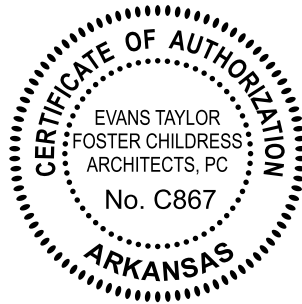




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TAYLOR  
FOSTER  
CHILDRESS  
ARCHITECTS  
343 North Main Street  
Memphis TN 38103



**ADDENDUM NO. 3**  
**March 8, 2024**

**FIRE STATION # 1**  
**City of Marion**  
**Marion, AR 72364**

**ETFC ARCHITECTS**  
**207 WEST BOND**  
**WEST MEMPHIS, AR 72301**

The following changes, clarifications, additions or deletions shall be made a part of the Contract Documents.

**ITEM NO. 1**

Reference Project Manual, Invitation to Bid; The bid date has been changed to March 19, 2024. Time to be 2:00 p.m., location unchanged.

**ITEM NO. 2**

Questions from contractors; date for questions has been extended to March 12, 2024, by 5:00 p.m. All questions should be emailed to [rgareyarch@gmail.com](mailto:rgareyarch@gmail.com)

**ITEM NO. 3**

Reference Project Manual, Section 011000, Summary; Paragraph 1.12 A., delete reference to the following sentences  
1,2,4 through 11, and 17 through 19.

**ITEM NO. 4**

Reference Drawings, sheet A2.1, SP-2 panel; The SP-2 panels not labeled "Red Panel" shall be the standard medium gray.

**ITEM NO. 5**

Reference Drawings, sheet S2.1, steel base plate; steel base plates are  $\frac{3}{4}$  inch thick.

**NO.6**

Reference Drawings, Revised Drawings (REVISED 3.7.24) listed below, attached to this Addendum.

A2.1 Revised "Add Alternate 1" Note.

A2.3 Revised "Add Alternate 1" Note.

A4.2 Added steel plate note with dimensions for clarification at garage door locations.

A4.3 Added steel plate note with dimensions for clarification at storefront window locations.

A5.2 Revised mark "T-6" on Toilet Accessory Schedule. Added "T-6" mark to 4/A5.2 and 3/A5.2 for clarification.

A5.3 Added steel plate note with dimensions for clarification at storefront window location.

A6.1 Revised Room Finish Schedule at [108] Apparatus for Add Alternate 1. Revised Room Finishes at Sun Shades for style/material clarification.

P0.1 Added "SH-1" mark at Plumbing fixture Schedule.

P1.1 Added plumbing to showers at [119] Storm Shelter and [120] Restroom 3.

P3.1 Added plumbing to showers at [119] Storm Shelter and [120] Restroom 3.

E2.1 Revised "OD" mark at Electrical Fixture Schedule.

E3.1 Revised Branch Panel layout at Overhead Doors.

**ITEM NO. 7**

Reference Project Manual, Section 05 5000, Miscellaneous Metals and Metal Fabrication; Paragraph 3.09, Structural steel framing that is not exposed shall receive a primer coat of paint.

**ITEM NO. 8**

Reference Drawings, sheet C-2.0; patching back to state road; Contractor shall saw cut at the shoulder line and regrade it. Contractor will need to send permit with understanding of not going beyond limits and cutting into the shoulder.

**END OF ADDENDUM**

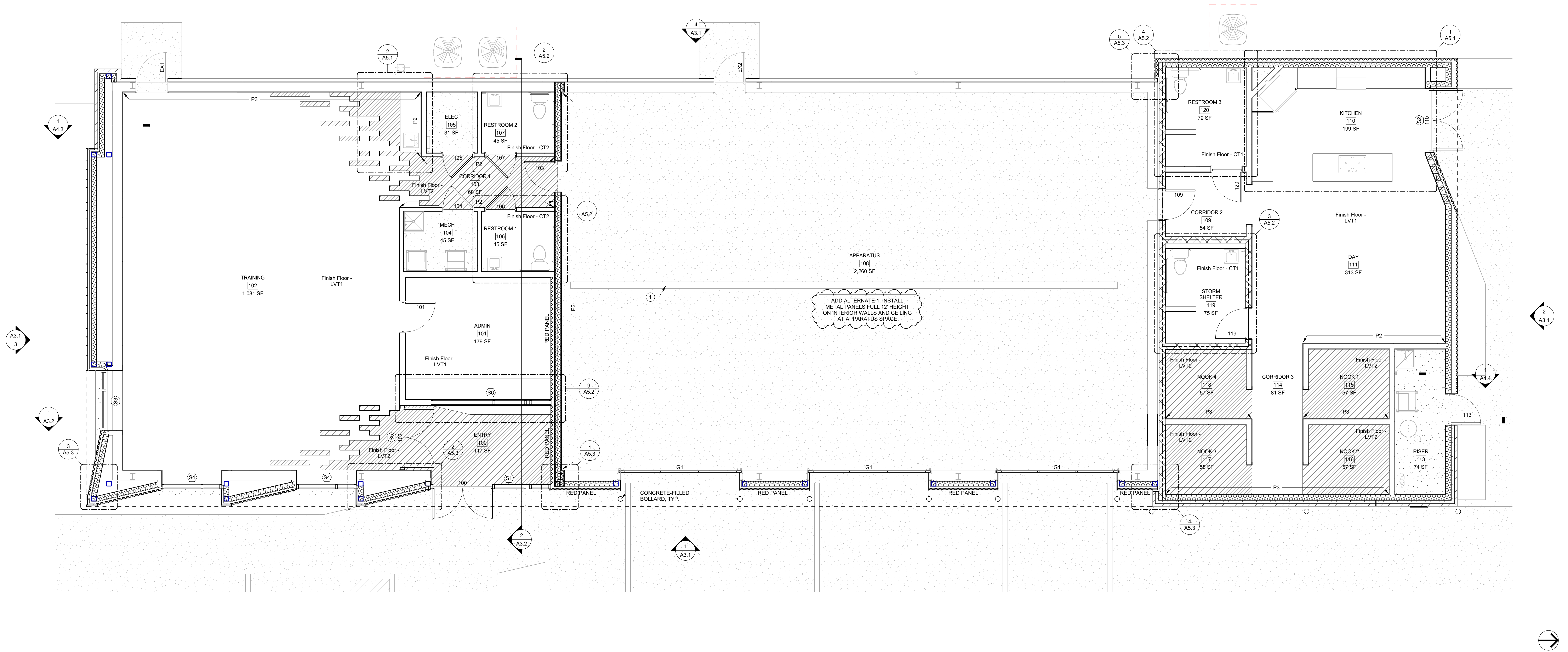


FLOOR PLAN LEGEND

- 2-HOUR RATED FIRE WALLS
- CONCRETE BLOCK WALLS
- GYPSUM BOARD/STEEL STUD WALLS
- 001 ROOM NUMBER
- 001 NEW DOOR
- EX1 EXISTING DOOR
- S1 EXTERIOR GLAZED OPENINGS. SEE SHEETS A6.1 AND A6.5
- 1/A5.1 INTERIOR ELEVATIONS. SEE SHEET A5.1

FLOOR PLAN NOTES

- \* OWNER FURNISHED/DOWNER INSTALLED
- \*\* OWNER FURNISHED/CONTRACTOR INSTALLED
- 1 PROVIDE NEW DRAIN GRATES AT EXISTING TROUGH RATED FOR LOAD CLASS 'C'



1 ANNOTATED FLOOR PLAN

1/4" = 1'-0"

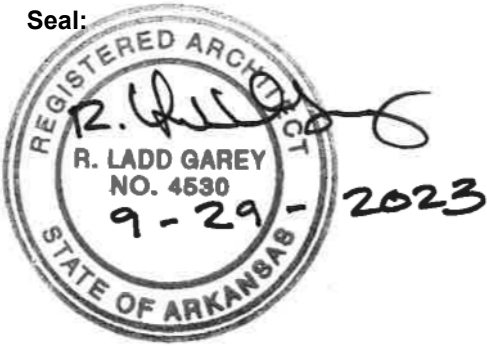
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ADDENDUM #3	03.07.24

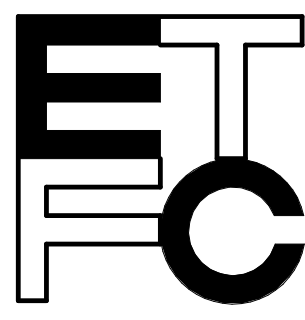
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Marion, Arkansas 72364  
for

Marion Fire Department



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ANNOTATED FLOOR PLAN

Drawing Number:

A2.1

Date: September 29, 2023 Project Number: 22207

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CEILING PLAN GENERAL NOTES

1. CENTER SPEAKERS, SMOKE DETECTORS, SPRINKLER HEADS, ETC. IN 2'x2' ACOUSTICAL TILE CEILINGS AS SHOWN ON THE REFLECTED CEILING PLANS.
2. REFER TO MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SECURITY AND VENDOR DRAWINGS FOR LOCATIONS OF OTHER CEILING MOUNTED DEVICES NOT SHOWN HEREIN.
3. ALL EXPOSED STEEL LINTELS TO BE PAINTED (TYP.).
4. SOFFIT HEIGHTS NOTED ON EXTERIOR ELEVATIONS. ENLARGED ELEVATIONS AND WALL SECTIONS, RE: A300 AND A400 SERIES SHEETS.
5. PAINT ALL GYPSUM CEILINGS AND FURRDOWNS "P5" UNLESS NOTED OTHERWISE AT HEIGHT KEYNOTES.

CEILING HEIGHT LEGEND

KEYNOTED FINISHED CEILING HEIGHTS ARE MEASURED FROM FINISHED FLOOR.

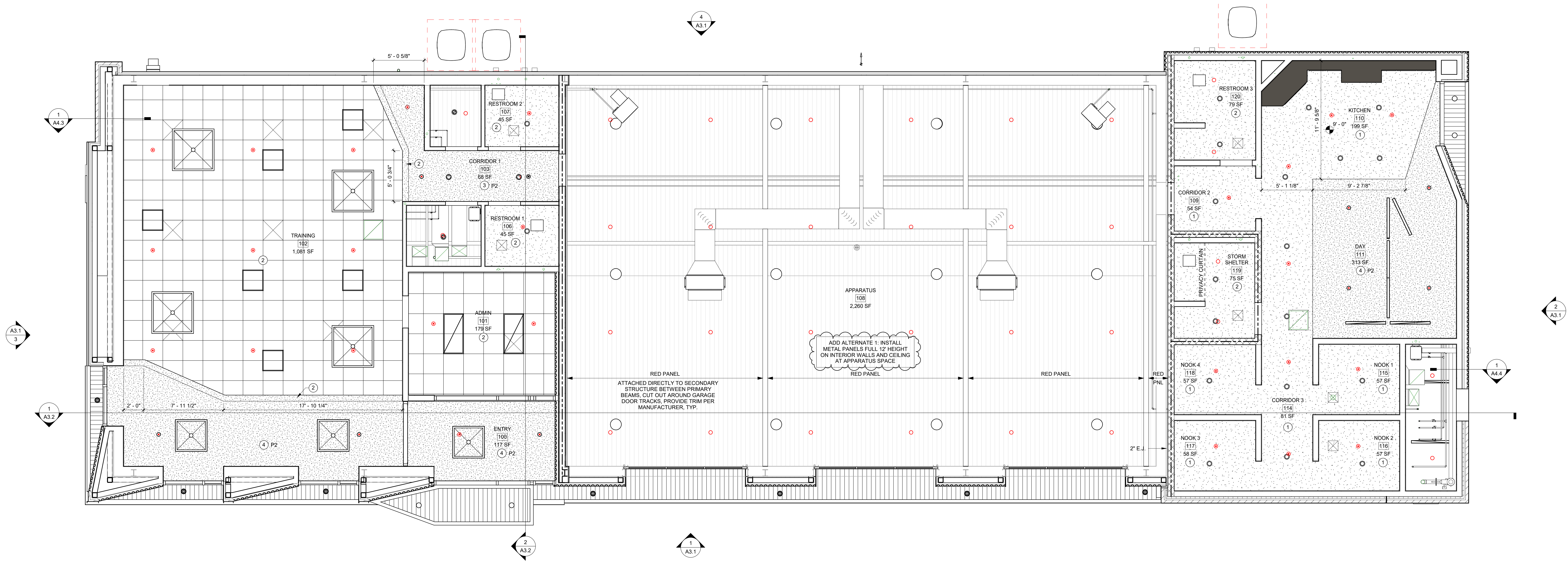
- ① 9' - 0" HIGH CEILING
- ② 10' - 0" HIGH CEILING
- ③ 10' - 4" HIGH CEILING
- ④ 12' - 0" HIGH CEILING

CEILING PLAN LEGEND

----- 2-HOUR RATED FIRE WALLS

CEILING DEVICES INDICATED ARE SHOWN FOR REFERENCE ONLY. REFER TO SPECIFIC "M", "P", "FP" AND "E" DRAWINGS AS REQUIRED FOR ADDITIONAL ITEMS.

- XXXXX ROOM NUMBER
- ☒ ○ LIGHT FIXTURES - SEE ELECTRICAL
- ☒ ☒ HVAC DEVICES - SEE MECHANICAL
- ● ● SPRINKLER HEADS - SEE FIRE PROTECTION
- 2x2 LAY-IN ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING
- GYPSUM BOARD FURRDOWN / HIGH CEILING
- EXPOSED STRUCTURE, NO FINISHED CEILING
- REFINISHED LINEAR METAL SOFFIT SYSTEM, ORIENTATION AS SHOWN ON DRAWING 1/A2.3
- MILLWORK EXTENDING TO CEILING



1 REFLECTED CEILING PLAN

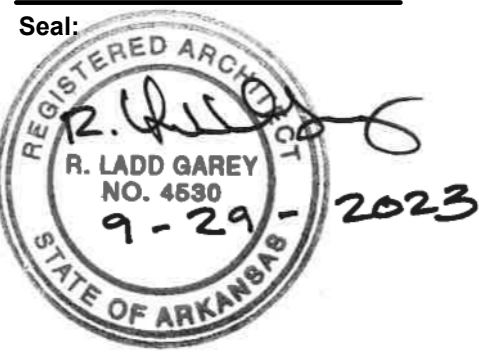
1/4" = 1'-0"

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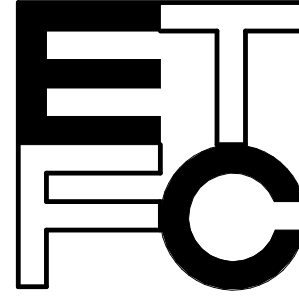
Revisions:	
ADDENDUM #1	02.29.24
ADDENDUM #3	03.07.24

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REFLECTED CEILING  
PLAN

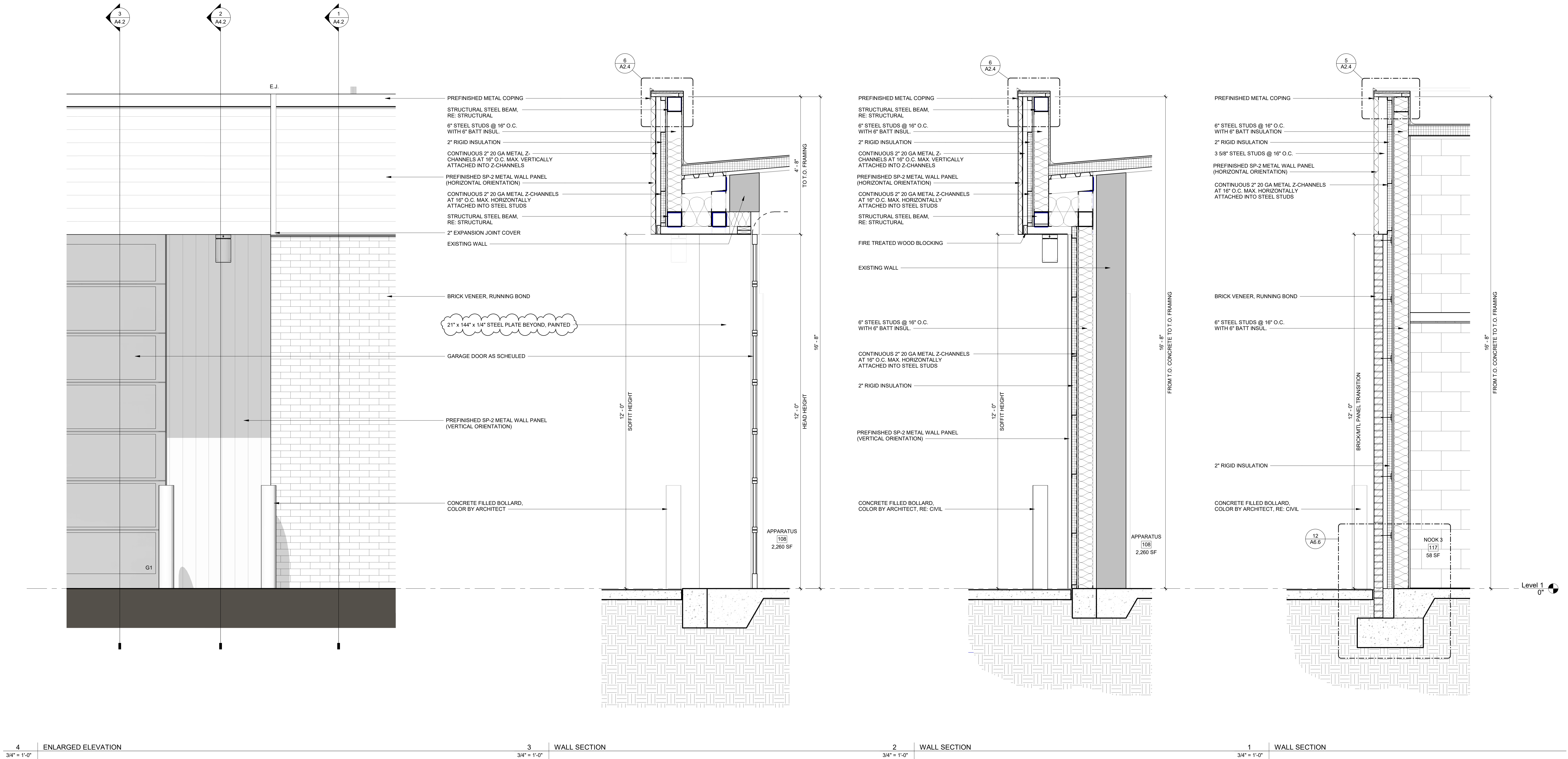
Drawing Number:

**A2.3**

Date: September 29, 2023 Project Number: 22207



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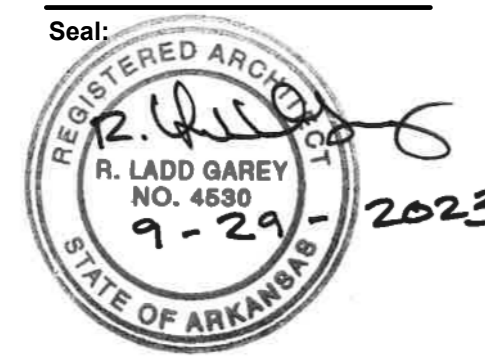


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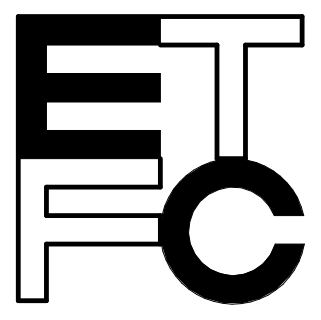
Revisions:	
ADDENDUM #3	03.07.24

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ENLARGED ELEVATION  
AND WALL SECTIONS

Drawing Number:  
**A4.2**  
Date: September 29, 2023 Project Number: 22207

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3  
3/4" = 1'-0"  
ENLARGED ELEVATION

2  
3/4" = 1'-0"  
WALL SECTION

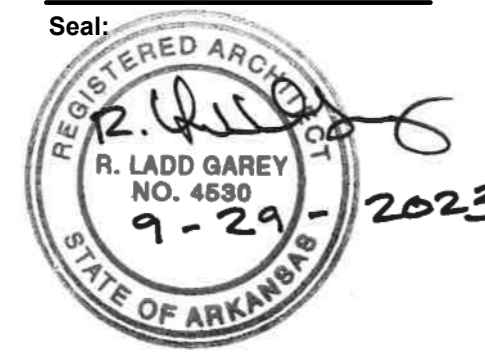
1  
3/4" = 1'-0"  
WALL SECTION

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ADDENDUM #3 03.07.24

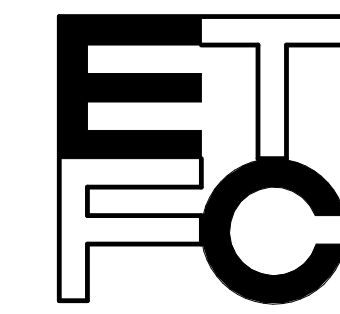
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ENLARGED ELEVATION  
AND WALL SECTIONS

Drawing Number:  
**A4.3**  
Date: September 29, 2023 Project Number: 22207



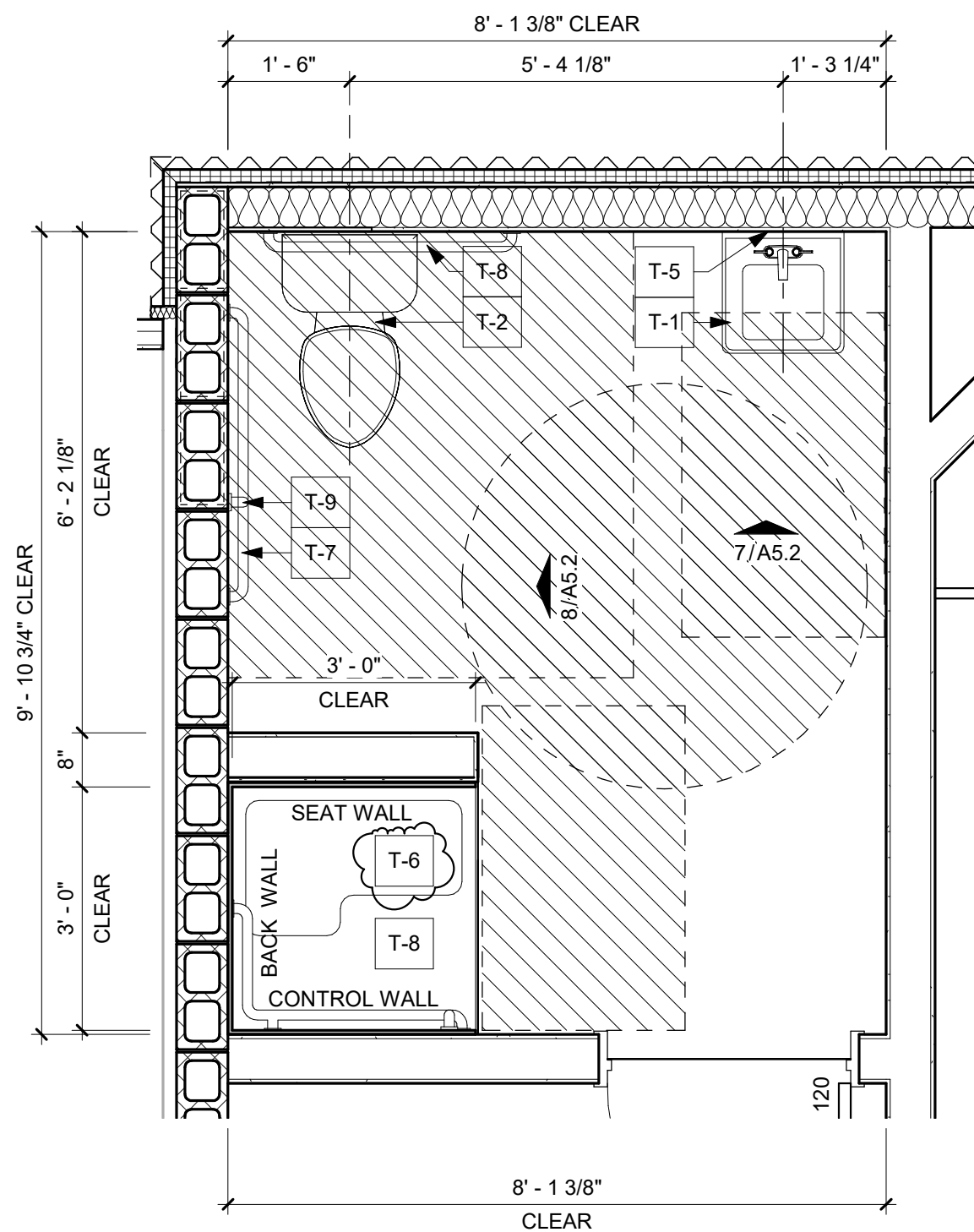
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#### TOILET ACCESSORY SCHEDULE

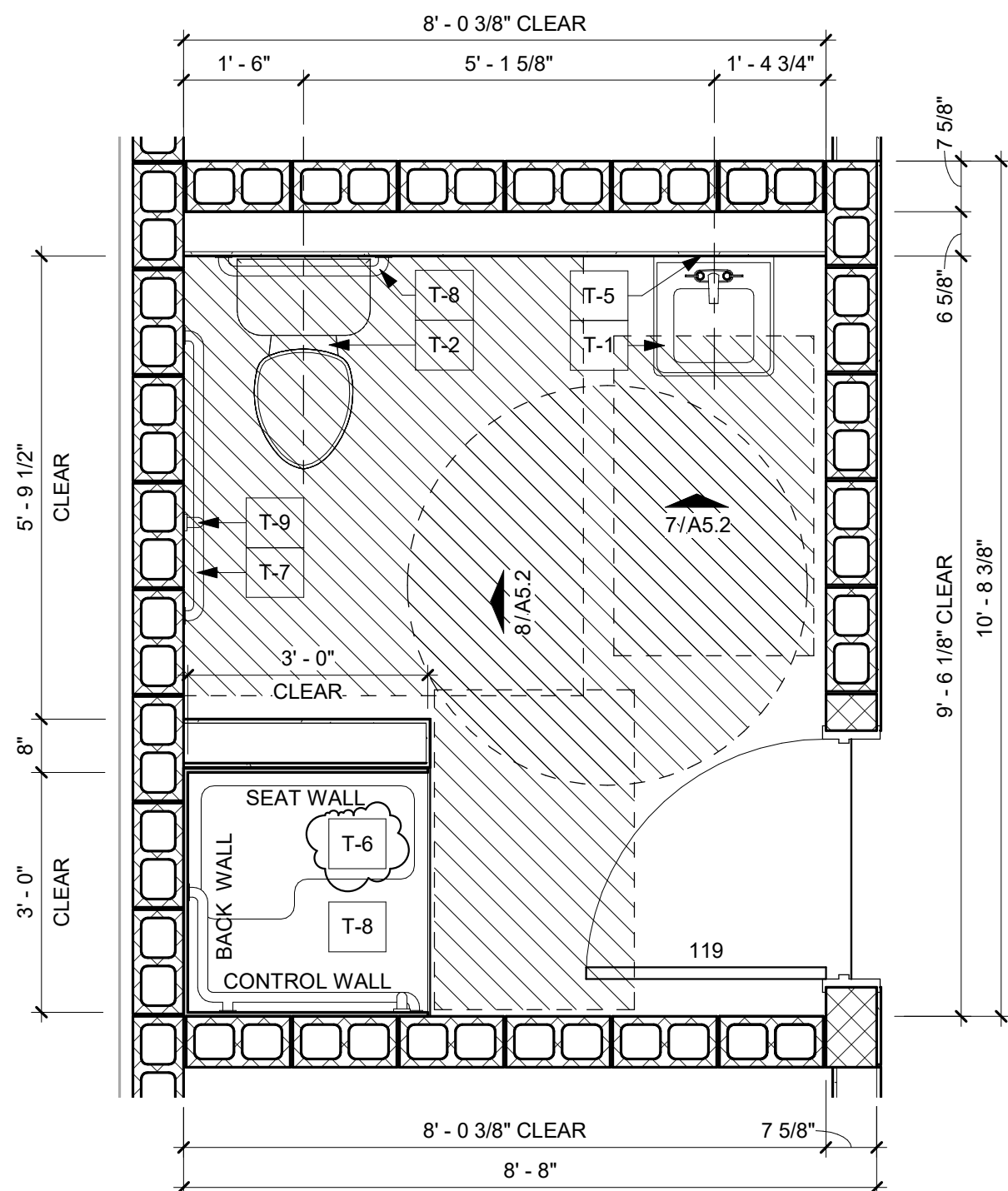
T-1	KOHLER K-2032 GREENWICH WALL-MOUNT LAVATORY, WHITE, ADA COMPLIANT
T-2	KOHLER K-32820-D KELSTON TWO-PIECE ELONGATED TOILET, ADA COMPLIANT
T-3	BOOTZCAST 30" x 60" x 74.5" STANDARD IFT ALCOVE BATH AND SHOWER KIT, WHITE (LEFT DRAIN)
T-4	PAPER TOWEL DISPENSER, SURFACE MOUNTED (O.F.O.I.)
T-5	FRAMELESS ANTI-FOG WALL BATHROOM VANITY MIRROR, 24" (W) x 36" (H)
T-6	FREEDOM APF03838BF1PRFL ADA TRANSFER SHOWER, LEFT VALVE WALL, CENTER DRAIN, INSTALL WITH ALL GRAB BARS, CONTROLS AND SEAT PER ADA REQUIREMENTS
T-7	PROVIDE BLOCKING IN WALL PER ADA REQUIREMENTS FOR FUTURE INSTALLATION OF 42"(H) GRAB BAR
T-8	PROVIDE BLOCKING IN WALL PER ADA REQUIREMENTS FOR FUTURE INSTALLATION OF 24"(H) GRAB BAR
T-9	PROVIDE BLOCKING IN WALL PER ADA REQUIREMENTS FOR FUTURE INSTALLATION OF 18"(V) GRAB BAR
T-10	SOAP DISPENSER, SURFACE MOUNTED (O.F.O.I.)

#### TOILET ACCESSORY NOTES

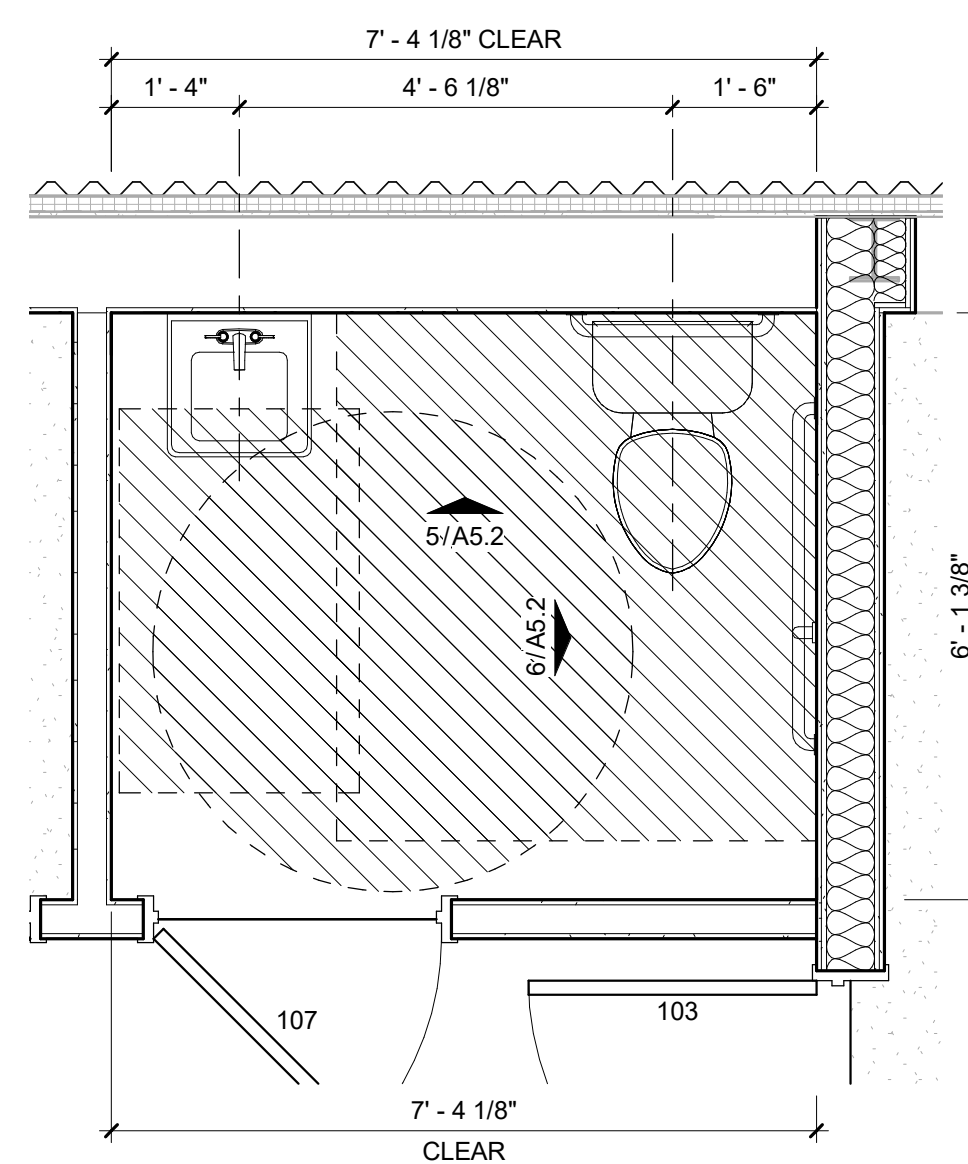
- ALL TOILET ACCESSORIES SHALL BE MOUNTED PER APPLICABLE ADA REGULATORY AND BUILDING CODE REQUIREMENTS
- TOILET TISSUE DISPENSERS, PAPER TOWEL DISPENSERS AND SOAP DISPENSERS WILL BE OWNER FURNISHED AND OWNER INSTALLED. EACH LAVATORY IN THE PROJECT TO HAVE ONE PAPER TOWEL DISPENSER AND ONE SOAP DISPENSER.
- PROVIDE 2x12 CONCEALED FIRE-TREATED WOOD WALL SUPPORT BLOCKING FOR GRAB BARS. BLOCKING TO BE CAPABLE OF SUPPORTING 250 POUNDS.



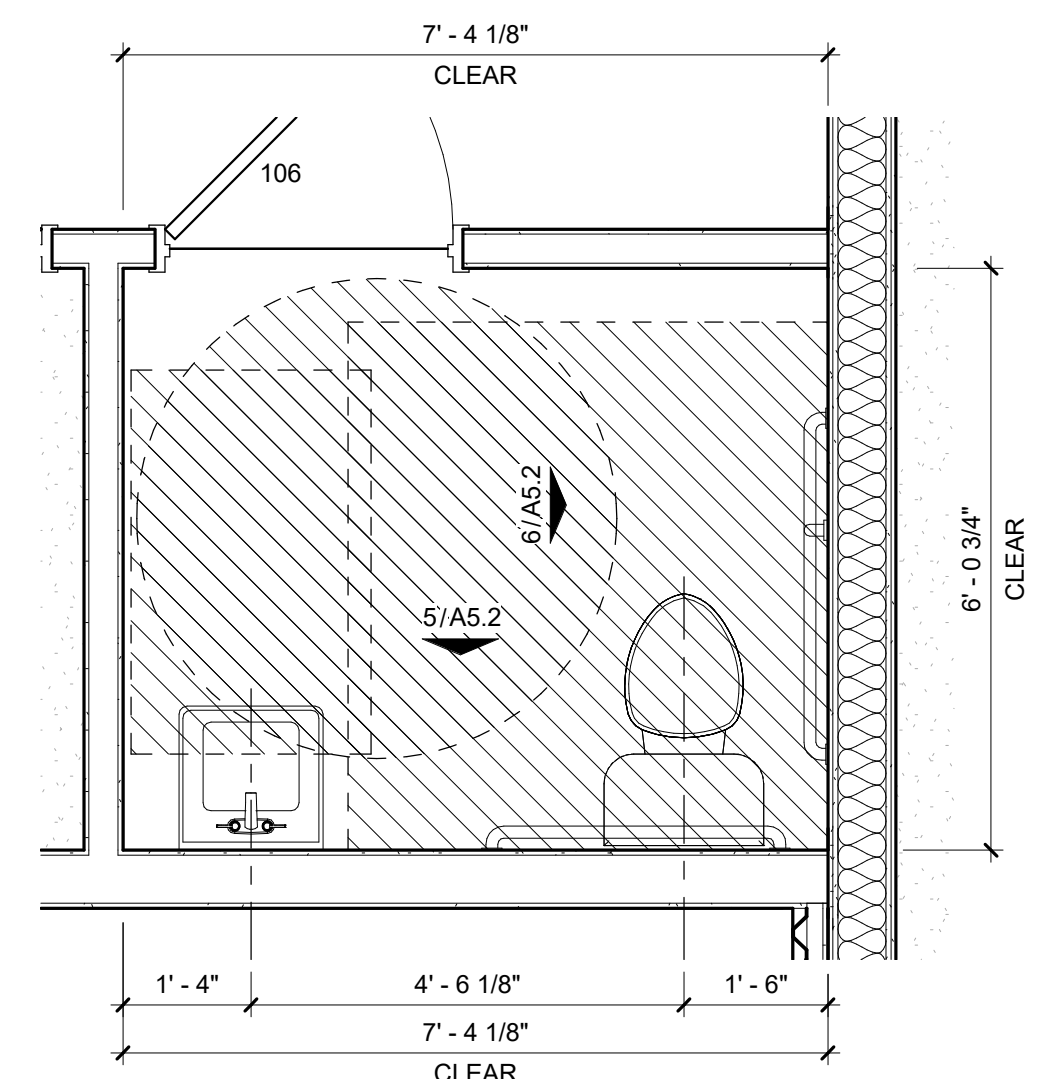
4 TOILET PLAN - 120  
1/2" = 1'-0"



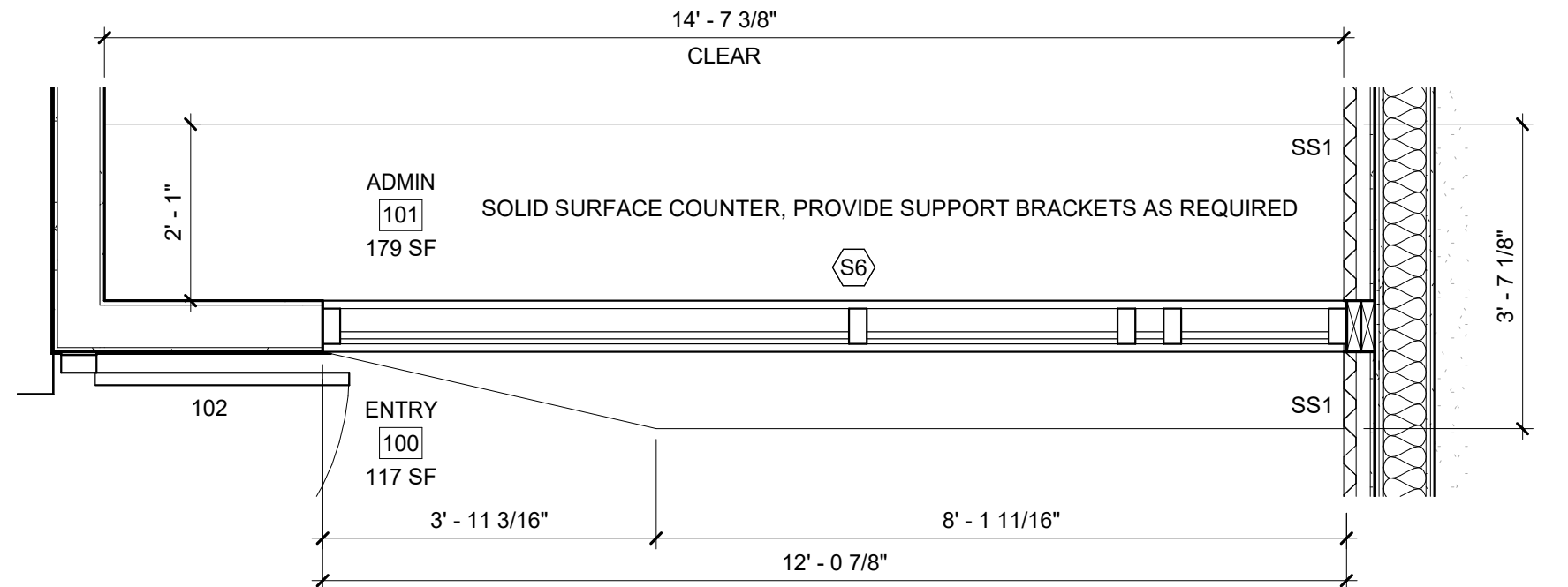
3 STORM SHELTER PLAN - 119  
1/2" = 1'-0"



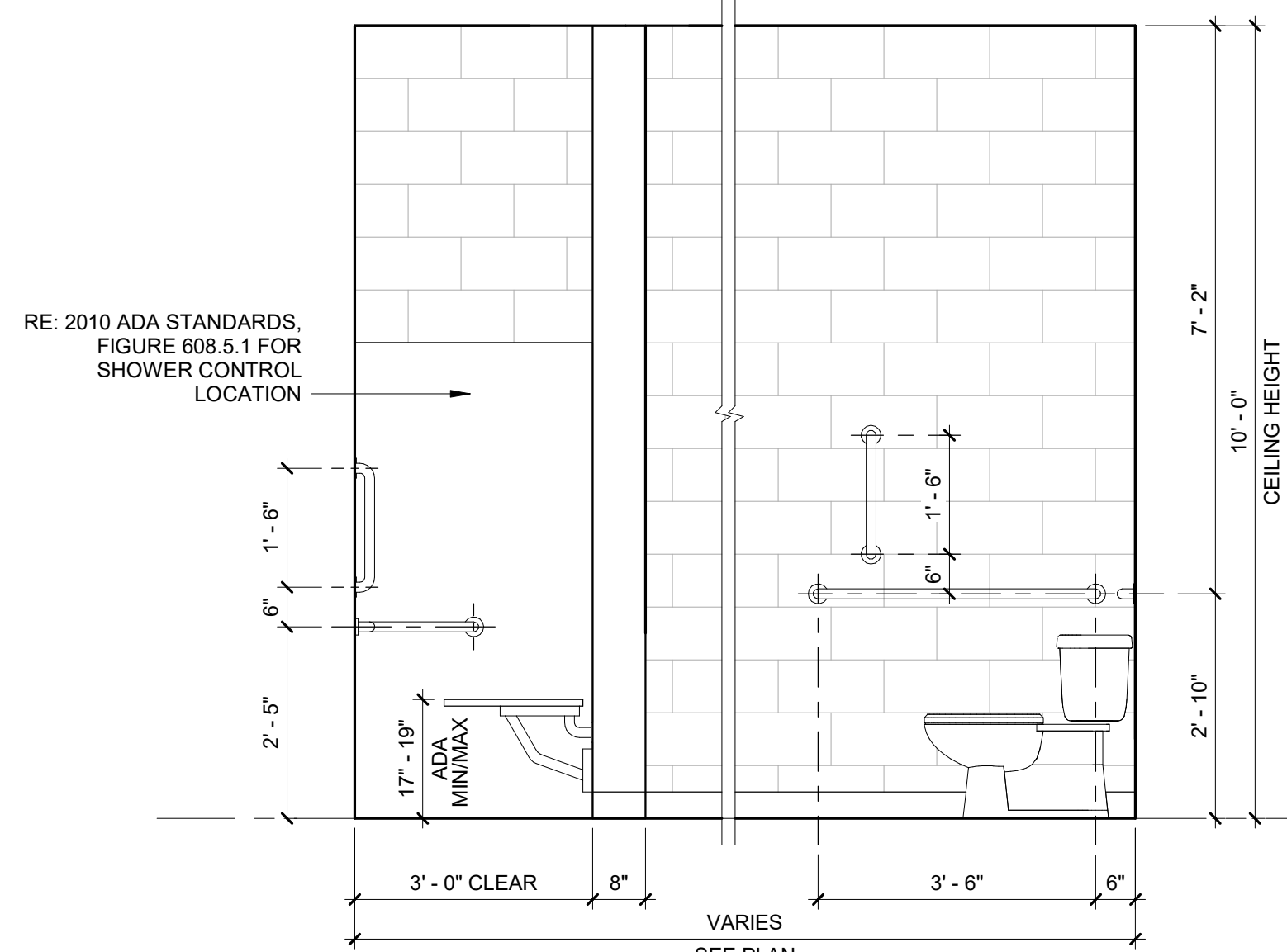
2 TOILET PLAN - 107  
1/2" = 1'-0"



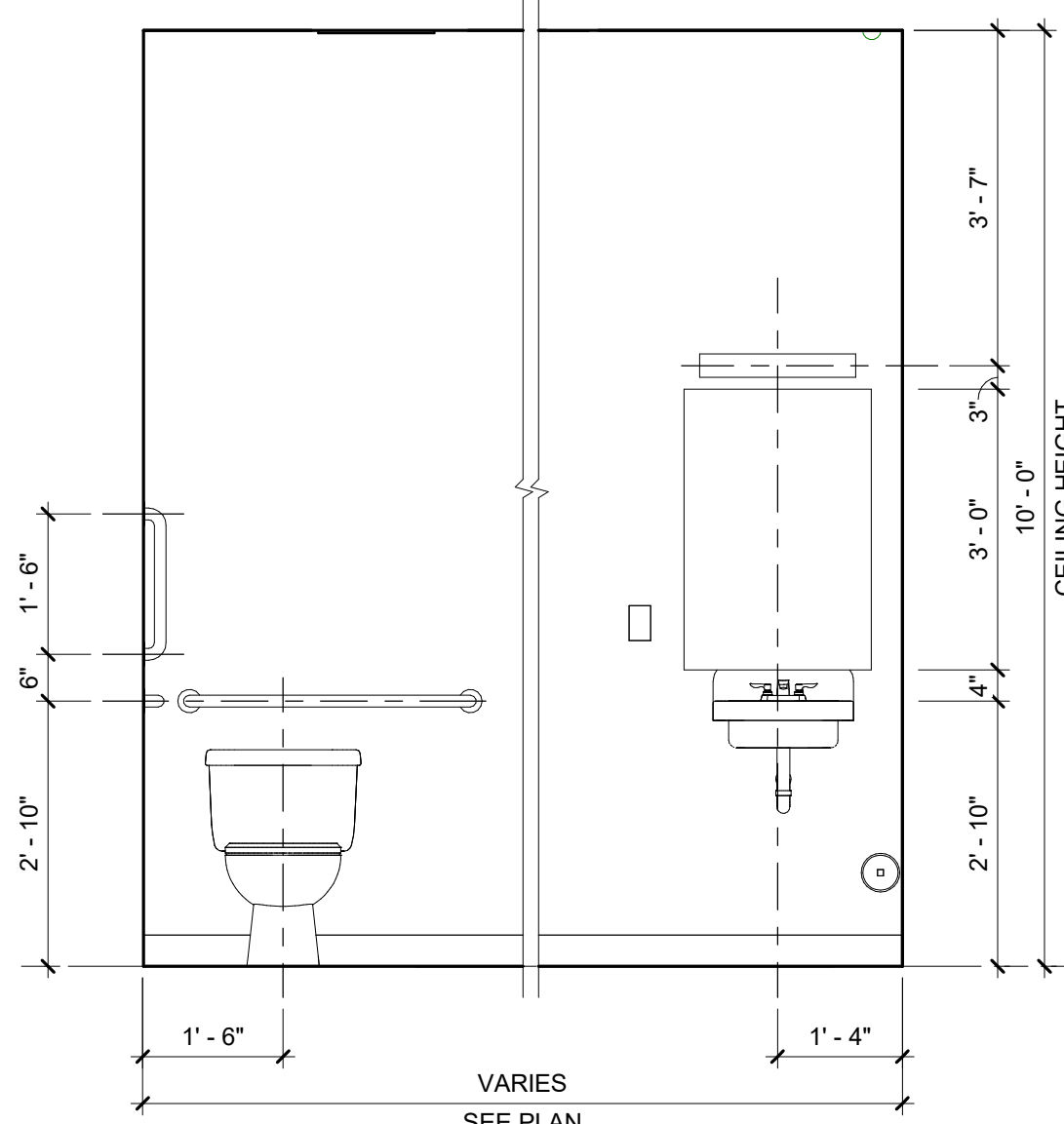
1 TOILET PLAN - 106  
1/2" = 1'-0"



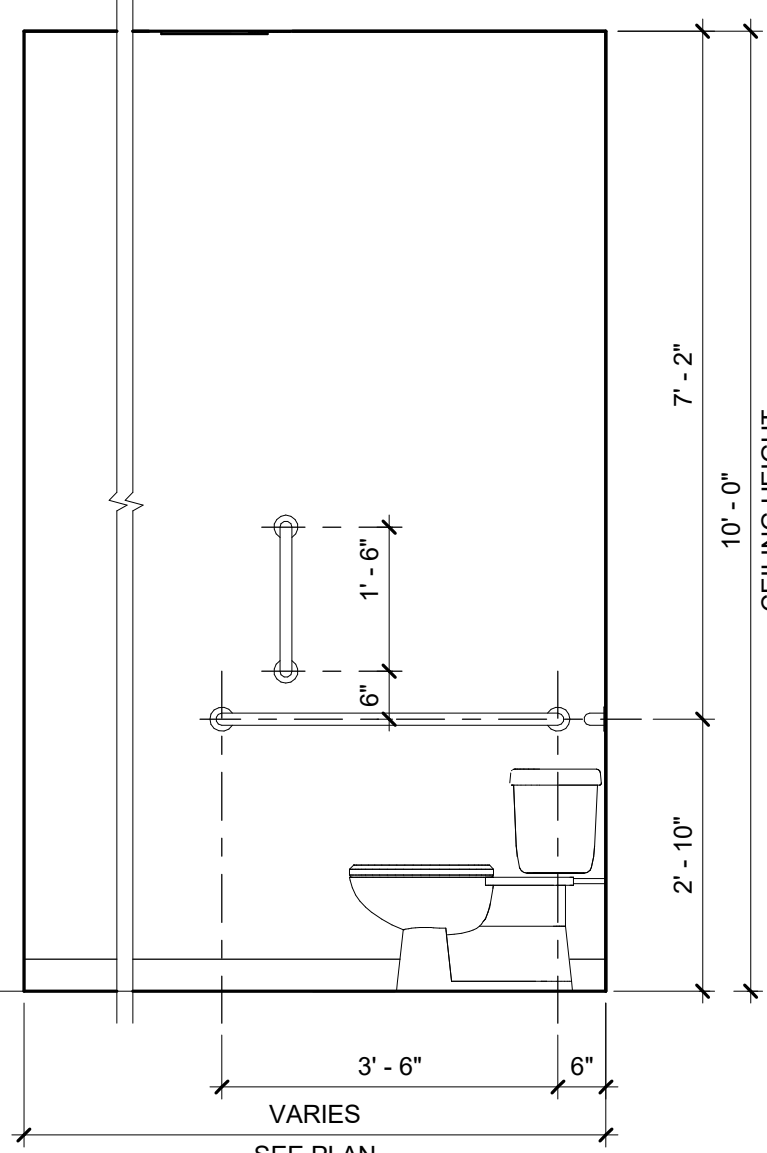
9 ENLARGED PLAN - 101  
1/2" = 1'-0"



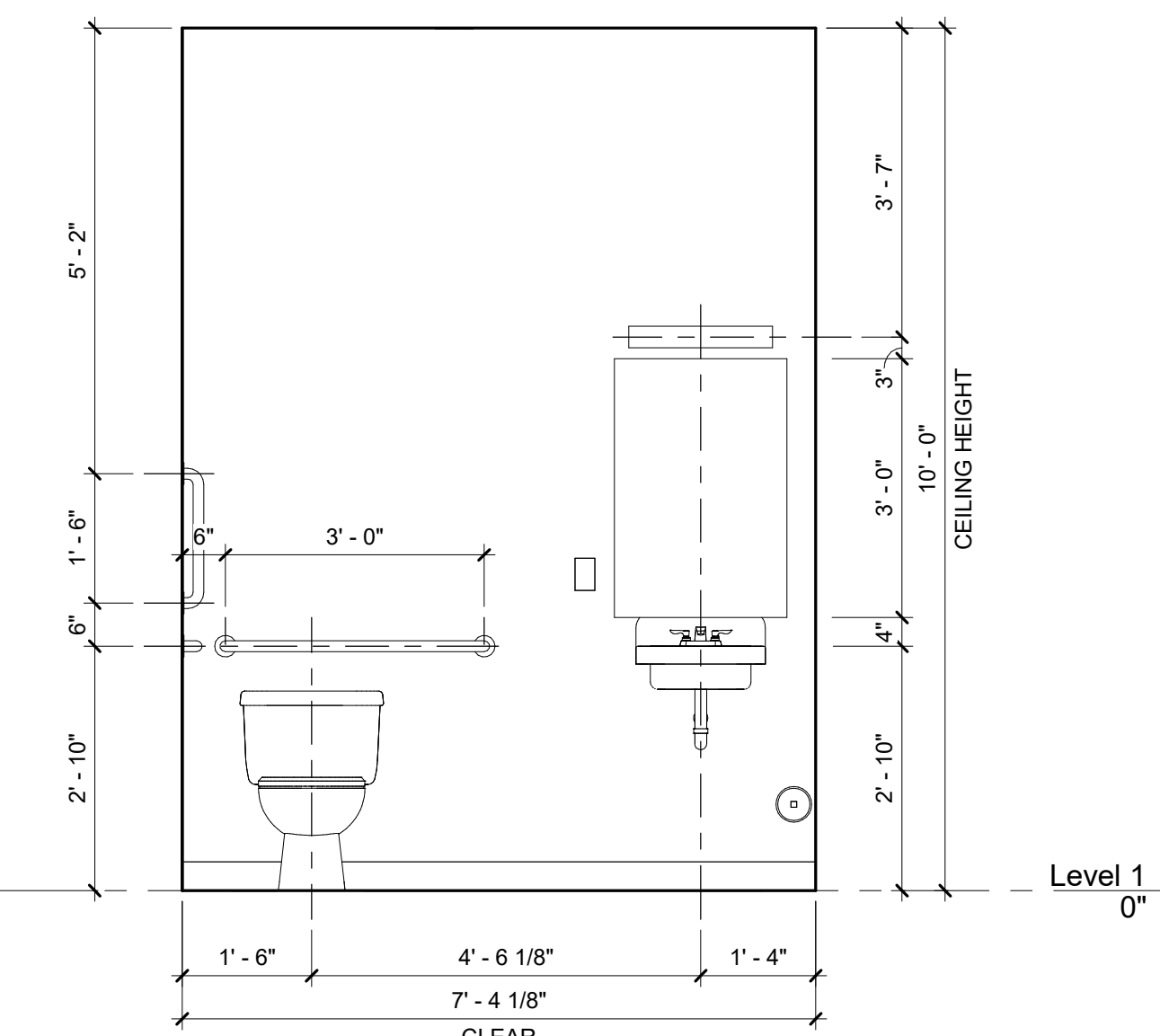
8 INTERIOR ELEVATION - 119/120  
1/2" = 1'-0"



7 INTERIOR ELEVATION - 119/120  
1/2" = 1'-0"



6 INTERIOR ELEVATION - 106/107  
1/2" = 1'-0"



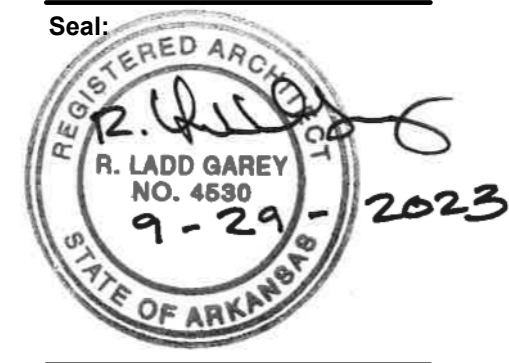
5 INTERIOR ELEVATION - 106/107  
1/2" = 1'-0"

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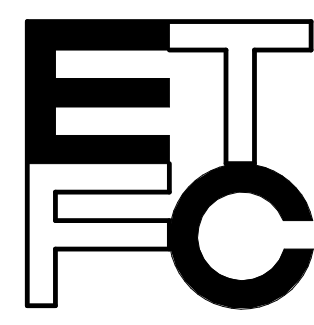
Revisions:	
ADDENDUM #3	03.07.24

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ENLARGED PLANS AND  
INTERIOR ELEVATIONS  
Drawing Number:  
**A5.2**  
Date: September 29, 2023  
Project Number:  
22207

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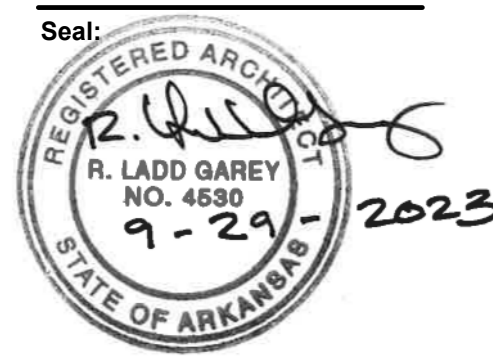
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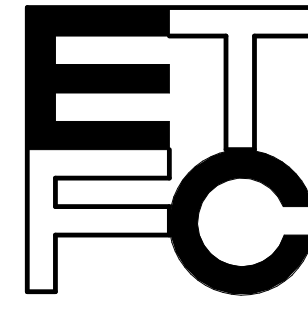
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PLAN DETAILS

Drawing Number:	
<b>A5.3</b>	
Date:	September 29, 2023
Project Number:	22207

5  
1 1/2" = 1'-0"  
ENLARGED PLAN

4  
1 1/2" = 1'-0"  
ENLARGED PLAN

3  
1 1/2" = 1'-0"  
ENLARGED PLAN

2  
1 1/2" = 1'-0"  
ENLARGED PLAN

1  
1 1/2" = 1'-0"  
ENLARGED PLAN



3/7/2024 8:39:10 AM  
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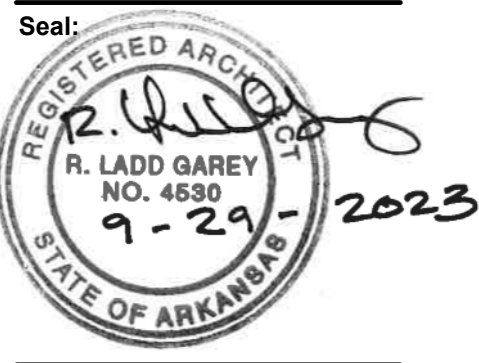
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Revisions:	
ADDENDUM #1	02.29.24
ADDENDUM #3	03.07.24

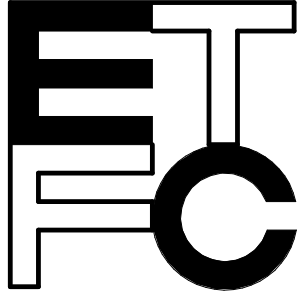
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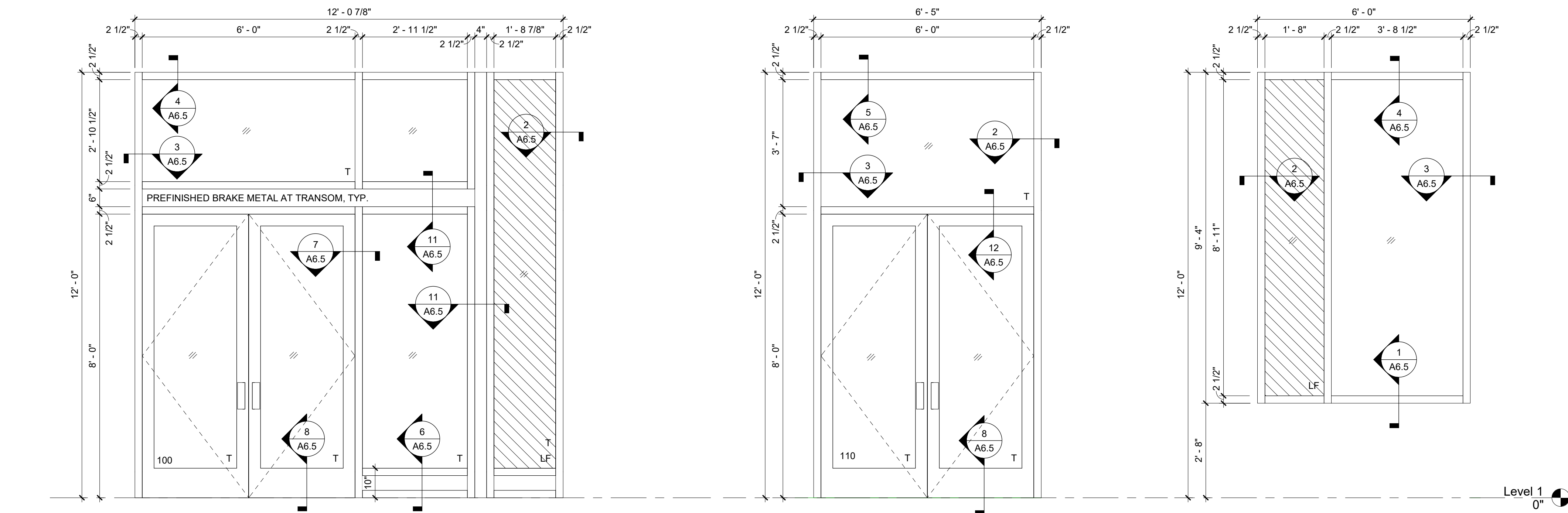


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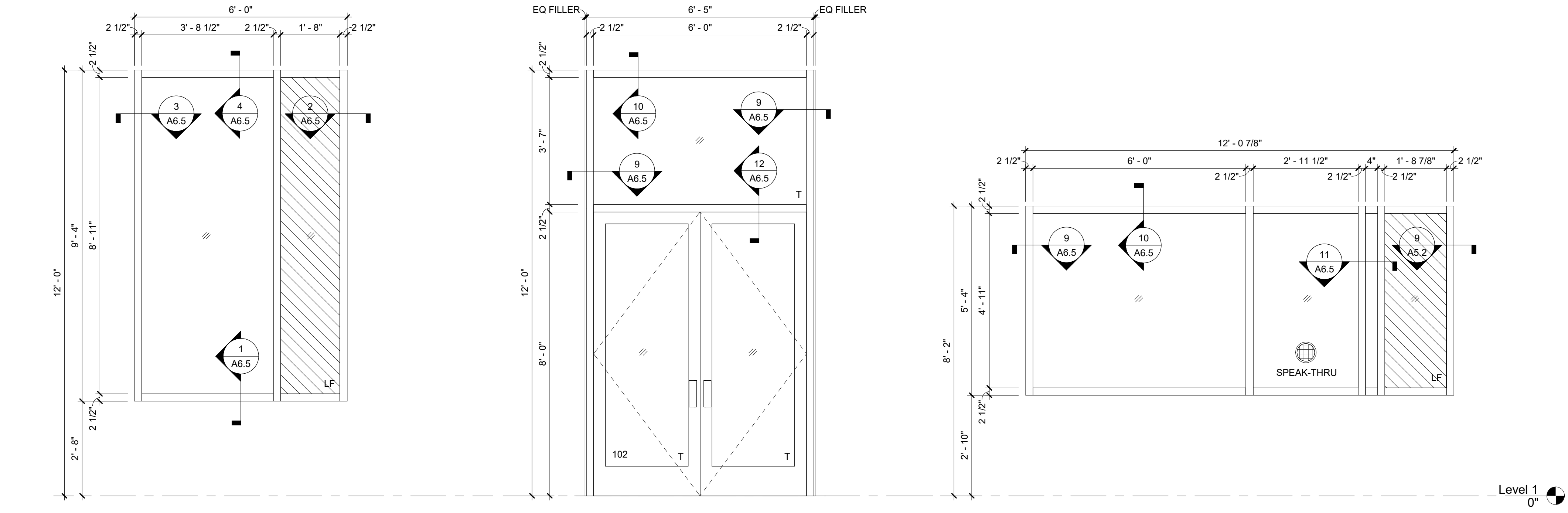


STOREFRONT, DOOR & FINISH SCHEDULES

Drawing Number:  
**A6.1**  
Date: September 29, 2023  
Project Number: 22207



S1 TYPE "S1" STOREFRONT 1/2" = 1'-0"  
S2 TYPE "S2" STOREFRONT 1/2" = 1'-0"  
S3 TYPE "S3" STOREFRONT 1/2" = 1'-0"



S4 TYPE "S4" STOREFRONT 1/2" = 1'-0"  
S5 TYPE "S5" STOREFRONT 1/2" = 1'-0"  
S6 TYPE "S6" STOREFRONT 1/2" = 1'-0"

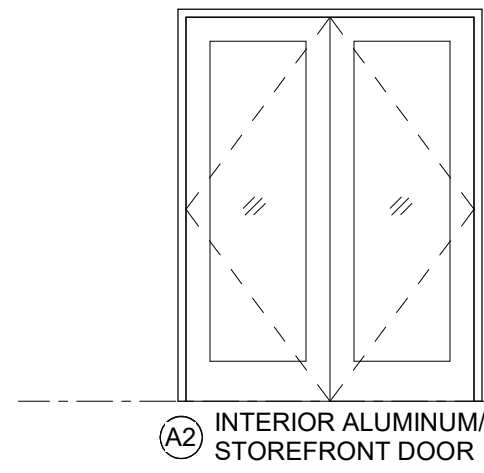
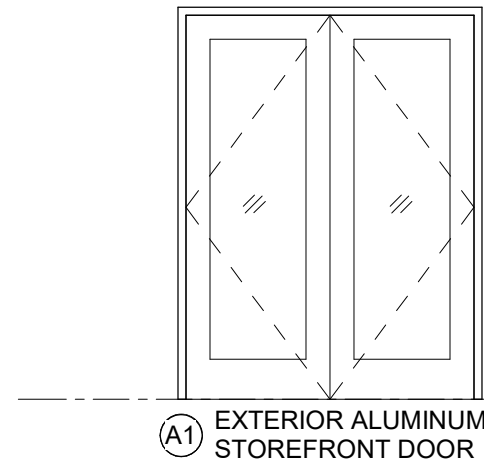
#### STOREFRONT NOTES:

LF PROVIDE RED APPLIED FILM AT GLASS PANELS WITH "LF" DESIGNATION  
T PROVIDE TEMPERED GLASS AT GLASS PANELS WITH "T" DESIGNATION

- PROVIDE TEMPERED GLASS AS REQUIRED BY CODE.
- PROVIDE ALL NECESSARY ACCESSORIES TO MEET ALL APPLICABLE CODES.
- ALL FRAMES TO BE ALUMINUM.
- G.C. TO CONFIRM ALL WINDOW SYSTEMS MEET STRUCTURAL PERFORMANCE REQUIREMENTS. REFER TO STRUCTURAL NOTES ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL OPENINGS BEFORE FABRICATION. DIMENSIONS AT EXTERIOR AND INTERIOR DOOR AND WINDOW OPENINGS ARE SHOWN AS NOMINAL. CONTRACTOR TO ALLOW FOR ADDITIONAL WIDTH, HEIGHT AND/OR LENGTH AS REQUIRED FOR ROUGH/MASONRY OPENINGS TO INCLUDE SHIMMING AND SEALANT OF FRAMES.
- PROVIDE WINDOW SHADING DEVICES AT ALL TRAINING ROOM EXTERIOR GLASS.

#### DOOR GENERAL NOTES

- INTERIOR DOORS TO BE 1 3/4" THICK WOOD AND 7'-0" HIGH UNLESS NOTED OTHERWISE. EXTERIOR DOORS TO BE HOLLOW METAL UNLESS INDICATED AS ALUMINUM / GLASS.
- AUTOMATIC DOORS TO BE CAPABLE OF BEING MANUALLY OPERATED TO PERMIT EXIT TRAVEL IN THE EVENT OF POWER FAILURE.
- ALL WOOD DOORS TO BE PAINTED "P4" TO MATCH DOOR FRAMES.
- FIRE RATED DOORS MUST HAVE FIRE RATED FRAMES, HARDWARE, AND OTHER RATED ACCESSORIES PER NFPA 80.
- TEXTURED SURFACE IS REQUIRED ON DOOR HANDLES LEADING TO AREAS HAZARDOUS TO PEOPLE CHALLENGED OR BLIND (I.E. MECHANICAL ROOMS, ELECTRICAL EQUIPMENT ROOMS, ETC.).
- DOOR OPENING FORCE TO OPEN AND CLOSING SPEED:
  - DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM (ANSI A117.1, 404.2.8)
- ALL EXTERIOR HM DOORS AND EXTERIOR HM FRAMES TO PAINTED "P4" AT INTERIOR SIDE AND "P6" AT EXTERIOR SIDE.
- SEE SPECIFICATIONS MANUAL FOR DOOR HARDWARE SCHEDULE. VERIFY ALL EXISTING DOOR HARDWARE MEETS ADA COMPLIANCE.



DOOR ELEVATIONS

ROOM FINISH SCHEDULE								
MARK	ROOM NAME	FLOOR	BASE	WALLS		CEILING		REMARKS
				MATERIAL	FINISH	MATERIAL	FINISH	
100	ENTRY	LVT2	RB1	GYP	P2	GYP	P2	METAL WALL PANEL AT NORTH WALL
101	ADMIN	LVT1	RB1	GYP	P1	ACT	ACT1	METAL WALL PANEL AT NORTH WALL
102	TRAINING	LVT1/LVT2	RB1	GYP	P1	ACT	ACT1	P3 AT WEST WALL
103	CORRIDOR 1	LVT2	RB1	GYP	P2	GYP	P2	
104	MECH	EC	-	GYP	P1	-	-	
105	ELEC	EC	-	GYP	P1	-	-	
106	RESTROOM 1	PT1	PTB1	GYP	P3	GYP	P5	
107	RESTROOM 2	PT1	PTB1	GYP	P3	GYP	P5	
108	APPARATUS	EC	-	METAL WALL PANEL (ADD ALT 1)	PREFINISHED	METAL WALL PANEL (ADD ALT 1)	PREFINISHED	MWP COLOR TBD BY ARCHITECT (ADD ALT 1)
109	CORRIDOR 2	LVT1	RB1	GYP/CMU	P1	GYP	P5	
110	KITCHEN	LVT1	RB1	GYP	P1	GYP	P5	PWT1/PWT2 BACKSPLASH
111	DAY	LVT1	RB1	GYP	P1	GYP	P2	P2 AT EAST WALL
113	RISER	EC	-	GYP	P1	-	-	
114	CORRIDOR 3	LVT1	RB1	GYP	P1	GYP	P5	P3 AT EAST WALL
115	NOOK 1	LVT2	RB1	GYP	P3	GYP	P5	P3 AT EAST WALL
116	NOOK 2	LVT2	RB1	GYP	P3	GYP	P5	P3 AT EAST WALL
117	NOOK 3	LVT2	RB1	GYP/CMU	P3	GYP	P5	P3 AT EAST WALL
118	NOOK 4	LVT2	RB1	GYP/CMU	P3	GYP	P5	P3 AT EAST WALL
119	STORM SHELTER	PT2	PTB2	CMU	P1	GYP	P5	
120	RESTROOM 3	PT2	PTB2	GYP/CMU	P1	GYP	P5	

#### ROOM FINISH ABBREVIATIONS

FLOORS  
EC: EXPOSED CONCRETE  
LVT: LUXURY VINYL TILE  
PT: PORCELAIN TILE  
BASE  
RB: RUBBER BASE  
PTB: PORCELAIN TILE BASE  
WALLS  
G: GROUT  
GYP: GYPSUM WALL BOARD  
P: PAINT  
PWT: PORCELAIN WALL TILE  
MILLWORK  
PL: PLASTIC LAMINATE  
SS: SOLID SURFACING

NOTE:  
DO NOT ORDER ANY FINISH MATERIALS OR CONSTRUCT ANY MILLWORK UNTIL COLOR SAMPLES AND SHOP DRAWINGS HAVE BEEN SUBMITTED AND APPROVED BY THE ARCHITECT AND OWNER.

#### ROOM FINISH NOTES

- PROVIDE SAMPLES OF ALL MATERIALS AND COLORS TO OWNER/ARCHITECT PRIOR TO ORDERING.
- PROVIDE ADA-COMPLIANT TRANSITION STRIPS BETWEEN DIFFERENT FLOORING TYPES.
- THE LISTED SELECTION OF MATERIALS IS FOR ARCHITECTURAL CONCEPT ONLY. "AS EQUAL TO" MATERIALS TO ALSO BE CONSIDERED.
- SEE REFLECTED CEILING PLANS FOR CEILING TYPES, FINISHES AND DESIGN DETAILS.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING ALL MATERIALS.
- PROVIDE SCHLUTER EDGE TRIM FOR TILE AT ALL OUTSIDE CORNERS.
- SEE FLOOR PLAN SHEETS FOR ACCENT PAINT LOCATIONS AND FLOOR PATTERNS.
- DOOR FRAMES TO BE PAINTED "P4" UNLESS NOTED OTHERWISE.
- PROVIDE SAMPLES OF ALL MATERIALS AND COLORS TO OWNER/ARCHITECT PRIOR TO ORDERING.

#### ROOM FINISHES

ACOUSTIC CEILING TILE  
ACT1 MFR: ARMSTRONG  
STYLE: OPTIMA #3152  
COLOR: WHITE  
SIZE: 24" x 24"

LUXURY VINYL TILE  
LVT1 MFR: INTERFACE  
STYLE: STUDIO SET  
COLOR: MUSHROOM A00706  
SIZE: 250CM x 1M (9.845" x 39.38")  
INSTALLATION: ASHLAR

LVT2 MFR: INTERFACE  
STYLE: STUDIO SET  
COLOR: RED A00717  
SIZE: 250CM x 1M (9.845" x 39.38")  
INSTALLATION: ASHLAR

PAINT  
P1 MFR: SHERWIN WILLIAMS  
COLOR: PURE WHITE (SW 7005)  
FINISH: EGGSHELL

P2 MFR: SHERWIN WILLIAMS  
COLOR: RED BAY (SW 6321)  
FINISH: EGGSHELL

P3 MFR: SHERWIN WILLIAMS  
COLOR: PEDIMENT (SW 7634)  
FINISH: EGGSHELL

P4 MFR: SHERWIN WILLIAMS  
COLOR: PURE WHITE (SW 6868)  
FINISH: SEMI-GLOSS

P5 MFR: SHERWIN WILLIAMS  
COLOR: HIGH REFLECTIVE WHITE (SW 7757)  
FINISH: EGGSHELL

P6 MFR: SHERWIN WILLIAMS  
COLOR: GAUNTLET GRAY (SW 7019)  
FINISH: SEMI-GLOSS

PL1 MFR: FORMICA  
COLOR: STORM (912-AM)

PORCELAIN TILE  
PT1 MFR: ATLAS CONCORDE  
STYLE: COVE  
COLOR: STORM (MATTE)  
SIZE: HEXAGON (9 7/8" x 9 1/2")  
INSTALLATION: HEXAGON

PT2 MFR: ATLAS CONCORDE  
STYLE: COVE  
COLOR: PEBBLE (MATTE)

PTB1 MFR: ATLAS CONCORDE  
STYLE: COVE  
COLOR: STORM (MATTE)

PTB2 MFR: ATLAS CONCORDE  
STYLE: COVE  
COLOR: PEBBLE (MATTE)

PORCELAIN TILE BASE  
PWT1 MFR: AMERICAN OLEAN  
STYLE: COLOR STORY WALL  
COLOR: STORM GRAY (MATTE)  
SIZE: RECTANGLE (4" x 12")  
INSTALLATION: ASHLAR

PWT2 MFR: AMERICAN OLEAN  
STYLE: COLOR STORY WALL  
COLOR: STORM GRAY (GLOSSY)  
SIZE: RECTANGLE (4" x 12")  
INSTALLATION: ASHLAR

SOLID SURFACE  
SS1 MFR: CORIAN  
COLOR: LAVA ROCK

RUBBER BASE  
RB1 MFR: ARMSTRONG FLOORING  
COLOR: PEBBLE  
SIZE: 4"

SUN SHADES  
MFR: SWF CONTRACT  
STYLE: R SERIES MANUAL SOLAR SHADES, 3% OPEN  
COLOR: TBD BY ARCHITECT

Evans Taylor Foster Childress ■ Architects



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Revisions:		
3.	Addendum #3	03.07.24

Consultants:

PROJECT NO: 23104

CSA

CHAD STEWART & ASSOCIATES, INC.

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Nashville

WATER HEATER EQUIPMENT SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	SIMULTANEOUS DUAL ELEMENT OPERATION				REMARKS
				ELEMENT WATTAGE (KW)	FLA	V/PH/Hz	WIDTH	
WH-1	AO SMITH	DEN-40	SIMULATANEOS ELECTRIC WATER HEATER	4KW UPPER/4KW LOWER	38.5	208/160	20 1/2"	49 3/4"

NOTES:

- RECOVERY RATING OF 36 GALLONS PER HOUR AT 90°F RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 150 PSI. WATER
- PROVIDE WITH VACUUM RELIEF VALVE EQUAL TO WATTS LFN36-M1.
- PROVIDE WITH SEISMIC SUPPORT STRAP EQUAL TO HOLDRITE QUICK STRAP #QS-50.
- PROVIDE WITH AQUASTAT EQUAL TO HONEYWELL LA400A1959.
- PROVIDE WITH GALVANIZED WATER HEATER DRAIN PAN.

BACKFLOW PREVENTER SCHEDULE

MARK	MANUFACTURER	MODEL	SIZE	MOUNTING	REMARKS
BFP-1	WATTS	LF007	1 1/4"	WALL	SEE NOTES

NOTES:

- PIPED FULL SIZE TO FLOOR DRAIN.

EXPANSION TANK SCHEDULE

MARK	MANUF.	MODEL	CAPACITY	DIAMETER	HEIGHT	REMARKS
ET-1	PROFLO	PEXT51	8 GAL.	8"	11.6"	-

CIRCULATING PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	TOTAL FT HD	V/PH/Hz	HP	REMARKS
CP-1	GRUNDFOS	UPS 15-55 SFC	IN-LINE CIRCULATOR	8	115/1/60	1/12	-

SCOPE OF WORK

SCOPE OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE ALL LOCAL CODES AND OTHER REGULATION GOVERNING WORK. THE CONTRACTOR SHALL BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT. EQUIPMENT INDICATED ON THE DRAWINGS OR AS REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL WRAP ALL EXPOSED PVC PIPING IN UL RATED WRAP WITH A 2500 FLAME SPREAD / SMOKE DEVELOPED INDEX. CONTRACTOR SHALL REPAIR ALL CORE DRILLED HOLES IN SPACE THAT ARE NOT UTILIZED IN THE NEW WORK (FIELD VERIFY EXISTING HOLES).

PERMITS

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS WORK. RETAIN CERTIFICATES OF INSPECTIONS AND SUBMIT WHEN WORK IS COMPLETE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES ENFORCED BY CITY, COUNTY, STATE, AND/OR FEDERAL AUTHORITIES.

SHOP DRAWINGS

SUBMIT SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT ELECTRONIC SHOP DRAWINGS IN PDF FORMAT AND THEY SHALL BE CLEARLY LABELED.

MISCELLANEOUS

ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE. TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE. COORDINATE THE INSTALLATION OF ALL ROOF FLASHINGS AT ROOF PENETRATION. PROVIDE FLASHING FOR ALL ROOF PENETRATIONS IN ACCORDANCE WITH ROOF MANUFACTURER'S RECOMMENDATIONS. DO NOT SCALE THE DRAWINGS FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE. THE PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL REQUIRED SIZES, WEIGHTS ELECTRICAL CONNECTIONS, AND CLEARANCES ARE COMPATIBLE WITH THE DESIGN CONCEPT SHOWN ON THE DRAWING. THESE CHANGES SHALL BE ACCOMPLISHED BY THE CONTRACTOR. THE PLANS ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

SOIL, WASTE AND VENT PIPING

SOIL, WASTE AND VENT PIPING 10" AND SMALLER SHALL PVC, ASTM 2665, D1785, SCHEDULE 40 PVC WITH PVC FITTINGS, AND SOLVENT WELD JOINTS WITH ASTM 2564 SOLVENT CEMENT.

DOMESTIC WATER PIPING

DOMESTIC WATER PIPING 2" AND SMALLER SHALL BE COPPER TUBE WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH NON-LEAD, NON-ANTIMONY SOLDER OR APPROVED EQUAL. PROVIDE TYPE "L" COPPER TUBE ABOVE GRADE AND TYPE "K" BELOW GRADE.

CROSS-LINKED POLYETHYLENE (PEX) PIPE CONFORMING TO STANDARDS ASTM F876 OR ASTM F877 SHALL BE ACCEPTABLE.

DOMESTIC HOT WATER PIPING THAT IS PART OF HWR SYSTEM SHALL BE CPVC. PEX OR PVC PIPING IS NOT ACCEPTABLE.

CONDENSATE DRAINAGE PIPING

THE PLUMBING CONTRACTOR SHALL PROVIDE CONDENSATE DRAINS FOR AIR HANDLING UNITS. CONDENSATE DRAINAGE PIPING SHALL BE TYPE "M" COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH 50/50 SOLDER OR SCHEDULE 40 PVC DWV OR APPROVED EQUAL.

HANGERS & SUPPORTS

THE PLUMBING CONTRACTOR SHALL FURNISH ALL PIPE SUPPORTS REQUIRED FOR EQUIPMENT AND MATERIAL. ALL HORIZONTAL RUNS OF PIPING SHALL BE SUPPORTED BY PIPE HANGERS INSTALLED AS REQUIRED BY LOCAL CODES. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. HANGERS AND PIPE ATTACHMENTS TO BE FACTORY FABRICATED WITH GALVANIZED COATINGS; NONMETALLIC COATED FOR HANGERS IN DIRECT CONTACT WITH COPPER TUBING.

CONNECTIONS

INSTALL UNIONS ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS. SCREW JOINT STEEL PIPING UP TO AND INCLUDING 1-1/2". WELD PIPING USE NON-LEAD, NON-ANTIMONY SOLDER FOR SOLDERING DOMESTIC WATER COPPER PIPE.

CLEANOUTS

PROVIDE J.R. SMITH OR EQUIVALENT FLOOR AND WALL CLEANOUTS AS INDICATED ON THE DRAWINGS OR WHERE REQUIRED BY CODE IN ALL SOIL, WASTE, AND DRAIN LINES. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.

INSTALLATION

INSTALL EXPOSED PIPING FREE OF SAGS AND BENDS. PROVIDE BRACKET STANDOFFS FROM MOUNTING SURFACES SUFFICIENT TO ALLOW 1" CLEANING SPACE AROUND ALL PIPING, INCLUDING ANY ADDED INSULATION. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS. GYPSUM BOARD PARTITIONS, CONCRETE FLOOR AND ROOF SLABS. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL.

GENERAL

PLUMBING CONTRACTOR TO PROVIDE VALVES WHERE INDICATED ON PLANS AND AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH FIXTURE AND ITEM OF EQUIPMENT. PROVIDE BRAIDED STAINLESS STEEL HOSE (UNLESS OTHERWISE NOTED) BETWEEN VALVE AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.

VALVES

PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER. UNLESS NOTED OTHERWISE VALVES SHALL BE AS FOLLOWS:

VALVE TYPE	MANUFACTURER	MODEL NO.
CHECK VALVE (UP TO 2")	NIBCO	#S-22
FULL PORT BALL VALVE (UP TO 3")	NIBCO	#S-PP-600
GATE VALVE (UP TO 3")	NIBCO	#S-113
TEMP. & PRESSURE RELIEF VALVE	WILKINS	#TP1100A
WATER HAMMER ARRESTOR	WILKINS	#1250
BACKFLOW PREVENTER (DEVICE)	WILKINS	#700
VACUUM RELIEF VALVE	WILKINS	#35VCH
PRESSURE REDUCING VALVE	WILKINS	#500YSBR

SUPPLY

IF WATER PRESSURE SUPPLIED TO STORE IS GREATER THAN 40 PSI, PROVIDE A PRESSURE REGULATOR TO MAIN SUPPLY TO MAINTAIN WATER PRESSURE. PROVIDE BACKFLOW PREVENTION ON WATER SERVICE IF REQUIRED BY LOCAL CODES.

TESTING

ALL PIPES SHALL BE TESTED BY AN APPROVED METHOD BEFORE THEY ARE BACKFILLED OR CONCEALED. AFTER TESTING IS COMPLETE, THE PLUMBING CONTRACTOR SHALL DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY. TEST WATER PURITY ACCORDING TO LOCAL REQUIREMENTS AND SUBMIT CERTIFIED TEST RESULTS TO ENGINEER FOR REVIEW AND APPROVAL.

GUARANTEE

MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. FOR THE SAME PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

GENERAL NOTES

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS (DO NOT SCALE FOR LOCATIONS). THE CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM (HVAC) AS INDICATED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS AS INDICATED.
- REMOVE CONNECTING UTILITIES (WATER, DRAINAGE, POWER, GAS, ETC.) AS INDICATED OR NECESSARY FOR FUTURE RECONNECTION IF REQUIRED.
- CONTRACTOR SHALL EMPLOY WORKMEN WHO ARE TRAINED AND EXPERIENCED IN NECESSARY SKILLS TO PERFORM DEMOLITION WORK.
- CONTRACTOR SHALL USE APPROPRIATE TOOLS AND SHALL NOT IMPART EXCESSIVE VIBRATIONS TO THE EXISTING STRUCTURE OR OTHER BUILDING COMPONENTS.
- COORDINATE PIPING WITH EXISTING STRUCTURAL, ELECTRICAL, HVAC, COMMUNICATION, AND FIRE PROTECTION. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS OF TRADES.
- ALL NEW & DEMOLISHED PIPING PENETRATIONS SHALL BE FULLY SEALED WATERTIGHT.
- EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF ASME, ASTM, UL, NEMA, ANSI, ASHRAE, NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD.
- PROVIDE AND INSTALL ALL "P" TRAPS, MANIFOLDS, DRAIN LINES, SHUT-OFFS, GREASE TRAPS & BACKFLOW PREVENTORS AS REQUIRED BY EQUIPMENT AND/OR LOCAL CODES.
- IF WATER PRESSURE AT EQUIPMENT AREA EXCEEDS 40 P.S.I. FLOW PRESSURE, INSTALL A PRESSURE REDUCING VALVE ON BOTH THE MAIN HOT AND COLD WATER SUPPLY LINES.
- LOCATE AND FURNISH ALL AREA FLOOR DRAINS UNLESS OTHERWISE SPECIFIED.
- SEE EQUIPMENT SCHEDULE FOR LISTING OF ALL EQUIPMENT WITH APPROPRIATE SPECIFICATIONS. SCHEDULE WILL INCLUDE ALL RESPONSIBILITIES FOR PROVIDING AND INSTALLING EQUIPMENT.
- THESE PLANS ARE FOR INFORMATION ONLY. INFORMATION ON THIS SHEET IS TO BE REVIEWED BY THE OWNER AND INCORPORATED INTO THE PLANS IN ACCORDANCE WITH LOCAL CODES. THE ENTIRE INSTALLATION SHALL CONFORM WITH THE LATEST EDITION OF THE LOCAL AND STATE PLUMBING CODE IN ADDITION TO LANDLORD REQUIREMENTS AND SPECIFICATIONS.
- THE OWNER SHOULD SUBMIT THESE PLANS TO LOCAL BUILDING, HEALTH AND FIRE DEPARTMENT OFFICIALS FOR APPROVAL.
- CONTRACTORS TO MAKE USE OF ANY CONNECTIONS ALREADY INSTALLED IN EXISTING BUILDING WHENEVER POSSIBLE.
- ALL INDIRECT WASTES EXCEEDING 24" IN LENGTH SHALL BE TRAPPED.
- PROVIDE CLEANOUTS REQUIRED, & AT THE BASE OF ALL STACKS.
- PROVIDE FIXTURE STOPS AT ALL PLUMBING FIXTURES.
- PROVIDE ALL FITTING & ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
- PROVIDE AUTOMATIC BALANCING VALVES IN ALL HWR CIRCUITS.

PIPING INSULATION

WATER PIPING

PROVIDE THERMAL INSULATION ON ALL HOT TEMPERED & COLD WATER, AND HORIZONTAL WASTE PIPING IN CEILING SPACES, AND ON ALL COLD WATER PIPING IN CASEWORK AND BAR AREAS. USE SELF-SEALING CLOSED CELL FOAM OR JACKETED FIBERGLASS INSULATION WITH MANUFACTURE APPROVED ADHESIVES, SEALERS, AND COATINGS. ALL MATERIALS USED SHALL NOT EXCEED 25 FOR FLAME SPREAD, 50 FOR FUEL CONTRIBUTED, OR 50 FOR SMOKE DEVELOPED, UNLESS OTHERWISE REQUIRED BY THE LOCAL AUTHORITY OR ENERGY CODES. THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:

PIPE SIZE	INSULATION
THICKNESS	
LESS THAN OR EQUAL TO 1-1/2"	1"
2" DIA. OR GREATER	1-1/2"

(INSULATION VALUE = K VALUE NOT EXCEEDING 2.027 BTU PER INCH\*FT)

SAFETY COVERS

INSTALL SPECIFIED NO-SCALD SAFETY COVERS WITH INSULATED FOAM LINER AND TAMPER PROOF STRAP AT ALL EXPOSED PIPING.

HVAC PIPING

INSULATE REFRIGERANT SUCTION PIPING AND COOLING COIL. CONDENSATE PIPING 3/4" THICK, SELF SEALING, CLOSED CELL FOAM. INSULATE CONDENSATE PIPING WITH 1-1/2" THICK, HEAVY DUTY, SELF SEALING, JACKETED FIBERGLASS.

COMMERCIAL ENERGY EFFICIENCY

- (C404.3) HEAT TRAPS SHALL BE INSTALLED ON SUPPLY AND DISCHARGE PIPING ON NON-CIRCULATING SYSTEMS.
- (C404.4) ALL PIPING SHALL BE INSULATED IN ACCORDANCE WITH SECTION DETAILS AND TABLE C403.2.10.
- (C404.5, C404.5.1, C404.5.2) HEATED WATER SUPPLY PIPING SHALL CONFORM TO PIPE LENGTH AND VOLUME REQUIREMENTS.
- (C404.6.1) CONTROLS SHALL BE INSTALLED THAT LIMIT THE OPERATION OF A RECIRCULATION PUMP INSTALLED TO MAINTAIN TEMPERATURE OF A STORAGE TANK.
- (C404.6.1, C404.6.2) AUTOMATIC TIME SWITCHES SHALL BE INSTALLED TO AUTOMATICALLY SWITCH OFF THE RECIRCULATING HOT-WATER SYSTEM OR HEAT TRACE.
- (C404.6.3) THE CONTROLS ON PUMPS THAT CIRCULATE WATER BETWEEN A WATER HEATER AND A HEATED-WATER STORAGE TANK SHALL LIMIT OPERATION OF THE PUMP FROM HEATING CYCLE STARTUP TO NOT GREATER THAN 5 MINUTES AFTER THE END OF THE CYCLE.
- (C404.7) A WATER DISTRIBUTION SYSTEM HAVING ONE OR MORE RECIRCULATION PUMPS THAT PUMP WATER FROM A HEATED-WATER SUPPLY PIPE BACK TO THE HEATED-WATER SOURCE THROUGH A COLD-WATER SUPPLY PIPE SHALL BE A DEMAND RECIRCULATION WATER SYSTEM. PUMPS SHALL HAVE CONTROLS THAT COMPLY WITH BOTH OF THE FOLLOWING:
  - THE CONTROL SHALL START THE PUMP UPON RECEIVING A SIGNAL FROM THE ACTION OF A USER OF A FIXTURE OR APPLIANCE, SENSING THE PRESENCE OF A USER OF A FIXTURE OR SENSING THE FLOW OF HOT OR TEMPERED WATER TO A FIXTURE FITTING OR APPLIANCE.
  - THE CONTROL SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD-WATER PIPING TO 104°F (40°C).

PLUMBING LEGEND

\*\*\*NOT ALL SYMBOLS MAY BE USED\*\*

SYMBOL	ABB.	DESCRIPTION
	CW	DOMESTIC COLD WATER
	HW	DOMESTIC HOT WATER
	HWR	DOMESTIC HOT WATER RECIRC.
	S	SANITARY
	CD	CONDENSATE DRAIN
	SD	STORM DRAIN
	V	SANITARY VENT
		UNDERGROUND PIPING
	ID	PIPE TURN DOWN
	ID	PIPE TURN UP
		BALL VALVE
		GATE VALVE
		CHECK VALVE
		BALANCING VALVE
		BUTTERFLY VALVE
		STRAINER
		REDUCER
		ANCHOR
		CAP/PLUG
	CO	CLEANOUT (ABOVE CEILING)
		UNION
	FCO	FLOOR CLEAN OUT
	CTE	CONNECT TO EXISTING
	WCO	WALL CLEAN OUT
	FD	FLOOR DRAIN
	VTR	VENT THRU ROOF
	IE	INVERT ELEVATION
	AFF	ABOVE FINISHED FLOOR
	WH	WATER HEATER
	WC	WATER CLOSET
	BFP	BACKFLOW PREVENTER
	(E)	EXISTING
	(D)	DEMOLISH

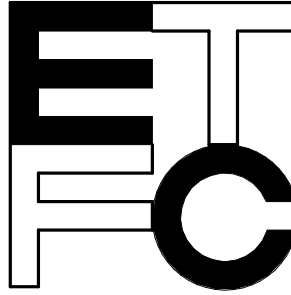
PLUMBING SHEET INDEX

Sheet Number	Sheet Name
P0.1	GENERAL NOTES, SCHEDULES AND LEGEND
P1.1	FLOOR PLAN - PLUMBING
P1.2	ROOF PLAN - PLUMBING
P3.1	RISER DIAGRAMS
P4.1	PLUMBING DETAILS

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GENERAL NOTES,  
SCHEDULES AND  
LEGEND

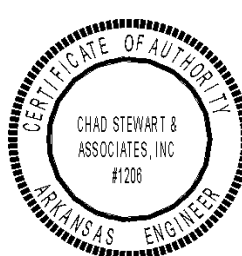
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Date: September 29, 2023

Project Number:

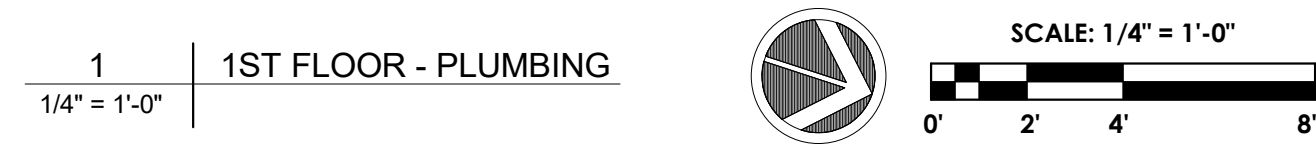
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**PLUMBING DEMO NOTES:**

- 1. DEMOLISH ALL EXISTING PLUMBING FIXTURES AND ASSOCIATED DOMESTIC WATER SUPPLY PIPING, AND SANITARY DRAIN AND VENT PIPING FROM FLOOR GRADE TO CEILING. DEMOLITION SHALL BE CARRIED BELOW THE FINISH FLOOR, FILLED WITH FLOWABLE GROUT, AND ABANDONED IN PLACE.
- 2. EXISTING SYSTEMS SHOWN ON PLAN ARE BASED ON FIELD OBSERVATIONS AND MAY NOT COVER THE ENTIRE EXTENT OF THE WORK. CONTRACTOR SHALL PERFORM A PRE-BID INSPECTION OF THE PLUMBING SYSTEMS TO BE REUSED IN NEW WORK IN ORDER TO PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE MODIFICATION OF THE SYSTEM AND SHALL INCLUDE ALL COSTS FOR A COMPLETE SYSTEM WITH MODIFICATIONS NECESSARY.



FLOOR PLAN -  
PLUMBING

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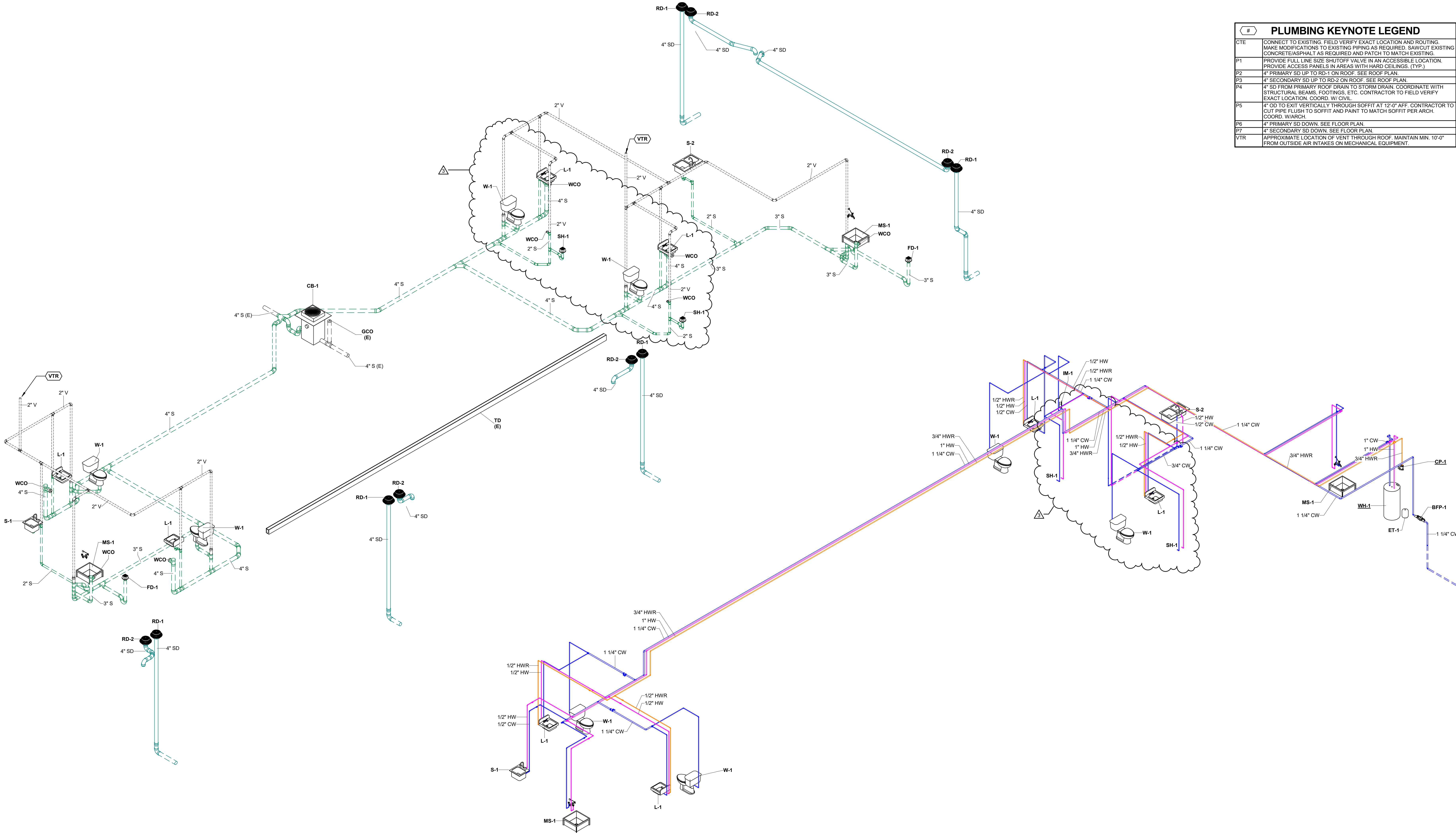
Drawing Number  
**P1.1**

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Date: September 29, 2023	Project Number: 22207
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#	PLUMBING KEYNOTE LEGEND
CTE	CONNECT TO EXISTING. FIELD VERIFY EXACT LOCATION AND ROUTING. MAKE MODIFICATIONS TO EXISTING PIPING AS REQUIRED. SAWCUT EXISTING CONCRETE/ASPHALT AS REQUIRED AND PATCH TO MATCH EXISTING.
P1	PROVIDE FULL LINE SIZE SHUTOFF VALVE IN AN ACCESSIBLE LOCATION. PROVIDE ACCESS PANELS IN AREAS WITH HARD CEILINGS. (TYP.)
P2	4" PRIMARY SD UP TO RD-1 ON ROOF. SEE ROOF PLAN.
P3	4" SECONDARY SD UP TO RD-2 ON ROOF. SEE ROOF PLAN.
P4	4" SD FROM PRIMARY ROOF DRAIN TO STORM DRAIN. COORDINATE WITH STRUCTURAL BEAMS, FOOTINGS, ETC. CONTRACTOR TO FIELD VERIFY EXACT LOCATION. COORD. W/ CIVIL.
P5	4" OD TO EXIT VERTICALLY THROUGH SOFFIT AT 12'-0" AFF. CONTRACTOR TO CUT PIPE FLUSH TO SOFFIT AND PAINT TO MATCH SOFFIT PER ARCH. COORD. W/ARCH.
P6	4" PRIMARY SD DOWN. SEE FLOOR PLAN.
P7	4" SECONDARY SD DOWN. SEE FLOOR PLAN.
VTR	APPROXIMATE LOCATION OF VENT THROUGH ROOF. MAINTAIN MIN. 10'-0" FROM OUTSIDE AIR INTAKES ON MECHANICAL EQUIPMENT.



1 RISER DIAGRAM - DWV

2 RISER DIAGRAM - PLUMBING

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Revisions:		
3.	Addendum #3	03.07.24

Consultants:

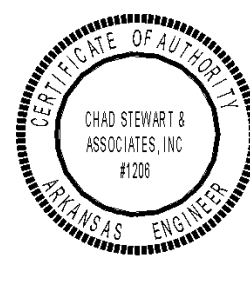


Chad Stewart & Associates, Inc.  
9720 Village Circle  
Phone 901-260-7850  
Memphis, TN 38002  
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Nashville

Marion Fire Station No.1

364 East Military Road  
Marion, Arkansas 72364  
for

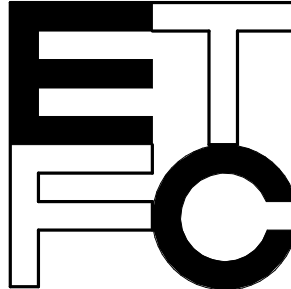
Marion Fire Department



Architecture ■ Interior Design ■ Planning

343 North Main Street  
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RISER DIAGRAMS

Drawing Number:

P3.1

Date: September 29, 2023 Project Number: 22207





1. FIELD VERIFY EXACT MOTOR AND CONTROL LOCATIONS. ELECTRICAL CONTRACTOR RESPONSIBLE FOR CONTROL WIRING.

FIRE ALARM DEVICE SCHEDULE				
Description	Type Mark	Manufacturer	Model	Comments
Control Panel	FACP	Siemens	FS2005	
Duct Smoke Detector	DSA	Siemens	FDB2492-HR	
Fire Alarm Annunciator Panel	FDA	Siemens	FSD901-12/R2	
Flow Switch	FS	Siemens	QVE-1900	
Horn Strobe	15cd 900Ba	Siemens	SLSHWR-F	
Horn Strobe	60cd 900Ba	Siemens	SLSHWR-F	
Manual Pull Station	FM	Siemens	HMS-D	
MONITOR MODULE	MM	SIEMENS	XTRI-S	
Smoke Detector	SD	Siemens	FDC421	
Strobe	15cd	Siemens	SLSHWR-F	
Tamper Switch	TS	Siemens	HTSW-1	

3/7/2024 2:10:08 PM  
Autodesk Docs:/23104 Marion Fire Station #1/MEP 23104 V22.rvt

**Consultants:**  
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Date:	Project Number:
September 29, 2023	22207

Evans Taylor Foster Childress ■ Architects



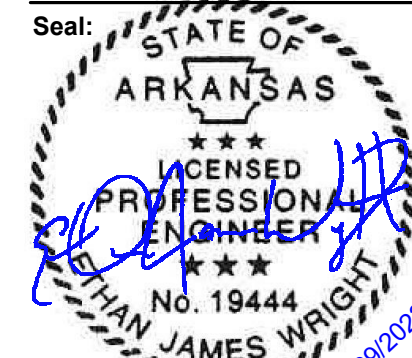
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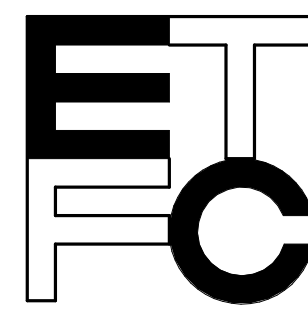
Revisions:	
1.	Addendum#1 02-29-24
3.	Addendum #3 03.07.24

Consultants:  
...

Marion Fire Station No.1  
364 East Military Road  
Marion, Arkansas 72364  
for  
**Marion Fire Department**



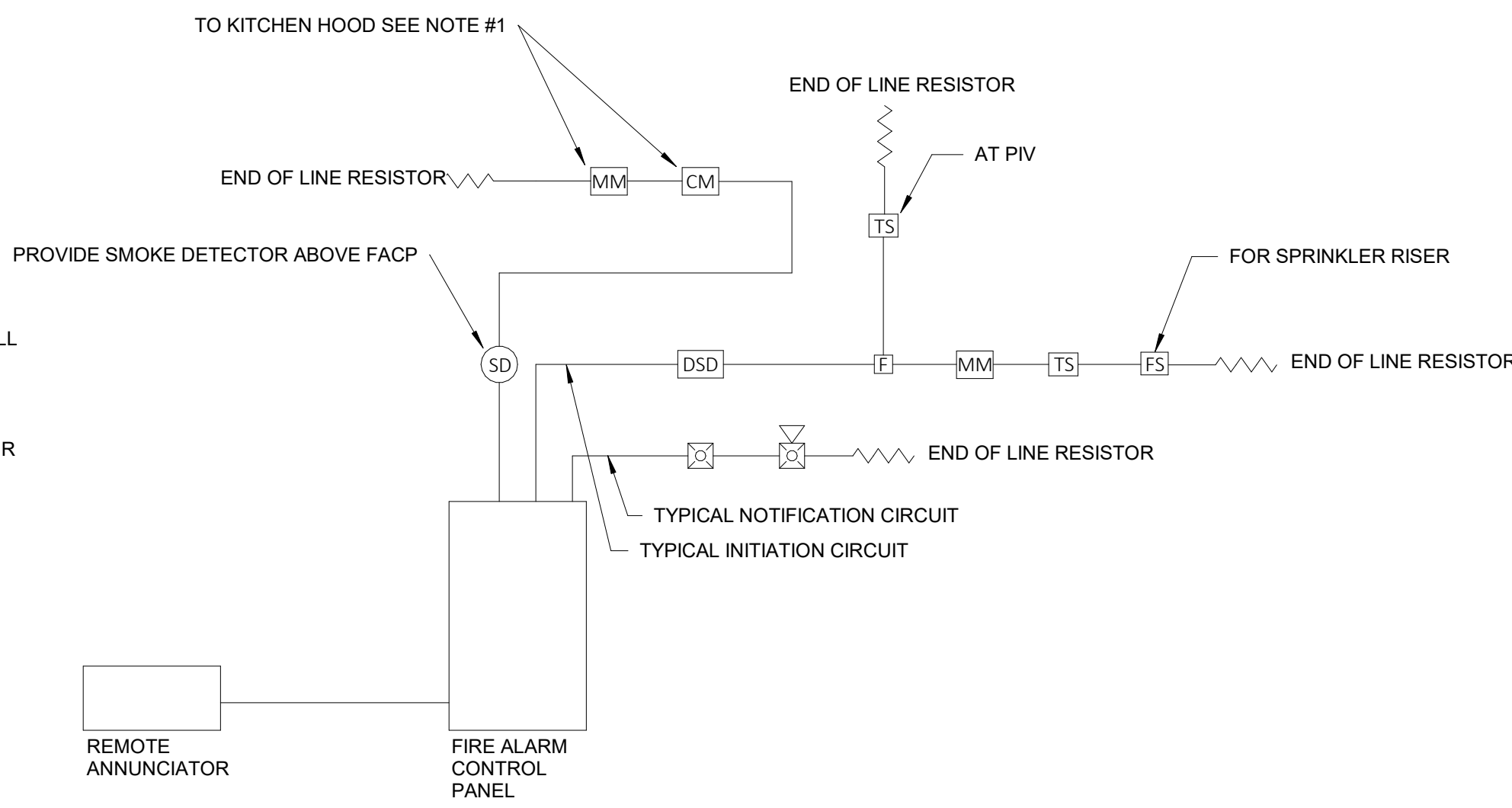
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343 North Main Street  
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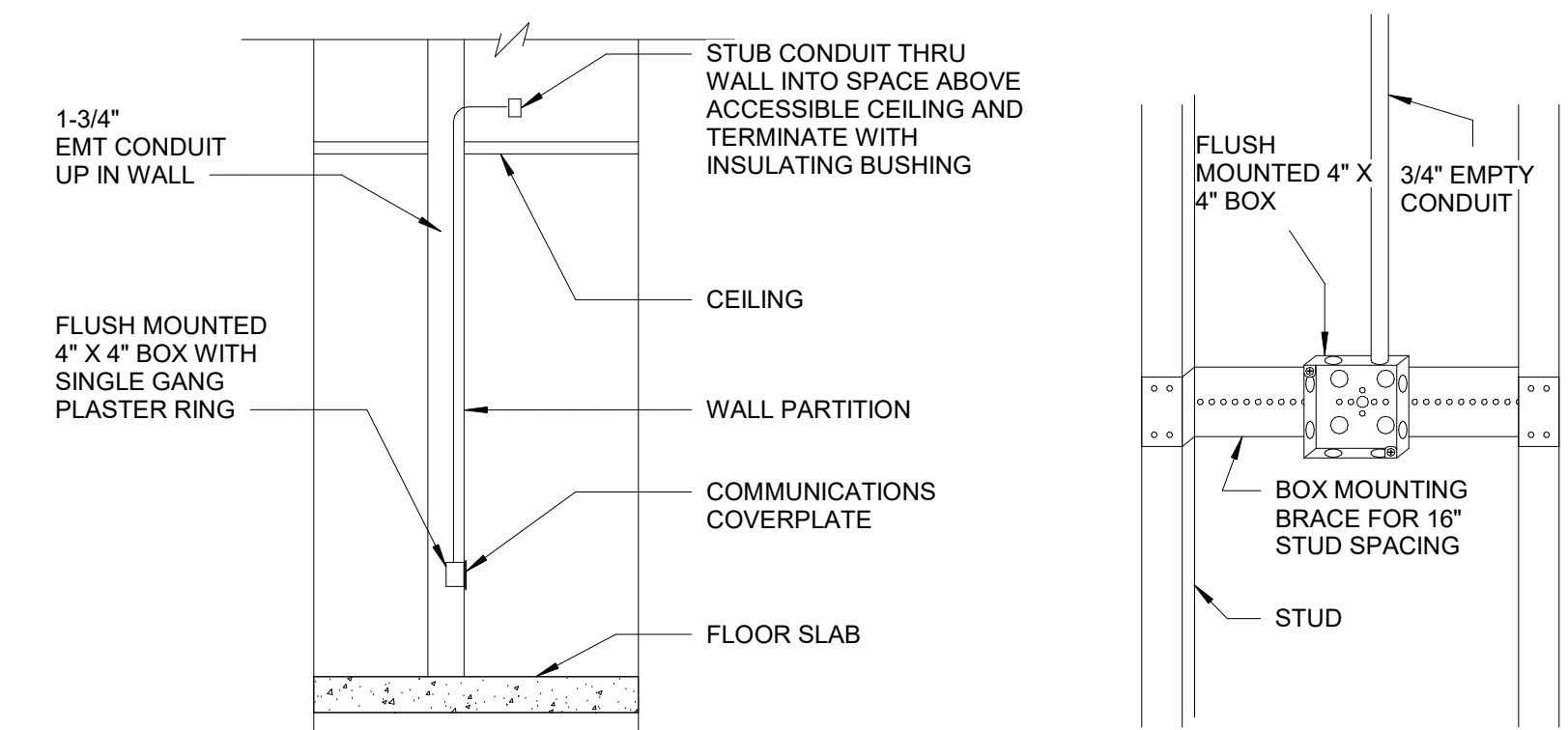
ELECTRICAL DETAILS  
Drawing Number:  
**E3.1**  
Date: September 29, 2023  
Project Number: 22207

#### NOTES:

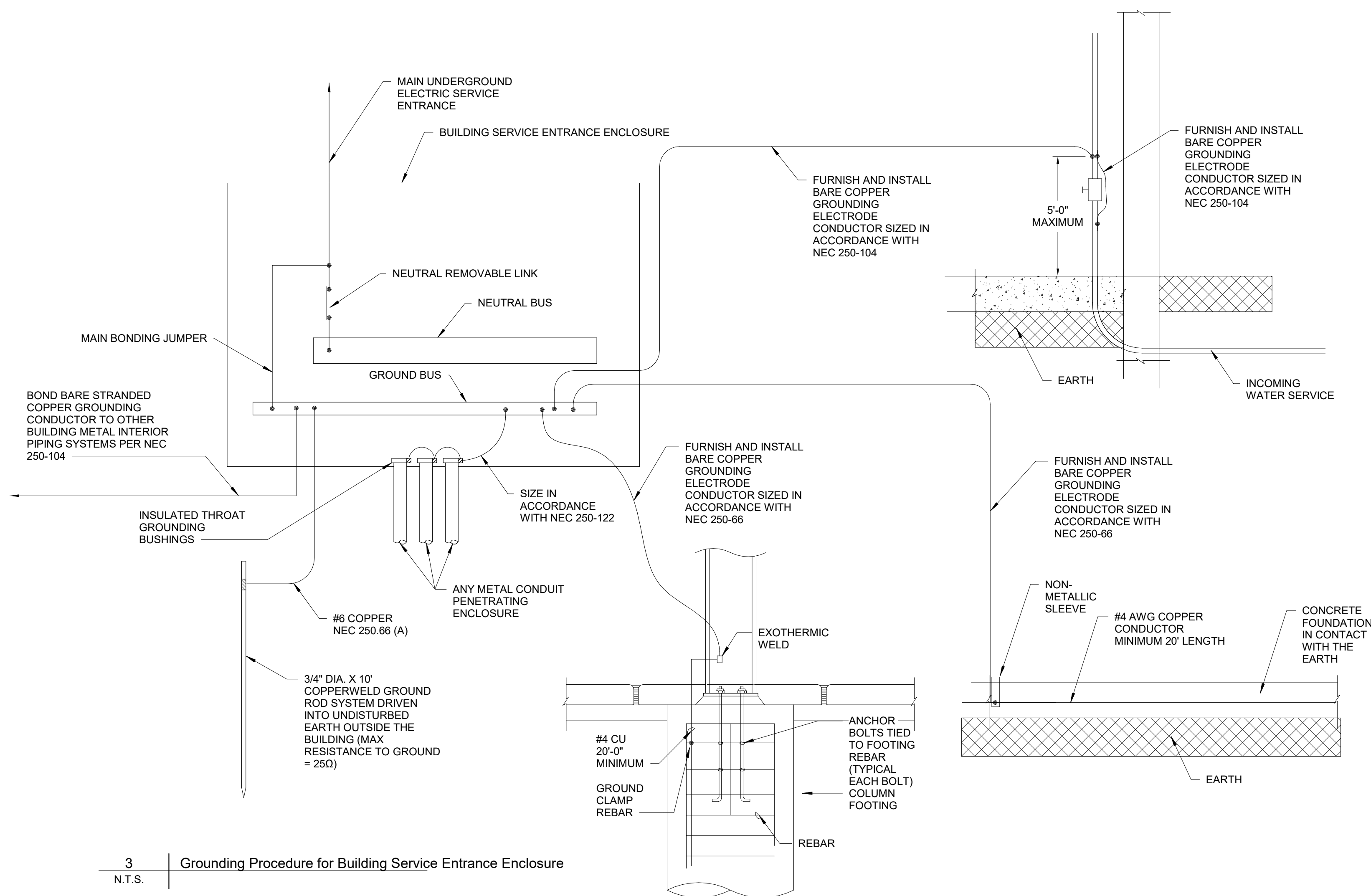
- FURNISH AND INSTALL MONITOR MODULE AT KITCHEN HOOD(S) TO MONITOR HOOD SUPPRESSION SYSTEM. FURNISH AND INSTALL CONTROL MODULE TO SHUNT SUPPLY FAN UPON ACTIVATION OF THE HOOD SUPPRESSION SYSTEM.
- FIRE ALARM DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH NFPA 20 AND ADA.
- THE FIRE ALARM SYSTEM SHALL BE ADDRESSABLE, 24VDC, POWER LIMITED, FULLY SUPERVISED WITH 15 MINUTE ALARM, 24 HOUR STANDBY BATTERY SYSTEM. WHERE REQUIRED, VOICE EVACUATION TO BE PROVIDED WITH PRE-PROGRAMMED MESSAGE AND MANUAL OVERRIDE.
- ACTUATION OF ANY PULL STATION, FLOW SWITCH OR SMOKE DETECTOR SHALL ACTIVATE ALARM.
- NOTE THAT FIRE ALARM PLANS SUBMITTED HEREIN FOR BUILDING PERMIT ARE NOT PART OF THE BUILDING PLANS REVIEW. A SEPARATE SUBMITTAL AND PERMIT IS REQUIRED FOR THE FIRE ALARM AND/OR FIRE SPRINKLER SYSTEM.
- ALL FIRE ALARM SWITCHES, MODULES, AND WIRING SHALL BE PROVIDED BY THE FIRE ALARM SUB-CONTRACTOR. FIRE ALARM SYSTEM SUB-CONTRACTOR SHALL BE RESPONSIBLE TO SUBMIT DETAILED SYSTEM DRAWINGS, CUTSHEETS, WIRING DIAGRAMS, ETC. AS REQUIRED FOR FINAL PERMITTING.
- ALL COMPONENTS NECESSARY FOR CERTIFICATE OF OCCUPANCY SHALL BE INCLUDED IN THE BID. SEE PLANS FOR MINIMUM NUMBER OF DEVICES. COORDINATE WITH LOCAL AHJ FOR ADDITIONAL DEVICES THAT MAY BE REQUIRED.
- THE FIRE ALARM PANEL SHALL BE LOCATED IN AMBIENT CONDITIONS MAINTAINED BETWEEN 32°F AND 104°F, NON-CONDENSING.
- ALL TAMPER AND FLOW SWITCH CONNECTION LOCATIONS TO BE FIELD VERIFIED WITH SPRINKLER SUB-CONTRACTOR AS REQ'D. COORDINATE WITH M.C. TO PROVIDE SHUTDOWN INTERLOCK WIRING TO RESPECTIVE AHU AS REQUIRED.
- CALCULATE THE VOLTAGE DROP FOR ALL NOTIFICATION APPLIANCE CIRCUITS AND PROVIDE WIRING TO LIMIT VOLTAGE DROP TO A VALUE ALLOWING THE RATED OUTPUT OF THE DEVICE.
- FIRE ALARM INITIATION AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE LOADED TO NO MORE THAN 80% OF CAPACITY TO ALLOW FOR FUTURE DEVICE ADDITIONS. WHERE NECESSARY, BOOSTER POWER SUPPLIES ARE TO BE LOADED TO NO MORE THAN 80% CAPACITY.
- TEE TAPING OF NOTIFICATION APPLIANCE CIRCUIT WIRING IS NOT ALLOWED.
- COORDINATE DUAL LINE TELEPHONE CONNECTION FOR UL LISTED CENTRAL STATION MONITORING. ALL ALARM, TROUBLE AND SUPERVISORY CONDITIONS SHALL BE TRANSMITTED TO THE CENTRAL STATION.
- PROVIDE SHUNT INTERLOCK WITH THEATRICAL/PA SOUND SYSTEMS FOR SYSTEM SHUT DOWN UPON FIRE ALARM CONDITION.
- PROVIDE SURGE PROTECTIVE DEVICE ON FACP INCOMING AC POWER (ADJACENT TO OR WITHIN PANEL.) ANY EXTERIOR FIRE ALARM CIRCUITS SHALL BE PROVIDED WITH SURGE PROTECTION AT THE POINT OF ENTRY TO THE BUILDING. ANY EXTERIOR CIRCUITS SHALL BE INSTALLED IN CONDUIT, MINIMUM 18" BELOW GRADE WITH ORANGE WARNING TAPE 6" ABOVE THE CONDUIT.
- VENDOR SHALL FULLY TEST AND CERTIFY THE FIRE ALARM SYSTEM, DOCUMENTING PROPER FUNCTION OF ALL DEVICES, INTERLOCKS, PROGRAMMING AND COMMUNICATIONS PROVIDING A FIRE ALARM SYSTEM RECORD OF COMPLETION AS REQUIRED BY NFPA 72.
- VENDOR SHALL PROVIDE OPERATIONS AND MAINTENANCE PROCEDURES, MANUALS, SYSTEM DOCUMENTATION AND A MINIMUM OF TWO, ONE-HOUR ON-SITE TRAINING SESSIONS FOR SYSTEM OPERATION FOR THE OWNER.



1 | Fire Alarm Riser  
N.T.S.



2 | Communications Outlet Wall Installation  
N.T.S.



3 | Grounding Procedure for Building Service Entrance Enclosure  
N.T.S.

#### NATIONAL ELECTRICAL CODE

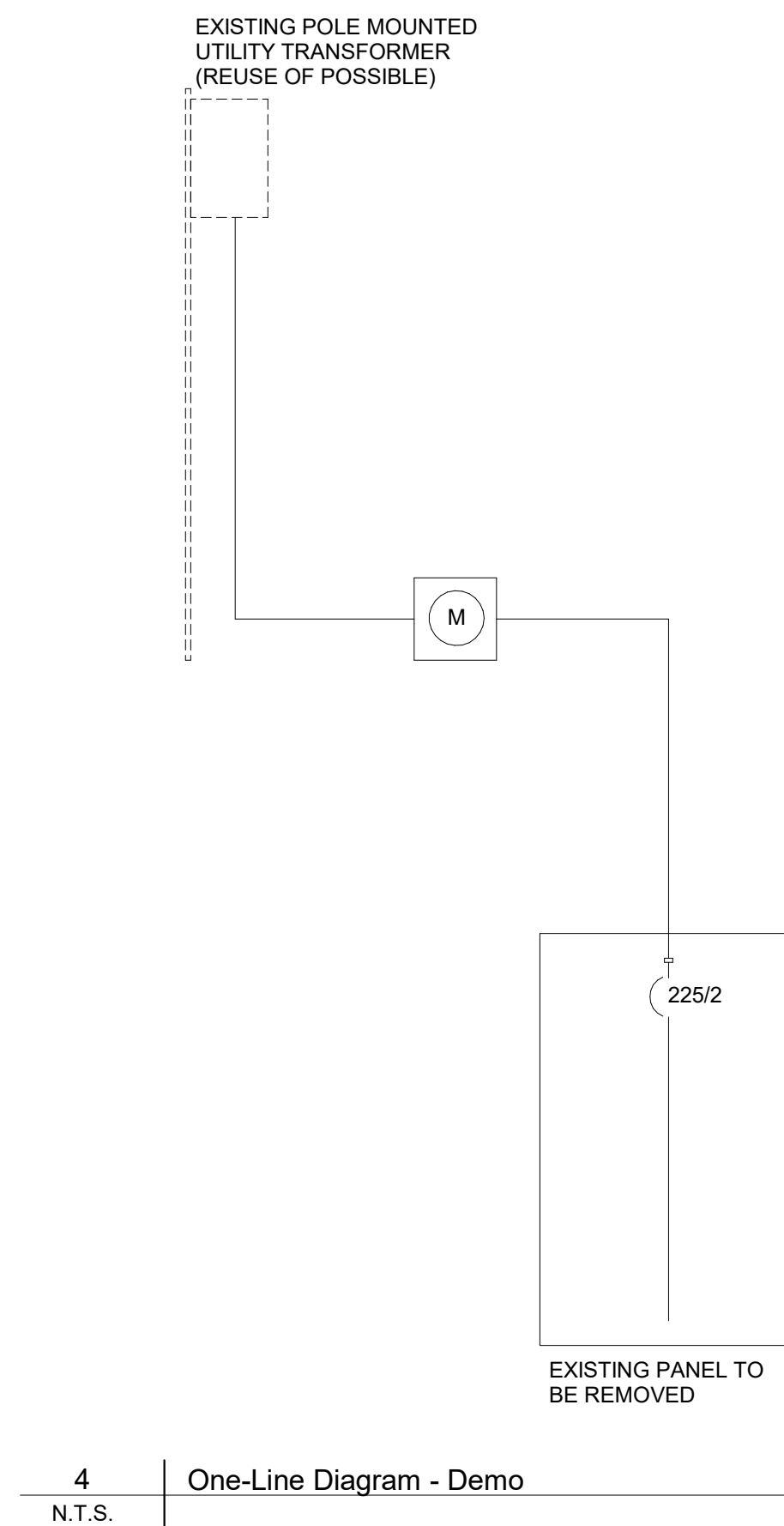
PROVIDE A GROUNDING ELECTRODE SYSTEM AS INDICATED IN 250.50 OF THE 2011 NATIONAL ELECTRICAL CODE.

BOND TOGETHER ALL AVAILABLE ELECTRODES AS LISTED IN 250.52, TO INCLUDE THE FOLLOWING:

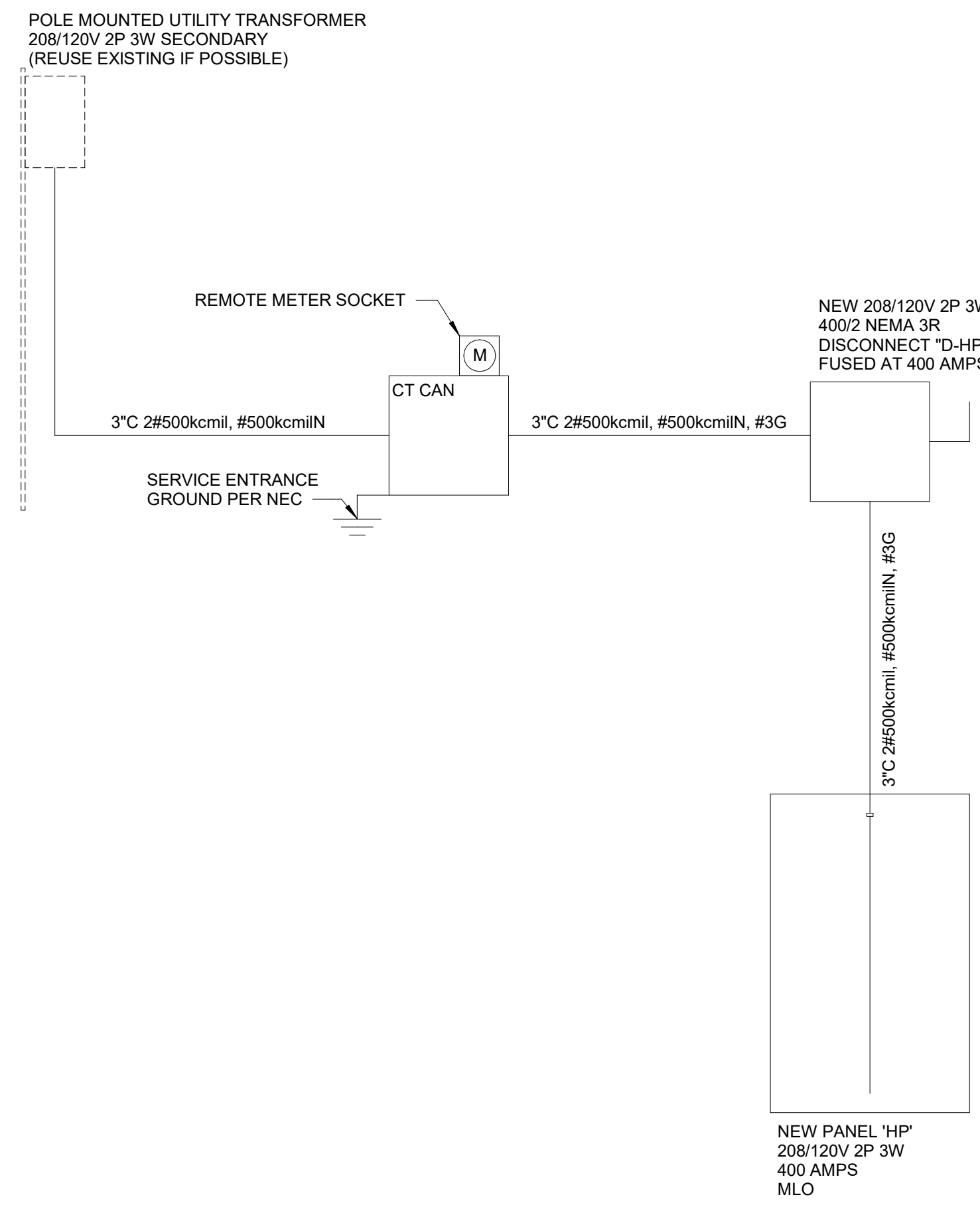
- METAL UNDERGROUND WATER PIPE
- METAL IN-GROUND SUPPORT STRUCTURE(S)
- CONCRETE ENCASED ELECTRODE
- GROUND RING
- ROD AND PIPE ELECTRODES
- OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES
- PLATE ELECTRODES

EXCLUDE THE FOLLOWING SYSTEMS AND MATERIALS NOT PERMITTED FOR USE AS GROUNDING ELECTRODES:

- METAL UNDERGROUND GAS PIPING SYSTEMS
- ALUMINUM
- STRUCTURES AND STRUCTURAL REINFORCING STEEL AS LISTED IN 680.26(B) (1) AND (B) (2)



4 | One-Line Diagram - Demo  
N.T.S.



5 | One-Line Diagram - New  
N.T.S.

#### Branch Panel: HP

Location: Space 25  
Supply From:  
Mounting: Surface  
Enclosure: Type 1

Volts: 120/208 Single  
Phases: 1  
Wires: 3

A.I.C. Rating: 22,000  
Mains Type: MLO  
Mains Rating: 400 A  
MCB Rating: 400 A

#### Notes:

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT
HP:1	Site Lighting	20 A	1	300 VA 4000 VA	1914 VA 4000 VA	2	45 A	WH-1	HP:2
HP:3	CU-1	30 A	2	1914 VA 1914 VA	2964 VA 1914 VA	2	30 A	CU-2	HP:6
HP:5	CU-3	45 A	2	2964 VA 1200 VA	1200 VA 1200 VA	1	20 A	AHU-1	HP:8
HP:7	AHU-2	20 A	1	2860 VA 5720 VA	2860 VA 5720 VA	2	60 A	SCVA	HP:12
HP:9	Drying Cabinet	35 A	2	1123 VA 359 VA	1123 VA	1	20 A	Emergency Inverter	HP:14
HP:11	EW-1	20 A	2	1100 VA 443 VA	443 VA 443 VA	2	20 A	EF-7	HP:16
HP:13	Unit Heaters	20 A	1	443 VA 1425 VA	728 VA 728 VA	1	20 A	Lighting	HP:18
HP:15	EF-8	20 A	2	748 VA 500 VA	621 VA 1080 VA	1	20 A	Receptacle	HP:20
HP:17	Lighting	20 A	1	1080 VA 1080 VA	1220 VA 900 VA	1	20 A	Receptacle	HP:22
HP:19	Lighting	20 A	1	1080 VA 720 VA	180 VA 4000 VA	2	50 A	Range	HP:24
HP:21	Receptacle	20 A	1	1480 VA 1480 VA	1480 VA 1480 VA	2	20 A	Overhead Door	HP:26
HP:23	Overhead Door	20 A	2	1480 VA					HP:28
HP:25	Overhead Door	20 A	2	1480 VA					HP:30
HP:27	Overhead Door	20 A	2	1480 VA					HP:32
HP:29	Overhead Door	20 A	2	1480 VA					HP:34
HP:31	Overhead Door	20 A	2	1480 VA					HP:36
HP:33	Overhead Door	20 A	2	1480 VA					HP:38
HP:35	Overhead Door	20 A	2	1480 VA					HP:40
HP:37	Overhead Door	20 A	2	1480 VA					HP:42
HP:39	Overhead Door	20 A	2	1480 VA					HP:44
HP:41	Overhead Door	20 A	2	1480 VA					HP:46
HP:43	Overhead Door	20 A	2	1480 VA					HP:48
HP:45	Overhead Door	20 A	2	1480 VA					HP:50
HP:47	Overhead Door	20 A	2	1480 VA					HP:52
HP:49	Overhead Door	20 A	2	1480 VA					HP:54
HP:51	Overhead Door	20 A	2	1480 VA					HP:56
HP:53	Overhead Door	20 A	2	1480 VA					HP:58
HP:55	Overhead Door	20 A	2	1480 VA					HP:60
HP:57	Overhead Door	20 A	2	1480 VA					HP:62
HP:59	Overhead Door	20 A	2	1480 VA					HP:64
HP:61	Overhead Door	20 A	2	1480 VA					HP:66
HP:63	Overhead Door	20 A	2	1480 VA					HP:68
HP:65	Overhead Door	20 A	2	1480 VA					HP:70
HP:67	Overhead Door	20 A	2	1480 VA					HP:72
HP:69	Overhead Door	20 A	2	1480 VA					HP:74
HP:71	Overhead Door	20 A	2	1480 VA					HP:76
HP:73	Overhead Door	20 A	2	1480 VA					HP:78
HP:75	Overhead Door	20 A	2	1480 VA					HP:80
HP:77	Overhead Door	20 A	2	1480 VA					HP:82
HP:79	Overhead Door	20 A	2	1480 VA					HP:84
HP:81	Overhead Door	20 A	2	1480 VA					
HP:83	Overhead Door	20 A	2	1480 VA					
Total Load:		39953 VA		37678 VA					
Total Amps:		381 A		362 A					

#### Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	13584 VA	100.00%	13584 VA	
Heating	10246 VA	100.00%	10246 VA	
Motor	13052 VA	105.67%	13792 VA	
Other	534 VA	100.00%	534 VA	
Receptacle	18980 VA	76.34%	14490 VA	
Power	17619 VA	100.00%	17619 VA	
Lighting	3616 VA	100.00%	3616 VA	
Total Conn. Load:				77631 VA
Total Est. Demand:				73881 VA
Total Conn.: 373 A				
Total Est. Demand: 355 A				
Total Adjusted Est. Load: 73881 VA				
Total Adjusted Demand: 355 A				

#### Notes: