECOND FLOOR / LIGHTS	20-1		C		30-1	ICE MACHINE	6	
7	SECOND FLOOR / RECEP	20-1		A		30-1	30 AMP PLUG	8	
9	SECOND FLOOR / RECEP	20-1		B		30-1	LIGHT NORTH SIDE ALLEYWAY	10	
11	FLAG LIGHT	20-1		C		30-1	OUTSIDE RECEP UNDER STEPS	12	
13	VIDEO	70-2		A		30-2	SEWER PUMP	14	
15	-	-		B		-	-	16	
17	SPARE	20-1		C		20-1	SPARE	18	
19	SPARE	20-1		A		20-1	SPARE	20	
21	SPARE	20-1		B		20-1	SPARE	22	
23	SPARE	20-1		C		20-1	SPARE	24	
25	SPARE	20-1		A		20-1	SPARE	26	
27	SPARE	20-1		B		20-1	SPARE	28	
29	SPARE	20-1		C		20-1	SPARE	30	

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "OO". ITALICS INDICATE EXISTING CIRCUIT TO BE RECONNECTED TO NEW PANEL.
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

PANEL 'EM' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/208		100A MCB		SURFACE		10,000		PHASE "A" LOAD	0
NEMA RATING: 3R								PHASE "B" LOAD	0
								PHASE "C" LOAD	0
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	UNKNOWN	20-1		A		20-1	UNKNOWN	2	
3	UNKNOWN	20-1		B		20-1	UNKNOWN	4	
5	UNKNOWN	20-1		C		20-1	UNKNOWN	6	
7	UNKNOWN	20-1		A		20-1	UNKNOWN	8	
9	UNKNOWN	20-1		B		20-1	UNKNOWN	10	
11	UNKNOWN	20-1		C		20-1	UNKNOWN	12	
13	UNKNOWN	20-1		A		20-1	UNKNOWN	14	
15	UNKNOWN	20-1		B		20-1	PNC RM LIGHTS	16	
17	UNKNOWN	20-1		C		20-1	UNKNOWN	18	

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "OO". ITALICS INDICATE EXISTING CIRCUIT TO BE RECONNECTED TO NEW PANEL.
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

PANEL 'H1' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
277/480		400A MLO		SURFACE		14,000		PHASE "A" LOAD	120
NEMA RATING: 3R								PHASE "B" LOAD	120
								PHASE "C" LOAD	120
DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION			
EXISTING TRACK POLE LIGHTS	125-3	75	A	45	60-3	EXISTING TRACK POLE LIGHTS			
-	-	75	B	45	-	-			
-	-	75	C	45	-	-			
BLANK			A			BLANK			
BLANK			B			BLANK			
BLANK			C			BLANK			
BLANK			A			BLANK			
BLANK			B			BLANK			
BLANK			C			BLANK			

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SERIES FOR 208V / "NF" SERIES FOR 480V. ITALICS INDICATE EXISTING CIRCUIT TO BE RECONNECTED TO NEW PANEL.
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

PANEL 'H2' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
277/480		400A MLO		SURFACE		14,000		PHASE "A" LOAD	101
NEMA RATING: 3R								PHASE "B" LOAD	101
								PHASE "C" LOAD	101
DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION			
EXISTING TRACK POLE LIGHTS	125-3	71	A	30	50-3	EXISTING TRACK POLE LIGHTS			
-	-	71	B	30	-	-			
-	-	71	C	30	-	-			
BLANK			A			BLANK			
BLANK			B			BLANK			
BLANK			C			BLANK			
BLANK			A			BLANK			
BLANK			B			BLANK			
BLANK			C			BLANK			

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SERIES FOR 208V / "NF" SERIES FOR 480V. ITALICS INDICATE EXISTING CIRCUIT TO BE RECONNECTED TO NEW PANEL.
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

PANEL 'USP' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/208		400A MLO		SURFACE		10,000		PHASE "A" LOAD	200
NEMA RATING: 3R								PHASE "B" LOAD	200
								PHASE "C" LOAD	200
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	EXISTING WATER HEATER	30-2	20	A		30-2	UNKNOWN	2	
3	-	-	20	B		-	-	4	
5	EXISTING AIR CONDITIONER	30-2	20	C		20-1	UNKNOWN	6	
7	-	-	20	A		20-1	UNKNOWN	8	
9	EXISTING AIR CONDITIONER	30-2	20	B		20-1	UNKNOWN	10	
11	-	-	20	C		30-1	UNKNOWN	12	
13	LOUNGE AREA / LIGHTS & RECEP	20-1		A		20-1	UNKNOWN	14	
15	LOUNGE AREA / LIGHTS & RECEP	30-1		B		20-1	UNKNOWN	16	
17	UTILITY ROOM / LIGHTS & RECEP	20-1		C		30-1	UNKNOWN	18	
19	KITCHEN / RECEP	20-1		A		20-1	PUMP NORTH EAST	20	
21	EAST WALL / RECEP	20-1		B		20-1	UNKNOWN	22	
23	KITCHEN / RECEP	20-1		C	40	50-2	BUS PLUG	24	
25	KITCHEN / RECEP	20-1		A	40	-	-	26	
27	UNKNOWN	20-2		B	40	50-2	BUS PLUG	28	
29	-	-		C	40	-	-	30	
31	BUS PLUG	50-2	40	A	40	50-2	BUS PLUG	32	
33	-	-	40	B	40	-	-	34	
35	SPARE	20-1		C	40	50-2	BUS PLUG	36	
37	SPARE	20-1		A	40	-	-	38	
39	SPARE	20-1		B	40	50-2	BUS PLUG	40	
41	SPARE	20-1		C	40	-	-	42	

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "OO". ITALICS INDICATE EXISTING CIRCUIT TO BE RECONNECTED TO NEW PANEL.
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PANEL 'LP1' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/208		100A MLO		SURFACE		10,000		PHASE "A" LOAD	22
NEMA RATING: 3R								PHASE "B" LOAD	14
								PHASE "C" LOAD	12.5
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	WOMENS / GFCI RECEP	20-1	3	A		100-2	NORTH COOLER	2	
3	MENS / GFCI RECEP	20-1	3	B		-	-	4	
5	MECH ROOM / RECEP	20-1	1.5	C		60-3	NORTH CENTRAL COOLER	6	
7	LIGHTING	20-1	8	A		-	-	8	
9	RESTROOM FAN	20-3	11	B		-	-	10	
11	-	-	11	C		20-1	SPARE	12	
13	-	-	11	A		20-1	SPARE	14	
15	SPARE	20-1		B		20-1	SPARE	16	
17	SPARE	20-1		C		20-1	SPARE	18	
19	SPARE	20-1		A		20-1	SPARE	20	
21	SPARE	20-1		B		20-1	SPARE	22	
23	SPARE	20-1		C		20-1	SPARE	24	

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "OO". ITALICS INDICATE EXISTING CIRCUIT TO BE RECONNECTED TO NEW PANEL.
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PANEL 'LP2' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/208		100A MLO		SURFACE		10,000		PHASE "A" LOAD	22
NEMA RATING: 3R								PHASE "B" LOAD	14
								PHASE "C" LOAD	12.5
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	WOMENS / GFCI RECEP	20-1	3	A		100-3	SOUTH WEST COOLER	2	
3	MENS / GFCI RECEP	20-1	3	B		-	-	4	
5	MECH ROOM / RECEP	20-1	1.5	C		60-2	COOLER	6	
7	LIGHTING	20-1	8	A		-	-	8	
9	RESTROOM FAN	20-3	11	B		20-1	SPARE	10	
11	-	-	11	C		20-1	SPARE	12	
13	-	-	11	A		20-1	SPARE	14	
15	SPARE	20-1		B		20-1	SPARE	16	
17	SPARE	20-1		C		20-1	SPARE	18	
19	SPARE	20-1		A		20-1	SPARE	20	
21	SPARE	20-1		B		20-1	SPARE	22	
23	SPARE	20-1		C		20-1	SPARE	24	

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "OO". ITALICS INDICATE EXISTING CIRCUIT TO BE RECONNECTED TO NEW PANEL.
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OFFICE OF ADMINISTRATION
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UPGRADE ELECTRICAL AND
RESTROOMS, GRANDSTAND

MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST.
SEDALIA, MO 65301

PROJECT # T2304-01
SITE # 1501
ASSET # 3511501018

REVISION: _____
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DATE: _____

ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

ELECTRICAL
SCHEDULES

SHEET NUMBER:

E-602

SHEET 29 OF 30
11/29/2023

MAIN DISTRIBUTION PANEL 'DP2' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING		PHASE	
120/208		800A MCB		SURFACE		22,000		PHASE "A" LOAD	
								0	
								PHASE "B" LOAD	
								0	
								PHASE "C" LOAD	
								0	
NEMA RATING: 3R		BREAKER SIZE		AMPS		PHASE		DESCRIPTION	
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	DESCRIPTION
	UNKNOWN CONNECTION	200-3		A		200-3	PANEL 'LPA'		
	-	-		B		-	-		
	-	-		C		-	-		
	NORTH CONCESSIONS PANEL	100-3		A		200-3	PANEL 'LPC'		
	-	-		B		-	-		
	-	-		C		-	-		
	NORTH CENTER CONCESSIONS PANEL	100-3		A		400-3	PANEL 'LPB'		
	-	-		B		-	-		
	-	-		C		-	-		
	PHOTO FINISH PANEL	100-3		A		100-3	UNKNOWN CONNECTION		
	-	-		B		-	-		
	-	-		C		-	-		
	SOUTH CONCESSIONS PANEL	100-3		A		60-3	SOUTH CONCESSION RTU		
	-	-		B		-	-		
	-	-		C		-	-		
	SOUTH CENTER CONCESSIONS	100-3		A		40-3	NORTH CONCESSION RTU		
	-	-		B		-	-		
	-	-		C		-	-		
	UNKNOWN CONNECTION	100-3		A		40-3	STARTER CONTROLLER CONNECTION		
	-	-		B		-	-		
	-	-		C		-	-		

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D "H-LINE" SERIES FOR 208V / "NF" SERIES FOR 480V. ITALIC'S INDICATE EXISTING CIRCUIT TO BE RECONNECTED TO NEW PANEL.
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

PANEL 'LPA' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING		PHASE	
120/208		200A MLO		SURFACE		22,000		PHASE "A" LOAD	
								7	
								PHASE "B" LOAD	
								7	
								PHASE "C" LOAD	
								7	
NEMA RATING: 3R		BREAKER SIZE		AMPS		PHASE		DESCRIPTION	
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	DESCRIPTION
1	UNKNOWN CONNECTION	20-1		A		20-1	UNKNOWN CONNECTION	2	
3	UNKNOWN CONNECTION	20-1		B		20-1	UNKNOWN CONNECTION	4	
5	SPARE	20-1		C		20-1	UNKNOWN CONNECTION	6	
7	SPARE	20-1		A		20-1	UNKNOWN CONNECTION	8	
9	SPARE	20-1		B		20-1	UNKNOWN CONNECTION	10	
11	SPARE	20-1		C		20-1	UNKNOWN CONNECTION	12	
13	SPARE	20-1		A		20-1	UNKNOWN CONNECTION	14	
15	SPARE	20-1		B		20-1	UNKNOWN CONNECTION	16	
17	SPARE	20-1		C	7	20-3	EXHAUST FAN (EF-2)	18	
19	SPARE	20-1		A	7	-	-	20	
21	SPARE	60-2		B	7	-	-	22	
23	-	-		C		20-1	SPARE	24	
25	UNKNOWN CONNECTION	50-1		A		50-1	SPARE	26	
27	UNKNOWN CONNECTION	50-1		B		100-2	SPARE	28	
29	UNKNOWN CONNECTION	50-1		C		-	-	30	
31	UNKNOWN CONNECTION	50-1		A		100-2	UNKNOWN CONNECTION	32	
33	UNKNOWN CONNECTION	50-1		B		-	-	34	
35	UNKNOWN CONNECTION	50-1		C		50-1	UNKNOWN CONNECTION	36	
37	UNKNOWN CONNECTION	50-1		A		50-1	UNKNOWN CONNECTION	38	
39	UNKNOWN CONNECTION	50-1		B		50-1	UNKNOWN CONNECTION	40	
41	BLANK			C		50-1	UNKNOWN CONNECTION	42	

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "OO". ITALIC'S INDICATE EXISTING CIRCUIT TO BE RECONNECTED TO NEW PANEL.
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PANEL 'LPC' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING		PHASE	
120/208		200A MLO		SURFACE		22,000		PHASE "A" LOAD	
								0	
								PHASE "B" LOAD	
								0	
								PHASE "C" LOAD	
								0	
NEMA RATING: 3R		BREAKER SIZE		AMPS		PHASE		DESCRIPTION	
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	DESCRIPTION
1	LIGHTING PANEL	100-2		A		20-1	ROW 1	2	
3	-	-		B		20-1	ROW 4	4	
5	CONTACTOR POWER	20-1		C		20-1	ROW 5	6	
7	HP SODIUM LIGHT	20-1		A		20-1	ROW 2	8	
9	CANOPY FLOOD LIGHTS	20-1		B		20-1	ROW 8	10	
11	CANOPY FLOOD LIGHTS	20-1		C		20-1	ROW 6	12	
13	CANOPY FLOOD LIGHTS	20-1		A		20-1	ROW 7	14	
15	FAN	20-1		B		20-1	ROW 3	16	
17	CONTROL ROOM LIGHTS	20-1		C		20-1	ROW 9	18	
19	SPARE	20-1		A		20-1	ROW 10	20	
21	SPARE	20-1		B		20-1	ROW 11	22	
23	SPARE	20-1		C		20-1	ROW 12	24	
25	SPARE	20-1		A		20-1	BOX LIGHT (OFF)	26	
27	SPARE	20-1		B		20-1	BOX LIGHT (OFF)	28	
29	SPARE	20-1		C		20-1	BOX LIGHT (OFF)	30	
31	SPARE	20-1		A		20-1	SPARE	32	
33	SPARE	20-1		B		20-1	BATTERY CHARGER	34	
35	ELEVATOR LIGHT	20-1		C		20-1	BLOCK HEATER	36	
37	SPARE	20-1		A		20-1	SPARE	38	
39	SPARE	20-1		B		20-1	SPARE	40	
41	SPARE	20-1		C		20-1	SPARE	42	

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "OO". ITALIC'S INDICATE EXISTING CIRCUIT TO BE RECONNECTED TO NEW PANEL.
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
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MAIN DISTRIBUTION PANEL 'DP1' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING		PHASE	
277/480		1200A MCB		SURFACE		14,000		PHASE "A" LOAD	
								0	
								PHASE "B" LOAD	
								0	
								PHASE "C" LOAD	
								0	
NEMA RATING: 3R		BREAKER SIZE		AMPS		PHASE		DESCRIPTION	
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	DESCRIPTION
	STEPDOWN TRANSFORMER TO PANEL 'DP2'	400-3		A		60-3	EXISTING ELEVATOR		
	-	-		B		-	-		
	-	-		C		-	-		
	STEPDOWN TRANSFORMER TO FUSED DISCONNECT	400-3		A		60-3	UNKNOWN CONNECTION		
	-	-		B		-	-		
	-	-		C		-	-		
	EXISTING PANEL 'HC'	400-3		A		200-3	SPARE		
	-	-		B		-	-		
	-	-		C		-	-		

NOTES:
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C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

MAIN DISTRIBUTION PANEL 'SDP' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING		PHASE	
120/208		1200A MCB		SURFACE		22,000		PHASE "A" LOAD	
								960	
								PHASE "B" LOAD	
								960	
								PHASE "C" LOAD	
								960	
NEMA RATING: 3R		BREAKER SIZE		AMPS		PHASE		DESCRIPTION	
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	DESCRIPTION
(2)	NON-FUSED DISCONNECTS (NORTH & SOUTH)	600-3	350	A	200	400-3	UNDER STAGE PANEL 'USP'		
	-	-	350	B	200	-	-		
	-	-	350	C	200	-	-		
	STAGE LIGHTING / NON-FUSED DISCONNECT	400-3	250	A		100-3	UNKNOWN CONNECTION		
	-	-	250	B		-	-		
	-	-	250	C		-	-		
	UNKNOWN CONNECTION	100-3		A		100-3	UNKNOWN CONNECTION		
	-	-		B		-	-		
	-	-		C		-	-		
	UNKNOWN CONNECTION	100-3		A	160	200-3	ARTIST STAGE LIGHTING DISCONNECT		
	-	-		B	160	-	-		
	-	-		C	160	-	-		
	UNKNOWN CONNECTION	125-2		A		200-3	SPARE		
	-	-		B		-	-		
	-	-		C		-	-		
	BLANK			C		-	-		

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D "H-LINE" SERIES FOR 208V / "NF" SERIES FOR 480V. ITALIC'S INDICATE EXISTING CIRCUIT TO BE RECONNECTED TO NEW PANEL.
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

PANEL 'LPB' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING		PHASE	
120/208		400A MLO		SURFACE		22,000		PHASE "A" LOAD	
								0	
								PHASE "B" LOAD	
								0	
								PHASE "C" LOAD	
								0	
NEMA RATING: 3R		BREAKER SIZE		AMPS		PHASE		DESCRIPTION	
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	DESCRIPTION
1	UNKNOWN	200-3		A		100-3	SOUTH RESTROOM (LP2)	2	

PLUMBING PLANS SYMBOL LEGEND

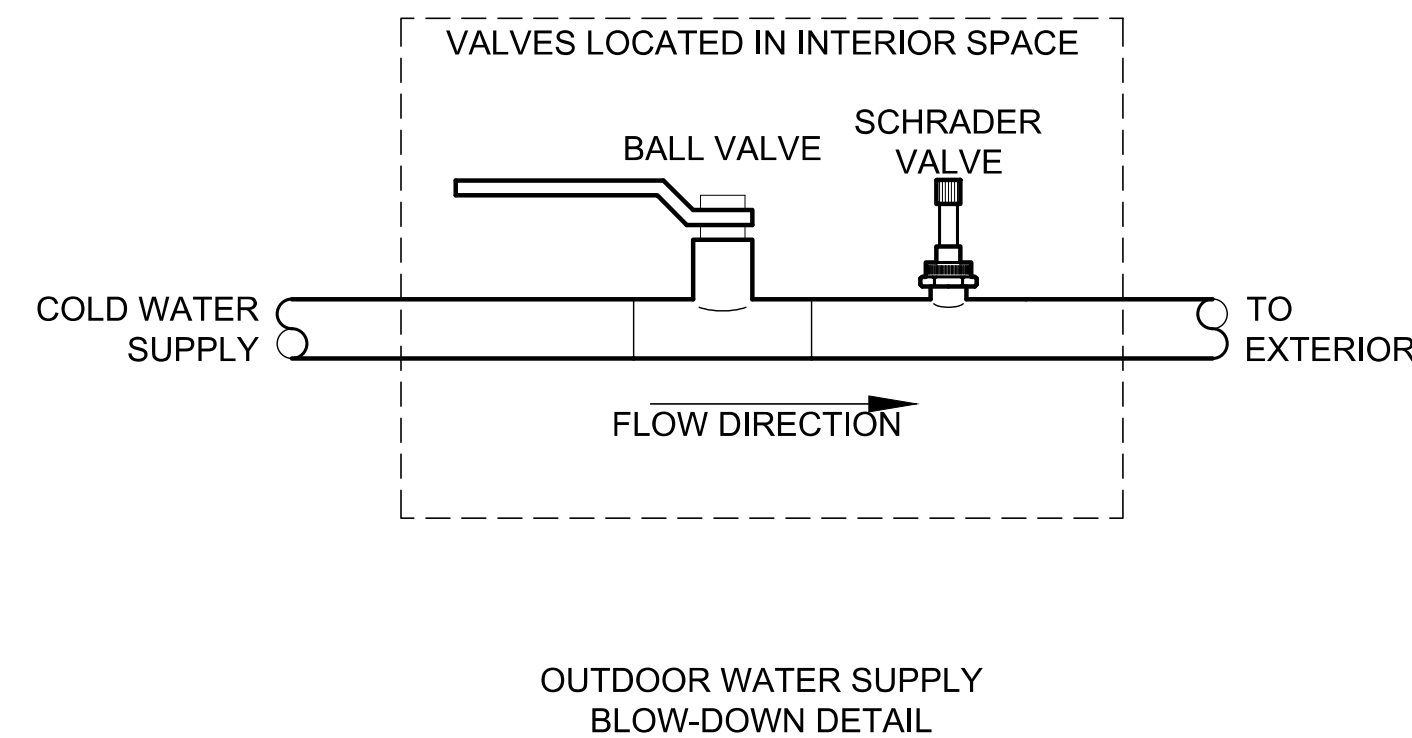
- SANITARY SEWER PIPING
- VENT PIPING
- COLD WATER PIPING
- o--- PIPING TURNED DOWN / TURNED UP
- ✕ TIE INTO EXISTING

PLUMBING PLAN GENERAL NOTES:

1. PLUMBING SYSTEM TO BE INSTALLED FOR WINTERIZATION. CONTRACTOR SHALL INSTALL LOW POINT DRAINS ON COLD WATER PIPING.
2. DOMESTIC WATER LINES SHALL BE SURFACE MOUNT & HELD TIGHT TO WALLS & ROOF.

PLUMBING PLAN KEY NOTES:

- ① RECONNECT NEW PLUMBING FIXTURE TO EXISTING CW, HW, & SANITARY CONNECTIONS.
- ② RECONNECT NEW VENT PIPING TO EXISTING VENT CONNECTION AT FLOOR.
- ③ PROVIDE NEW SANITARY CONNECTION INTO EXISTING SANITARY LINE IN PIPE CHASE.
- ④ PROVIDE BALL VALVE & SCHRADER VALVE FOR WINTERIZATION. SEE OUTDOOR WATER SUPPLY BLOW-DOWN DETAIL.

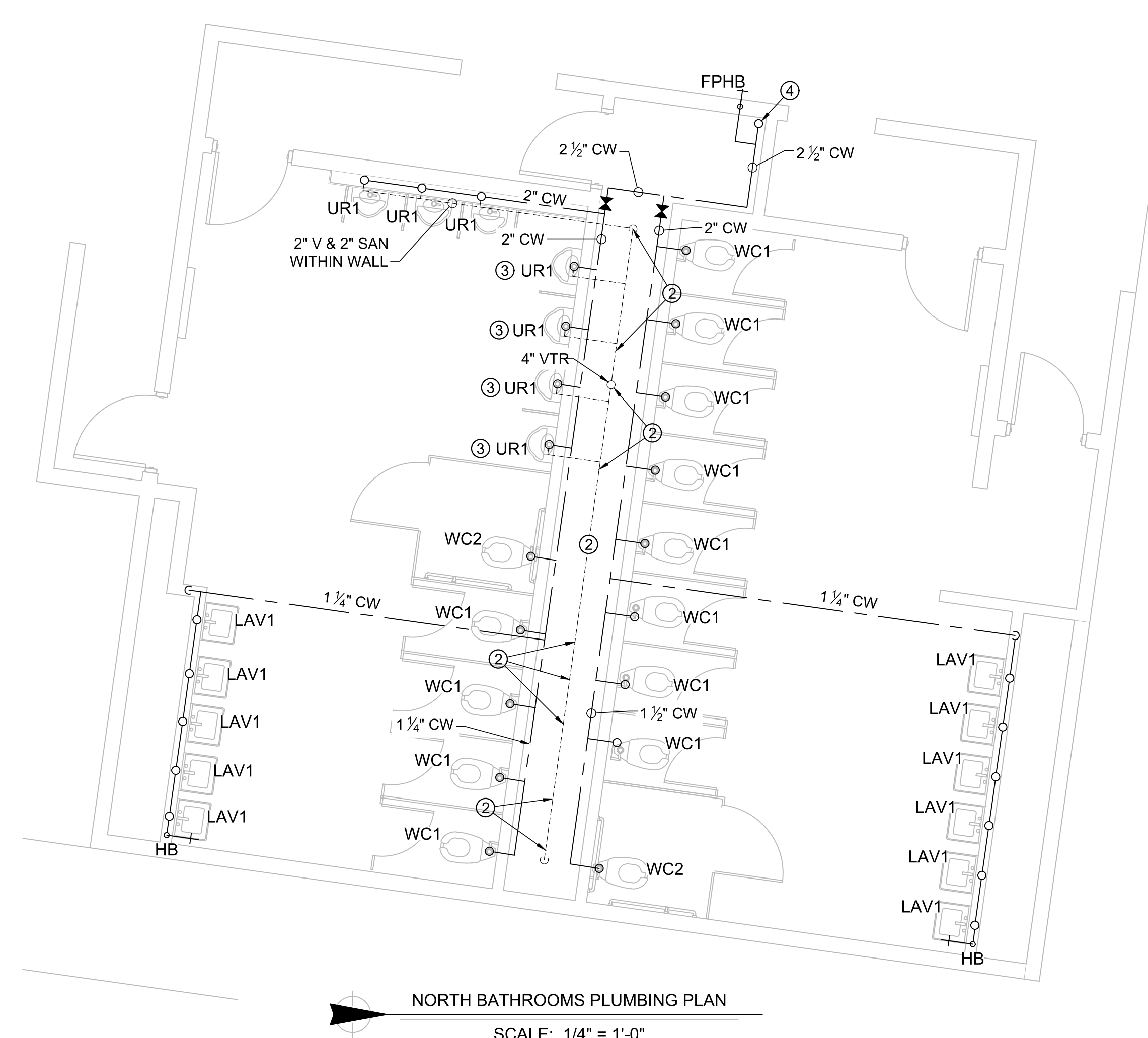
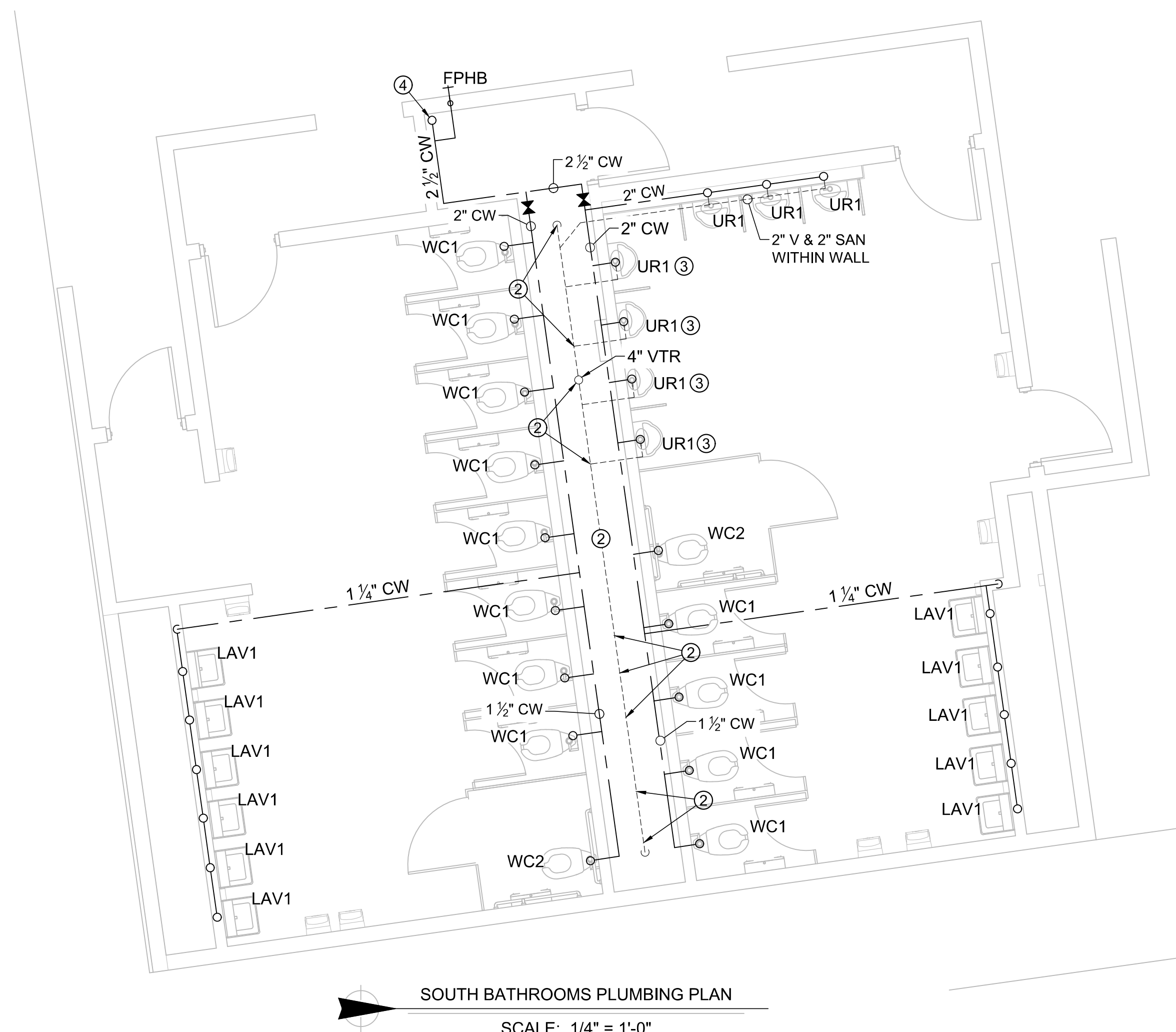


PLUMBING FIXTURE SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	NOTES
FPHB	FROST PROOF HOSE BIB	WOODFORD	MODEL 67	
HB	HOSE BIB	JR SMITH	5670-H	INTERIOR HOSE BIB WITH VACUUM BREAKER
LAV1	LAVATORY (WALL HUNG W/MANUAL FAUCET)	AMERICAN STANDARD	0356041.020	WITH ZURN Z86300-XL-3M FAUCET, 1/4 TURN STOP, BRAIDED STAINLESS STEEL SUPPLY, AND TRUBRO LAV GUARD 2
UR1	URINAL - MANUAL FLUSH	AMERICAN STANDARD	6590001.020	WITH ZURN Z6003AV-WS1 MANUAL FLUSH VALVE (1.0 GPM/FLUSH)
WC1	WATER CLOSET - STANDARD HEIGHT - MANUAL FLUSH VALVE	AMERICAN STANDARD	2234.001	WITH ZURN Z6000AV-WS1 MANUAL FLUSH VALVE (1.6 GPM/FLUSH) AND CHURCH 9500SSCT SELF SUSTAINING SEAT
WC2	WATER CLOSET - ADA HEIGHT - MANUAL FLUSH VALVE	AMERICAN STANDARD	3043.001	WITH ZURN Z6000AV-WS1 MANUAL FLUSH VALVE (1.6 GPM/FLUSH) AND CHURCH 9500SSCT SELF SUSTAINING SEAT
WC3	WATER CLOSET - ADA HEIGHT - TANK	AMERICAN STANDARD	215AA.004	WITH CHURCH 7200SLEC SEAT AND COVER, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.

NOTES:
1. VERIFY NECESSARY FIXTURES MEET ADA REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION

PLUMBING CONNECTION SIZING SCHEDULE					
FIXTURE	TYPICAL ABBREVIATION	SANITARY PIPING		SUPPLY PIPING	
		WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
DRINKING FOUNTAIN	DF	1-1/2"	1-1/4"	1/2"	-
FLOOR DRAIN	FD	3"	2"	-	-
HAND / HAIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"
HOSE BIBB	HB	-	-	3/4"	-
LAVATORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"
MOP SINK	MS	3"	1-1/2"	1/2"	1/2"
ICE MAKER OUTLET BOX	REF	-	-	1/2"	-
SHOWER	SH	3"	1-1/2"	1/2"	1/2"
URINAL	UR	2"	1-1/4"	3/4"	-
WATER CLOSET (FLUSH TANK)	WC	3"	2"	1/2"	-
WATER CLOSET (FLUSH VALVE)	WC	3"	2"	1"	-

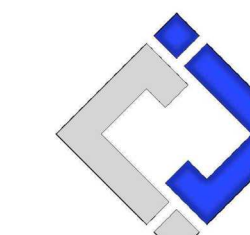
NOTES:
1. SIZES SHOWN ABOVE ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS



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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT DESIGN AND
CONSTRUCTION

UPGRADE ELECTRICAL AND
RESTROOMS, GRANDSTAND

MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST.
SEDALIA, MO 65301

PROJECT # T2304-01
SITE # 1501
ASSET # 3511501018

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 11/29/2023
BID DOCUMENTS

CAD DWG FILE: _____
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

ENLARGED
PLUMBING
PLANS (PHASE 1)

SHEET NUMBER:

P-101

SHEET 30 OF 30
11/29/2023