

# OUR LADY OF MERCY ACADEMY LEADERSHIP CENTER

## BID SET II - CONSTRUCTION DOCUMENTS 2.5.2024

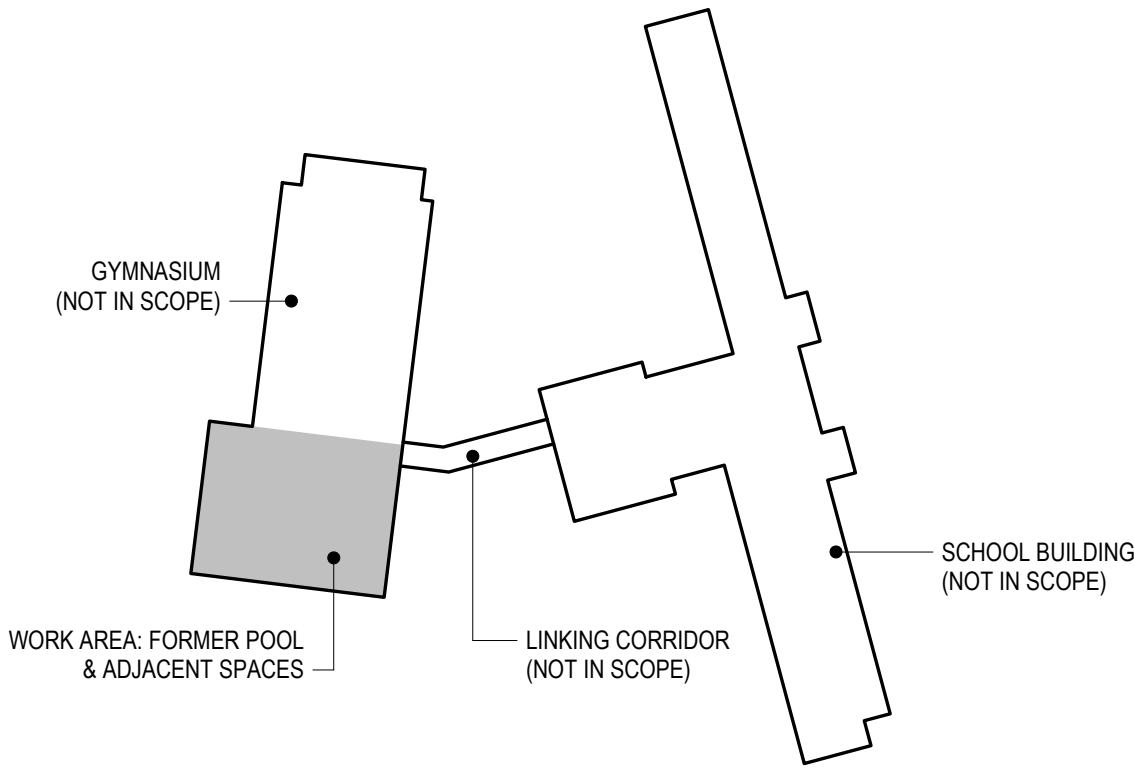
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KEY PLAN (NTS):

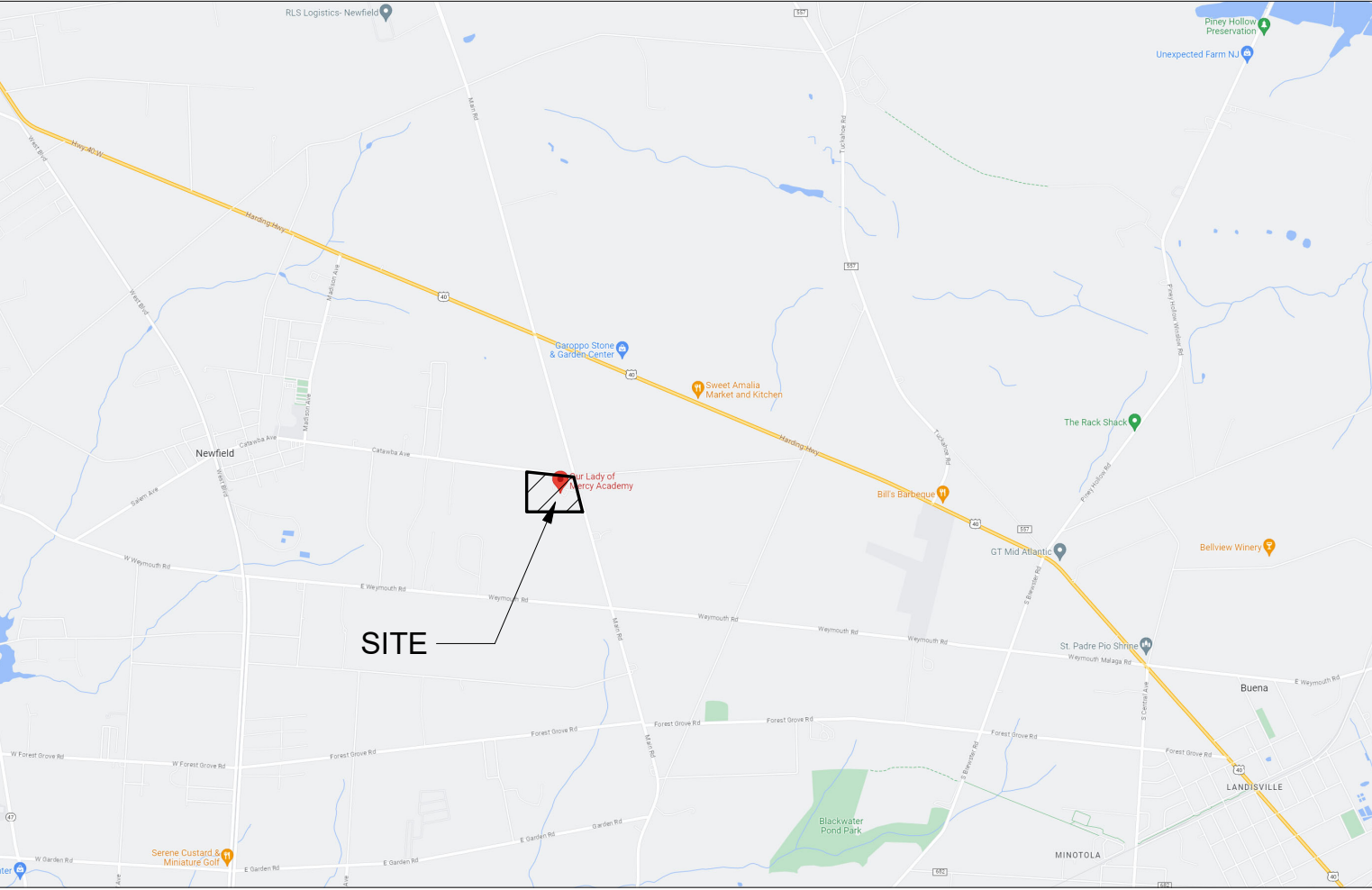


PLAN EXAMINER STAMP AREA:

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FA0.1	FIRE ALARM GENERAL NOTES & SYMBOL LIST
FA1.0	FIRST & SECOND FLOOR FIRE ALARM PLANS
FA3.0	FIRE ALARM RISER DIAGRAM AND MATRIX



PROJECT LOCATION  
**Our Lady of Mercy Academy**  
1001 Main Road, Newfield, New Jersey 08344

SEAL:

OUR LADY OF  
MERCY ACADEMY  
LEADERSHIP  
CENTER

Design Team:

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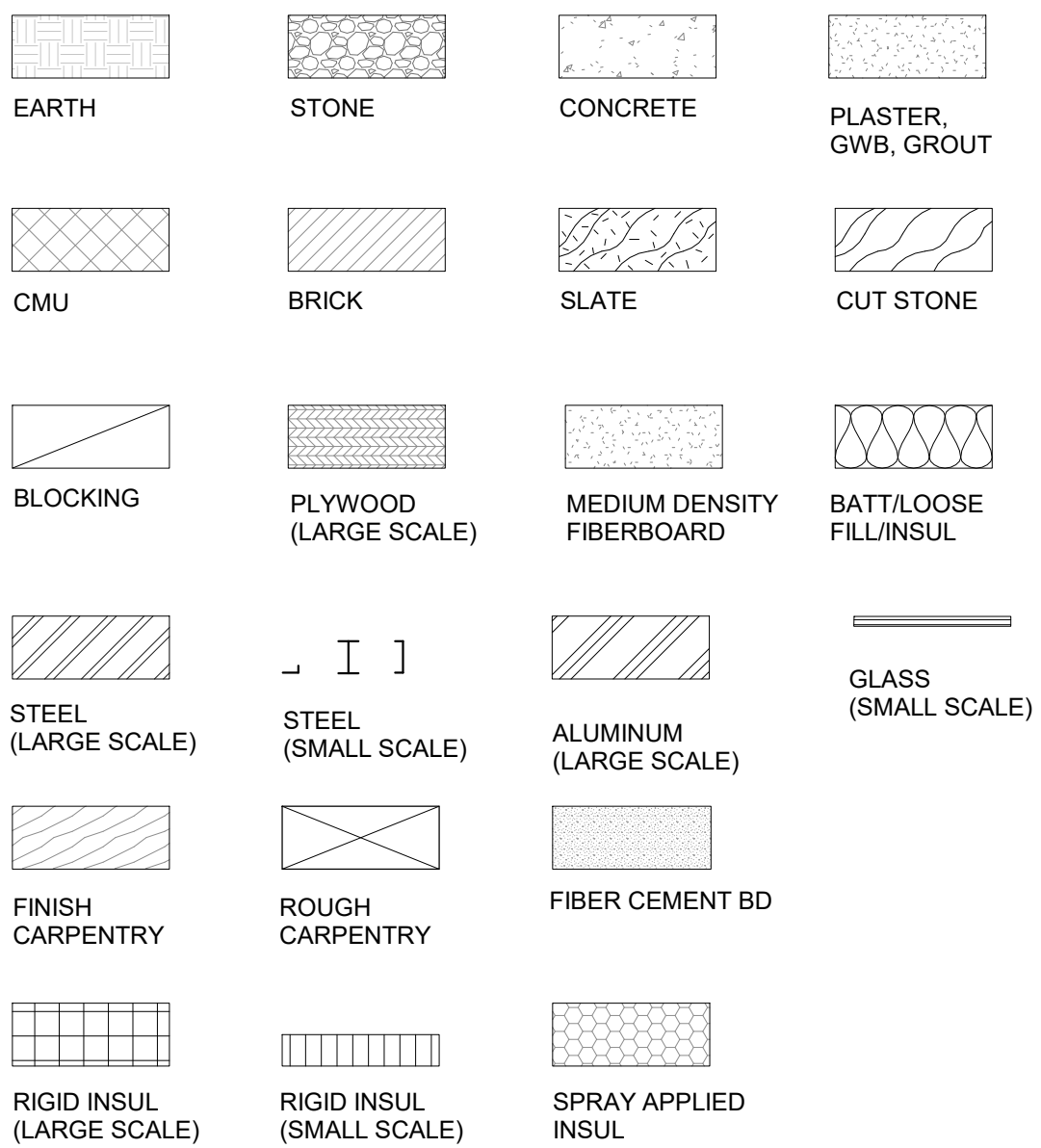
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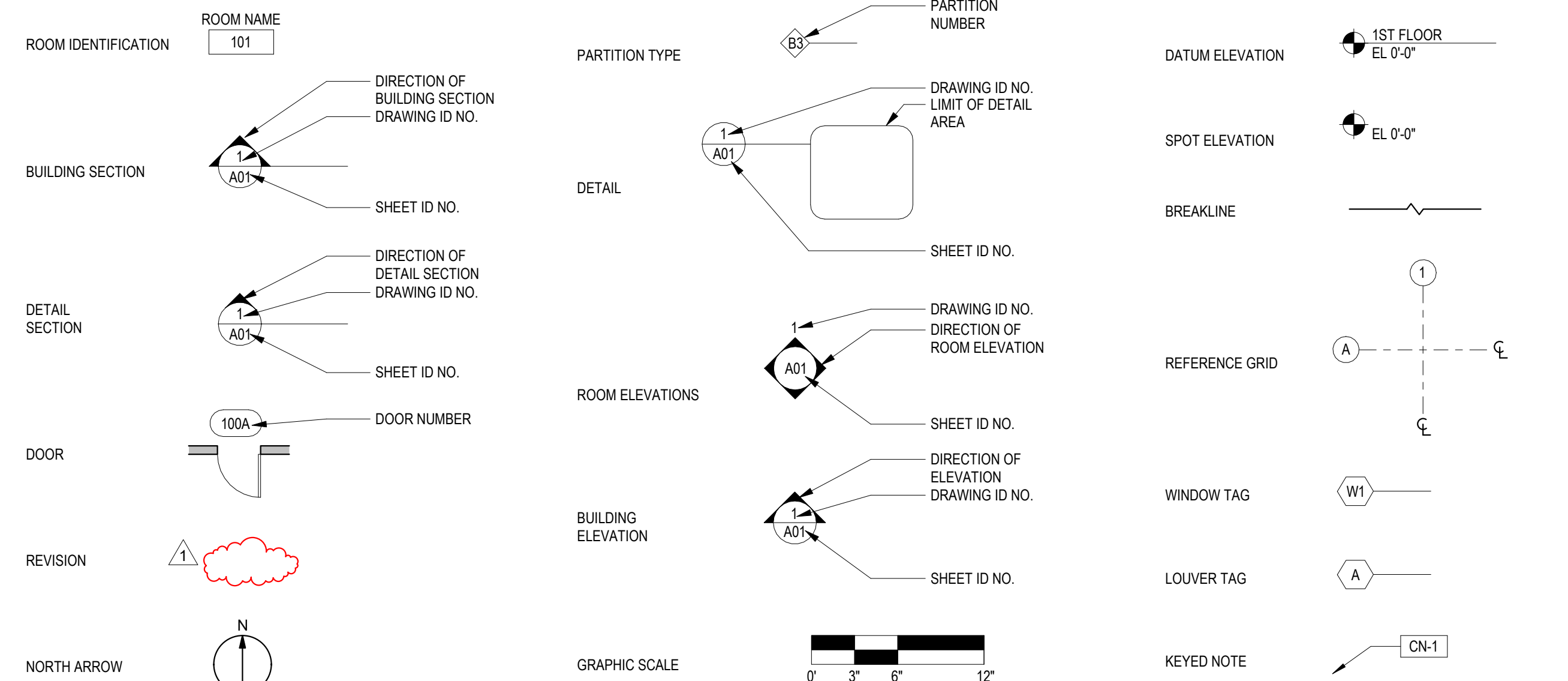
GENERAL NOTES:

- DO NOT SCALE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, CODES AND ORDINANCES.
- THE CONTRACTOR SHALL CONFIRM, LOCATE AND COORDINATE WORK WITH HIDDEN MECHANICAL, PLUMBING AND ELECTRICAL CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING BUILDING, SITE AND EQUIPMENT DURING CONSTRUCTION, INCLUDING DAMAGE FROM THE ELEMENTS. THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE EXISTING BUILDING DURING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE IMMEDIATELY AND TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS ON THE JOB SITE. IF EXISTING CONDITIONS DO NOT PERMIT INSTALLATION OF WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT AND PROVIDE A SKETCH OF THE CONDITION.
- DIMENSIONS ARE TO FINISH FACE OF WALL UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL COORDINATE LOCATION AND SIZE OF ALL OPENINGS WITH ALL TRADES PRIOR TO INSTALLATION.
- DETAILS SHOWN ARE INTENDED FOR SPECIFIC LOCATIONS AND CONDITIONS. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT SIMILAR CONDITIONS AND SHALL BE CONSIDERED PART OF THE WORK.
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS AS BEING NIC, ALL ITEMS, MATERIALS, ETC. AND INSTALLATION OF SAME ARE A PART OF THE CONTRACT WORK.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL SLEEVING WORK, UNO, COORDINATE LOCATION AND SIZE OF ALL OPENINGS, INTERIOR AND/OR EXTERIOR WITH ALL TRADES PRIOR TO INSTALLATION.

MATERIAL SYMBOLS:



REFERENCE SYMBOLS:



ABBREVIATIONS:

<b>A</b> A/E AB ABV ACT ADJ AFF AGG ALCW AL(ALUM) ALSF ALW ANOD AP APPROX ARCH	ARCHITECT/ENGINEER ANCHOR BOLT ABOVE ACOUSTIC CEILING TILE ADJACENT/ADJUSTABLE ABOVE FINISH FLOOR AGGREGATE ALUMINUM CURTAINWALL ALUMINUM ALUMINUM STOREFRONT ALUMINUM WINDOW ANODIZED ACCESS PANEL APPROXIMATE ARCHITECTURAL	<b>F</b> FA FCB FCU FD FEC FF FFE FIN FLG FLR FND F.O. FP FT FTG FTR	FIRE ALARM FIBER CEMENT BOARD FAN COIL UNIT FLOOR DRAIN FIRE EXTINGUISHER CABINET FACTORY FINISH FINISHED FLOOR ELEVATION FINISH(ED) FLASHING FLOOR(ING) FOUNDATION FACE OF FILLER PANEL FOOT (FEET) FOOTING FIN TUBE RADIATOR	<b>P</b> PAC PERF PLAM PLAS PNL PNLG PNT POL PROJ P.T PT PTN PWD PV	PRECAST ARCHITECTURAL CONCRETE PERFORATED PLASTIC LAMINATE PLASTER PANEL PANELING PAINT(ED) POLISHED PROJECTION PRESSURE TREATED PORCELAIN TILE PARTITION PLYWOOD PIPE VENT
<b>B</b> B&B BCAB BD BLDG BLKG BLW B.O. BC BM BRK BTW	BOARD AND BATTEN BASE CABINET BOARD BUILDING BLOCKING BELOW BOTTOM OF BROADLOOM CARPET BEAM BRICK BETWEEN	<b>G</b> GA GALV GF GLAZ GRG GWB	GAUGE GALVANIZED GROUND FACE GLAZED, GLAZING, GLASS GLASS REINFORCED GYPSUM GYPSUM WALLBOARD	<b>R</b> RA RAD RB RBT RCP RD REF REQD REV RSF RT RM R.O. RTF RWC	RETURN AIR RADIUS RUBBER BASE RUBBER STAIR TREAD REFLECTED CEILING PLAN ROOF DRAIN REFER: REFERENCE REQUIRED REVISION, REVISE(D) RESILIENT FLOORING RESILIENT TILE FLOORING ROOM ROUGH OPENING RESILIENT RUBBER TILE FLOORING RAINWATER CONDUCTOR
<b>C</b> CAB CB CERT CFMF CJ CL CLG CLR CMU COL COMP CONC CONT COORD COR CPT CT CUH CW	CABINET CEMENTBOARD CERTIFIED COLD FORMED METAL FRAMING CONSTRUCTION/CONTROL JOINT CENTERLINE CEILING CLEAR/ CLEARANCE CONCRETE MASONRY UNIT COLUMN COMPOSITE CONCRETE CONTINUOUS COORDINATE CORRUGATED CARPET TILE CERAMIC TILE CABINET UNIT HEATER CURTAINWALL	<b>H</b> HDPE HM HOR HR HRWD HSS HT HVAC HWH	HIGH DENSITY POLYETHYLENE HOLLOW METAL HORIZONTAL HOUR HARDWOOD HOLLOW STEEL SECTION HEIGHT HEAVING/VENTILATION/AIR CONDITIONING HOT WATER HEATER	<b>S</b> S SA SBC SBO SFI SGT SIM SIP SL SOG SSTL STD STL STN STRUC SUSP	SOUTH SUPPLY AIR SINK BASE CABINET SUPPLIED BY OTHERS SPRAY FOAM INSULATION STRUCTURAL GLAZED TILE SIMILAR STRUCTURAL INSULATED PANEL SLOPED/SLOPE SLAB ON GRADE STAINLESS STEEL STANDARD STEEL STAIN(ED) STRUCTURAL SUSPENDED
<b>D</b> DEMO DIA DIM DN DR DS DTL DWG(S)	DEMOLISH/DEMOLITION DIAMETER DIMENSION DOWN DOOR DOWNSPOUT DETAIL DRAWING(S)	<b>I</b> IGU INCL INFORM INSUL INT	INSULATED GLAZING UNIT INCLUDING/INCLUDED INFORMATION INSULATED, INSULATION INTERIOR	<b>T</b> TER TF THK TLT TPTN T.O. TYP T&G	TERRAZZO TRANSPARENT FINISH THICKNESS TOILET TOILET PARTITION TOP OF TYPICAL TONGUE AND GROOVE
<b>E</b> E EA EJ EL ELEC ELEV EMER EP EPX EQ EQPM ES ETR EWC EXP EXG EXT	EAST EACH EXPANSION JOINT ELEVATION ELECTRICAL ELEVATOR EMERGENCY ELECTRICAL PANEL EPOXY EQUAL EQUIPMENT EXPOSED STRUCTURE EXISTING TO REMAIN ELECTRIC WATER COOLER EXPOSED EXISTING EXTERIOR	<b>M</b> MAS MAS DIM MATL MAX MDF MECH MFR MIN M.O. MR MTD MTL MULL	MASONRY MASONRY DIMENSION MATERIAL MAXIMUM MEDIUM DENSITY FIBERBOARD MECHANICAL MANUFACTURER MINIMUM MASONRY OPENING MOISTURE RESISTANT MOUNTED METAL MULLION	<b>U</b> UNO	UNLESS NOTED OTHERWISE
<b>N</b> N NA NAT NIC NOM NTS	NORTH NOT APPLICABLE NATURAL NOT IN CONTRACT NOMINAL NOT TO SCALE	<b>O</b> OC OFE OH OPP OPG OSB OTLN	ON CENTER OWNER FURNISHED EQUIPMENT OPPOSITE HAND OPPOSITE OPENING ORIENTED STRAND BOARD OUTLINE	<b>V</b> VAR VERT VEST VIF VTR	VARIES/VARIOUS VERTICAL VESTIBULE VERIFY IN FIELD VENT THROUGH ROOF
<b>W</b> W W/ W/O WB WC WCAB WD WDP WF WIN WOM WSCT	WEST WITH WITHOUT WALL BASE WATER CLOSET WALL CABINET WOOD WOOD PANEL WIDE FLANGE WINDOW WALK OFF MAT WAINSCOT	<b>X</b> XPS	EXTRUDED POLYSTYRENE		

No.	Date	Revisions

Seal:

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2.5.2024

Drawing Set:

BID SET II - CONSTRUCTION  
DOCUMENTS

Drawing Title:

GENERAL NOTES,  
ABBREVIATIONS, MATERIALS,  
REFERENCE SYMBOLS

Drawing Number:

A0.1



PROJECT INFORMATION:  
OLMA LEADERSHIP CENTER  
OUR LADY OF MERCY ACADEMY  
1001 MAIN ROAD, NEWFIELD, NEW JERSEY 08344

CODES REFERENCED:  
NEW JERSEY ADMINISTRATIVE CODE TITLE 5, CHAPTER 23, SUBCHAPTER 6: REHABILITATION SUBCODE  
NEW JERSEY BUILDING CODE 2021 (IBC 2021)  
NEW JERSEY ACCESSIBILITY CODE 2017 (A117.1, 2017)  
NEW JERSEY FIRE CODE 2016 (IFC 2015)  
NEW JERSEY PLUMBING CODE 2021 (NSPC 2021)  
NEW JERSEY ENERGY CODE 2021 (IECC 2021)

CODE SUMMARY (ALL REFERENCES TO IBC UNO):

NJAC: CLASSIFICATION OF WORK  
PROPOSED WORK IS **ALTERATION** (5:23-6.3)  
TOTAL WORK AREA: **10,836SF**

CHAPTER 3: OCCUPANCY CLASSIFICATION & USE  
**NO PROPOSED CHANGES TO OCCUPANCY**  
CLASSIFICATION & USE: **EDUCATIONAL GROUP E**

CHAPTER 5: GENERAL BUILDING HEIGHTS & AREAS  
**NO PROPOSED CHANGES TO HEIGHT OR AREA**  
505.2.1 MEZZANINES AREA LIMITATION  
MEZZANINE AREA SHALL NOT BE GREATER THAN ONE-THIRD OF THE FLOOR AREA OF THAT ROOM OR SPACE IN WHICH THEY ARE LOCATED.  
MEZZANINE AREA: 1,144SF (TOTAL)  
MULTIPURPOSE ROOM AREA: 3,600SF  
MEZZ AREA = 31%  
505.2.3 MEZZANINE OPENNESS  
MEZZANINE SHALL BE OPEN AND UNOBSTRUCTED TO THE ROOM.  
EXCEPTION 2: A MEZZANINE HAVING (2) OR MORE EXITS OR ACCESS TO EXITS IS NOT REQUIRED TO BE OPEN TO THE ROOM IN WHICH THE MEZZANINE IS LOCATED.

CHAPTER 6: TYPES OF CONSTRUCTION  
CONSTRUCTION TYPE: **II-B, NON-COMBUSTIBLE, UN-SPRINKLERED**  
ALLOWABLE BUILDING HEIGHT: 55'  
**ACTUAL BUILDING HEIGHT: 26'**  
ALLOWABLE STORIES: 2  
**ACTUAL STORIES: 2**  
ALLOWABLE AREA: 14,500SF + FRONTAGE INCREASE  
FRONTAGE INCREASE CALCULATION:  
Aa = At + (Ns x If)  
WHERE: Aa=AREA PER STORY ALLOWED; At=AREA LISTED IN TABLE 506.2; Ns=AREA LISTED IN TABLE 506.2 UNDER ROW NS; If=FRONTAGE INCREASE FACTOR AS LISTED IN TABLE 506.3.3  
Aa = 14500 + (14500 x .5) = 21,750SF PER FLOOR  
**ACTUAL AREA: 19,322SF 1ST FLR; 5,402SF 2ND FLR**

FIRE RESISTANCE RATINGS (TABLE 601)  
PRIMARY STRUCTURAL FRAME 0 HOURS  
BEARING WALLS 0 HOURS  
NON BEARING WALLS 0 HOURS  
FLOOR CONSTRUCTION 0 HOURS  
ROOF CONSTRUCTION 0 HOURS

CHAPTER 7: FIRE AND SMOKE PROTECTION FEATURES  
706.4 FIRE WALL RATING 3 HOURS  
707.3.10 FIRE BARRIER RATING 2 HOURS  
708.3 FIRE PARTITION RATING 1 HOUR  
713.4 SHAFT RATINGS 1 HOUR

CHAPTER 8: INTERIOR FINISHES  
INTERIOR WALL & CEILING FINISHES BASED ON OCCUPANCY (TABLE 803.13, OCCUPANCY GROUP A-3 GOVERNS)  
INTERIOR EXIT STAIRWAYS / EXIT PASSAGEWAYS  
CORRIDORS/ENCLOSURE FOR EXIT ACCESS STAIRWAYS  
ROOMS AND ENCLOSED SPACES

CHAPTER 9: FIRE PROTECTION AND LIFE SAFETY SYSTEMS  
**BUILDING IS UNSPRINKLERED.**  
906 PORTABLE FIRE EXTINGUISHERS  
906.1 WHERE REQUIRED, EXCEPTION 2:  
EACH CLASSROOM TO BE PROVIDED WITH A PORTABLE FIRE EXTINGUISHER HAVING A MINIMUM RATING OF 2-A:20-B.C.

CHAPTER 10: MEANS OF EGRESS  
OCCUPANT LOAD: **SEE TABLES BELOW**  
SPACES WITH ONE EXIT (TABLE 1006.2.1)  
OCCUPANCY E  
MAX OCCUPANCY: **49 PERSONS**  
MAX COMMON PATH OF TRAVEL: **75'**  
EXIT AND EXIT ACCESS DOORWAY CONFIGURATION (1007)  
EXITS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM  
EGRESS THROUGH INTERVENING SPACES (1016.2)  
EGRESS MAY PASS THROUGH SPACES WHICH ARE ACCESSORY TO ONE ANOTHER  
AN EXIT ACCESS SHALL NOT PASS THROUGH A ROOM THAT CAN BE LOCKED TO PREVENT EGRESS  
EXIT ACCESS DISTANCE (TABLE 1017.2)  
MAX TRAVEL DISTANCE **200'** (OCCUPANCY E, UNSPRINKLERED)  
CORRIDOR FIRE-RESISTANCE RATING (TABLE 1020.2)  
**1 HOUR** (GROUP E, UNSPRINKLERED)  
DEAD-END CORRIDORS (1020.4)  
**20' MAX ALLOWED; ACTUAL: 0'** (NO DEAD-END CORRIDORS IN PROJECT)

PLUMBING FIXTURE COUNTS & CODE SUMMARY (ALL REFERENCES TO NJ PLUMBING CODE):

**PLUMBING FIXTURE OCCUPANT LOAD:** **310**  
(TWO-THIRDS OF LIFE SAFETY OCCUPANT LOAD, PER 7.21.2, b.)  
MENS PLUMBING FIXTURE OCCUPANT LOAD: 25% **78**  
WOMENS PLUMBING FIXTURE OCCUPANT LOAD: 75% **233**

**PLUMBING FIXTURE COUNTS (TABLE 7.21.1)**  
MENS WATER CLOSET COUNT **3\***  
WOMENS WATER CLOSET COUNT **6**  
MENS LAVATORY COUNT **3\***  
WOMENS LAVATORY COUNT **6**  
SERVICE SINKS PER FLOOR **1\*\***  
DRINKING FOUNTAINS **3**

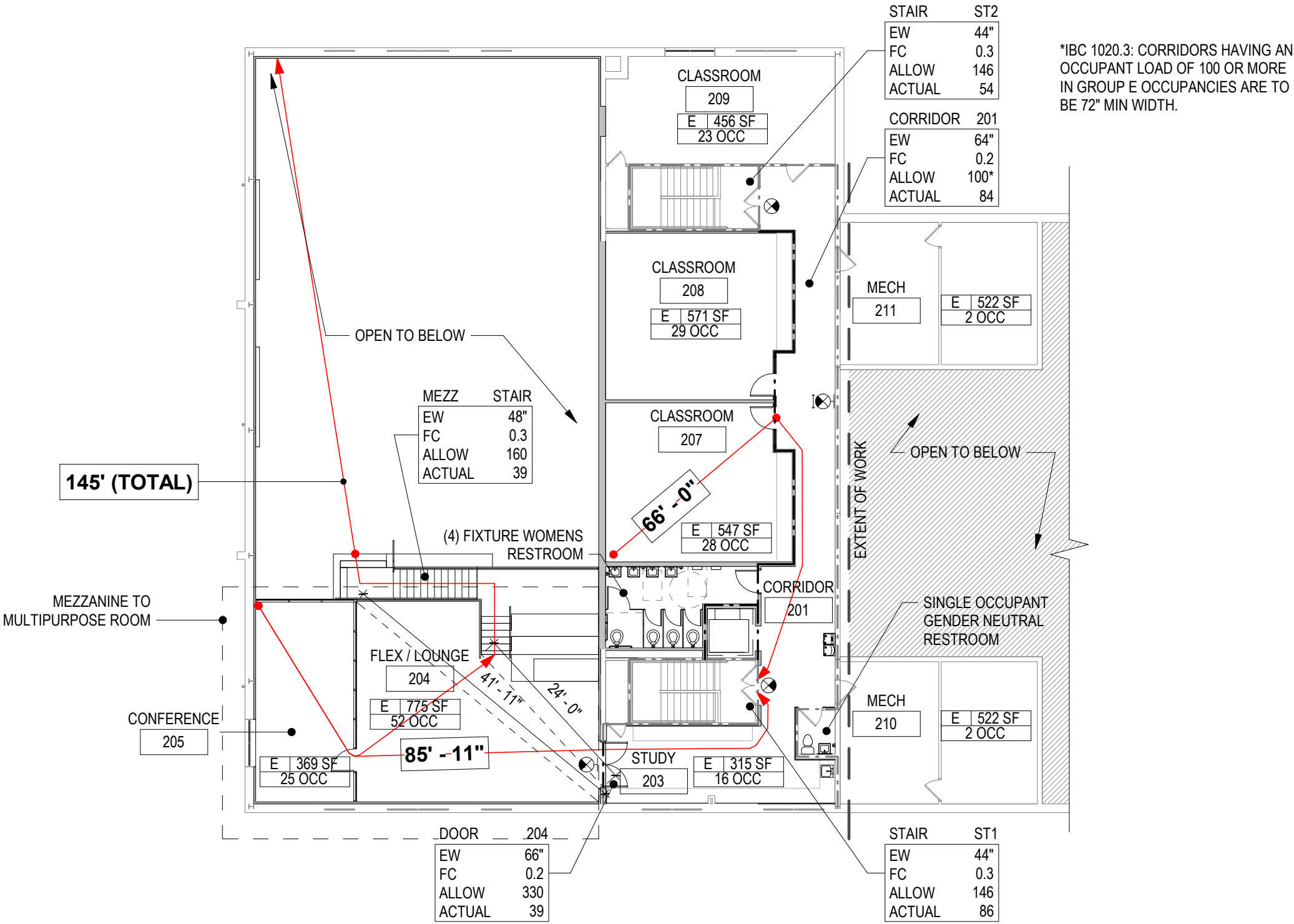
\* MENS COUNT INCLUDES (3) GENDER NEUTRAL SINGLE OCCUPANT RESTROOMS.  
\*\* TABLE 7.21.1 NOTE (21): SERVICE SINKS SHALL BE PERMITTED TO SERVE TWO ADJACENT FLOORS (ONE ABOVE AND ONE BELOW) WHERE THERE IS SERVICE ELEVATOR ACCESS.

NOTES:  
1. PLUMBING FIXTURE CALCULATIONS ONLY ACCOUNT FOR WORK AREA. EXISTING GYMNASIUM IS SERVICED BY EXISTING RESTROOMS TO REMAIN.  
2. PLUMBING FIXTURE CALCULATIONS ACCOUNT FOR FIXTURES OVER BOTH FLOORS, AS ALLOWED PER 7.21.3:  
A. ACCESS TO FIXTURES, AS IN MULTI-STORY BUILDINGS, ACCESSIBILITY TO THE REQUIRED FIXTURES SHALL NOT EXCEED ONE STORY.

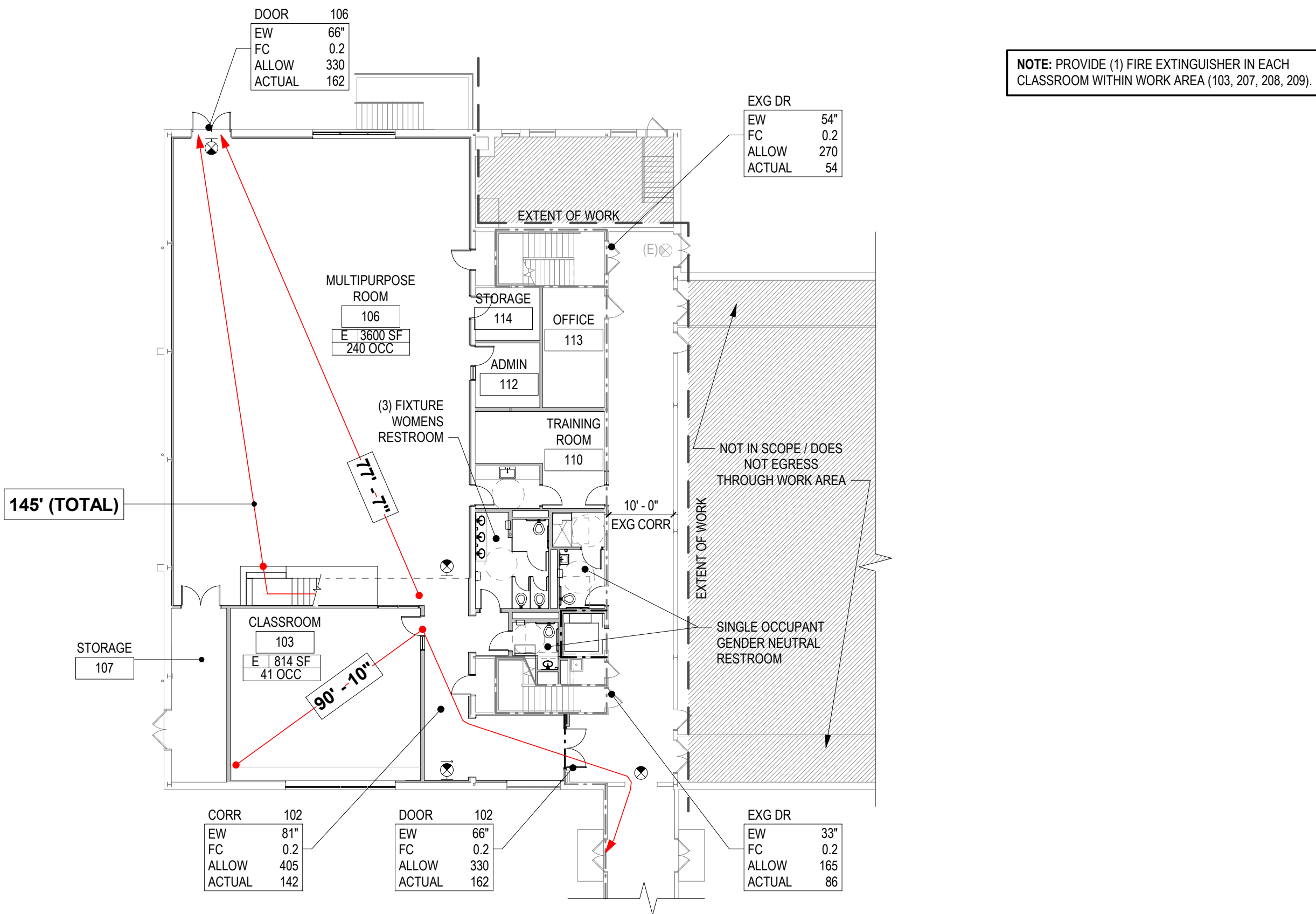
OCCUPANT LOAD						
OCCUPANCY CLASSIFICATION	ROOM			FUNCTION (TABLE 1004.5)	SF/ OCCUPANT	OCCUPANT LOAD
	NUMBER	NAME	AREA			
LEVEL 1						
EDUCATIONAL GROUP E	103	CLASSROOM	814 SF	Educational - Classroom area	20 NET	41
EDUCATIONAL GROUP E	106	MULTIPURPOSE ROOM	3600 SF	Assembly without fixed seats - Unconcentrated (tables and chairs)	15 NET	240
EDUCATIONAL GROUP E	107	STORAGE	240 SF	Accessory storage areas, mechanical equipment room	300 GROSS	1
EDUCATIONAL GROUP E	114	STORAGE	90 SF	Accessory storage areas, mechanical equipment room	300 GROSS	1
EDUCATIONAL GROUP E	MULTIPLE	OFFICE SUITE (110, 111, 112, 113)	608 SF	Business Areas	150 GROSS	5
						288
LEVEL 2						
EDUCATIONAL GROUP E	203	STUDY	315 SF	Educational - Classroom area	20 NET	16
EDUCATIONAL GROUP E	204	FLEX / LOUNGE	775 SF	Assembly without fixed seats - Unconcentrated (tables and chairs)	15 NET	52
EDUCATIONAL GROUP E	205	CONFERENCE	369 SF	Assembly without fixed seats - Unconcentrated (tables and chairs)	15 NET	25
EDUCATIONAL GROUP E	207	CLASSROOM	547 SF	Educational - Classroom area	20 NET	28
EDUCATIONAL GROUP E	208	CLASSROOM	571 SF	Educational - Classroom area	20 NET	29
EDUCATIONAL GROUP E	209	CLASSROOM	456 SF	Educational - Classroom area	20 NET	23
EDUCATIONAL GROUP E	210	MECH	522 SF	Accessory storage areas, mechanical equipment room	300 GROSS	2
EDUCATIONAL GROUP E	211	MECH	522 SF	Accessory storage areas, mechanical equipment room	300 GROSS	2
						177
TOTAL BUILDING OCCUPANT LOAD						465

CODE PLAN KEY

DOOR / CORRIDOR / STAIR CAPACITY	OCCUPANCY	SYMBOLS
TYPE MARK EXIT / STAIR / CORRIDOR WIDTH CODE WIDTH FACTOR FC 0.2/0.3 ALLOWABLE CAPACITY ACTUAL CAPACITY	OCCUPANCY CLASSIFICATION ADMIN SUITE SPACE NAME (IF APPLICABLE) AREA OCCUPANT COUNT	EXIT SIGN. SEE A6 SERIES FOR EXACT LOCATION AND DIRECTION.
RATED WALLS	TRAVEL DISTANCE TO NEAREST EXIT	
1 HOUR FIRE PARTITION (FIRE BARRIER AT SHAFTS) EXG 1 HOUR FIRE PARTITION (FIRE BARRIER AT SHAFTS)	PATH OF TRAVEL TRAVEL DISTANCE 48'-6"	



2 LIFE SAFETY PLAN - LEVEL 2  
A0.2 1/16" = 1'-0"



1 LIFE SAFETY PLAN - LEVEL 1  
A0.2 1/16" = 1'-0"

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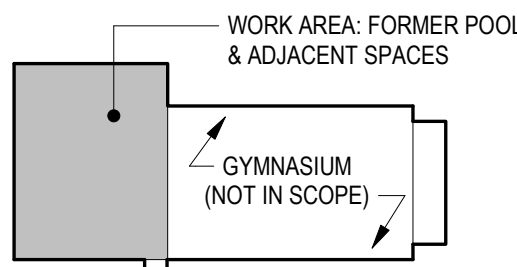
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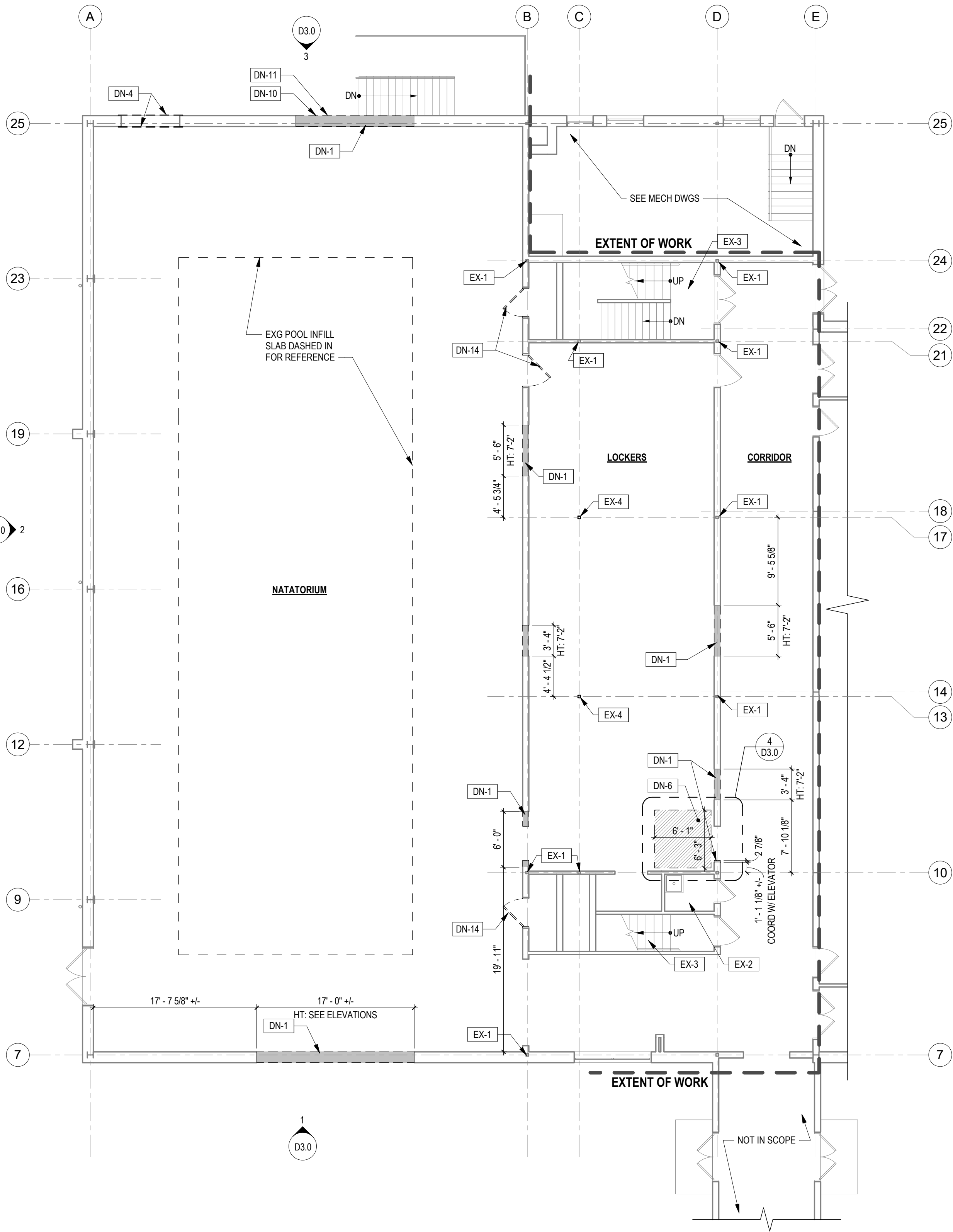
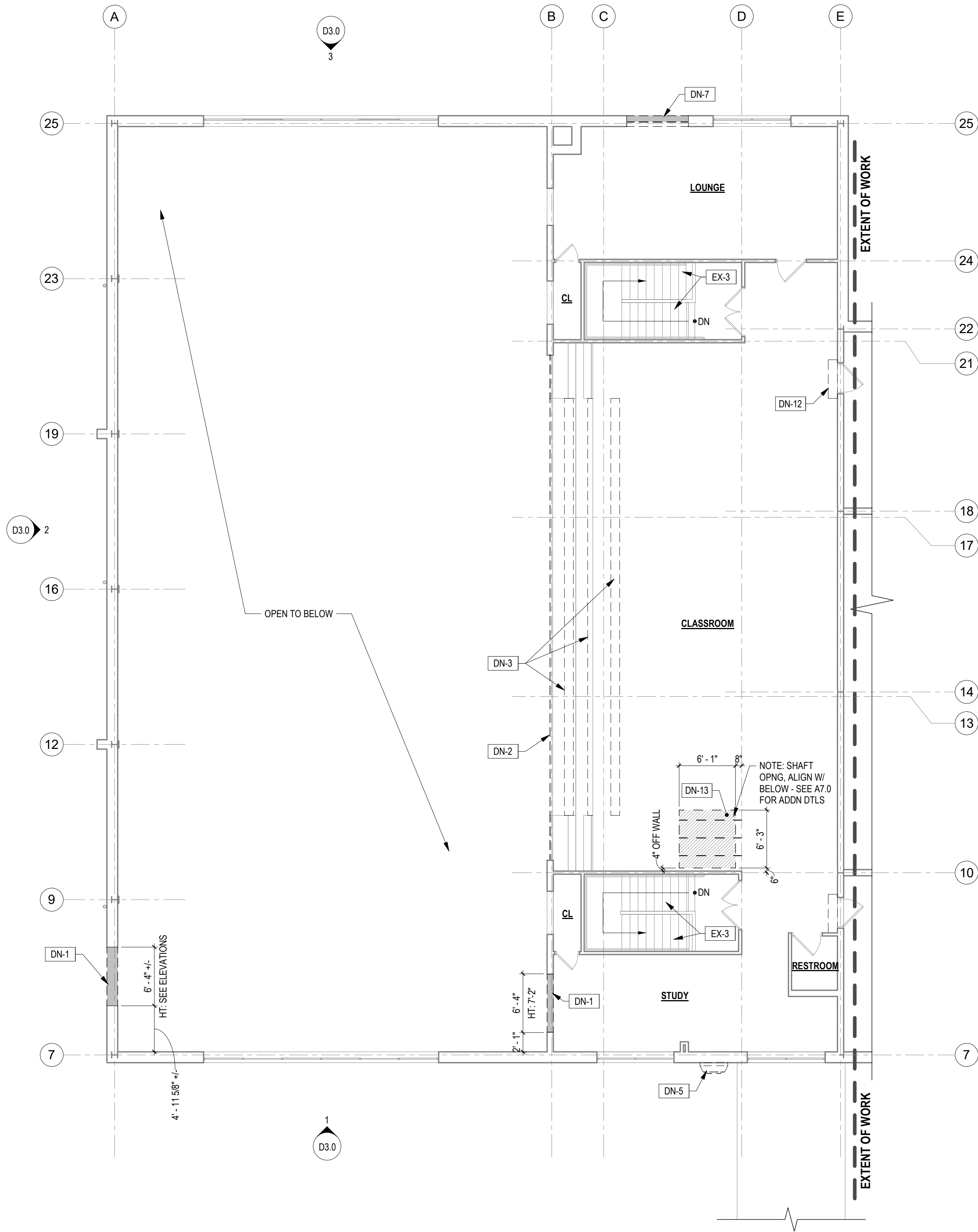
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DEMOLITION PLANS

Drawing Number:

D2.1

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2  
D2.1 DEMOLITION - SECOND FLOOR  
1/8" = 1'-0"

KEYED DEMOLITION NOTES

- DN-1 REMOVE EXISTING WALL TO EXTENT INDICATED. REMOVE FULL HEIGHT OF WALL UNLESS HEIGHT (HT) INDICATED.
- DN-2 REMOVE EXISTING METAL RAILING.
- DN-3 REMOVE EXISTING BENCHES. TIERED CONCRETE BLEACHERS TO REMAIN CONCEALED WITHIN NEW CONSTRUCTION - SEE STRUCT DWGS.
- DN-4 REMOVE EXISTING TEMPORARY CLOSURE AT EXISTING OPENING. PREPARE OPENING FOR NEW DOOR.
- DN-5 REMOVE EXISTING THRU-WALL EXHAUST. SEE MECH DWGS. PREPARE OPENING FOR NEW EXHAUST IN SAME LOCATION AND BRICK INFILL.
- DN-6 REMOVE EXISTING SLAB ON GRADE AS REQ'D FOR PROPOSED ELEVATOR PIT. SEE STRUCTURAL DRAWINGS.
- DN-7 REMOVE EXISTING MECH LOUVER & PREPARE OPNG FOR PROPOSED WORK. REMOVE PORTION OF WALL BELOW AS REQ'D FOR PROPOSED WORK. SEE ELEVATIONS.

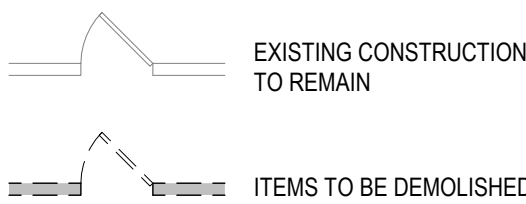
KEYED DEMOLITION NOTES

- DN-8 REMOVE EXISTING MECH LOUVER.
- DN-9 REMOVE FINISH SIDING AND ROOF COPING AS REQUIRED TO ALLOW FOR INSTALL OF NEW SEAMLESS SIDING AT LOCATION OF REMOVED MECH LOUVER.
- DN-10 RE-ROUTE EXISTING CONDUIT AT PROPOSED WINDOW LOCATION AS REQUIRED.
- DN-11 REMOVE EXISTING WALL-MOUNTED LIGHT FIXTURE.
- DN-12 REMOVE EXG 5" CONC STEP.
- DN-13 REMOVE EXG 2ND FLR SLAB, DECK, AND SUPPORTING STL FRAMING (APPROX. 3 TRUSSES TO BE HEADED OFF). SEE STRUC DWGS.
- DN-14 REMOVE EXISTING DOOR. FRAME TO REMAIN FOR NEW DOOR IN SAME LOCATION.

KEYED EXISTING NOTES

- EX-1 EXISTING STL TUBE COLUMN EMBEDDED IN CMU WALL TO REMAIN.
- EX-2 NO CHANGES TO EXISTING JANITOR'S CLOSET.
- EX-3 EXISTING STAIRS, SHAFT, AND RAILINGS TO REMAIN.
- EX-4 EXISTING STL TUBE COLUMN TO REMAIN.

DEMOLITION KEY:



1  
D2.1 DEMOLITION - FIRST FLOOR  
1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

- REMOVE ALL EXISTING FINISH CEILINGS WITHIN WORK AREA, INCLUDING GRID, HANGERS, LIGHT FIXTURES, DEVICES, ETC UNO.
- REMOVE ALL EXISTING FLOOR FINISHES DOWN TO EXISTING SLAB WITHIN WORK AREA UNO.
- REMOVE ALL EXISTING CASEWORK INCLUDING WALL-MOUNTED COUNTERS, BENCHES, AND LOCKERS WITHIN WORK AREA UNO.
- WALLS NOTED TO BE DEMOLISHED ARE TO BE REMOVED IN ENTIRETY TO UNDERSIDE OF DECK ABOVE UNO.
- HEIGHTS OF WALL TO BE DEMOLISHED PROVIDED FOR GENERAL REFERENCE ONLY. COORDINATE WITH STRUCTURAL REQUIREMENTS AND NEW WORK.
- REFER TO MEP & STRUCT DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE.
- COORDINATE EXTERIOR WALL DEMOLITION BETWEEN DEMOLITION PLANS AND EXTERIOR DEMOLITION ELEVATIONS.



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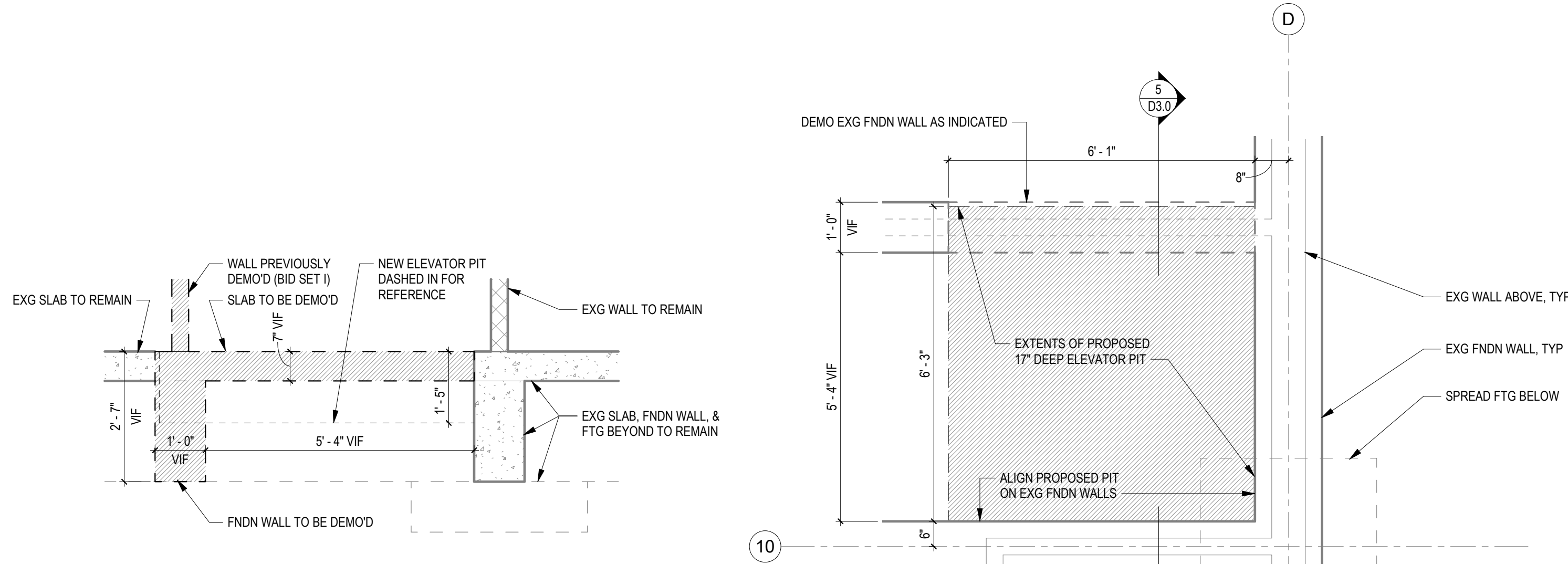
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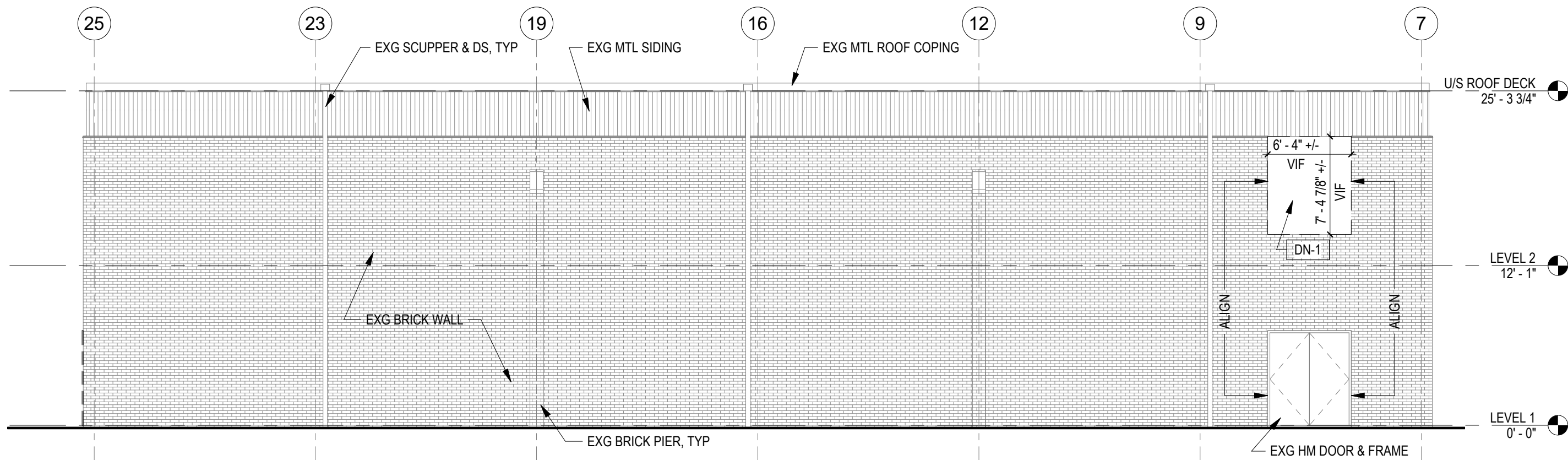
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5 DEMOLITION SECTION AT PROPOSED ELEVATOR PIT  
D3.0 1/2" = 1'-0"

4 ENLARGED BELOW SLAB DEMOLITION AT PROPOSED ELEVATOR PIT  
D3.0 1/2" = 1'-0"



2 SOUTH DEMOLITION ELEVATION  
D3.0 1/8" = 1'-0"

**KEYED DEMOLITION NOTES**

- DN-1 REMOVE EXISTING WALL TO EXTENT INDICATED. REMOVE FULL HEIGHT OF WALL UNLESS HEIGHT (HT) INDICATED.
- DN-2 REMOVE EXISTING METAL RAILING.
- DN-3 REMOVE EXISTING BENCHES. TIERED CONCRETE BLEACHERS TO REMAIN CONCEALED WITHIN NEW CONSTRUCTION - SEE STRUC DWGS.
- DN-4 REMOVE EXISTING TEMPORARY CLOSURE AT EXISTING OPENING. PREPARE OPENING FOR NEW DOOR.
- DN-5 REMOVE EXISTING THRU-WALL EXHAUST. SEE MECH DWGS. PREPARE OPENING FOR NEW EXHAUST IN SAME LOCATION AND BRICK INFILL.
- DN-6 REMOVE EXISTING SLAB ON GRADE AS REQ'D FOR PROPOSED ELEVATOR PIT. SEE STRUCTURAL DRAWINGS.
- DN-7 REMOVE EXISTING MECH LOUVER & PREPARE OPNG FOR PROPOSED WORK. REMOVE PORTION OF WALL BELOW AS REQ'D FOR PROPOSED WORK. SEE ELEVATIONS.

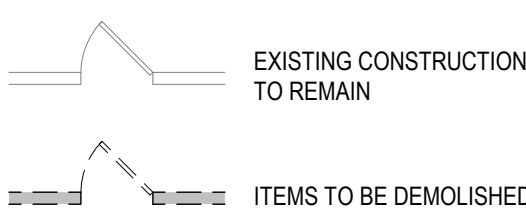
**KEYED DEMOLITION NOTES**

- DN-8 REMOVE EXISTING MECH LOUVER.
- DN-9 REMOVE FINISH SIDING AND ROOF COPING AS REQUIRED TO ALLOW FOR INSTALL OF NEW SEAMLESS SIDING AT LOCATION OF REMOVED MECH LOUVER.
- DN-10 RE-ROUTE EXISTING CONDUIT AT PROPOSED WINDOW LOCATION AS REQUIRED.
- DN-11 REMOVE EXISTING WALL-MOUNTED LIGHT FIXTURE.
- DN-12 REMOVE EXG 5" CONC STEP.
- DN-13 REMOVE EXG 2ND FLR SLAB, DECK, AND SUPPORTING STL FRAMING (APPROX. 3 TRUSSES TO BE HEADED OFF). SEE STRUC DWGS.
- DN-14 REMOVE EXISTING DOOR, FRAME TO REMAIN FOR NEW DOOR IN SAME LOCATION.

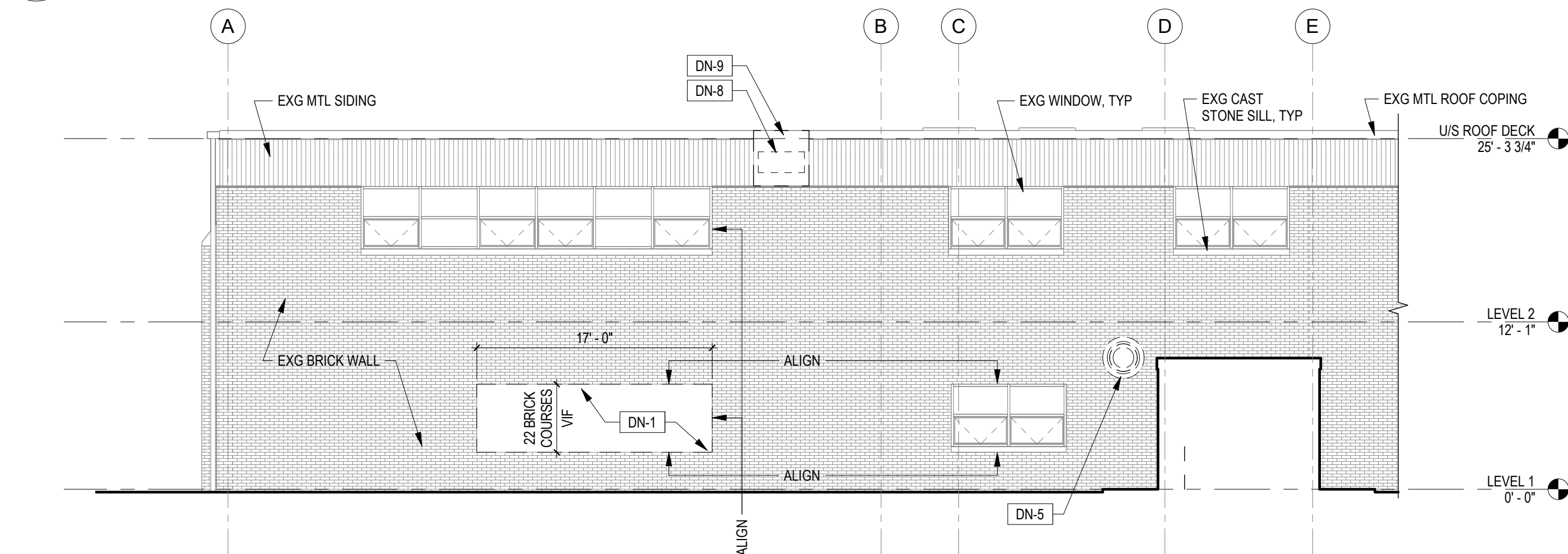
**KEYED EXISTING NOTES**

- EX-1 EXISTING STL TUBE COLUMN EMBEDDED IN CMU WALL TO REMAIN.
- EX-2 NO CHANGES TO EXISTING JANITOR'S CLOSET.
- EX-3 EXISTING STAIRS, SHAFT, AND RAILINGS TO REMAIN.
- EX-4 EXISTING STL TUBE COLUMN TO REMAIN.

**DEMOLITION KEY:**



3 WEST DEMOLITION ELEVATION  
D3.0 1/8" = 1'-0"



1 EAST DEMOLITION ELEVATION  
D3.0 1/8" = 1'-0"

**GENERAL DEMOLITION NOTES:**

1. REMOVE ALL EXISTING FINISH CEILINGS WITHIN WORK AREA, INCLUDING GRID, HANGERS, LIGHT FIXTURES, DEVICES, ETC UNO.
2. REMOVE ALL EXISTING FLOOR FINISHES DOWN TO EXISTING SLAB WITHIN WORK AREA UNO.
3. REMOVE ALL EXISTING CASEWORK INCLUDING WALL-MOUNTED COUNTERS, BENCHES, AND LOCKERS WITHIN WORK AREA UNO.
4. WALLS NOTED TO BE DEMOLISHED ARE TO BE REMOVED IN ENTIRETY TO UNDERSIDE OF DECK ABOVE U.N.O.
5. HEIGHTS OF WALL TO BE DEMOLISHED PROVIDED FOR GENERAL REFERENCE ONLY. COORDINATE WITH STUCTURAL REQUIREMENTS AND NEW WORK.
6. REFER TO MEP & STRUC DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE.
7. COORDINATE EXTERIOR WALL DEMOLITION BETWEEN DEMOLITION PLANS AND EXTERIOR DEMOLITION ELEVATIONS.

No.	Date	Revisions

Seal:

Drawn: AB      Checked: MS      Approved: TW

Job Number: 786

File:

Date:

2.5.2024

Drawing Set:

BID SET II - CONSTRUCTION  
DOCUMENTS

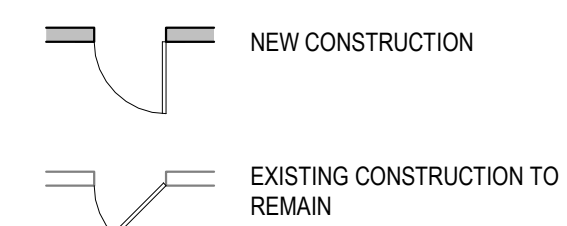
Drawing Title:

DEMOLITION ELEVATIONS

Drawing Number:

D3.0

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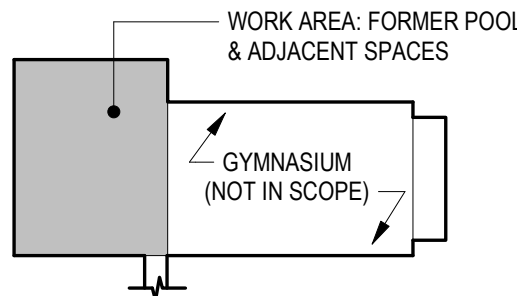
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KEY PLAN

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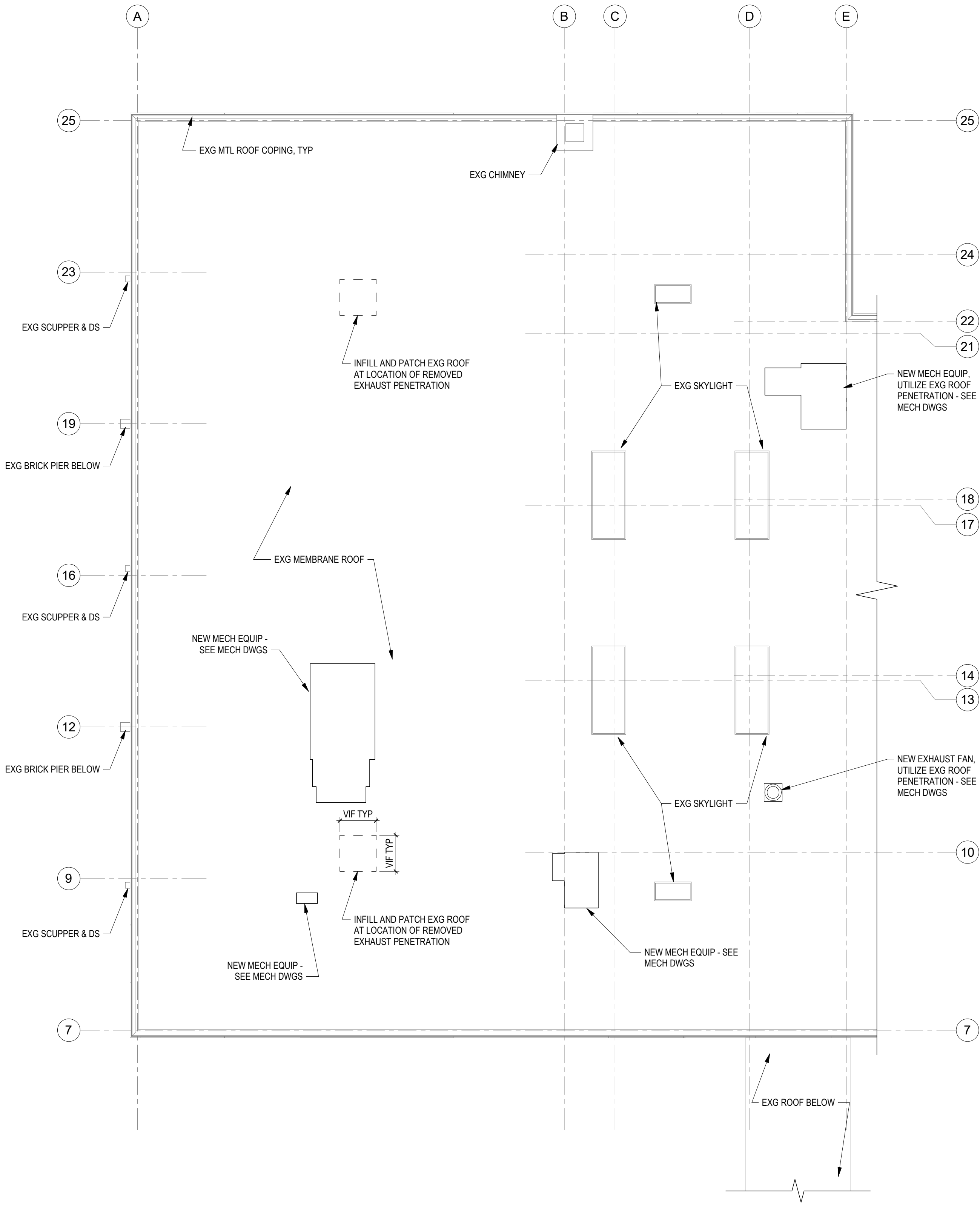
Date:  
2.5.2024

Drawing Set:  
BID SET II - CONSTRUCTION  
DOCUMENTS

Drawing Title:  
ROOF PLAN

Drawing Number:

A2.1



1 ROOF PLAN  
A2.1 1/8" = 1'-0"

**GENERAL NOTES:**

- COORDINATE ALL WORK WITH STRUCTURAL AND MEPPA DRAWINGS.
- PATCH AND REPAIR ALL FINISHES TO REMAIN IN FINAL CONSTRUCTION RESULTING FROM DEMOLITION ACTIVITIES.
- PATCH AND REPAIR ALL EXTERIOR FINISHES RESULTING FROM DEMOLITION ACTIVITIES. MATCH ADJACENT CONSTRUCTION.
- PREPARE AND RE-PAINT ANY EXPOSED EXISTING PAINTED ITEMS WITHIN WORK AREA.
- GO TO COORDINATE AND PROVIDE REQUIRED IN-WALL BLOCKING FOR ITEMS INDICATED AS PROVIDED BY OWNER INCLUDING DISPLAY UNITS.

**DRAWING LEGEND:**

- NEW CONSTRUCTION
- EXISTING CONSTRUCTION TO REMAIN







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Job Number: 786		
File:		
Date: 2.5.2024		
Drawing Set: BID SET II - CONSTRUCTION DOCUMENTS		
Drawing Title: INTERIOR ELEVATIONS		

# A5.0

1 MULTIPURPOSE ROOM 106  
A5.0 1/4" = 1'-0"

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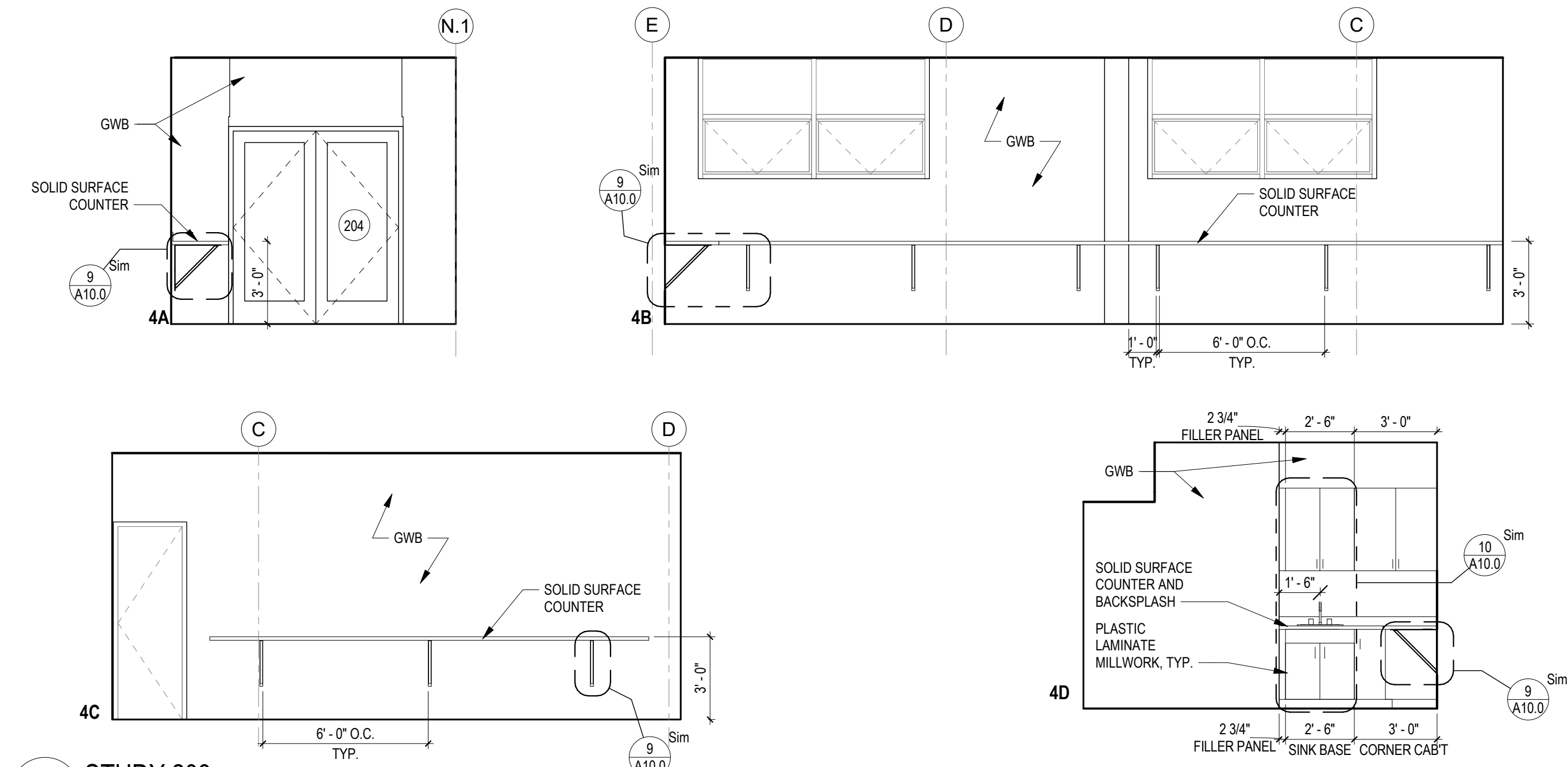
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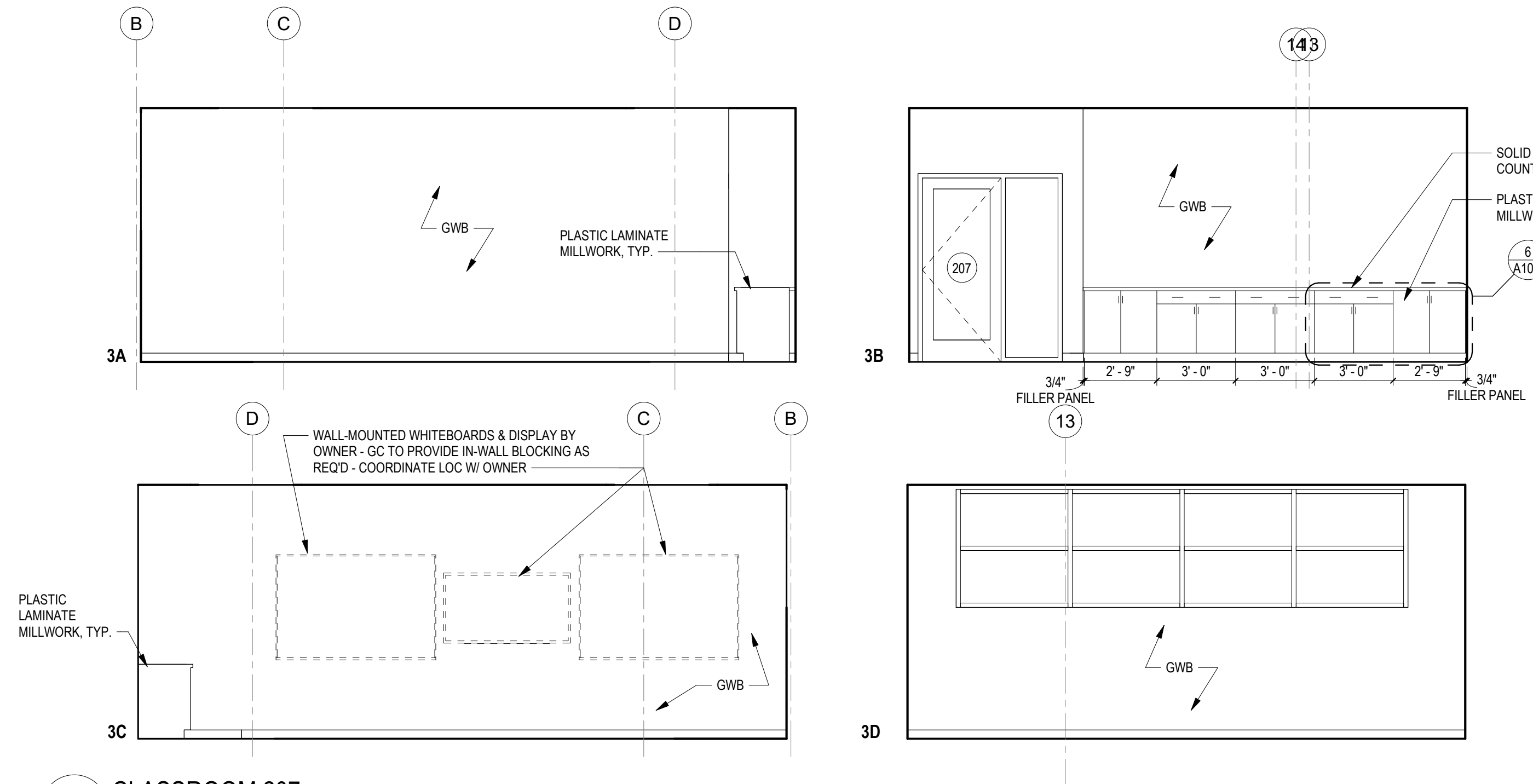
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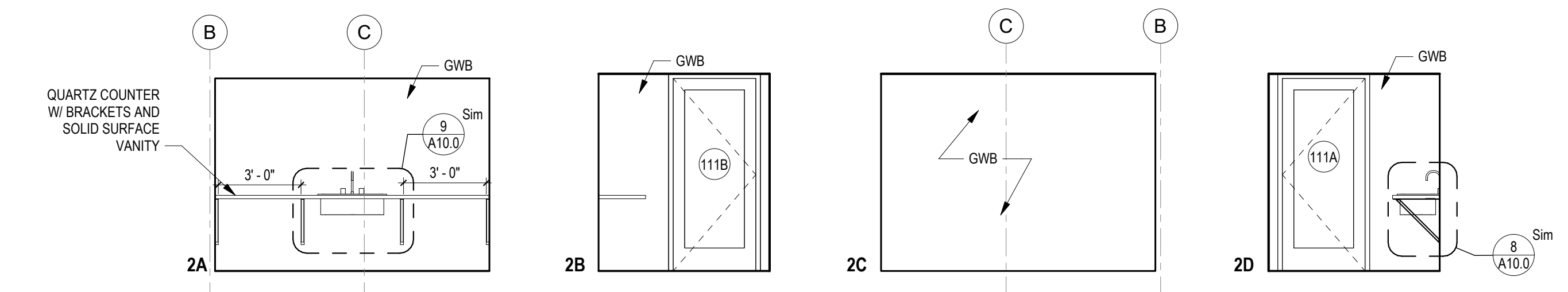
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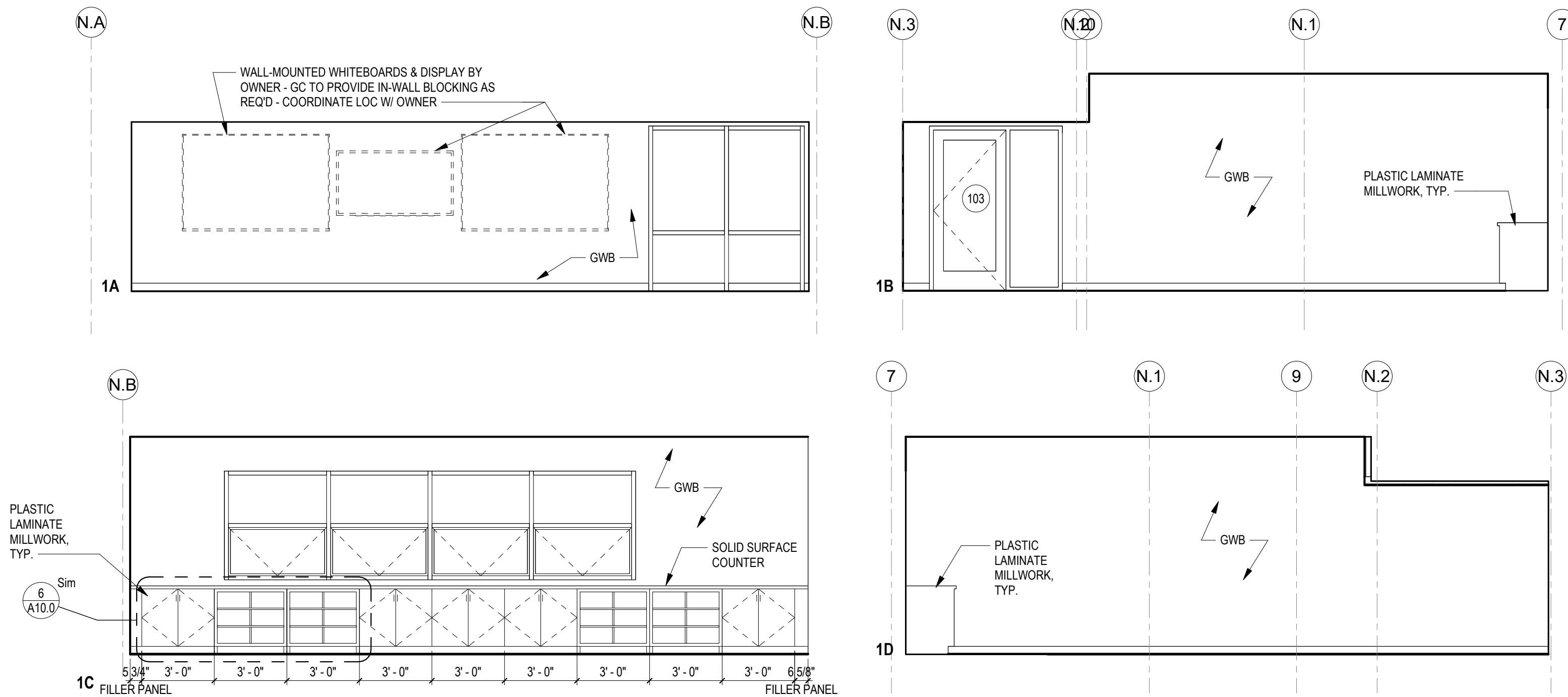
4 STUDY 203  
A5.1 1/4" = 1'-0"



3 CLASSROOM 207  
A5.1 1/4" = 1'-0"



2 ICE ROOM 111  
A5.1 1/4" = 1'-0"



1 CLASSROOM 103  
A5.1 1/4" = 1'-0"

No.	Date	Revisions

Seal:

Drawn: AB/ED	Checked: Checker	Approved: Approver
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Job Number: 786

File:

Date:

2.5.2024

Drawing Set:

BID SET II - CONSTRUCTION  
DOCUMENTS

Drawing Title:

INTERIOR ELEVATIONS

Drawing Number:

A5.1



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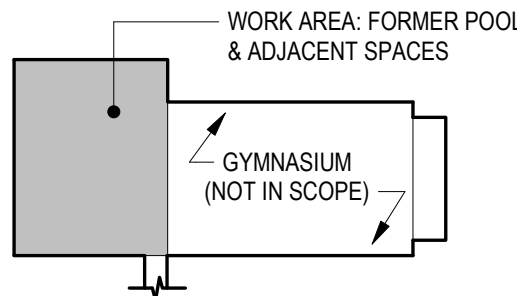
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File:

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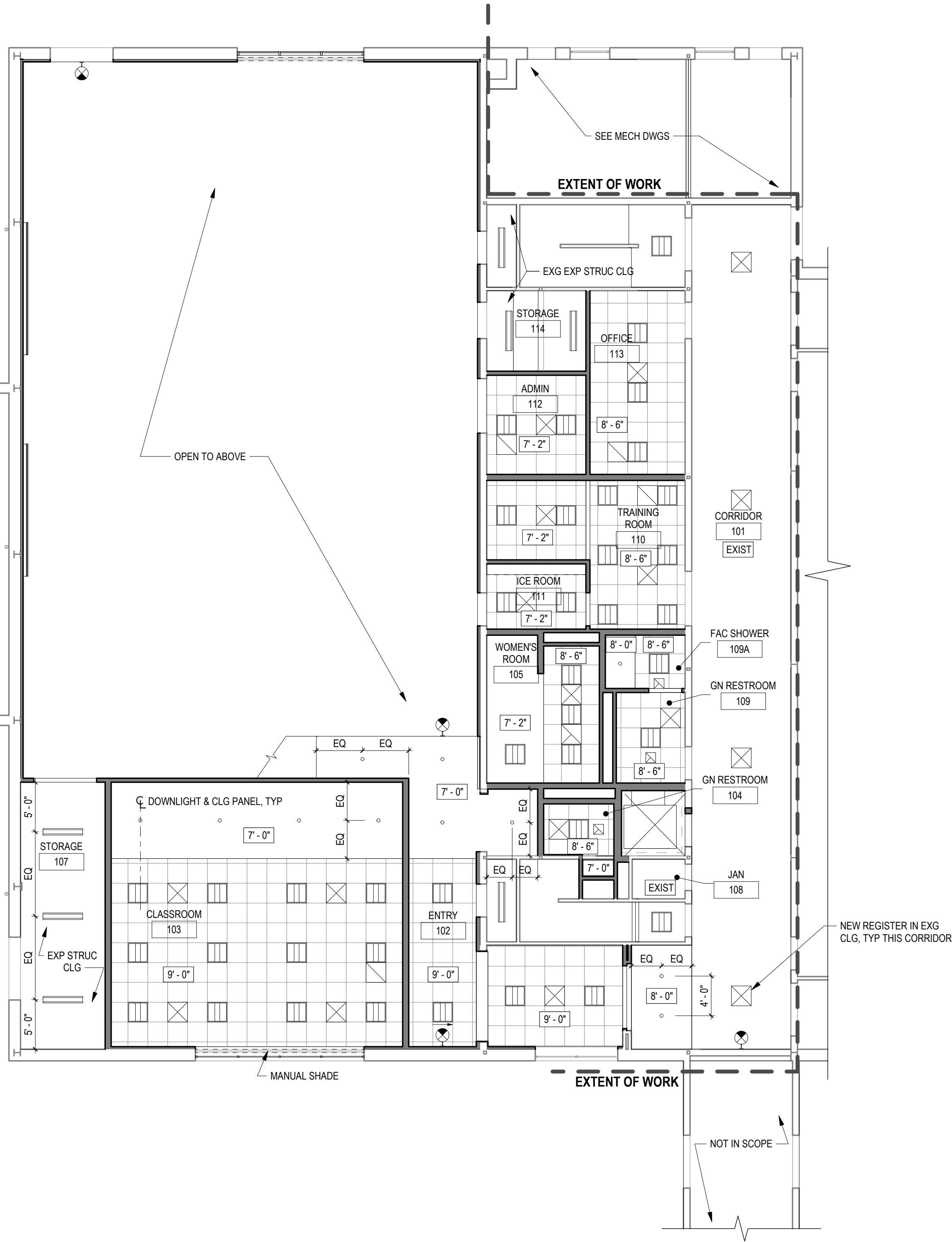
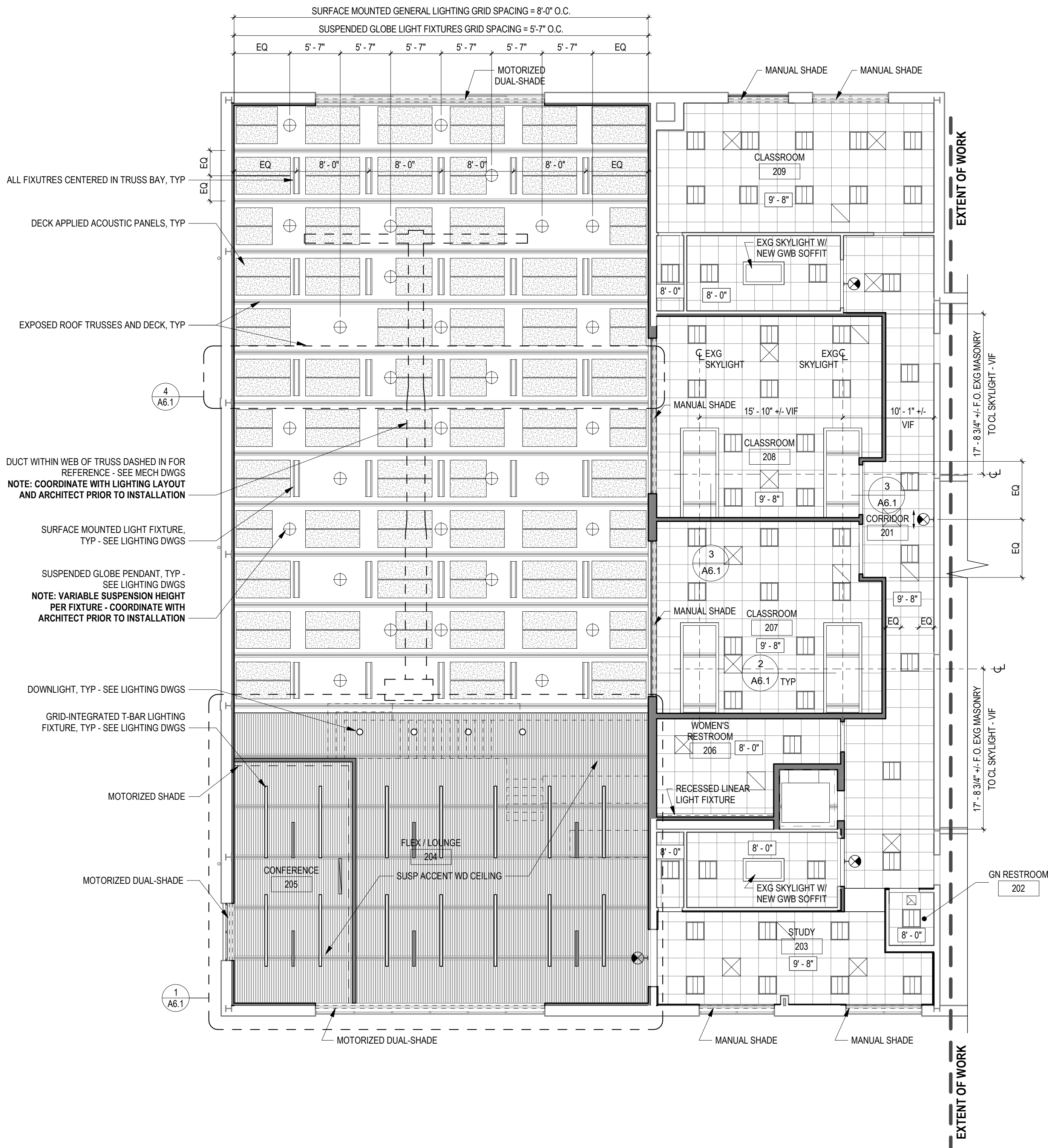
Drawing Set:  
BID SET II - CONSTRUCTION  
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Drawing Title:  
REFLECTED CEILING PLANS

Drawing Number:

A6.0

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FIRST FLOOR RCP

1/8" = 1'-0"







GENERAL CEILING NOTES:

- MEP DEVICES ARE SHOWN FOR REFERENCE AND COORDINATION OF LOCATIONS ONLY. SEE MEP DRAWINGS FOR ADDITIONAL INFO AND DEVICES OTHERWISE NOT SHOWN. GC TO NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL RCP AND MEP RCPs.
- CEILING TILES AND GRID ARE TO BE CENTERED IN ROOM, UNO.
- PAINT ALL EXPOSED CONCRETE AND STEEL STRUCTURE.
- PROVIDE MOTORIZED / MANUAL ROLLER WINDOW SHADES / DUAL ROLLER WINDOW SHADES AS INDICATED. COORDINATE POWER AND CONTROLS REQUIREMENTS WITH ELEC DWGS & OWNER.
- ASSUME (1) WALL-MOUNTED FIXTURE OVER EACH SINK, TYP. SEE LIGHTING DWGS.
- PROVIDE ACT TO MATCH EXG AS NEEDED IN CORRIDOR 101 FOLLOWING MECHANICAL DUCT WORK IN THIS AREA.
- LIGHTING IS TO BE CENTERED IN ROOM OR ALIGNED WITH CEILING GRID, TYP.
- PROVIDE ACT TYPE 'A' IN CLASSROOMS. PROVIDE ACT TYPE 'B' IN ALL OTHER SPACES.

RCP LEGEND:

	NEW SUSPENDED ACCENT WOOD CEILING		SUSPENDED GLOBE PENDANT - SEE LIGHTING DWGS
	NEW 2'-0" x 2'-0" ACOUSTIC CEILING TILE		SURFACE MOUNTED LINEAR FIXTURE - SEE LIGHTING DWGS
	NEW DECK APPLIED ACOUSTIC PANELS, SIZED AT 2'-0" x 6'-0" & 2'-0" x 4'-0" AS SHOWN		2' x 2' DROP-IN LIGHT FIXTURE - SEE LIGHTING DWGS
	2' x 2' SUPPLY DIFFUSER - SEE MECH DWGS		RECESSED DOWNLIGHT - SEE LIGHTING DWGS
	2' x 2' RETURN GRILLE - SEE MECH DWGS		RECESSED PERIMETER COVE LIGHT - SEE LIGHTING DWGS
	2' x 2' EXHAUST GRILLE - SEE MECH DWGS		EXIT SIGN
	LINEAR SUPPLY DIFFUSER - SEE MECH DWGS		
	LINEAR RETURN GRILLE - SEE MECH DWGS		



- |   |   |
|---|---|
|  | SUSPENDED GLOBE PENDANT -<br>SEE LIGHTING DWGS        |
|  | SURFACE MOUNTED LINEAR FIXTURE -<br>SEE LIGHTING DWGS |
|  | 2 x 2' DROP-IN LIGHT FIXTURE -<br>SEE LIGHTING DWGS   |
|  | RECESSED DOWNLIGHT -<br>SEE LIGHTING DWGS             |
|  | RECESSED PERIMETER COVE LIGHT -<br>SEE LIGHTING DWGS  |
|  | EXIT SIGN   |

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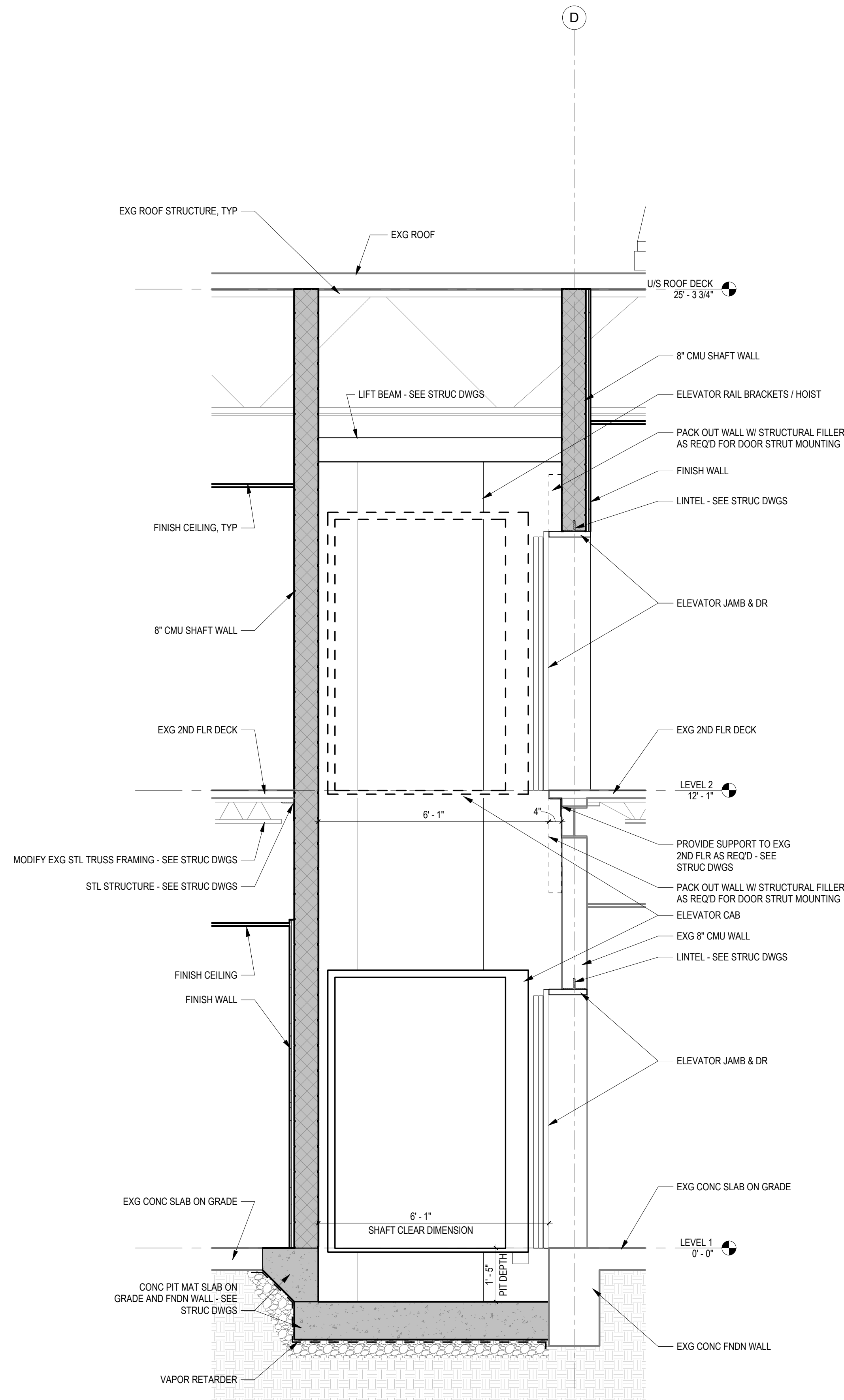
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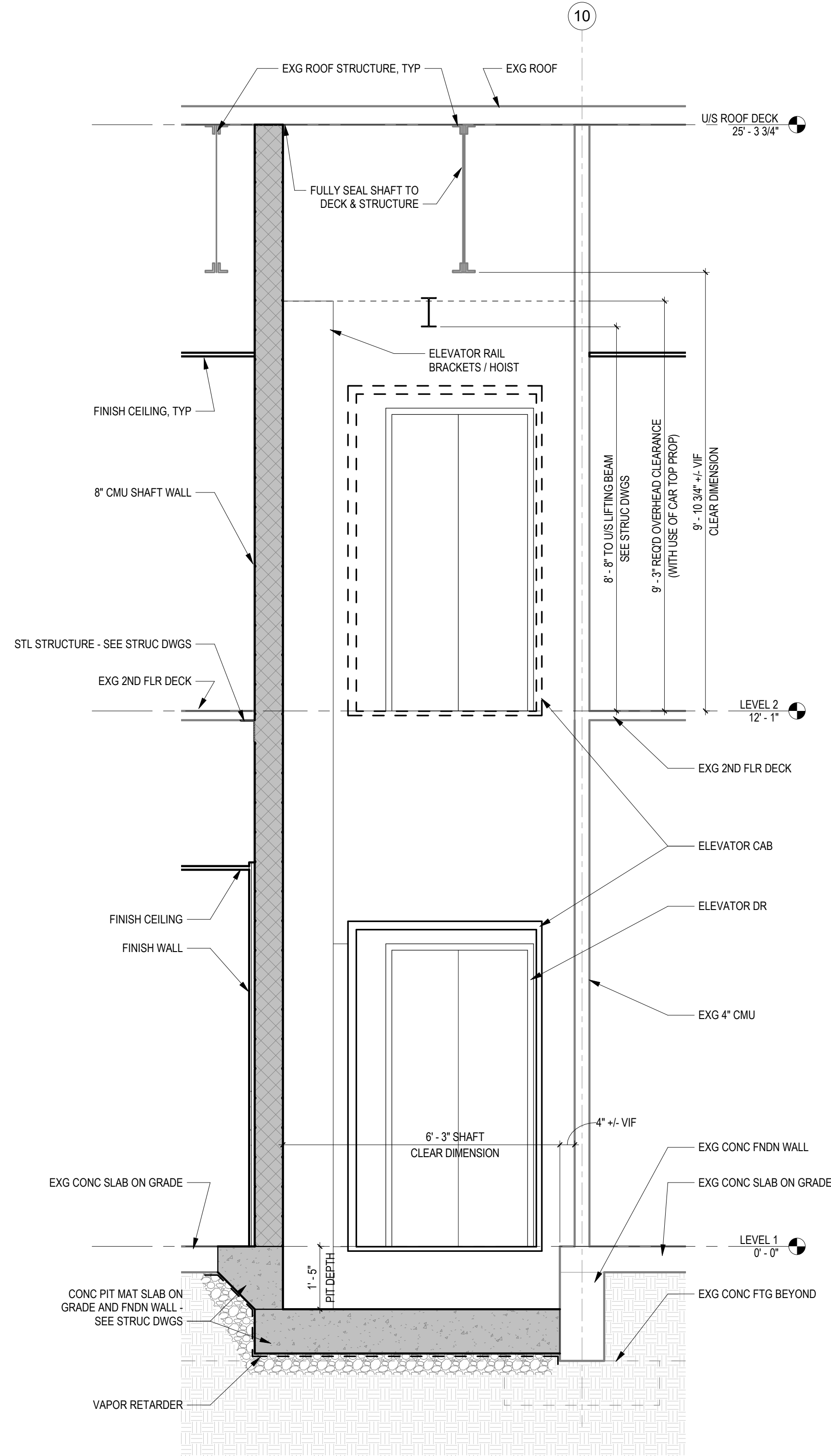
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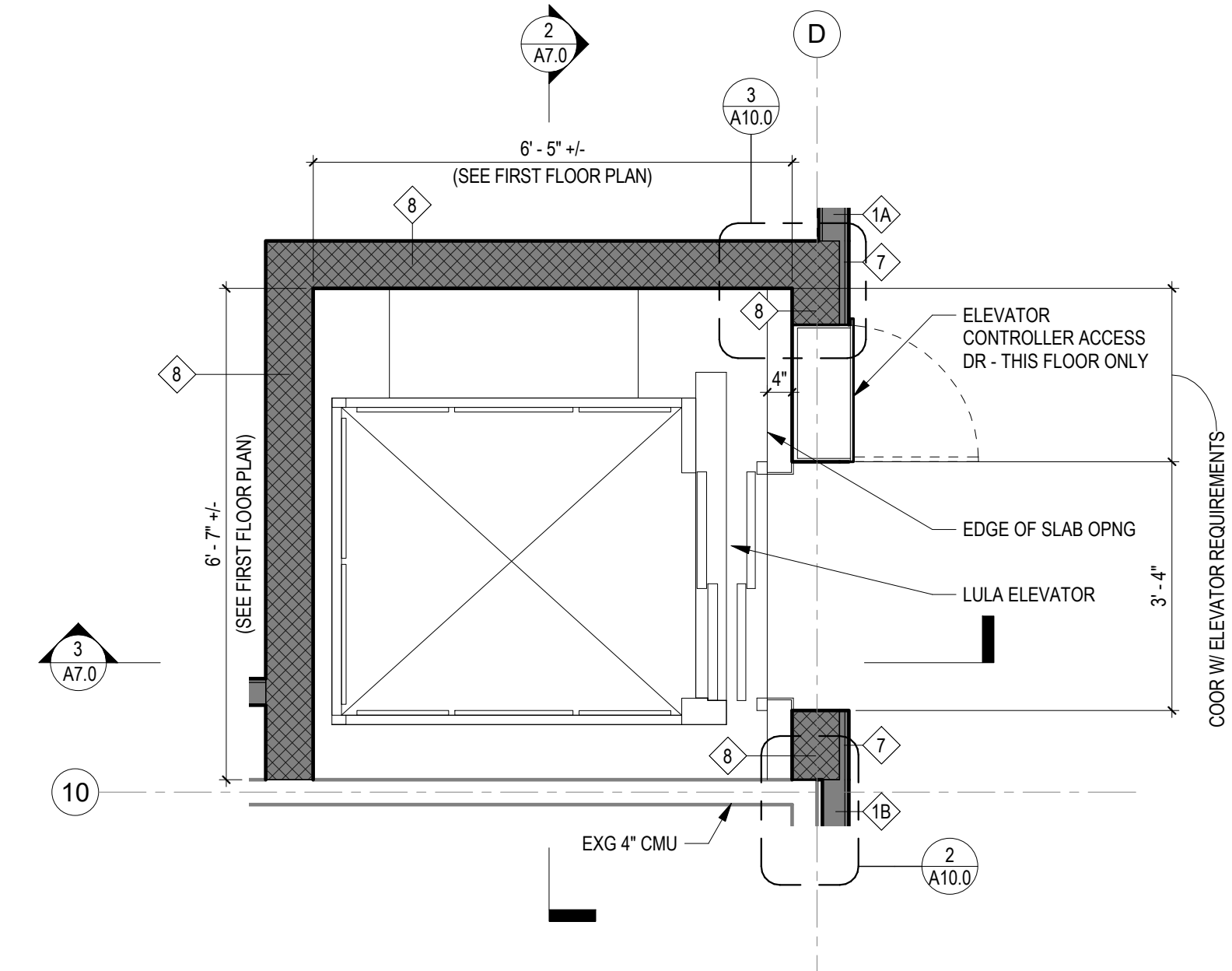
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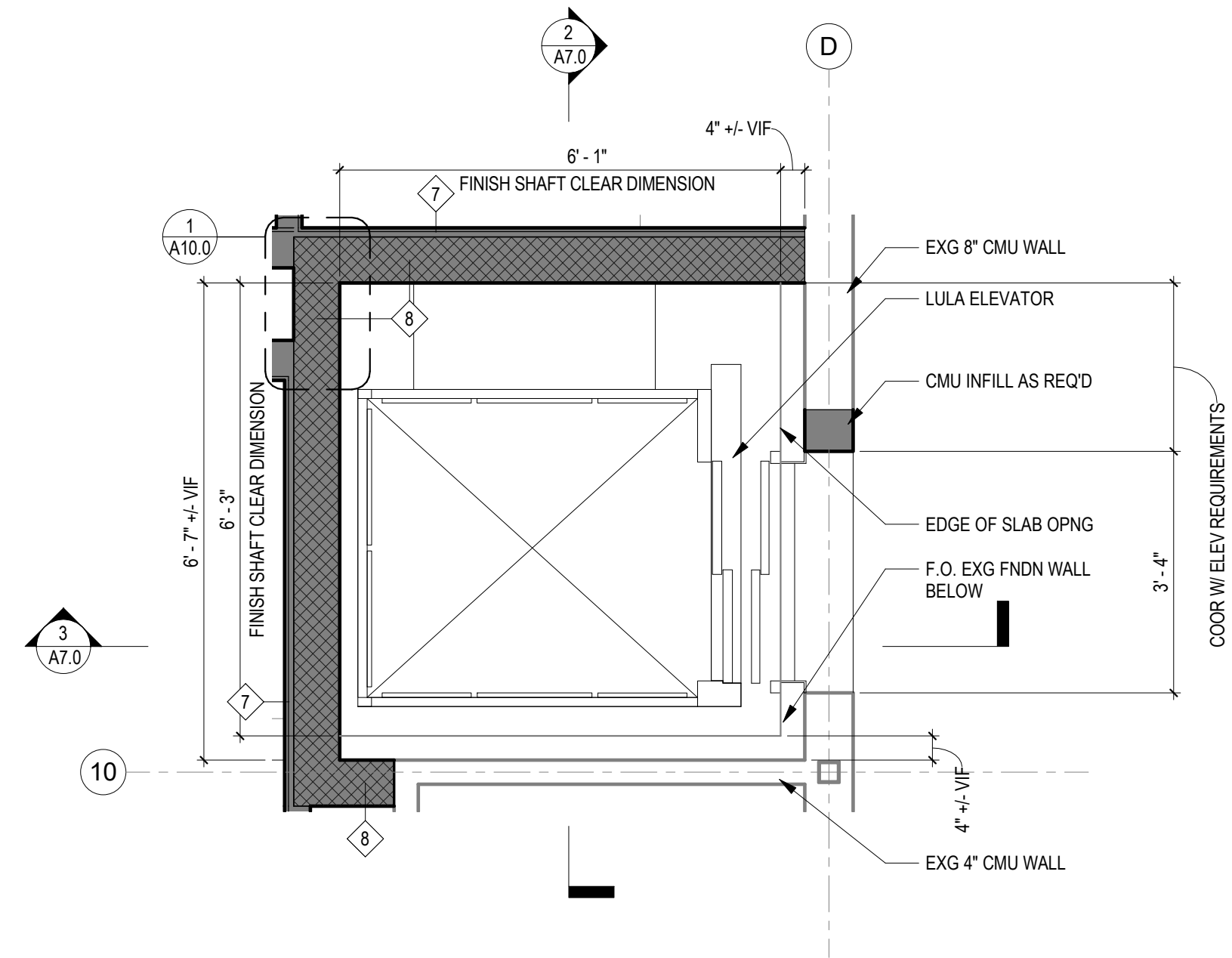
3 E-W SHAFT SECTION  
A7.0 1/2" = 1'-0"



2 N-S SHAFT SECTION  
A7.0 1/2" = 1'-0"



4 ENLARGED SHAFT PLAN AT SECOND FLOOR  
A7.0 1/2" = 1'-0"



1 ENLARGED SHAFT PLAN AT FIRST FLOOR  
A7.0 1/2" = 1'-0"

No.	Date	Revisions

Seal:

Drawn: AB/ED  
Job Number: 786  
File:

Checked: MS  
Date: 2.5.2024  
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Drawing Set:  
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DOCUMENTS

Drawing Title:  
VERTICAL CIRCULATION  
PLANS AND SECTIONS

Drawing Number:

A7.0

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Job Number: 786		
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Drawing Set:  
**BID SET II - CONSTRUCTION  
DOCUMENTS**

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Drawing Title:  
**MEZZANINE AND STAIR  
DETAILS**

## A7.1

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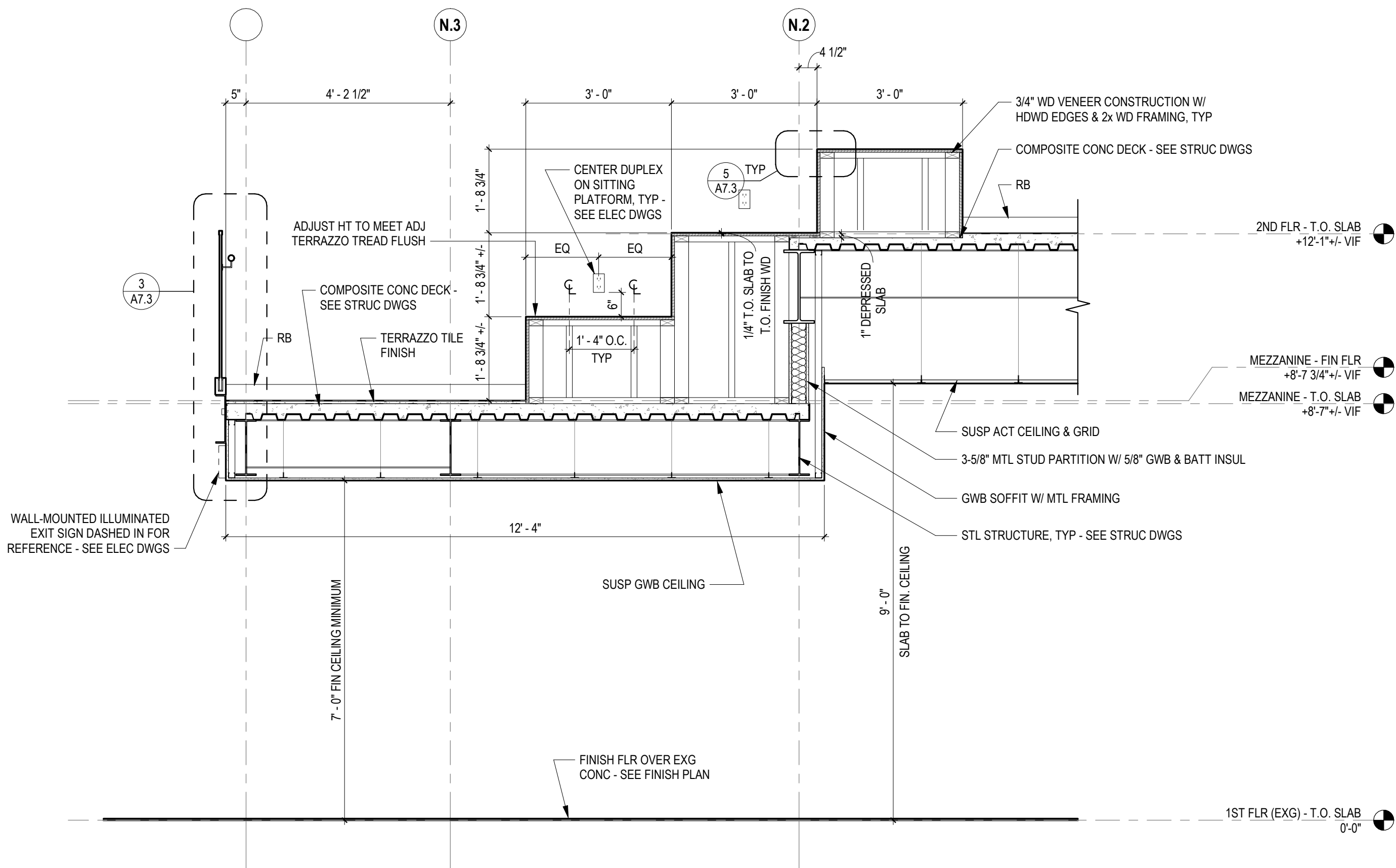
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**STRUCTURAL ENGINEER**

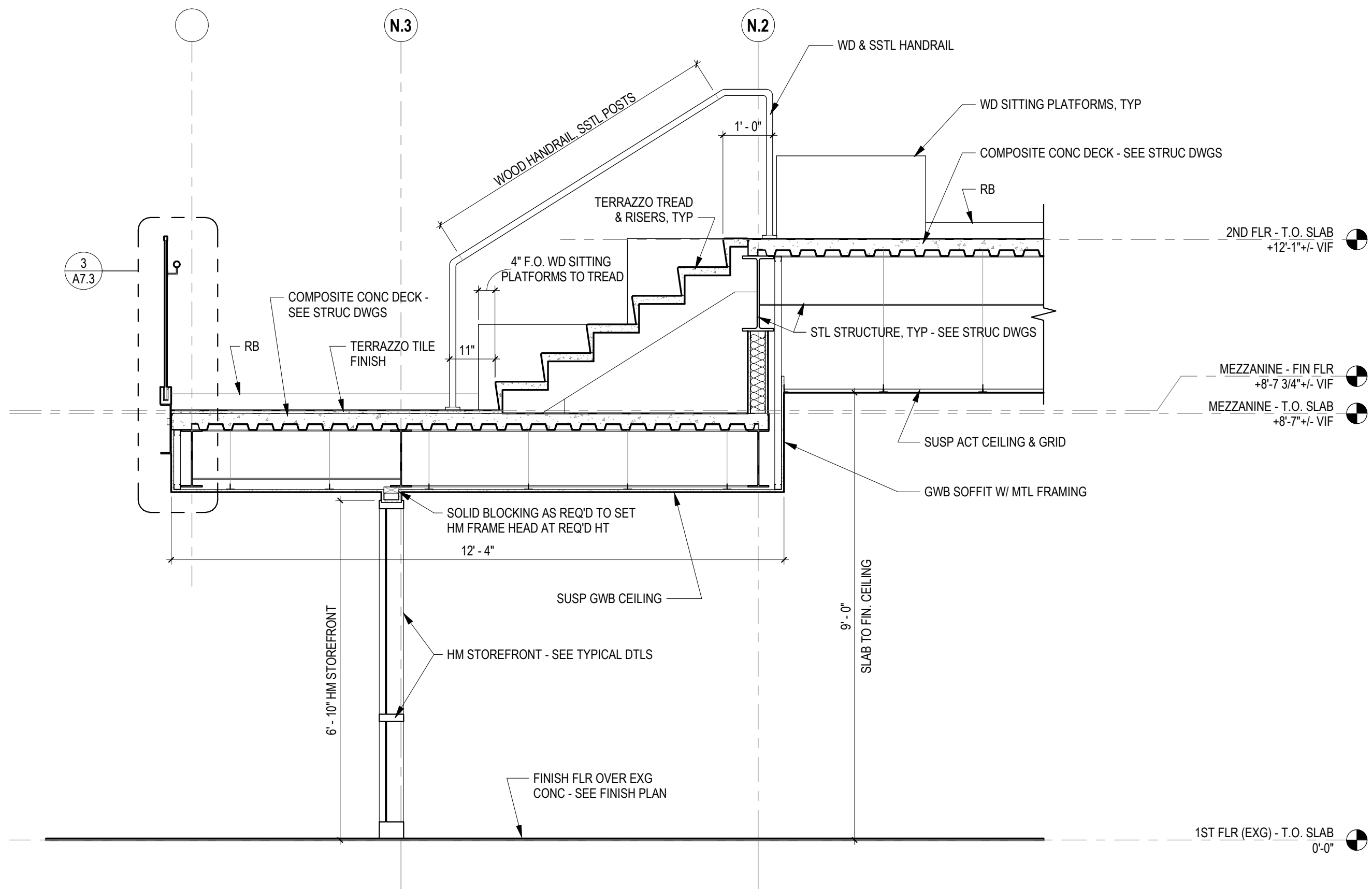
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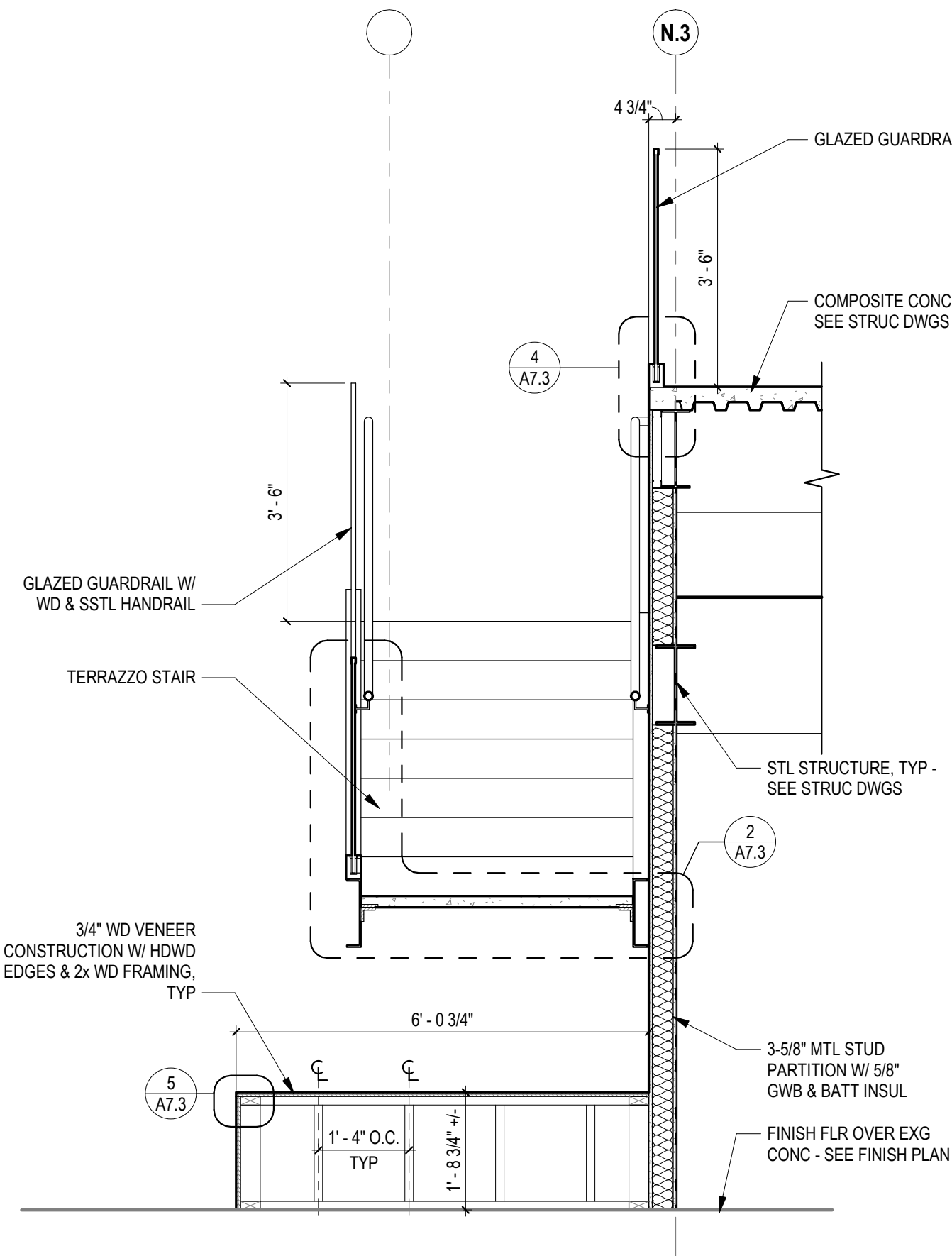
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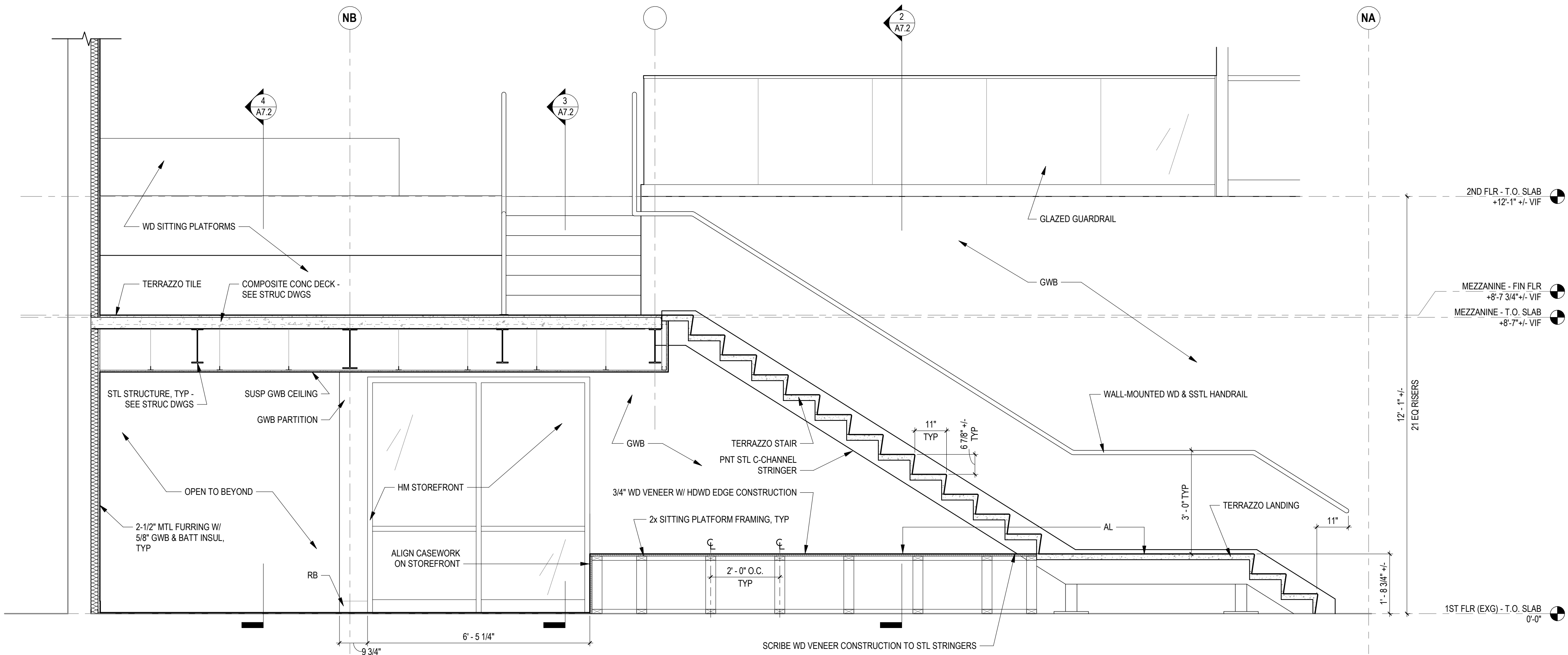
4 SECTION THRU MEZZANINE SEATING  
A7.2 1/2" = 1'-0"



3 SECTION THRU MEZZANINE STAIR TO 2ND FLR  
A7.2 1/2" = 1'-0"



2 TERRAZZO STAIR CROSS SECTION  
A7.2 1/2" = 1'-0"



1 TERRAZZO STAIR SECTION  
A7.2 1/2" = 1'-0"

No.	Date	Revisions

Seal:

Drawn: AB/ED    Checked: MS    Approved: TW  
Job Number: 786  
File:

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2.5.2024

Drawing Set:  
BID SET II - CONSTRUCTION  
DOCUMENTS  
Drawing Title:  
MEZZANINE AND STAIR  
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Drawing Number:

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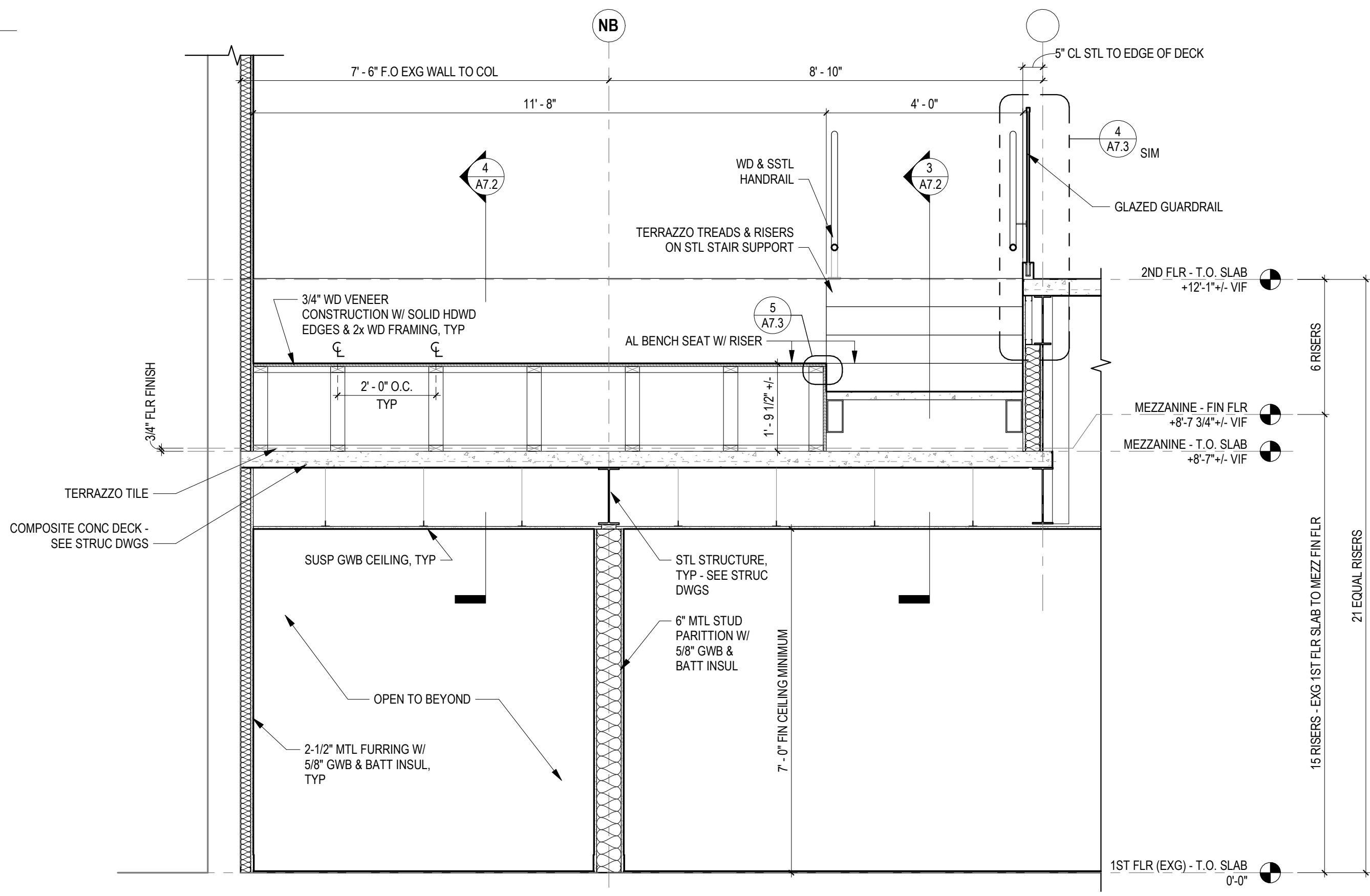
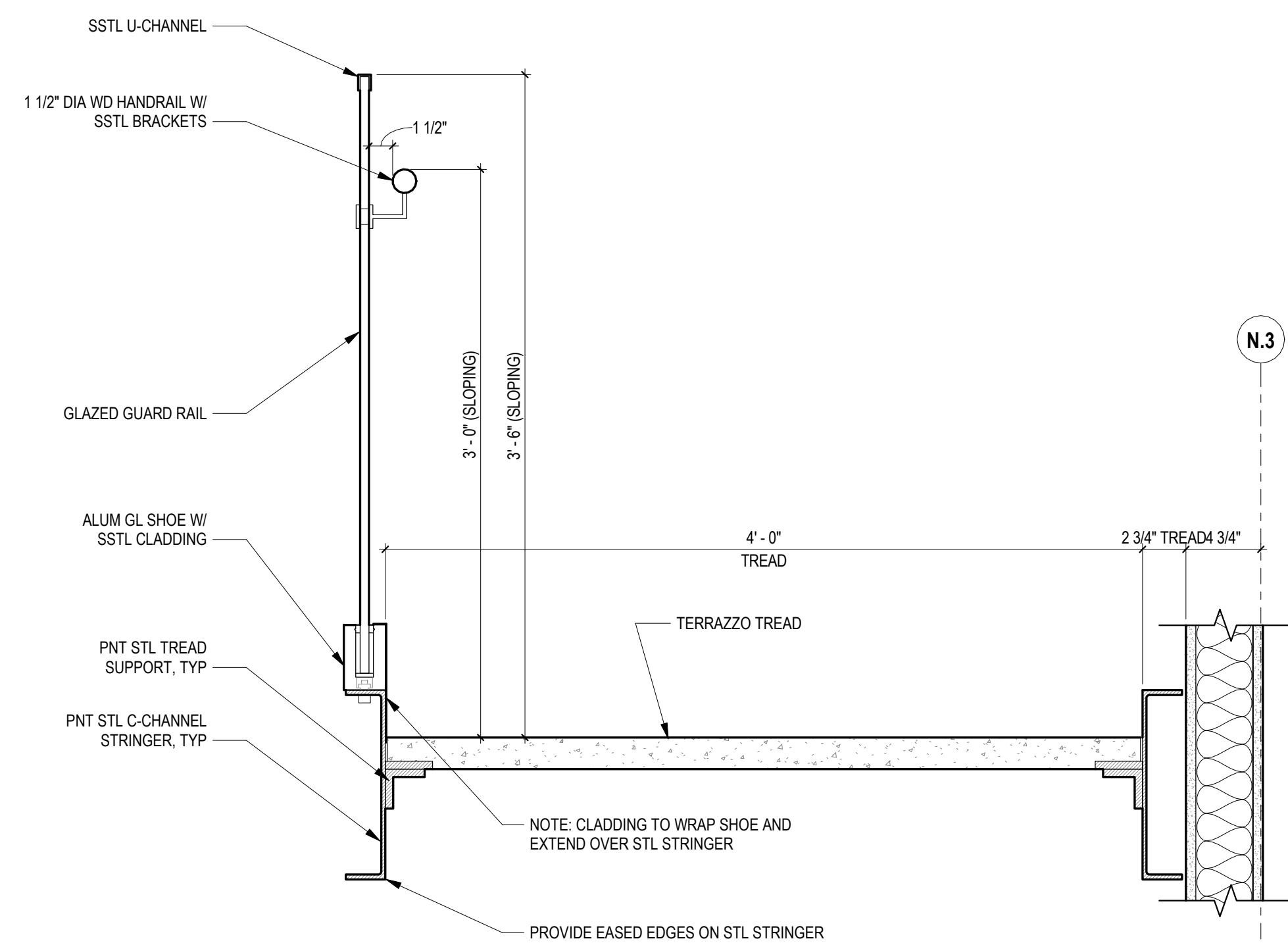
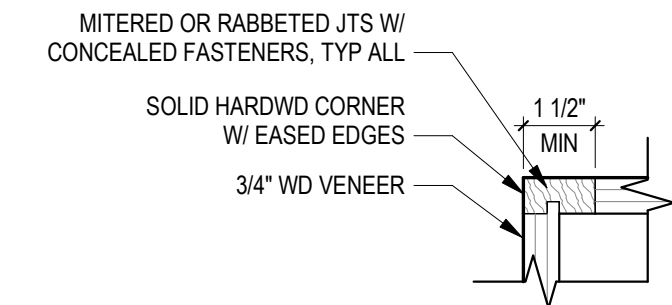
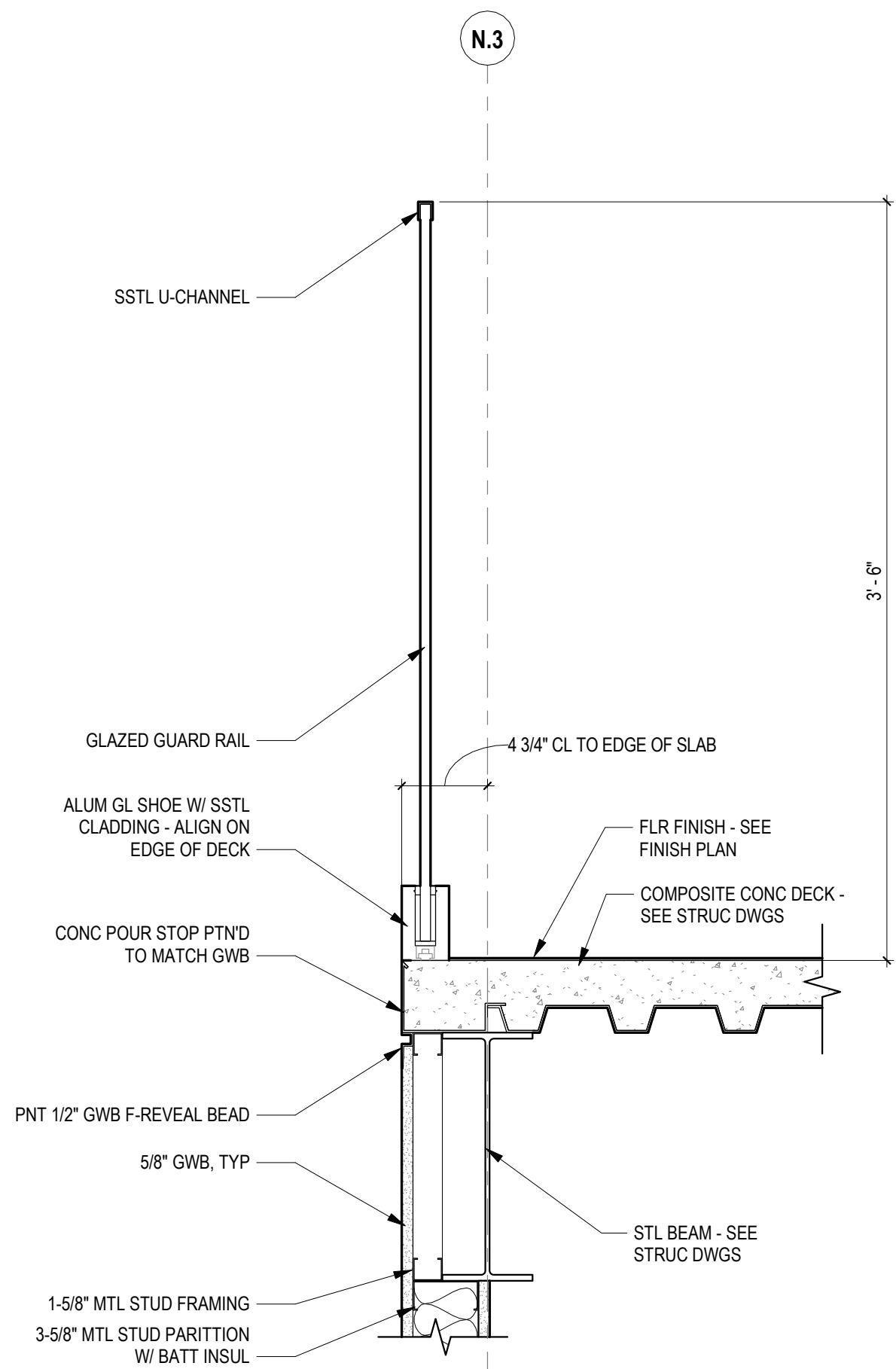
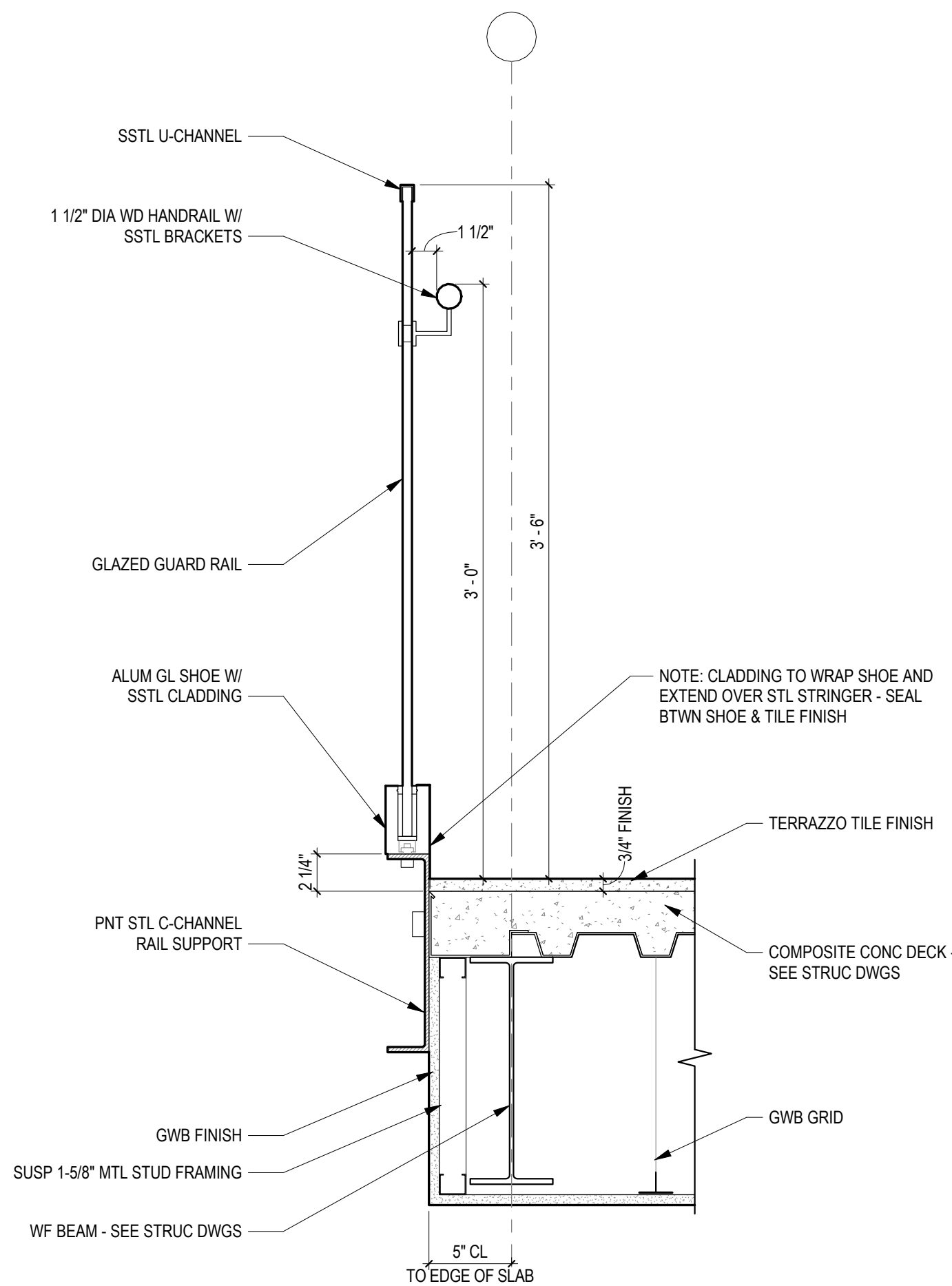
Drawing Set:  
**BID SET II - CONSTRUCTION  
DOCUMENTS**

Drawing Title:  
**MEZZANINE AND STAIR  
DETAILS**

Drawing Number:

**A7.3**

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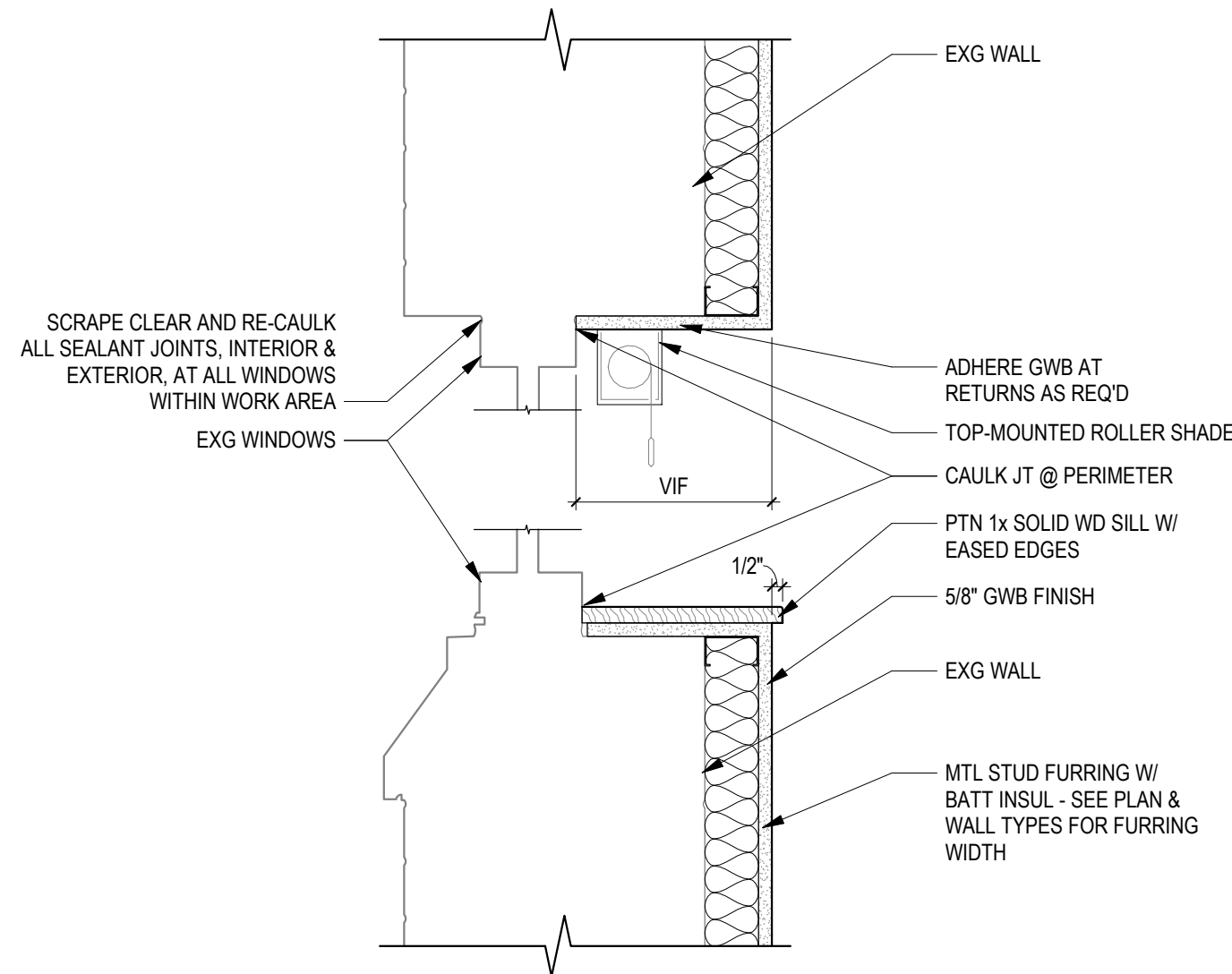
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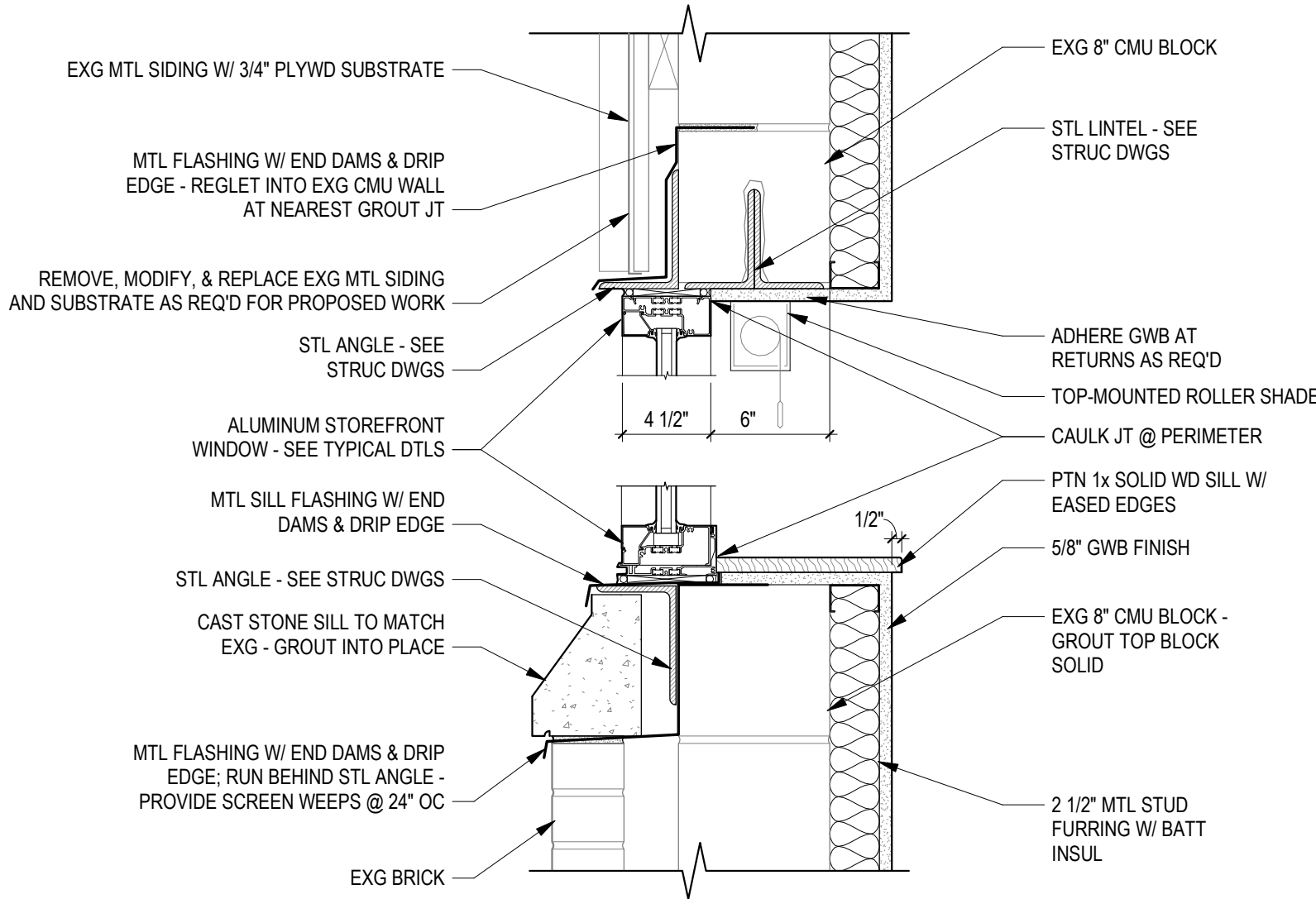
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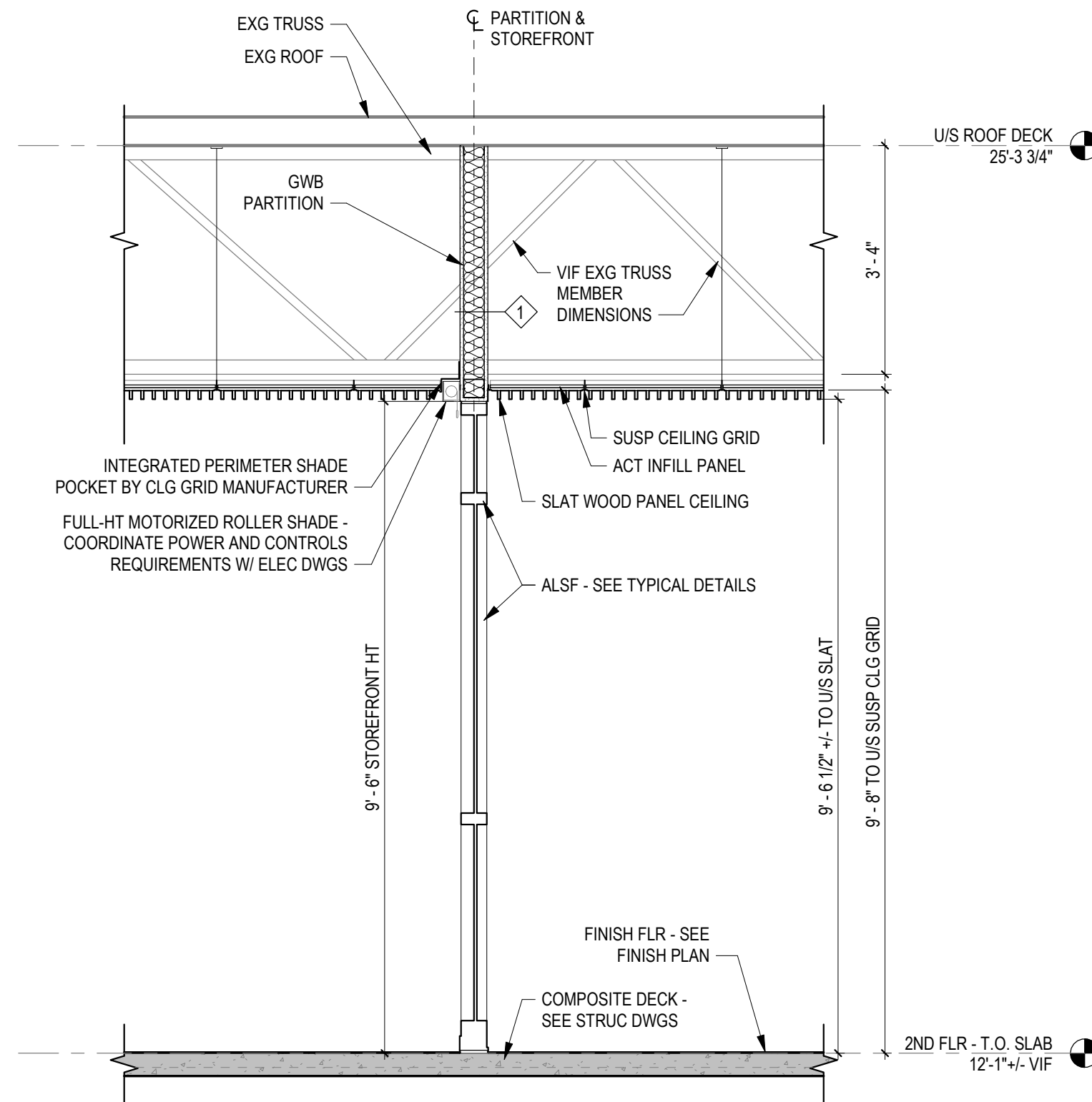
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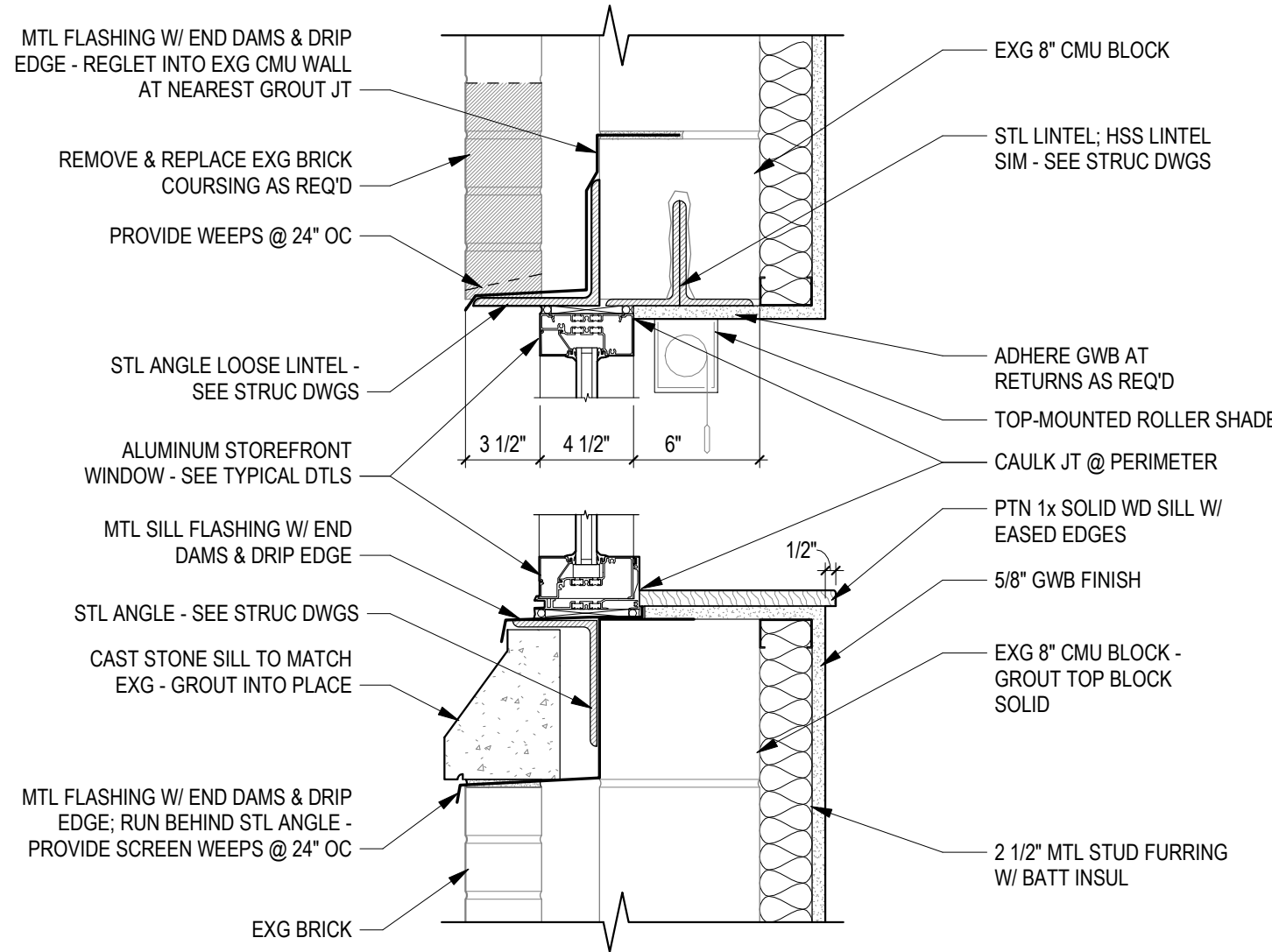
5 HEAD & SILL AT EXG WDWS TO REMAIN  
A8.0 1 1/2" = 1'-0"



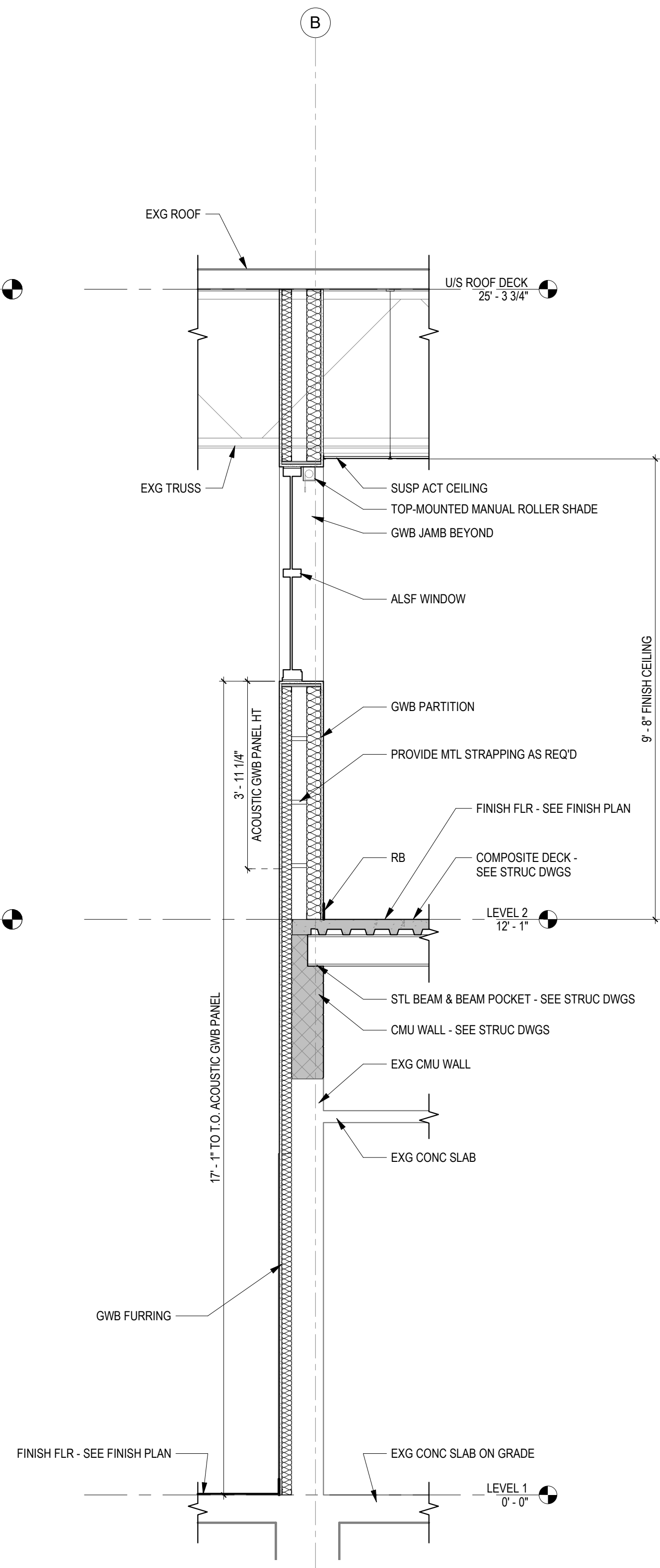
3 WINDOW HEAD & SILL IN EXG WALL @ 2ND FLR  
A8.0 1 1/2" = 1'-0"



4 SECTION THRU CONFERENCE ROOM ALSF  
A8.0 1/2" = 1'-0"



2 WINDOW HEAD & SILL IN EXG WALL  
A8.0 1 1/2" = 1'-0"



1 SECTION THRU MULTIPURPOSE ROOM WALL  
A8.0 1/2" = 1'-0"

No.	Date	Revisions

Seal:

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Job Number: 786  
File:

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2.5.2024

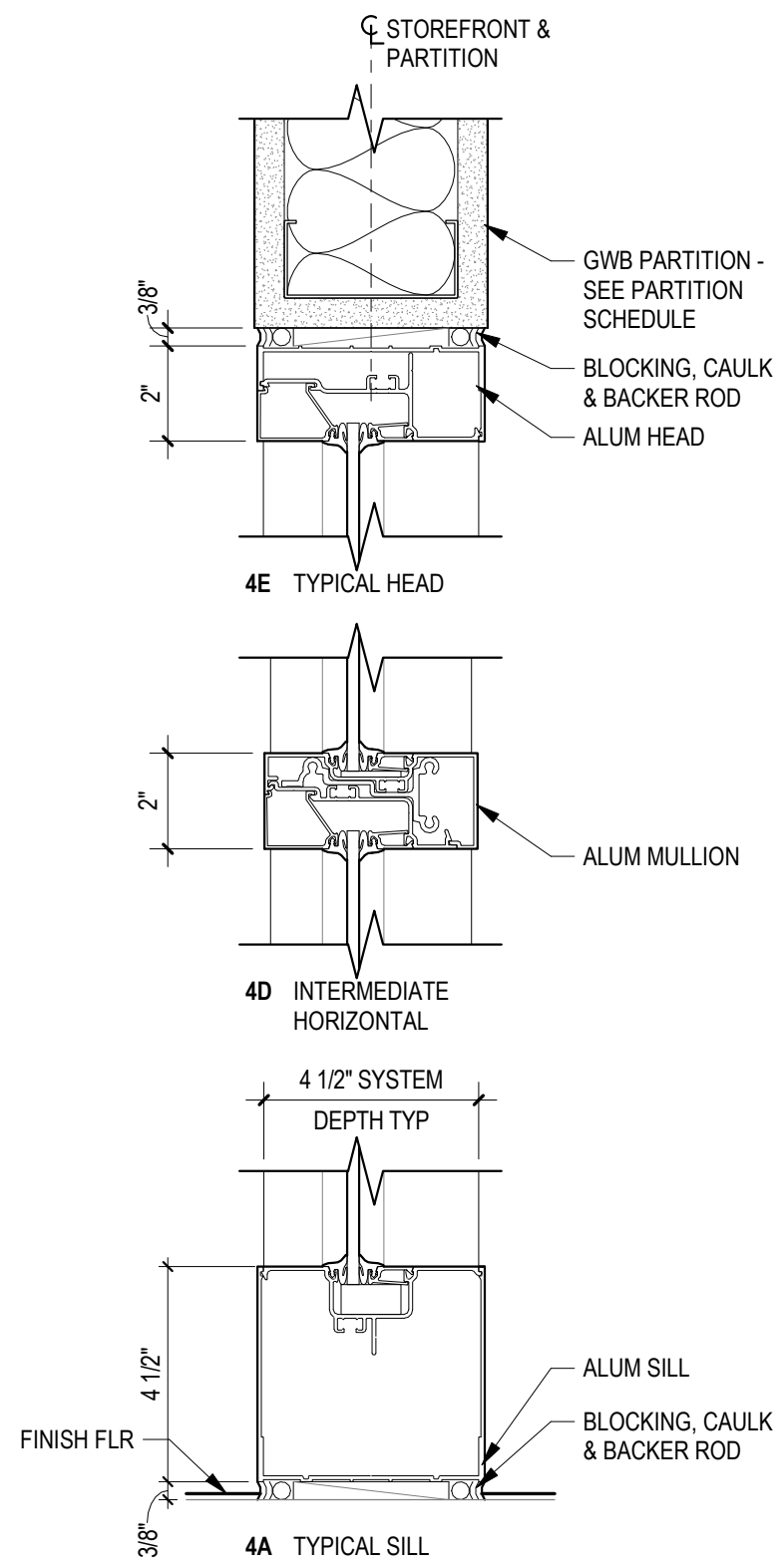
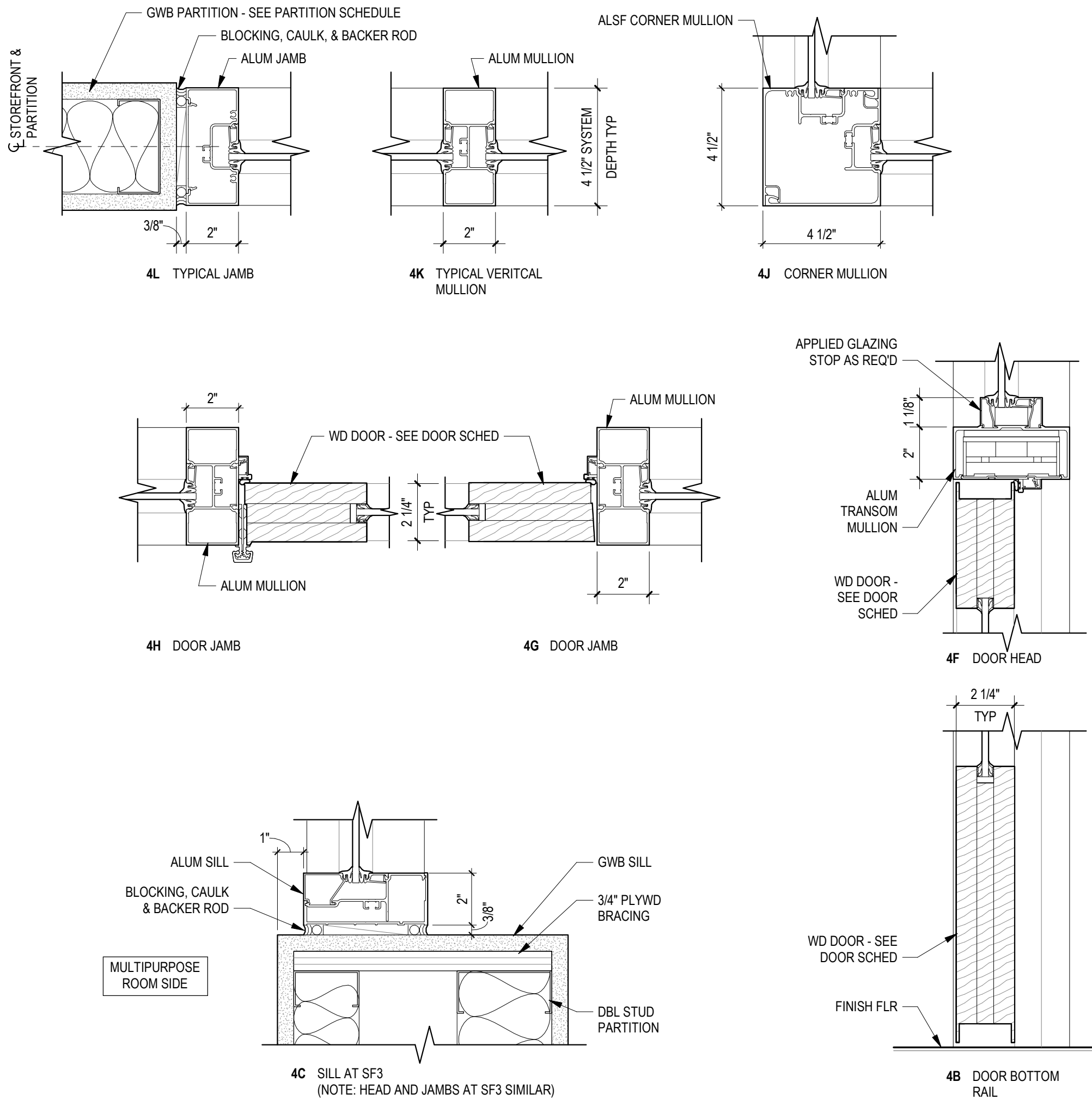
Drawing Set:  
BID SET II - CONSTRUCTION  
DOCUMENTS

Drawing Title:  
WALL SECTIONS AND  
EXTERIOR DETAILS

Drawing Number:

A8.0

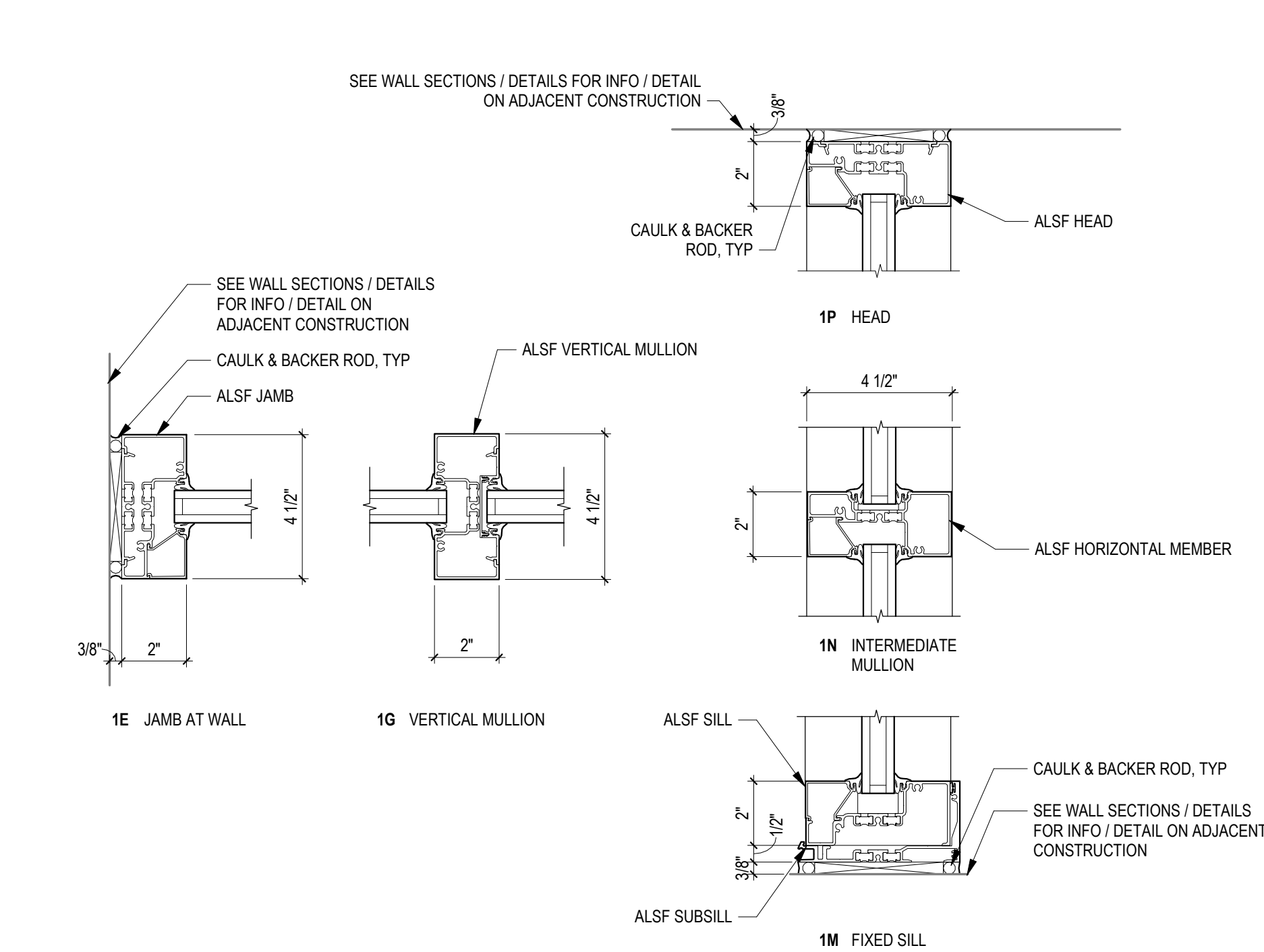
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INTERIOR PARTITION TYPES					
TYPE	DESCRIPTION	HEIGHT	FIRE RATING	PLAN DETAIL	SPECIFICATION
1	3 5/8" MTL STUD PARTITION	TO UNDERSIDE OF DECK, U.N.O.	0		3 5/8" MTL STUDS @ 16" OC, 3 1/2" BATT INSULATION, 5/8" GWB BOTH SIDES.
1A	RATED 3 5/8" MTL STUD PARTITION	TO UNDERSIDE OF DECK, U.N.O.	1		3 5/8" MTL STUDS @ 16" OC, 3 1/2" BATT INSULATION, 5/8" GWB BOTH SIDES.
1B	3 5/8" MTL STUD PARTITION, 5/8" GWB ONE SIDE	TO UNDERSIDE OF DECK, U.N.O.	0		3 5/8" MTL STUDS @ 16" OC, 3 1/2" BATT INSULATION, 5/8" GWB ONE SIDE.
2	6" MTL STUD PARTITION	TO UNDERSIDE OF DECK, U.N.O.	0		6" MTL STUDS @ 16" OC, 3 1/2" BATT INSULATION, 5/8" GWB BOTH SIDES.
2A	RATED 6" MTL STUD PARTITION	TO UNDERSIDE OF DECK, U.N.O.	1		6" MTL STUDS @ 16" OC, 3 1/2" BATT INSULATION, 5/8" GWB BOTH SIDES.
2B	6" MTL STUD PARTITION, 5/8" GWB ONE SIDE	TO UNDERSIDE OF DECK, U.N.O.	0		6" MTL STUDS @ 16" OC, 3 1/2" BATT INSULATION, 5/8" GWB ONE SIDE.
3	DBL MTL STUD PARTITION	TO UNDERSIDE OF DECK, U.N.O.	0		3 5/8" MTL STUDS @ 16" OC W/ 3 1/2" BATT INSULATION, 2 1/2" MTL STUDS W/ 2 1/2" BATT INSULATION, 5/8" GWB BOTH SIDES. FINISHES TO ALIGN W/ ADJACENT CONSTRUCTION.
4	1 5/8" MTL STUD FURRING, 5/8" GWB ONE SIDE	TO UNDERSIDE OF DECK, U.N.O.	0		1 5/8" MTL STUDS @ 16" OC, 5/8" GWB ONE SIDE.
5	2 1/2" MTL STUD FURRING, 5/8" GWB ONE SIDE	TO UNDERSIDE OF DECK, U.N.O.	0		2 1/2" MTL STUDS @ 16" OC, 2 1/2" BATT INSULATION, 5/8" GWB ONE SIDE.
6	4" MTL STUD FURRING, 5/8" GWB ONE SIDE	TO UNDERSIDE OF DECK, U.N.O.	0		4" MTL STUDS @ 16" OC, 5/8" GWB ONE SIDE.
7	7/8" MTL HAT CHANNEL FURRING, 5/8" GWB ONE SIDE	TO UNDERSIDE OF DECK, U.N.O.	0		7/8" MTL HAT CHANNELS @ 16" OC, 5/8" GWB ONE SIDE.
8	8" CMU	TO UNDERSIDE OF DECK, U.N.O.	1		8" CMU. ASSOCIATED FURRING APPLIED AS SEPARATE WALL TYPES.
NOTES: 1. PROVIDE ABUSE-RESISTANT TYPE 'X' GWB AT ALL WALL LOCATIONS. 2. PROVIDE MOISTURE/MOLD RESISTANT GWB IN ALL DAMPIWET LOCATIONS AND ALL CT SUBSTRATE LOCATIONS. 3. ALL NEW GWB CEILINGS AND SOFFIT WALLS TO BE TYPE 'C' GWB, U.N.O. SOFFIT CONSTRUCTION TO BE PARTITION TYPE 1B U.N.O. 4. PROVIDE SOUND BATT INSULATION AT INTERIOR WALLS; PROVIDE UNFACED BATT INSULATION AT EXTERIOR WALL FURRING LOCATIONS. 5. COORDINATE INSTALLATION OF ACOUSTIC GWB AT PARTITION TYPES 3 & 5 IN MULTIPURPOSE ROOM. SEE INTERIOR ELEVATIONS AND DETAILS. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS.					

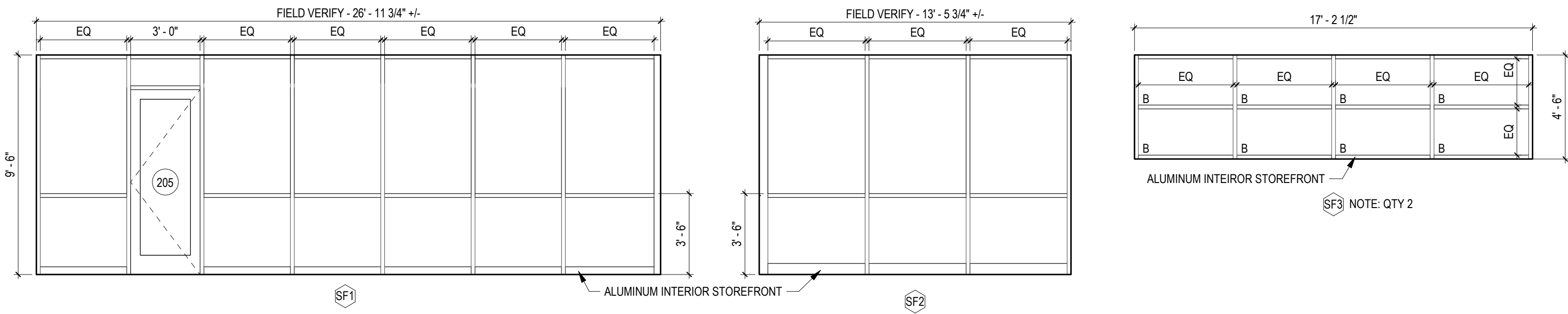
#### 4 INTERIOR ALUMINUM STOREFRONT DETAILS

A9.0 3" = 1'-0"



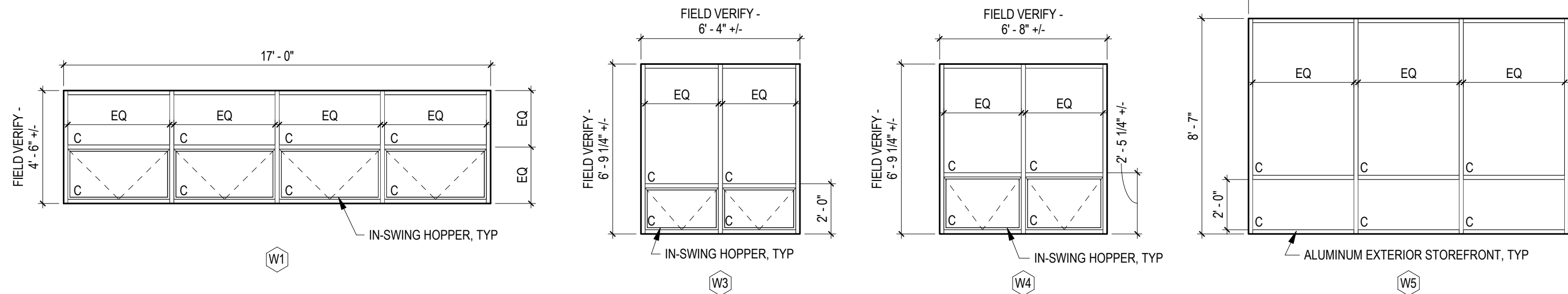
#### 2 EXTERIOR ALUMINUM STOREFRONT WINDOW DETAILS

A9.0 3" = 1'-0"



#### 3 INTERIOR ALUMINUM STOREFRONT TYPES

A9.0 1/4" = 1'-0"



#### 1 EXTERIOR ALUMINUM STOREFRONT WINDOW TYPES

A9.0 1/4" = 1'-0"

WINDOW TYPE NOTES:  
1. PROVIDE INSECT SCREENS AT ALL OPERABLE UNITS.  
2. VERIFY DIMENSIONS AGAINST EXISTING CONDITIONS. SEE EXTERIOR ELEVATIONS FOR ADJACENCIES TO ALIGN.

## OUR LADY OF MERCY ACADEMY LEADERSHIP CENTER

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TYPES AND SCHEDULES

Drawing Number:

# A9.0

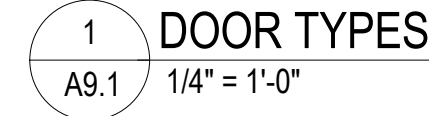
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GLAZING TYPES	
<b>TYPE GL-A:</b>	1/4" CLEAR FLOAT GLASS, TEMPERED.
<b>TYPE GL-B:</b>	1/4" CLEAR FLOAT GLASS.
<b>TYPE GL-C:</b>	1" CLEAR, LOW-E COATED, INSULATED GLAZING UNIT.
<b>TYPE GL-D:</b>	9/16" ANNEALED LAMINATED CLEAR GLASS, STC 38.

\* GLAZING TO ADHERE TO CODE REQUIREMENTS IN RATED DOOR / SIDELITE APPLICATIONS.

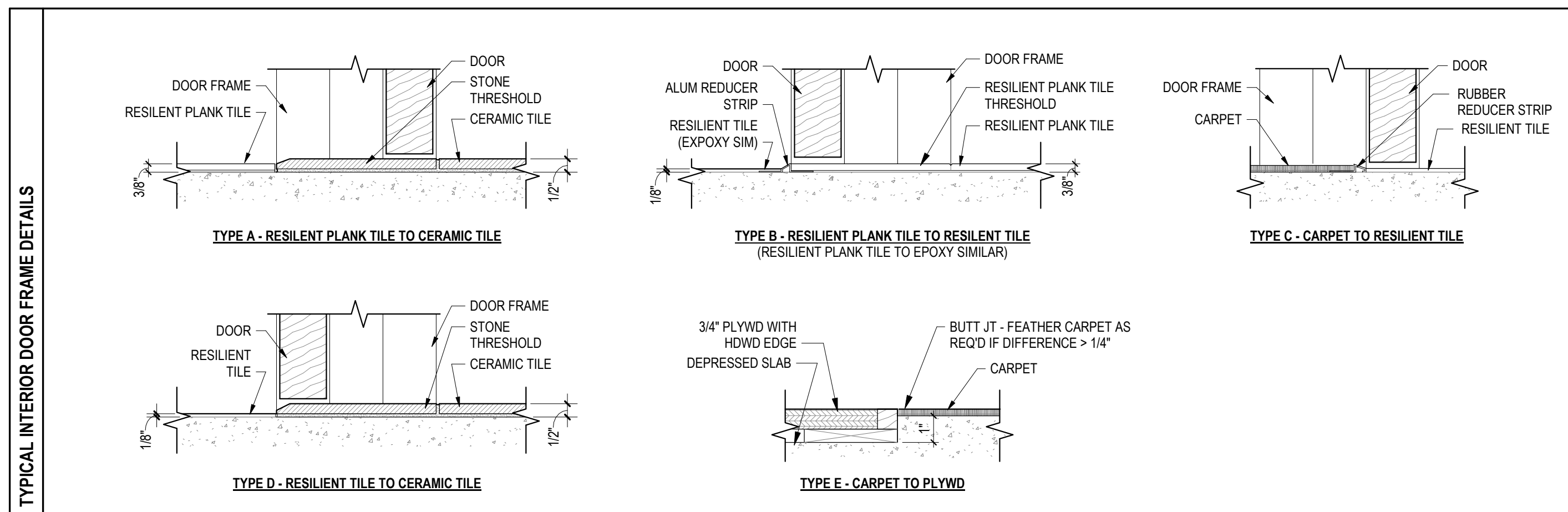
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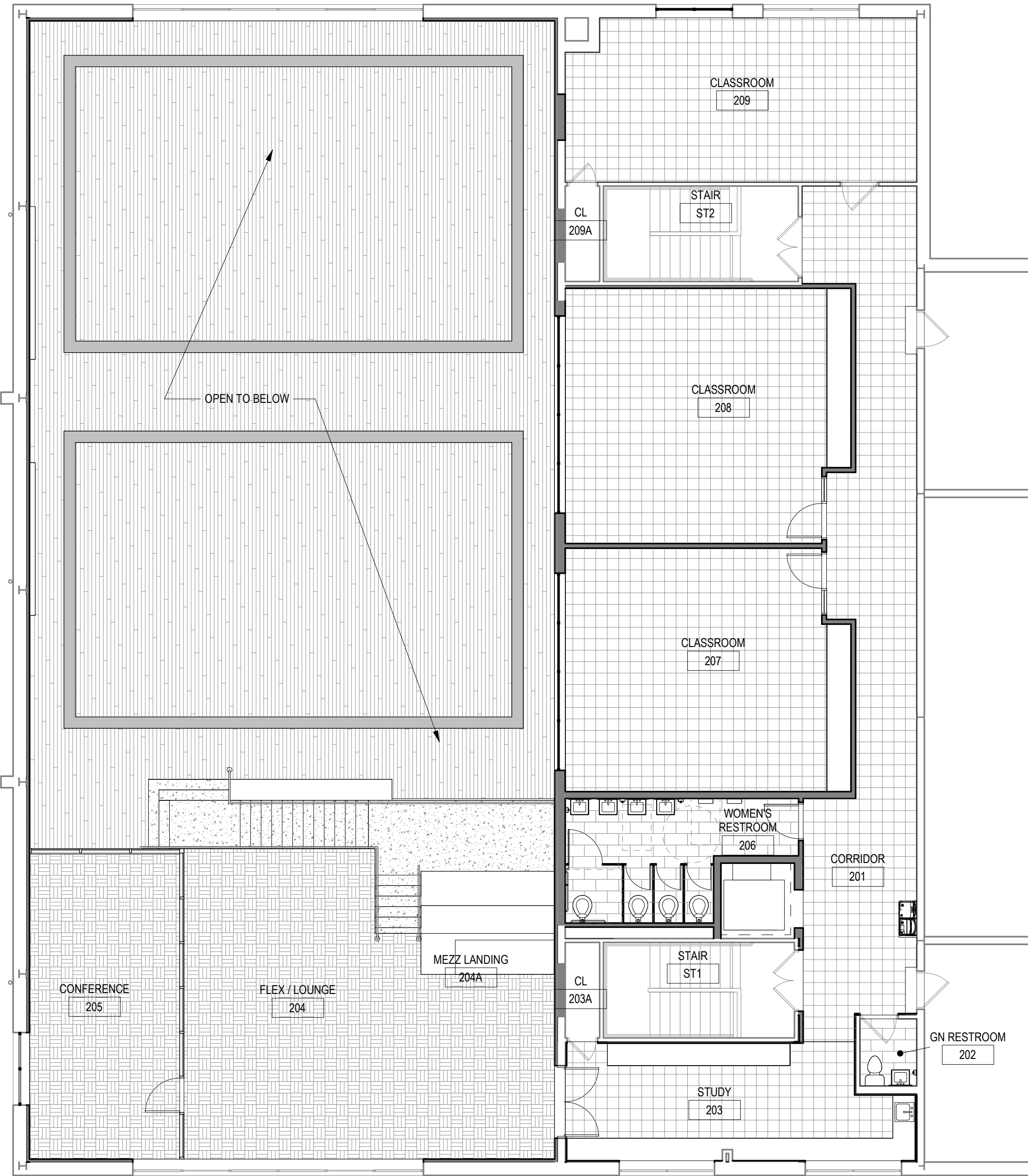
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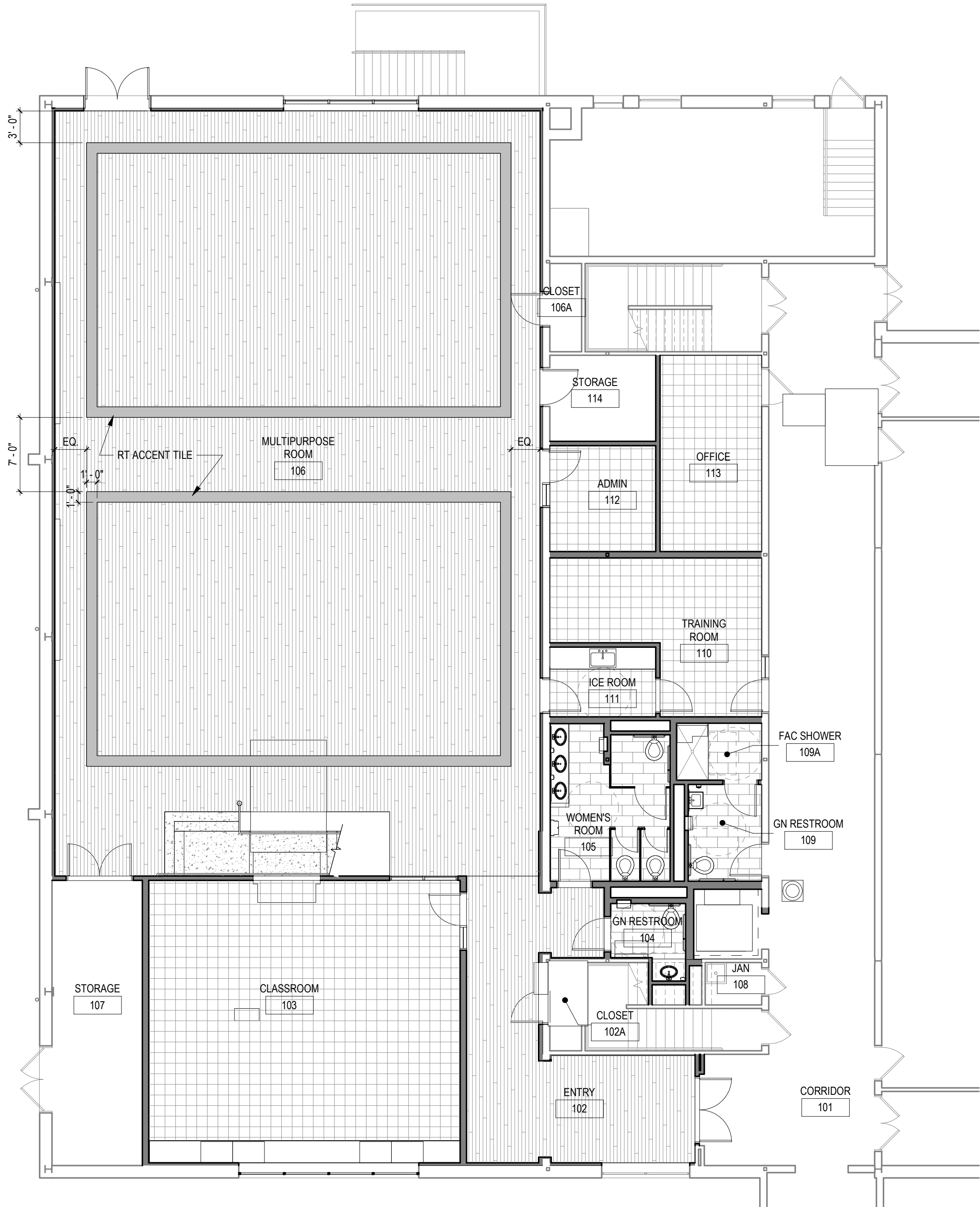
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2 SECOND FLOOR PLAN - FINISH  
A9.2 1/8" = 1'-0"



1 FIRST FLOOR PLAN - FINISH  
A9.2 1/8" = 1'-0"

FINISHES KEY:

- RESILIENT PLANK TILE - MAIN COLOR
- RESILIENT PLANK TILE - ACCENT COLOR
- CARPET TILE
- TERRAZZO / TERRAZZO TILE
- RESILIENT TILE - COORIDOR
- RESILIENT TILE - CLASSROOM
- CERAMIC FLOOR TILE

FINISH SCHEDULE																						
ROOM		FLOOR			BASE			NORTH		EAST		SOUTH		WEST		CEILING			NOTES			
NO	NAME	MAT	FIN	HT	MAT	FIN	HT	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN					
101	CORRIDOR	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG				
102	ENTRY	RT	FF	RB	FF	4"		EXG	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT/GWB	FF/PNT					
102A	CLOSET	RT	FF	RB	FF	4"		EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ES	PNT					
103	CLASSROOM	RT	FF	RB	FF	4"		GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT/GWB	FF/PNT					
104	GN RESTROOM	CT	FF	CT	FF	6"		GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	ACT	FF		CT WAINSCOTTING, TYP			
105	WOMEN'S ROOM	CT	FF	CT	FF	6"		GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	ACT	FF		CT WAINSCOTTING, TYP			
106	MULTIPURPOSE ROOM	RT	FF	RB	FF	4"		GWB/ACOUSTIC GWB	PNT	GWB/ACOUSTIC GWB	PNT	GWB	PNT	GWB/ACOUSTIC GWB	PNT	ES/ACOUSTIC PANELS	PNT/FF					
106A	CLOSET	RT	FF	RB	FF	4"		EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ES	PNT					
107	STORAGE	EPX	FF	EPX	FF	4"		GWB	PNT	GWB	PNT	EXG	PNT	EXG	PNT	ES	PNT					
108	JAN	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG				
109	GN RESTROOM	CT	FF	CT	FF	6"		GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	ACT	FF		CT WAINSCOTTING, TYP			
109A	FAC SHOWER	CT	FF	CT	FF	6"		GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	CT	FF	ACT/GWB	FF/PNT		CT WAINSCOTTING, TYP; FULL HT CT IN SHOWER			
110	TRAINING ROOM	RT	FF	RB	FF	4"		GWB	PNT	EXG	PNT	GWB	PNT	GWB	PNT	ACT	FF					
111	ICE ROOM	RT	FF	RB	FF	4"		GWB	PNT	GWB	PNT	GWB	PNT	EXG	PNT	ACT	FF					
112	ADMIN	RT	FF	RB	FF	4"		GWB	PNT	EXG	PNT	GWB	PNT	EXG	PNT	ACT	FF					
113	OFFICE	EPX	FF	EPX	FF	4"		EXG	PNT	EXG	PNT	GWB	PNT	GWB	PNT	ACT	FF					
114	STORAGE	EPX	FF	EPX	FF	4"		EXG	PNT	GWB	PNT	GWB	PNT	EXG	PNT	ACT	FF					
201	CORRIDOR	RT	FF	RB	FF	4"		EXG	PNT	EXG	PNT	EXG	PNT	GWB	PNT	ACT	FF					
202	GN RESTROOM	CT	FF	CT	FF	6"		EXG/CT	PNT	EXG/CT	PNT	EXG/CT	PNT	EXG/CT	PNT	ACT	FF		CT WAINSCOTTING, TYP			
203	STUDY	RT	FF	RB	FF	4"		EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ACT	FF					
203A	CL	RT	FF	RB	FF	4"		EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ACT	FF					
204	FLEX / LOUNGE	CPT	FF	RB	FF	4"		-	-	GWB/ACOUSTIC GWB	PNT	GWB	PNT	ALSF	FF	SUSP ACCENT WD	FF					
204A	MEZZ LANDING	RT	FF	RB	FF	4"		-	-	GWB	PNT	-	-	GWB	PNT	SUSP ACCENT WD	FF					
205	CONFERENCE	CPT	FF	RB	FF	4"		ALSF	FF	ALSF	FF	GWB	PNT	GWB	PNT	SUSP ACCENT WD	FF					
206	WOMEN'S RESTROOM	CT	FF	CT	FF	6"		GWB/CT	PNT	GWB/CT	PNT	EXG/CT	PNT	GWB/CT	PNT	ACT	FF		CT WAINSCOTTING, TYP			
207	CLASSROOM	RT	FF	RB	FF	4"		GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT	FF					
208	CLASSROOM	RT	FF	RB	FF	4"		GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT	FF					
209	CLASSROOM	RT	FF	RB	FF	4"		EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ACT	FF					
209A	CL	RT	FF	RB	FF	4"		EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ACT	FF					
210	MECH																					
211	MECH																					
ST1	STAIR	RT/RUBBER TREAD	FF	RB	FF	4"		EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ACT	FF		NEW RUBBER TREADS ON EXG CONC STAIRS			
ST2	STAIR	RT/RUBBER TREAD	FF	RB	FF	4"		EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ACT	FF		NEW RUBBER TREADS ON EXG CONC STAIRS - 1ST TO 2ND FLOOR ONLY			

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FINISH PLANS AND  
SCHEDULE

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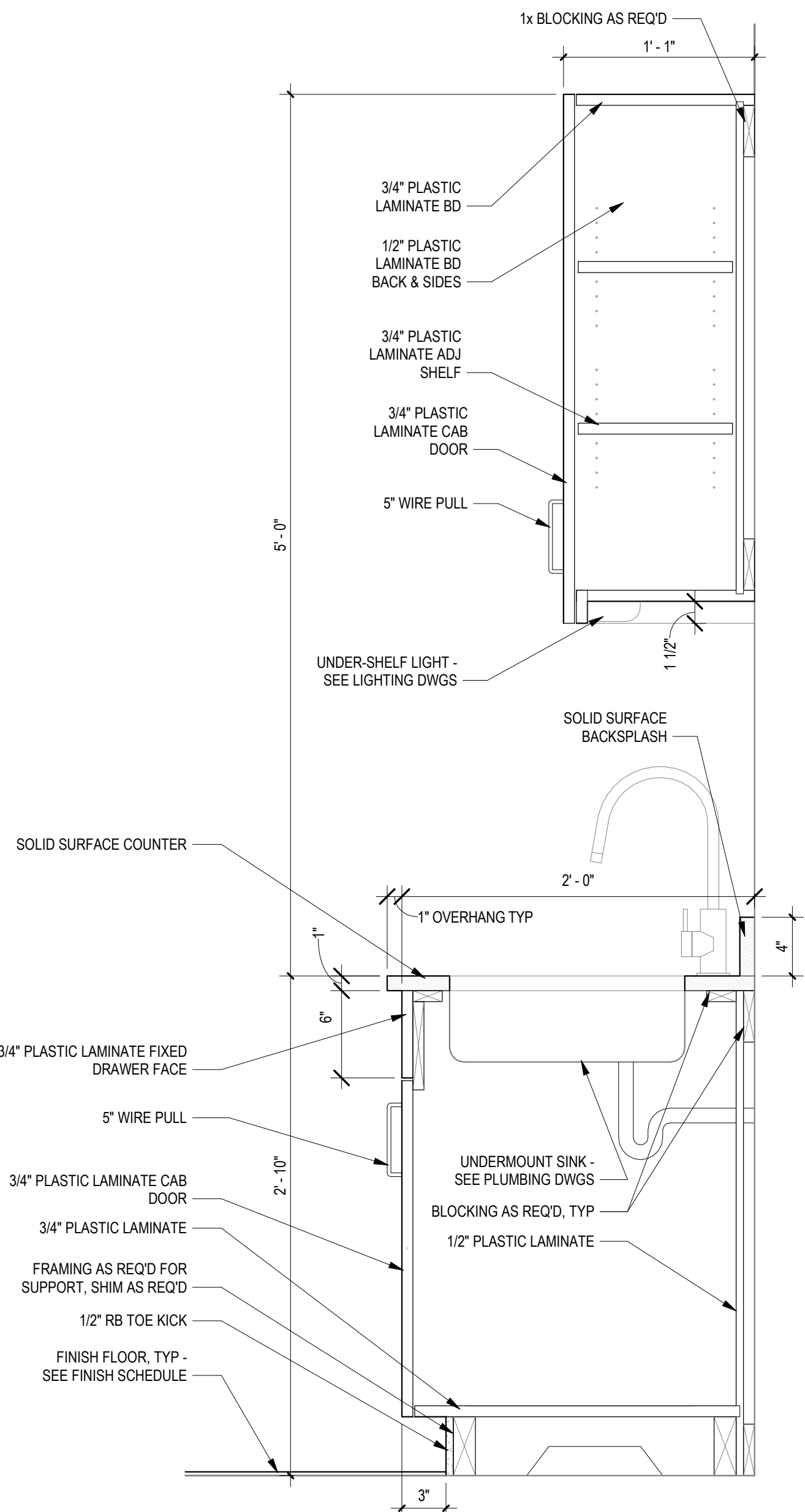
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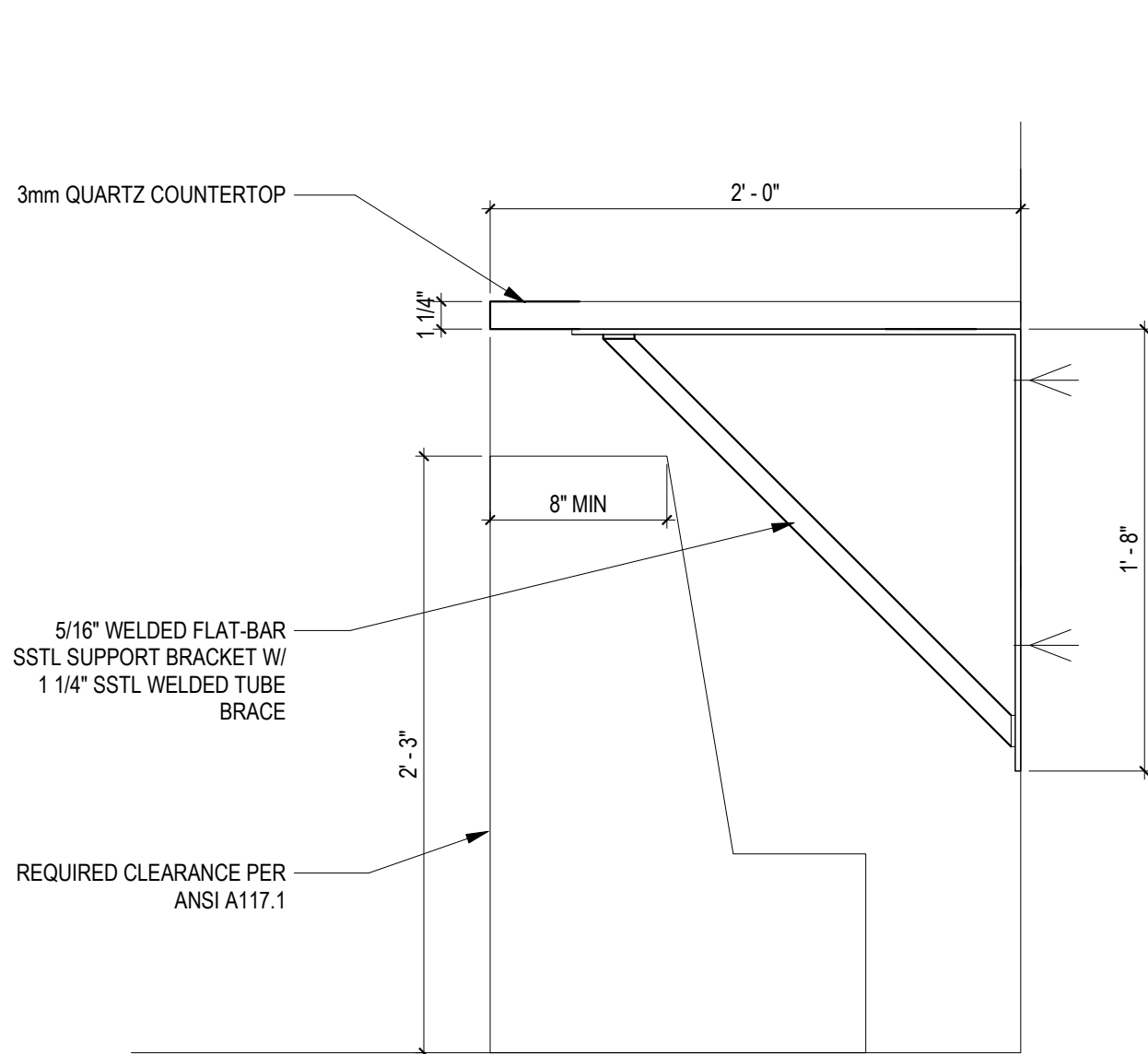
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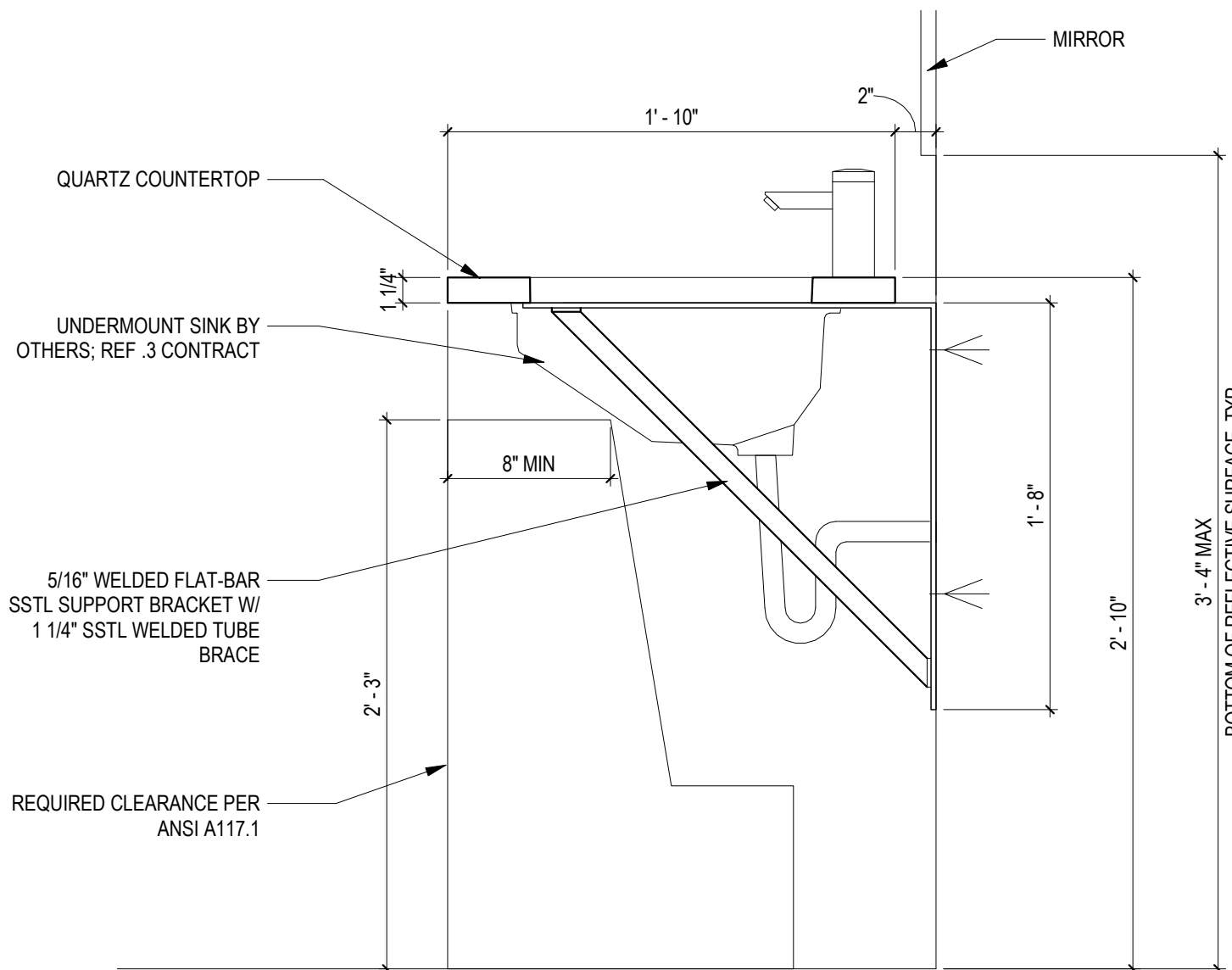
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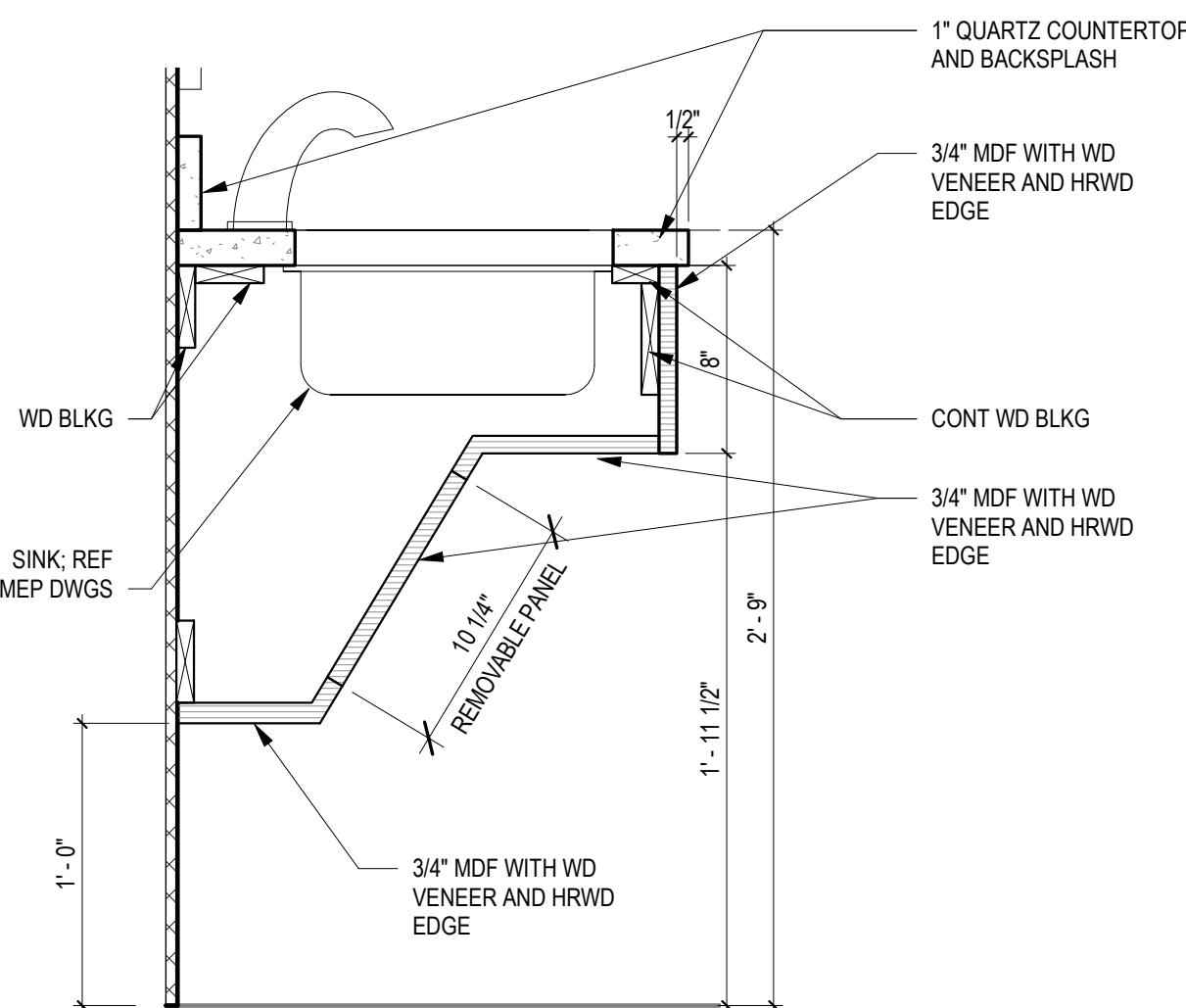
10 CASEWORK - SINK BASE AND WALL CAB  
A10.0 1 1/2" = 1'-0"



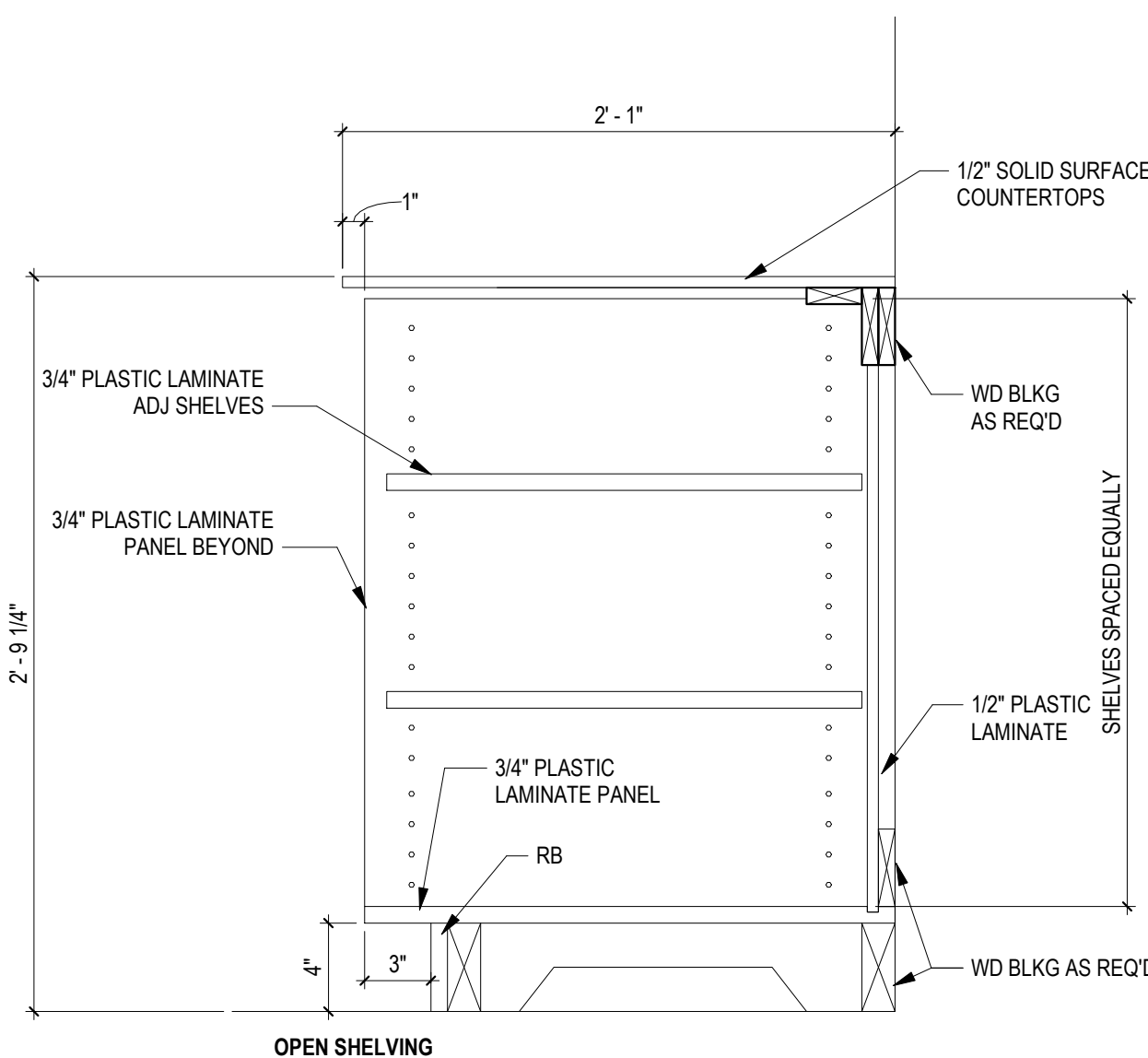
9 CASEWORK - COUNTER WALL MOUNT BRACKETS  
A10.0 1 1/2" = 1'-0"



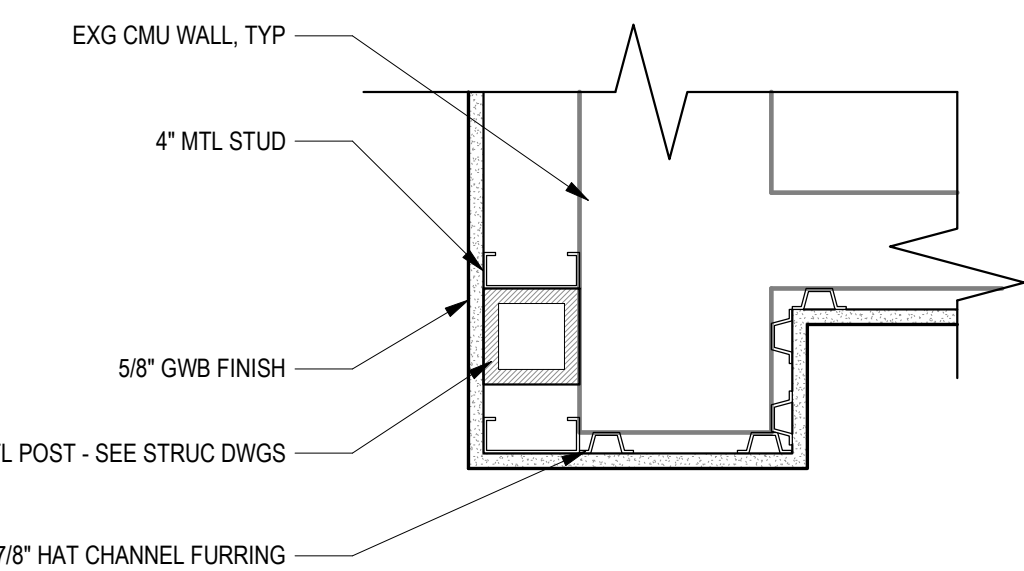
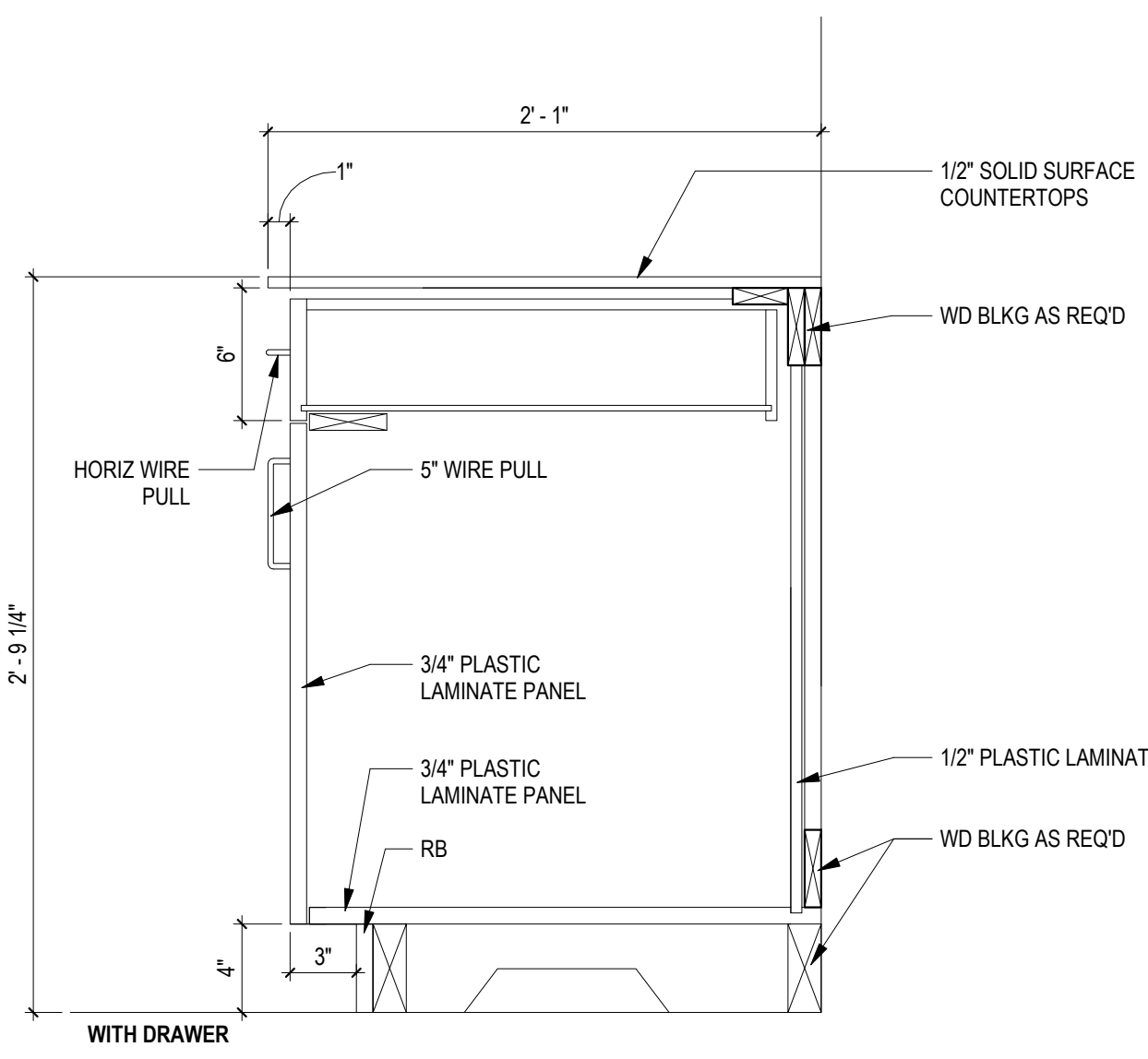
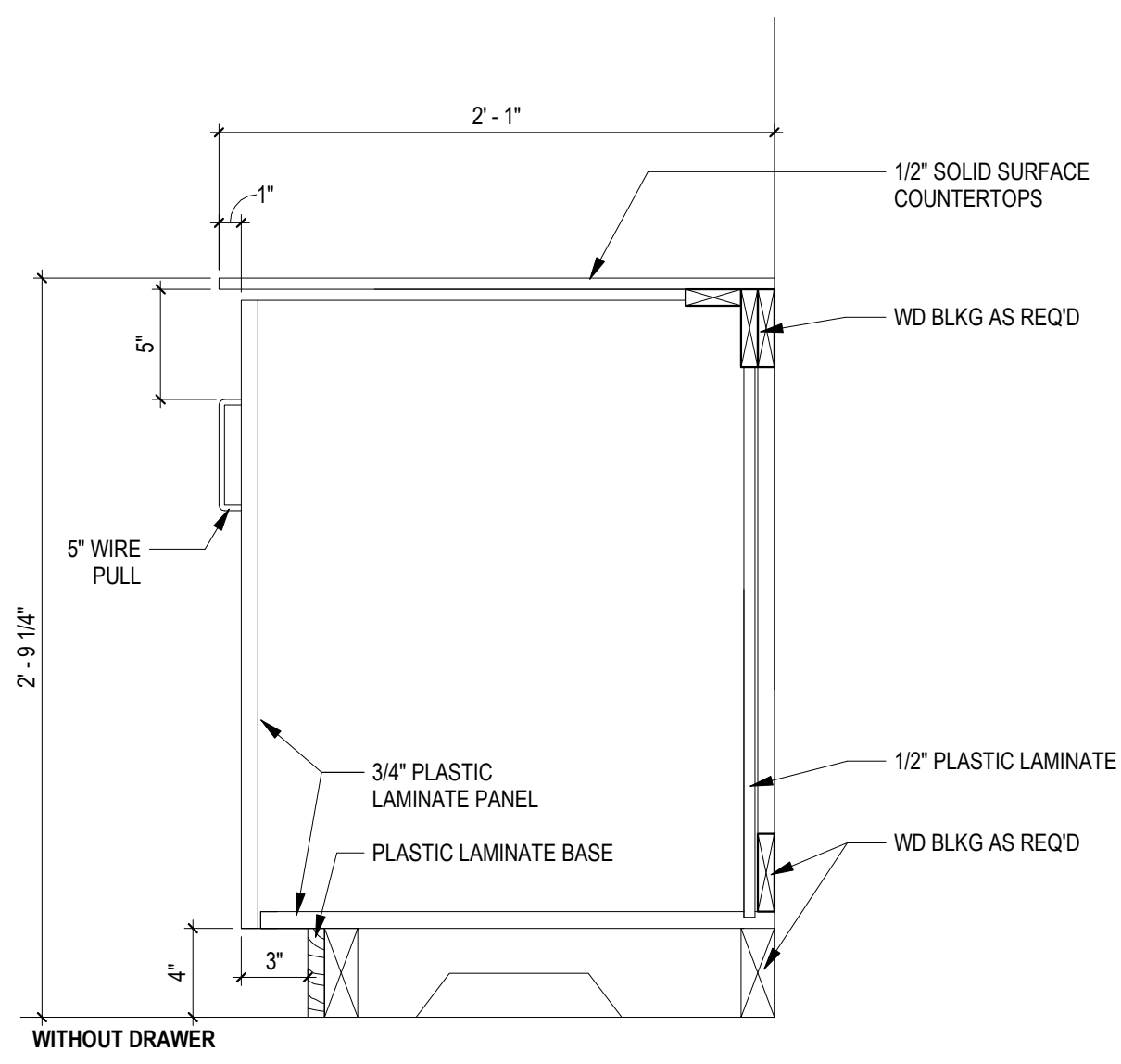
8 CASEWORK - COUNTERMOUNT SINK  
A10.0 1 1/2" = 1'-0"



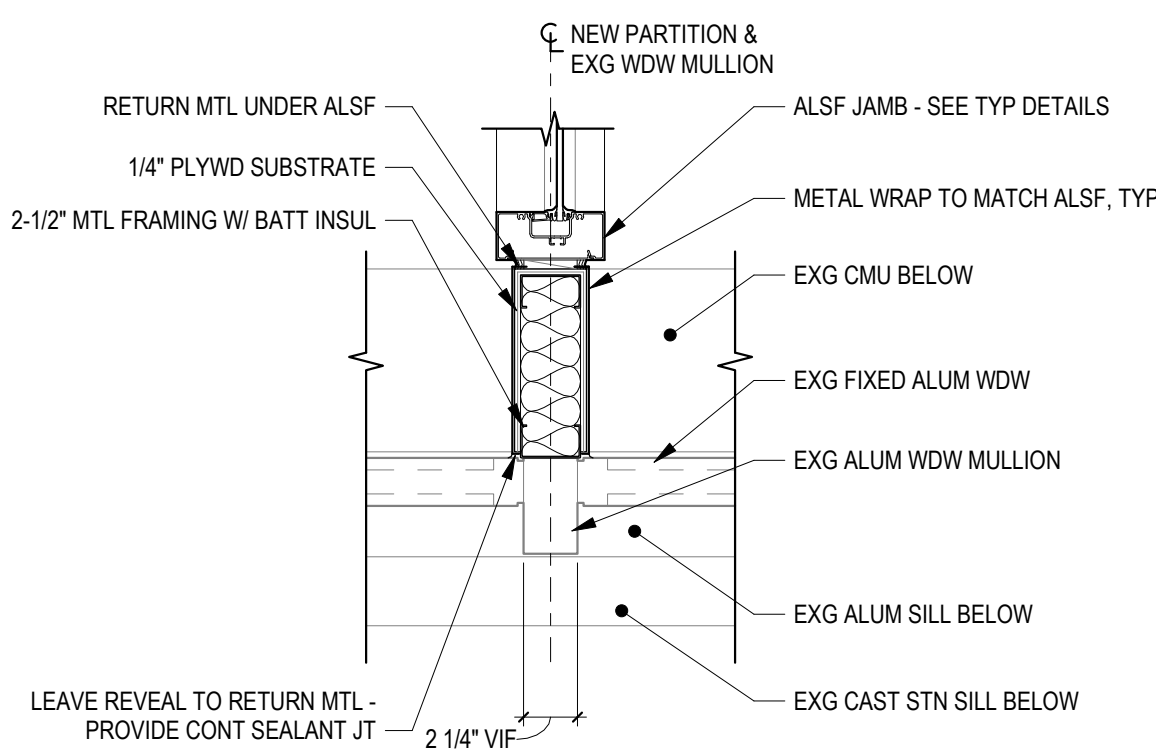
7 105 - N - SINK DETAIL  
A10.0 1 1/2" = 1'-0"



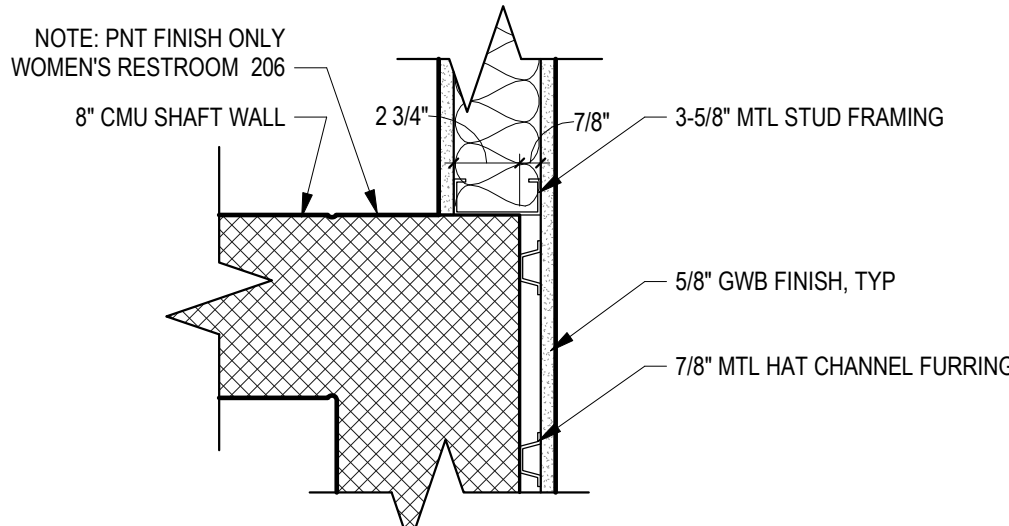
6 CASEWORK - BASE  
A10.0 1 1/2" = 1'-0"



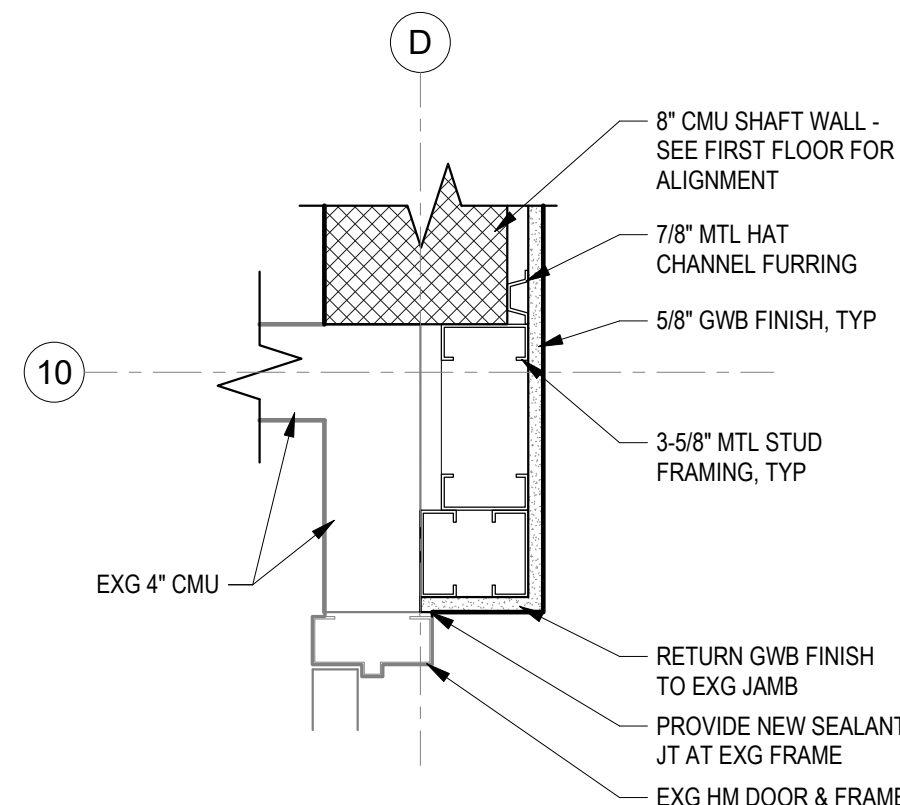
5 ENLARGED JAMB DETAIL AT EXG CMU  
A10.0 1 1/2" = 1'-0"



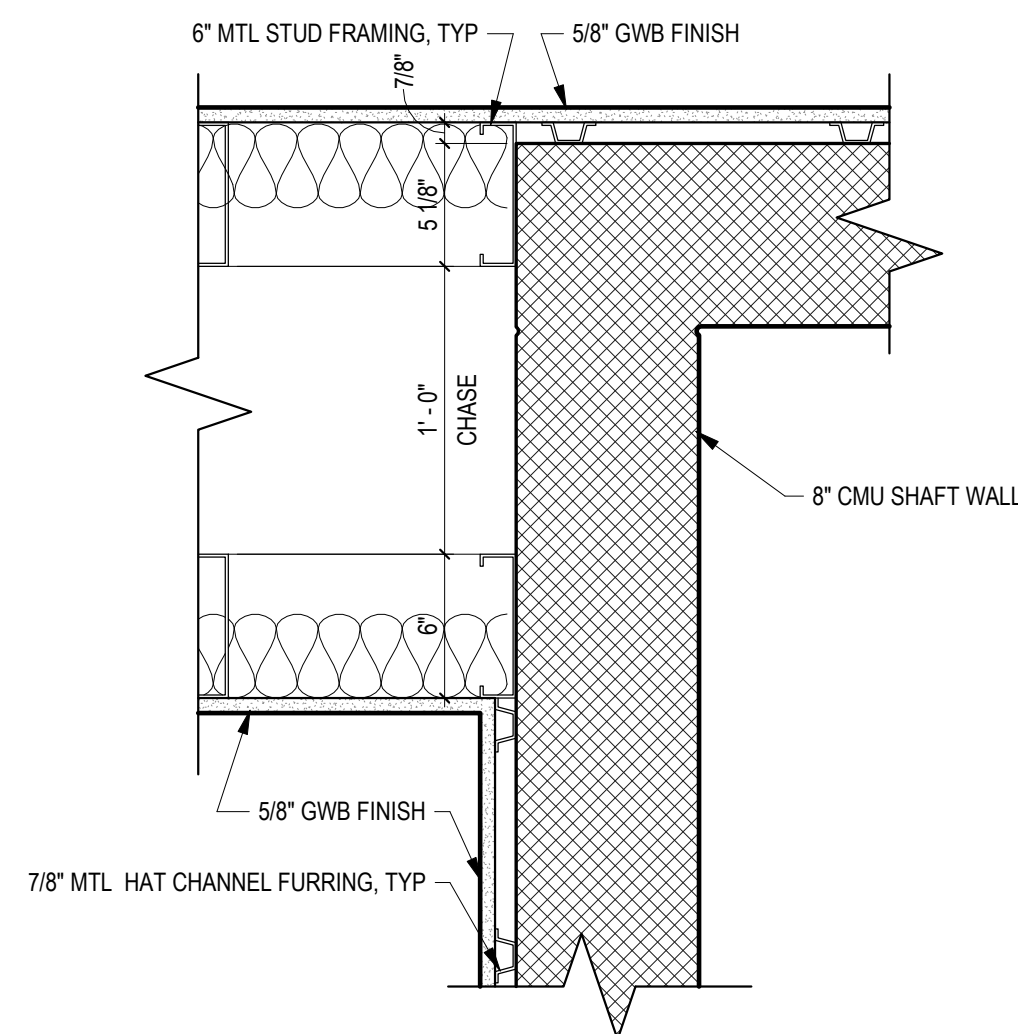
4 ALSF TO EXG WDW MULLION  
A10.0 1 1/2" = 1'-0"



3 SHAFT WALL TO PARTITION AT SECOND FLOOR  
A10.0 1 1/2" = 1'-0"



2 SHAFT WALL TO EXG CMU AT SECOND FLOOR  
A10.0 1 1/2" = 1'-0"



1 SHAFT WALL TO PARTITION AT FIRST FLOOR  
A10.0 1 1/2" = 1'-0"

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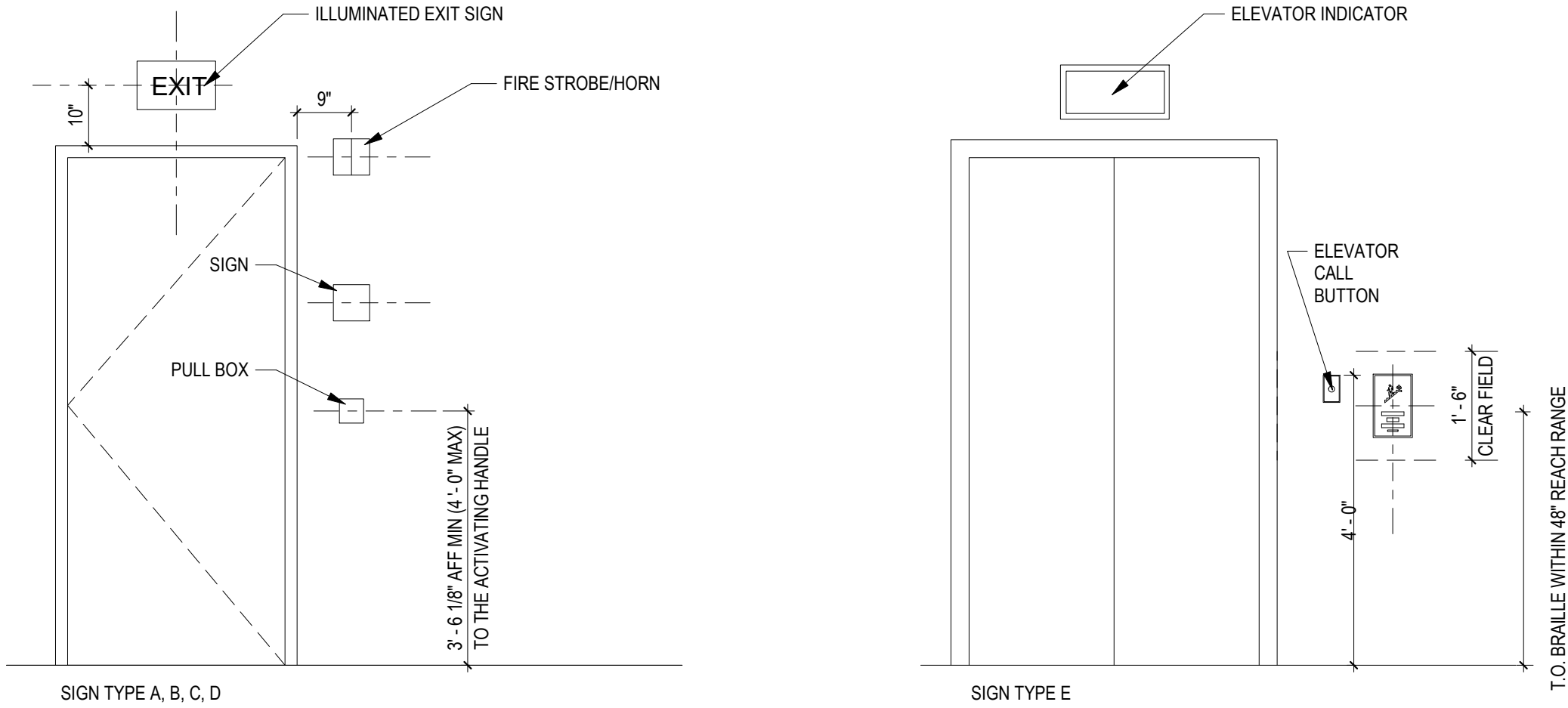
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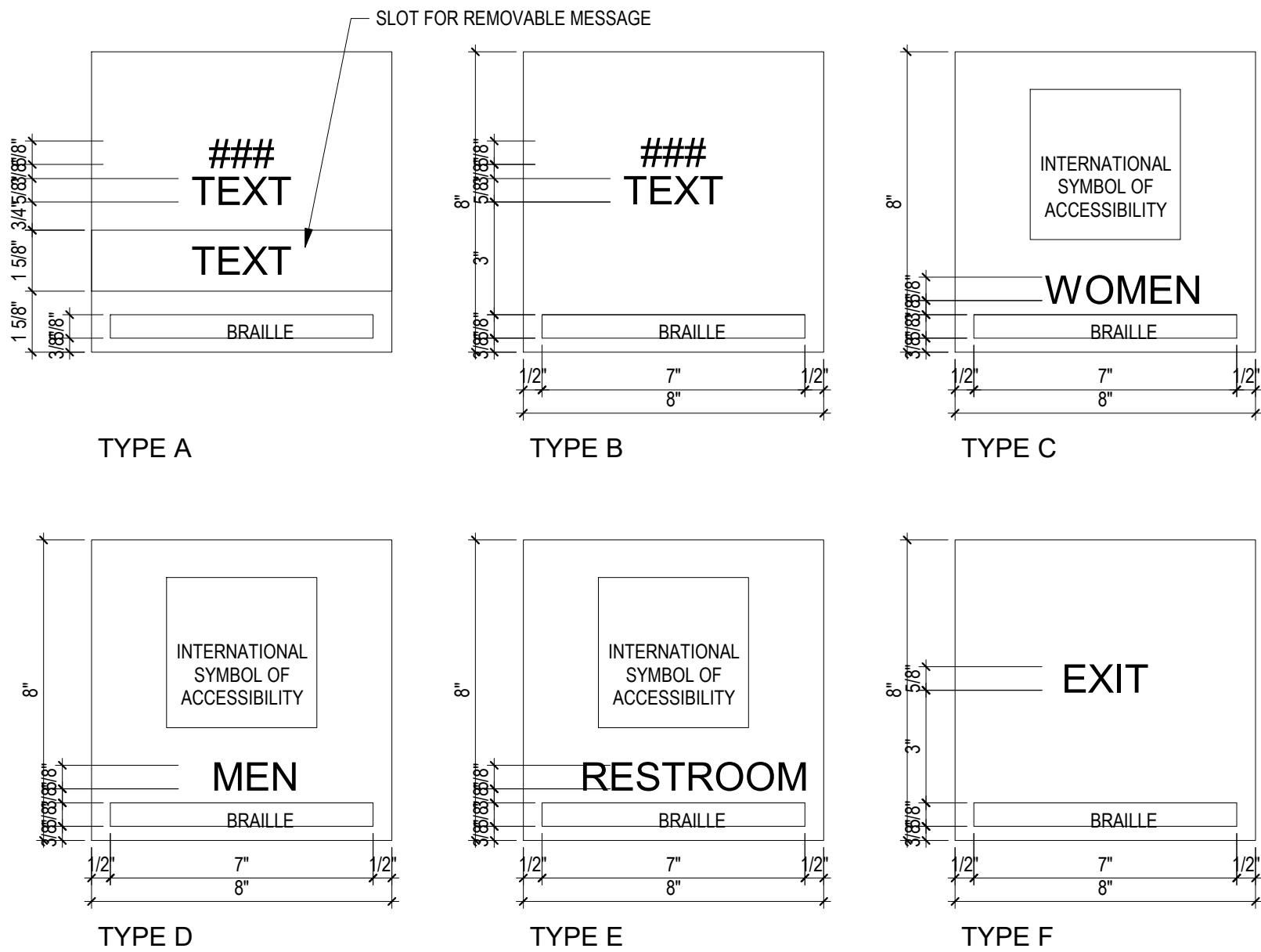
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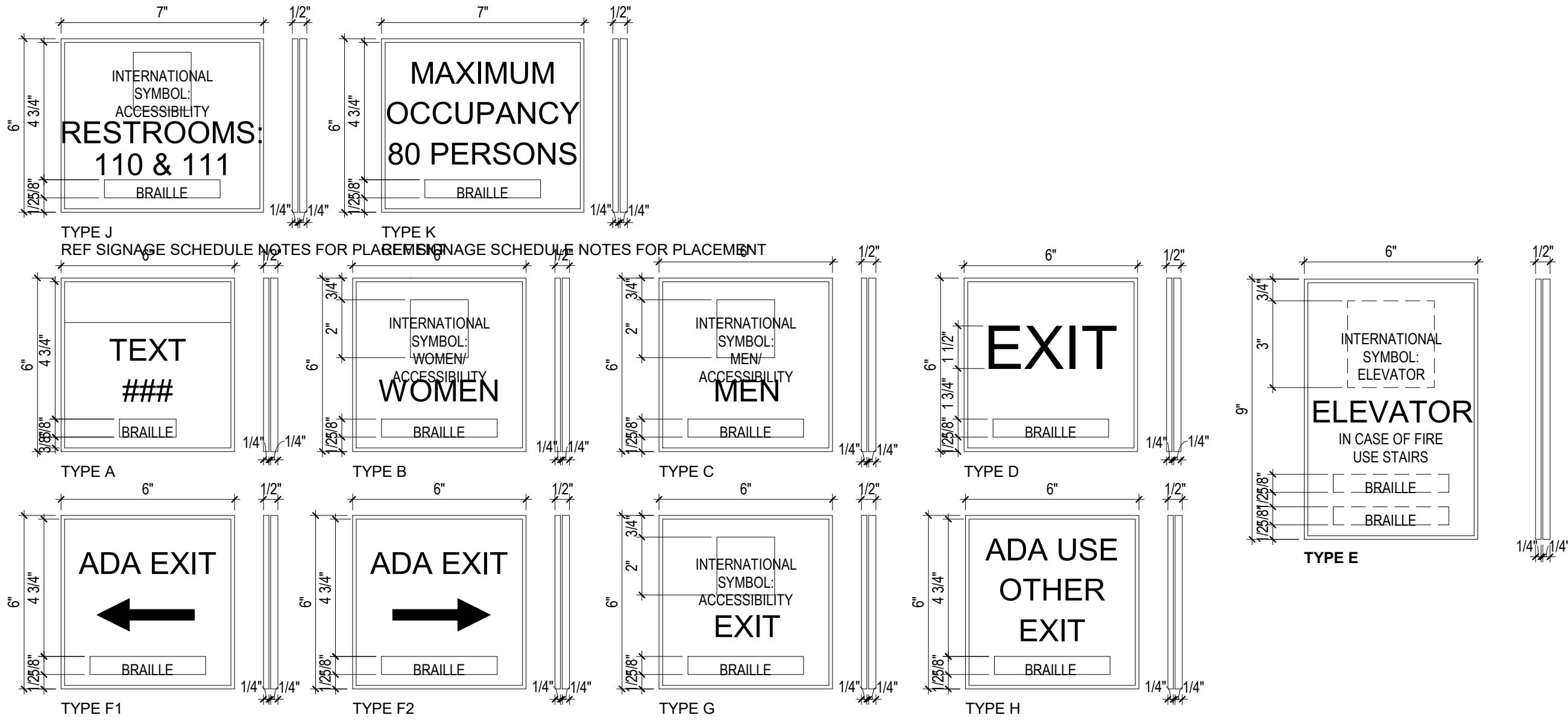
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2 SIGNAGE AND DEVICE PLACEMENT  
A11.0 1/2" = 1'-0"



1 SIGNAGE TYPES  
A11.0 3" = 1'-0"



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SIGNAGE

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DECK SCHEDULE			
MARK	METAL DECK	TOTAL SLAB DEPTH + CONCRETE WEIGHT	SLAB REINFORCING
S1	1 -1/2" 18 GA COMPOSITE	4" NORMAL-WEIGHT	6x6 W1.4xW1.4 WWF
S2	1 -1/2" 20 GA TYPE B ROOF	N/A	N/A

FOOTING SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
F2	2'-0"x2'-0"x1'-0"	(3) #4 EN	
F4	4'-0"x4'-0"x1'-0"	(5) #4 EN	
NOTES: 1. Top of exterior footing -2'-8" relative to top of slab = 0'-0", UNO. 2. Top of interior footing -0'-8" relative to top of slab = 0'-0", UNO. 3. (X'-X") Denotes top of footing if other than -2'-8" or 0'-8". 4. Place exterior footings at elevations noted or so bottom of footings is 3'-0" minimum below finish grade, whichever is deeper. 5. Place horizontal reinforcing 3" clear above footing bottom, UNO. 6. Place dowels in footings to match vertical reinforcing in walls and piers. 7. Center footings under columns and walls, UNO. 8. Step footings as required. 9. Step footings as required so bottom of footing equals bottom of adjacent existing footing. 10. Allowable bearing capacity 2000 psf.			

COLUMN SCHEDULE			
MARK	SIZE	BASE PLATE	REMARKS
C1	HSS6x6x3/8	1'-0"x3/4"x1'-0"	
C2	HSS6x6x3/8	8"x3/4"x1'-0"	PROVIDE (4) 3/4" DIA THREADED RODS W/ 9" EMBED
C3	HSS4x4x3/8	8"x3/4"x1'-0"	PROVIDE (4) 3/4" DIA A325 BOLTS
C4	HSS4x4x3/8		HANGER
C5	HSS4x4x3/8	0'-10"x3/4"x0'-10"	PROVIDE 3/4" DIA THREADED RODS @ ANCHORS INSTALLED INTO EXIST CONC
CA			COLUMN ABOVE
NOTES: 1. Provide four 3/4" diameter ASTM F1554 Grade 36 anchor rods with 2" hook and 4" embedment per base plate, one per corner, UNO. 2. Set base plate on 3/4" non-shrink, non-metallc, high early strength grout.			

LEDGER SCHEDULE		
MARK	TYPE	REMARKS
L1	CONT L4x4x3/8 W/ 3/4" DIA THREADED RODS @ 16" W/ 6" EMBED INTO GROUTED CELLS	

LINTEL SCHEDULE				
MARK	MAX SPAN	TYPE	MIN BRG	REMARKS
LL1	4'-0"	L3-1/2x3-1/2x5/16 OR 4x8 PRECAST W/ #3 T#5	4" 8"	
LL2	6'-0"	L4x3-1/2x5/16 OR 4x8 PRECAST W/ #3 T & #4 B	4" 8"	
LL3	8'-0"	L5x3-1/2x5/16 OR 4x8 PRECAST W/ #3 T & #5 B	4" 8"	
NOTES: 1. Provide one precast unit or steel angle for each 4" thickness of supported masonry, UNO. 2. Provide lintels per max span above for openings in masonry partitions and for other masonry openings not shown on structural drawings, see architectural and mechanical drawings. 3. Galvanize exterior angles. 4. Provide minimum specified bearing on solid or solid grouted masonry. 5. Long leg vertical angles, UNO.				

No.	Date	Revisions

Seal:

Drawn: MCM	Checked: MBH	Approved: MBH
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Job Number: 5352

File:

Date:

1.31.2024

Drawing SetBID SET II - CONSTRUCTION  
DOCUMENTS

Drawing Title:  
SCHEDULES

Drawing Number:

S0.1

Design Team:

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Date: 1.31.2024

Drawing Title:

FRAMING PLANS

Drawing Number:

**S1.0**



Design Team:

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Job Number: 5352

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Date:

1.31.2024

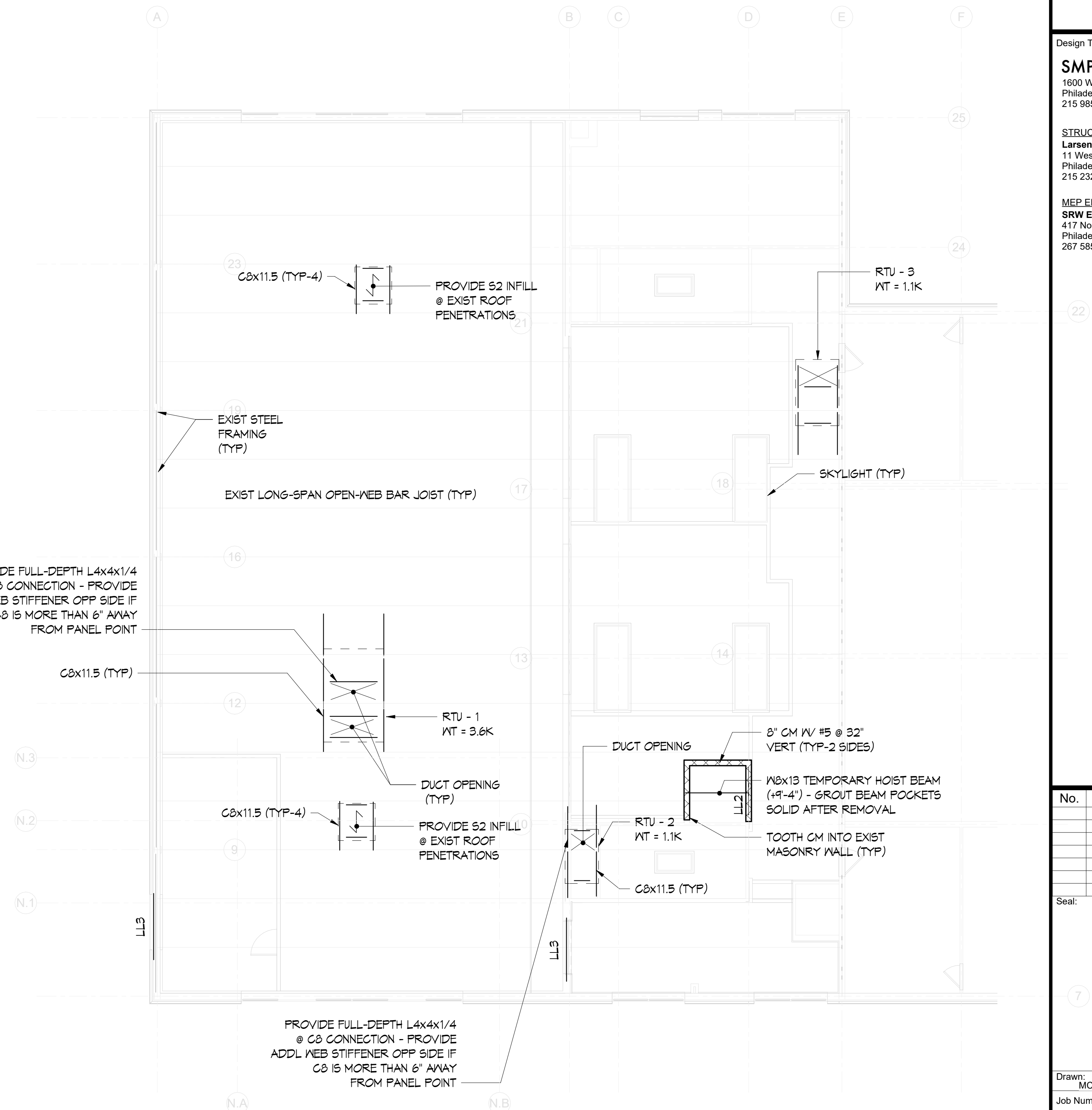
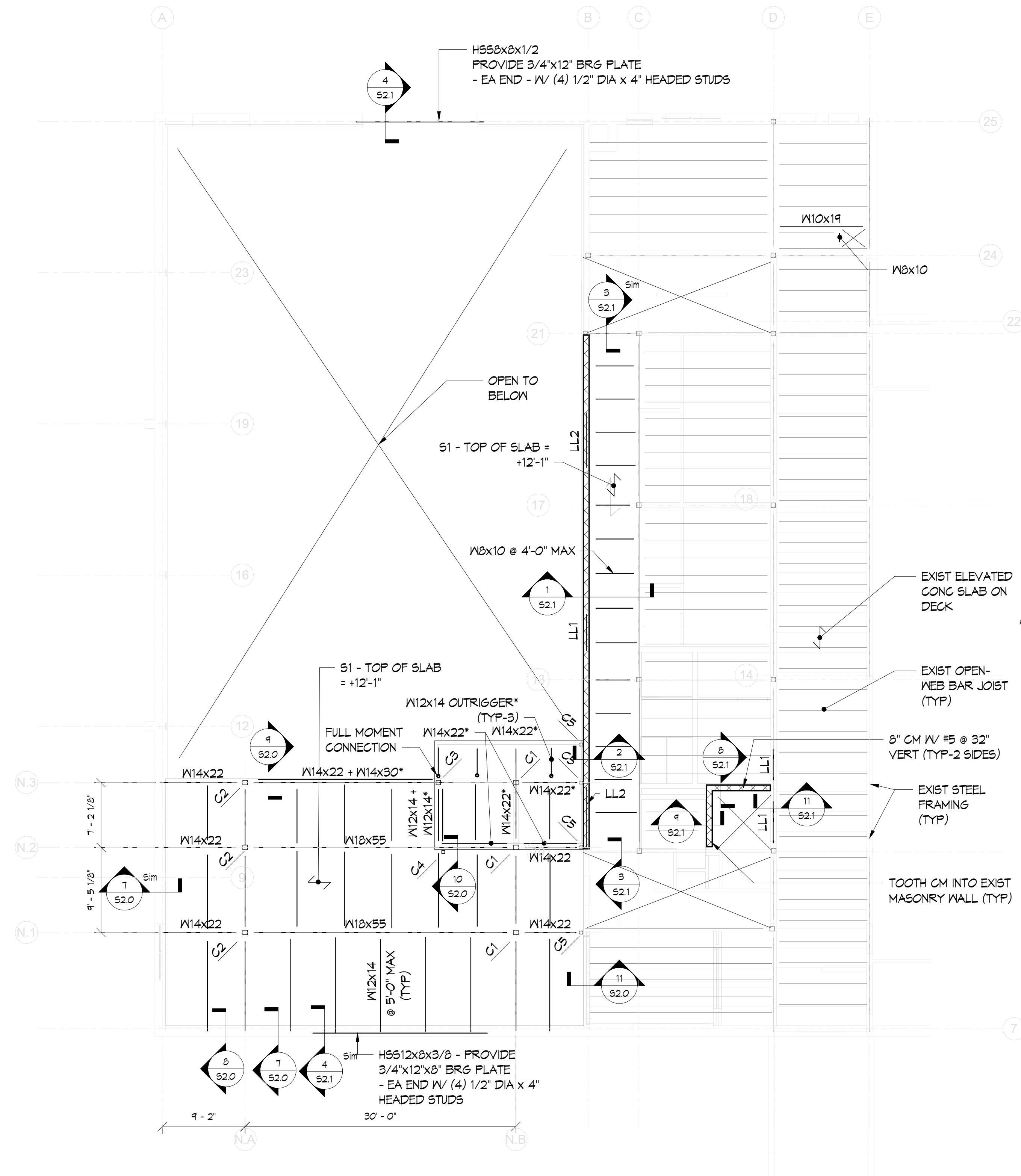
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**FRAMING PLANS**

Drawing Number:

# S1.1

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8  
S1.1

**SECOND FLOOR FRAMING PLAN**

1/8" = 1'-0"

NOTES: TOP OF STEEL = (-0'-4") BELOW TOP OF ELEVATED SLAB = (+12'-1"). ELEVATIONS NOTED (+/- X'-X") ARE RELATIVE TO TOP OF SECOND FLOOR SLAB = (+12'-1").

\*DENOTES TOP OF STEEL (-3'-10").

2 ROOF FRAMING PLAN  
S1.1 1/8" = 1'-0"

NOTES: ELEVATIONS NOTED (+/- 'X'-X") ARE RELATIVE TO TOP OF SECOND FLOOR SLAB = (+12'-1").

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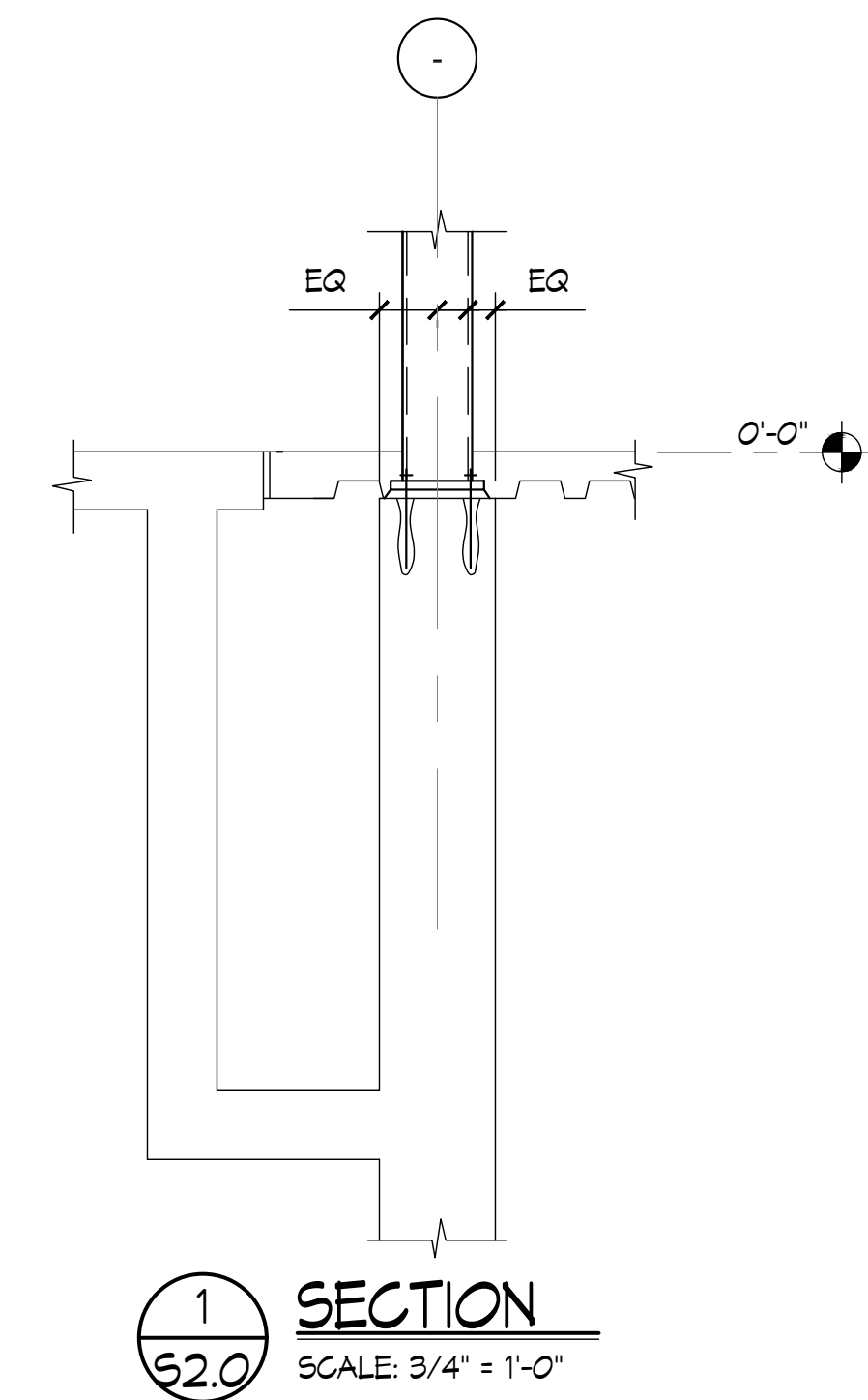
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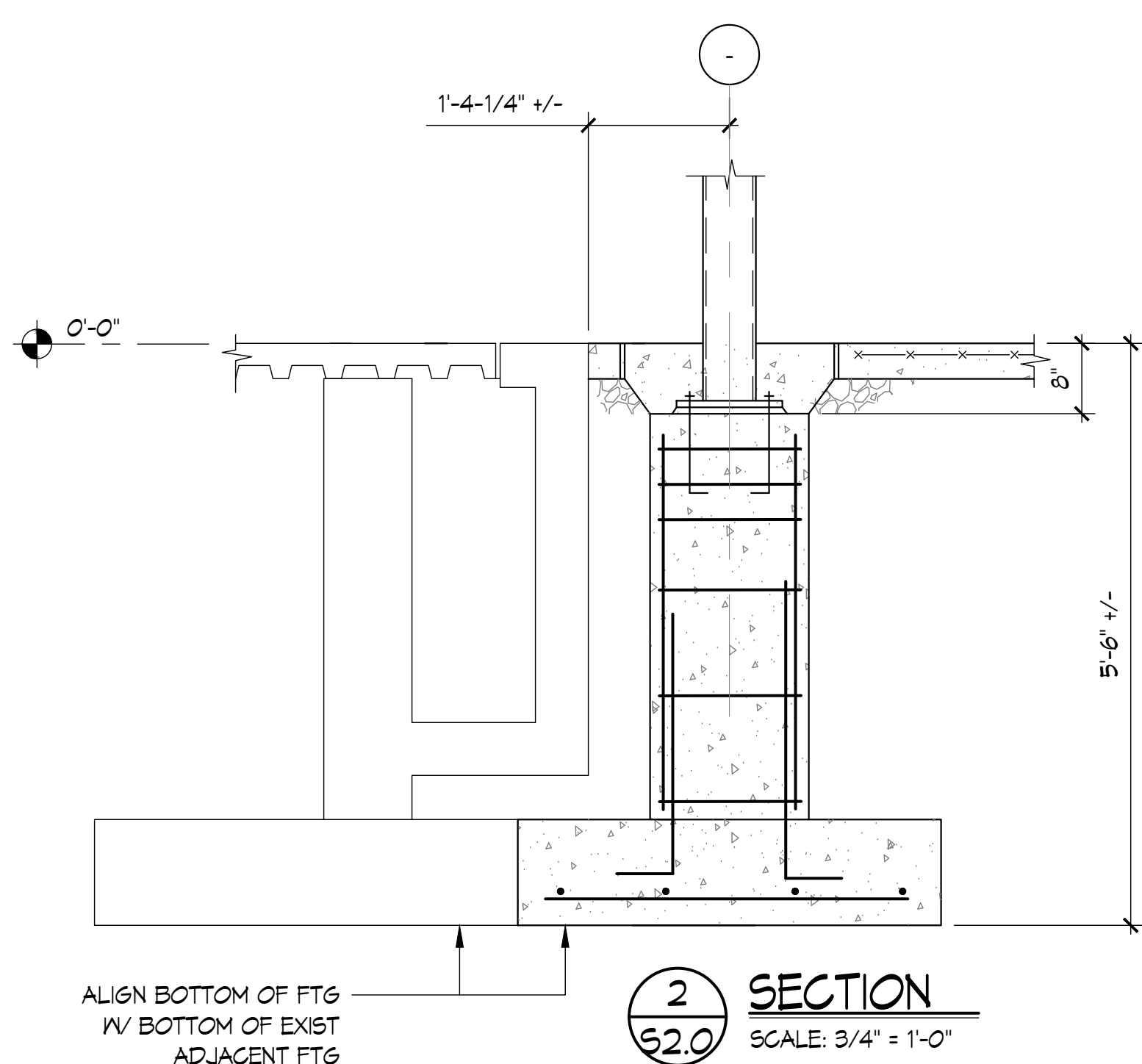
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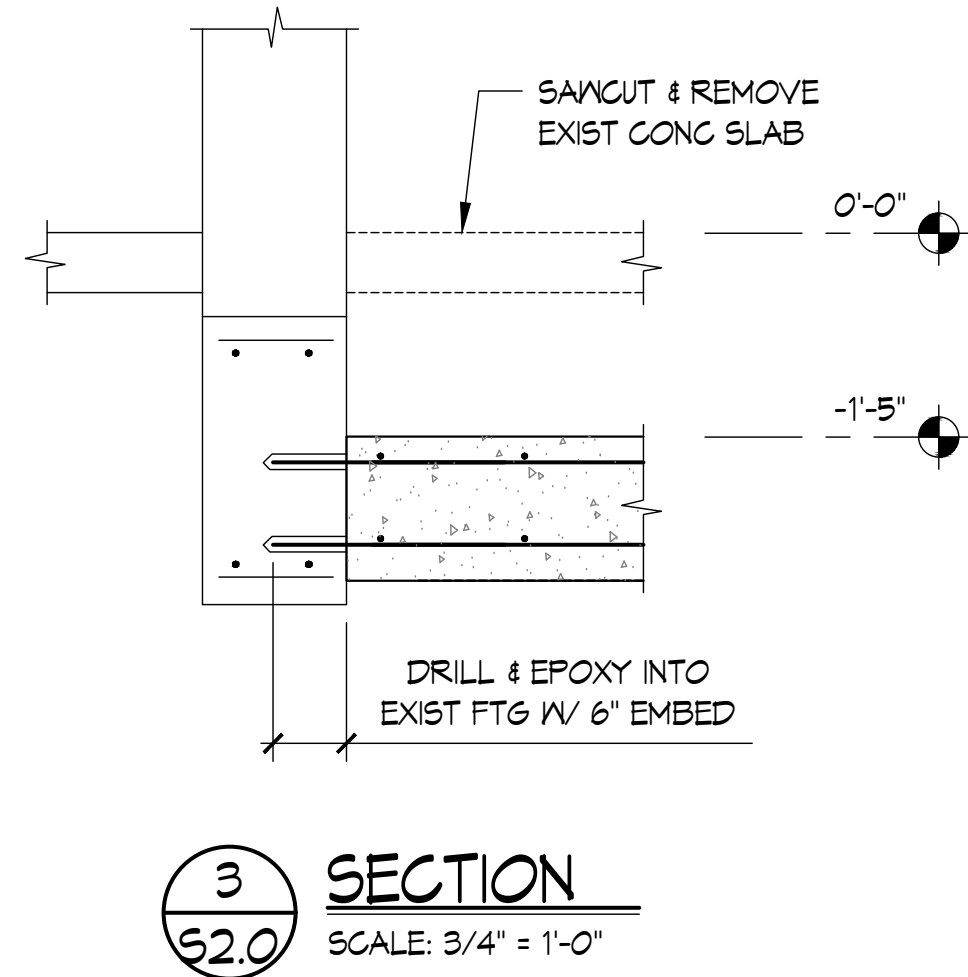
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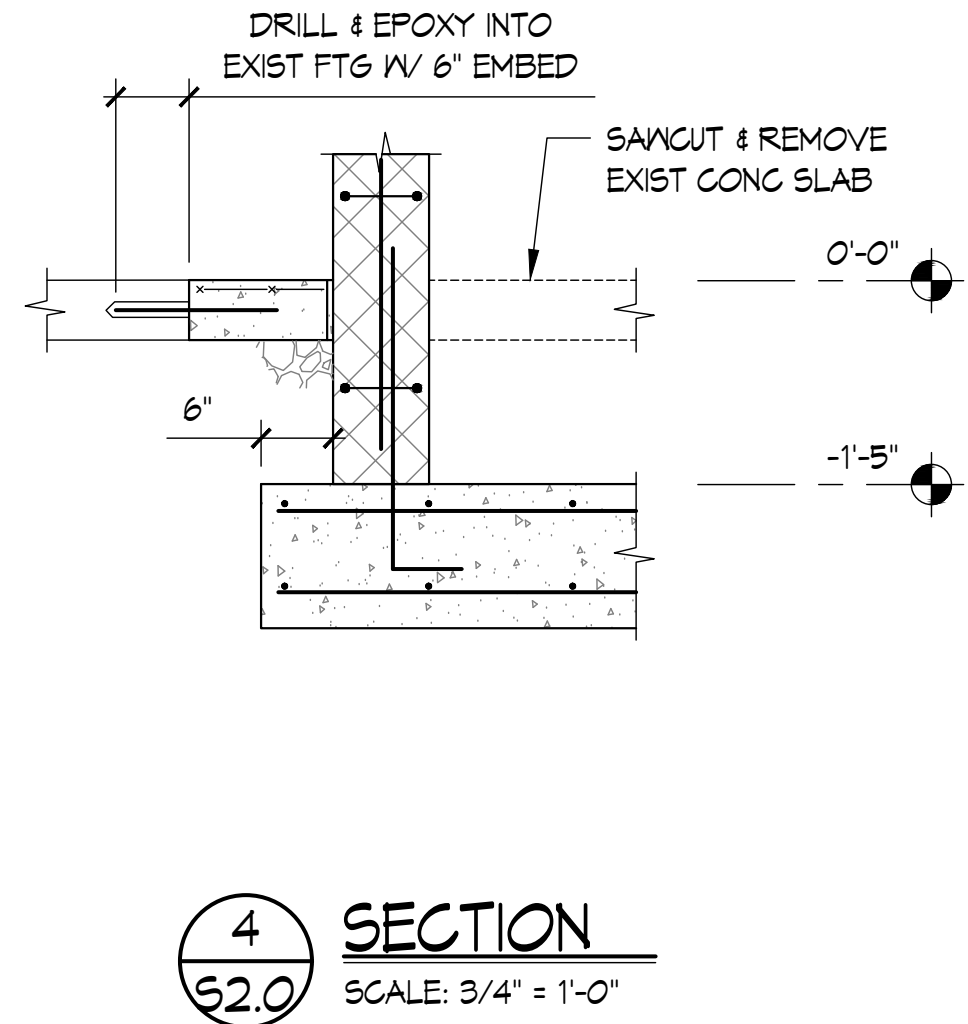
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S2.0 SCALE: 3/4" = 1'-0"



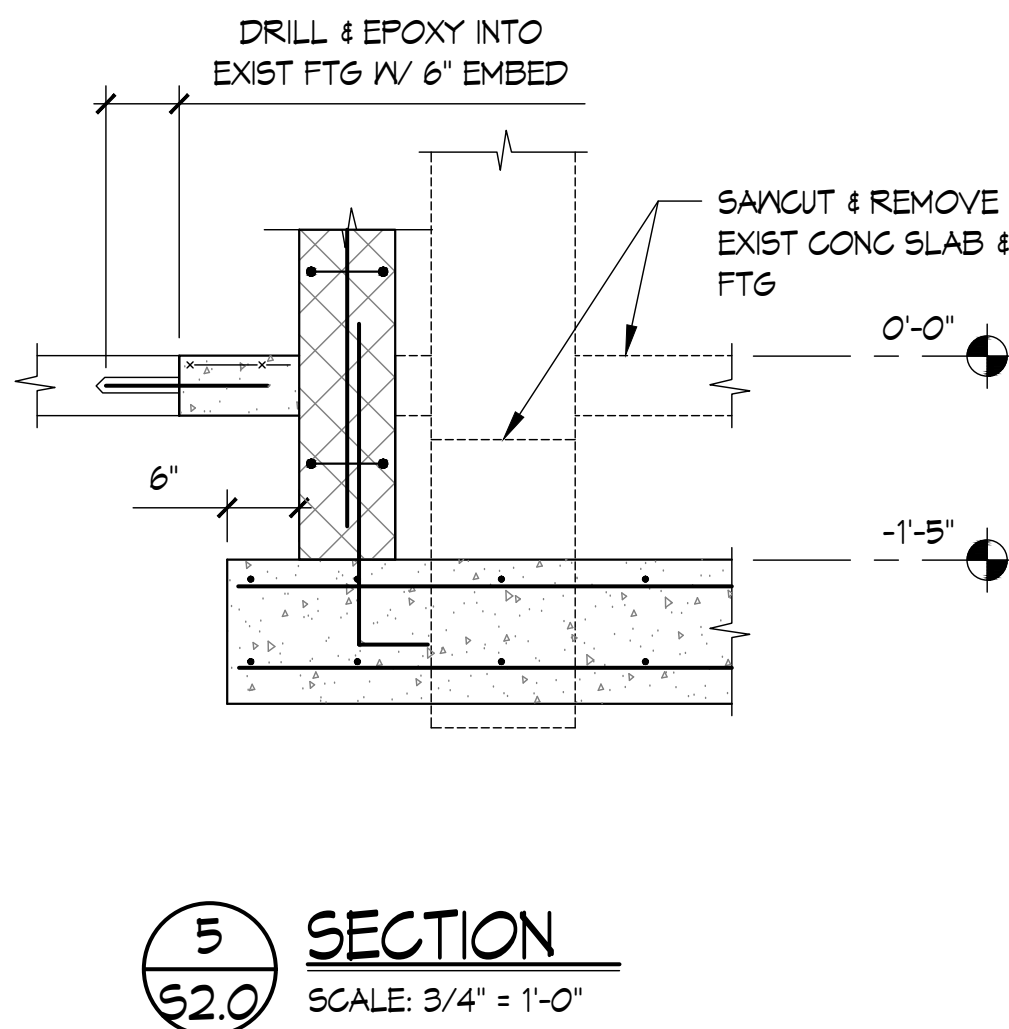
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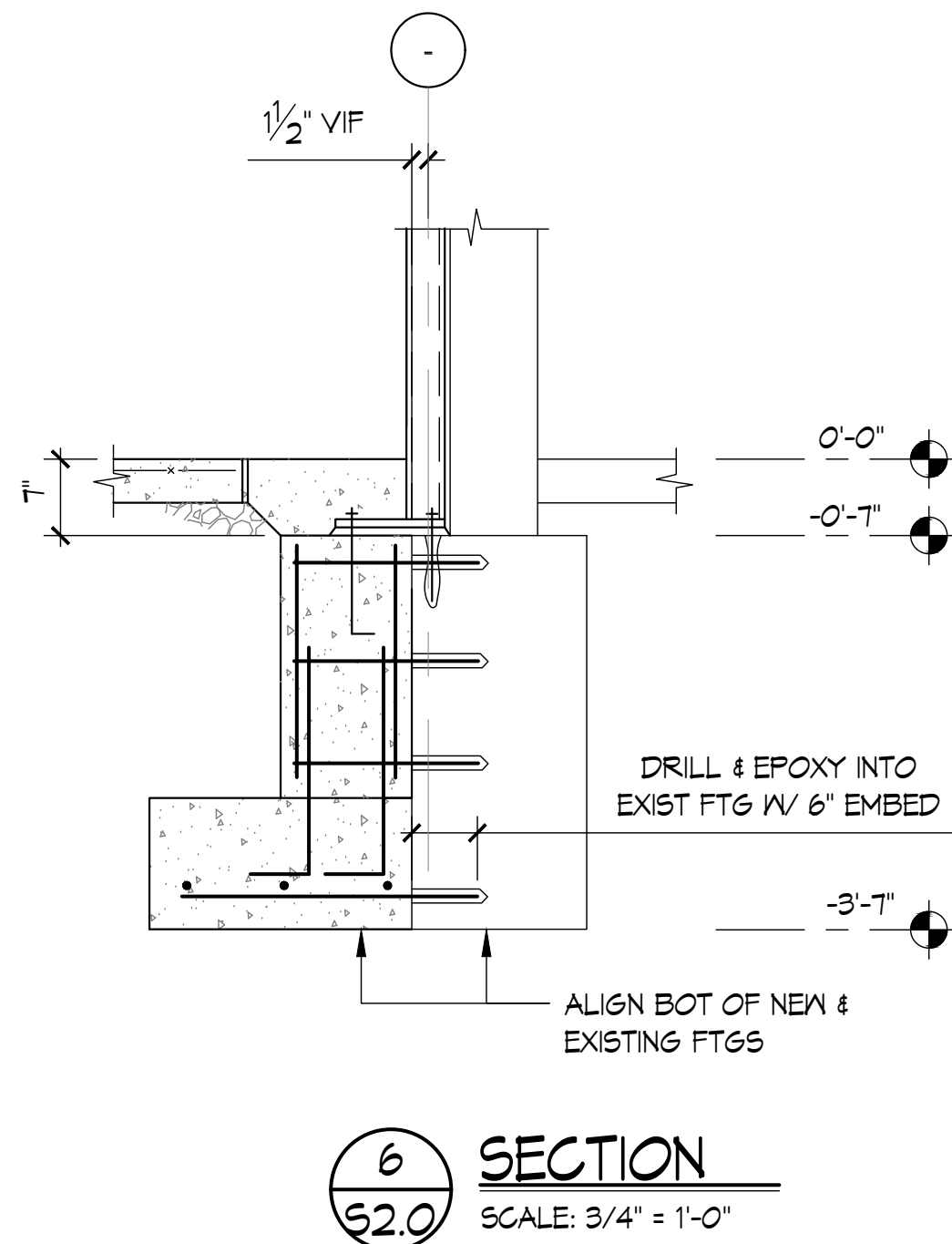
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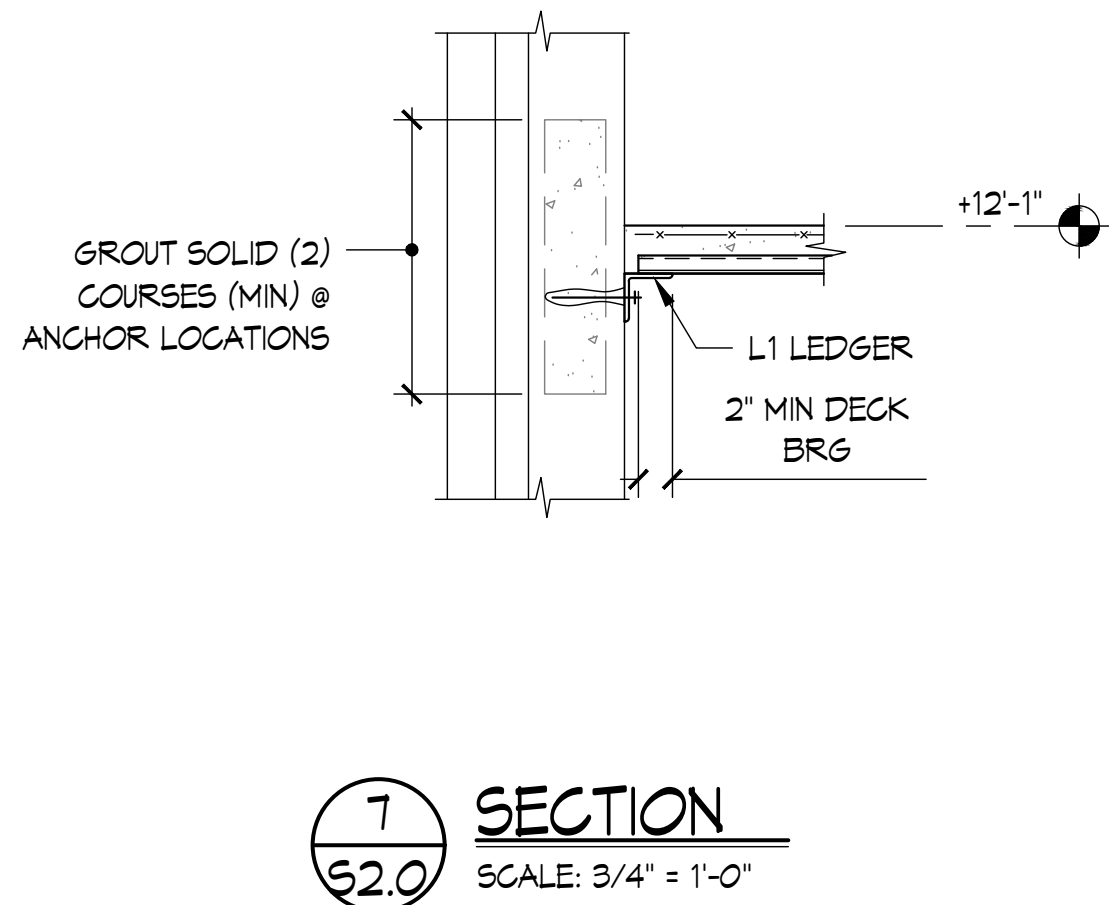
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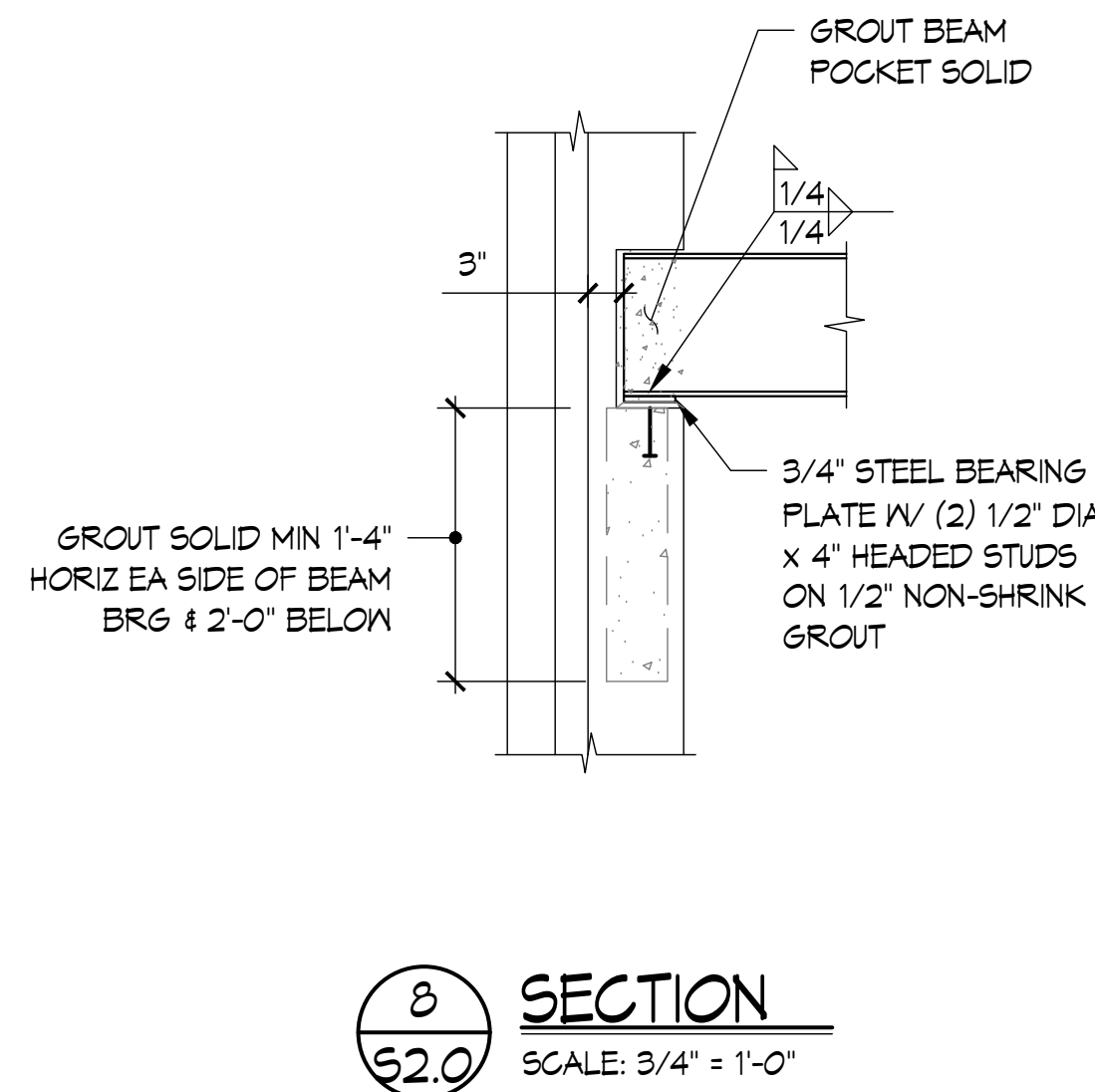
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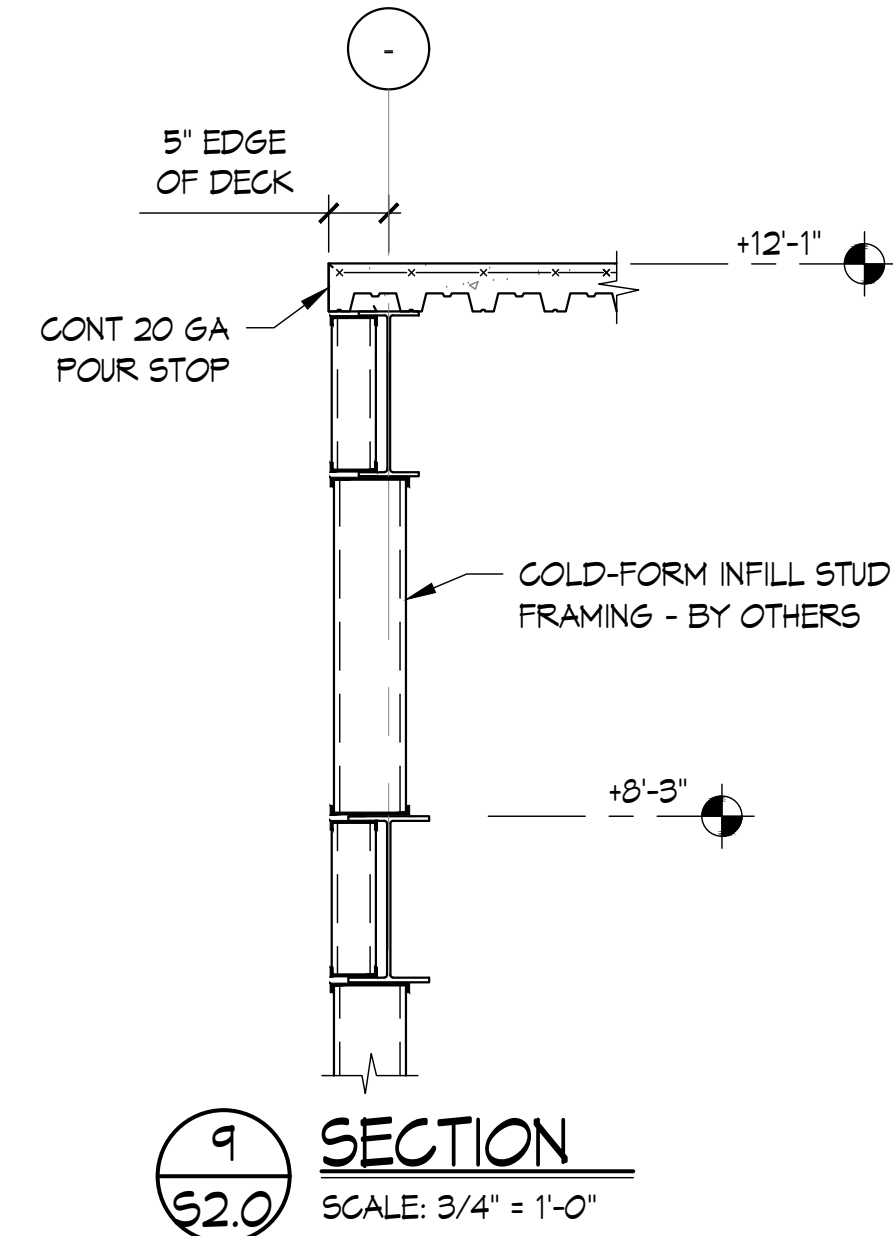
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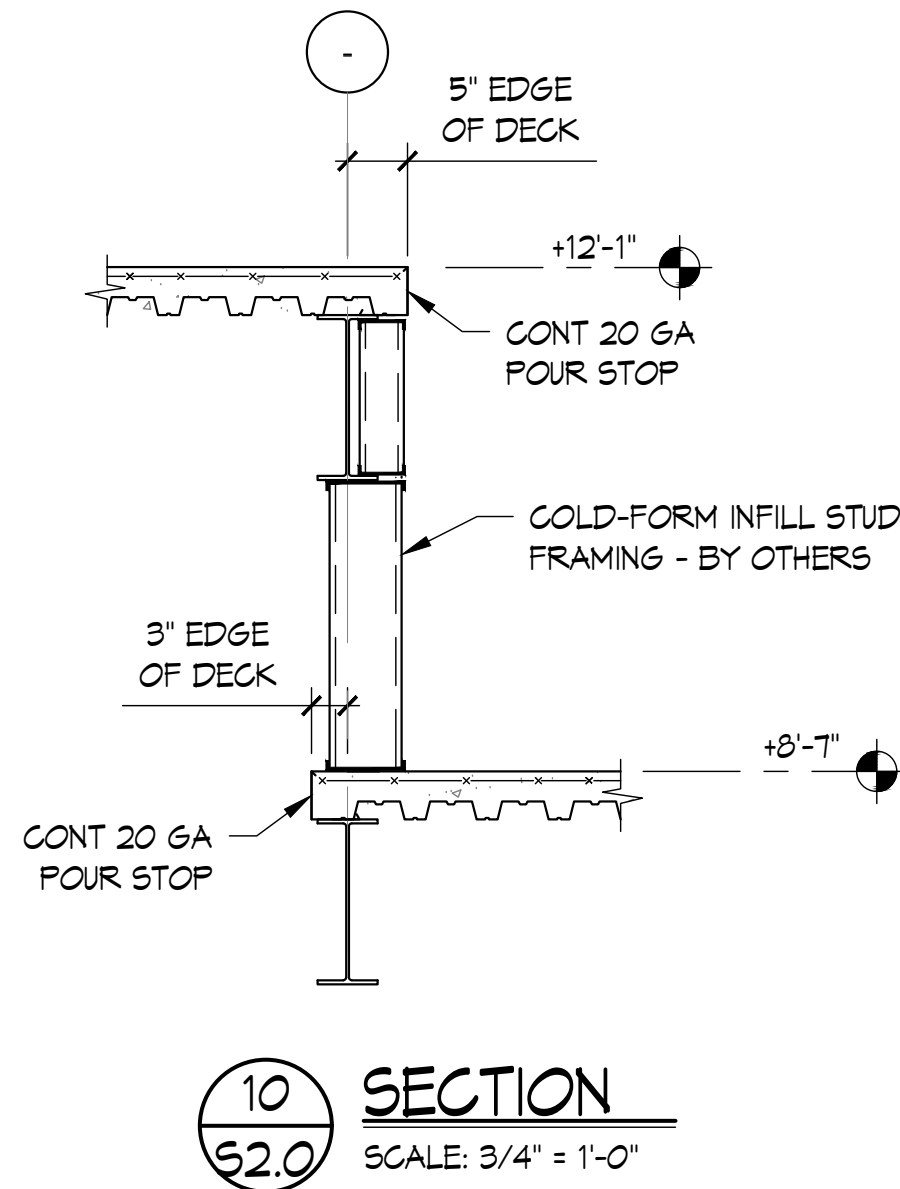
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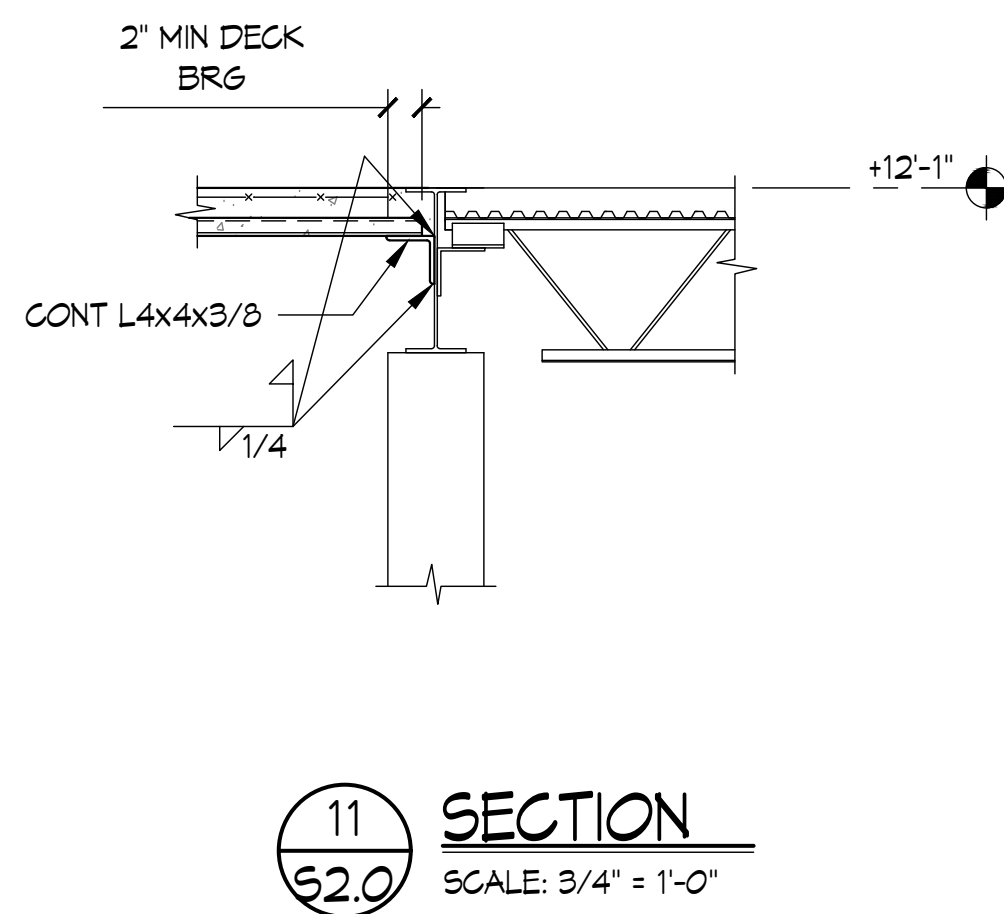
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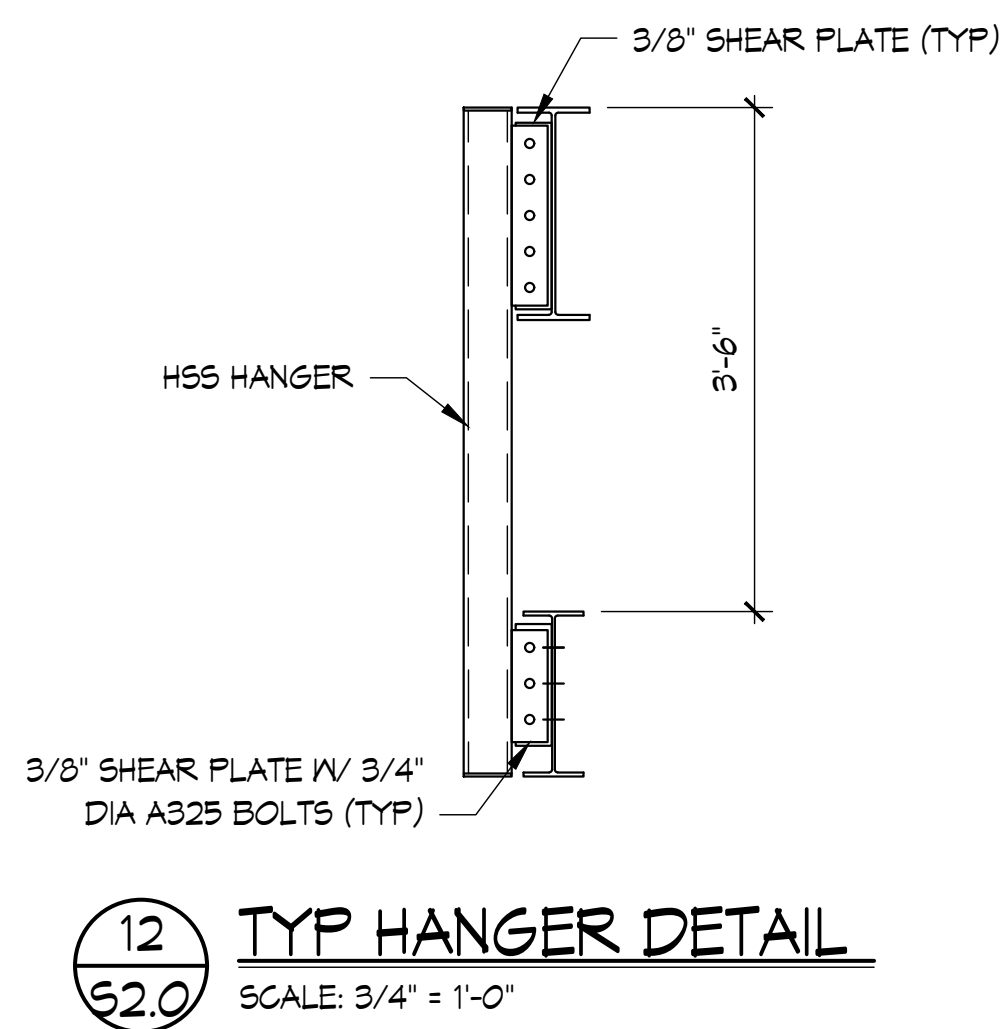
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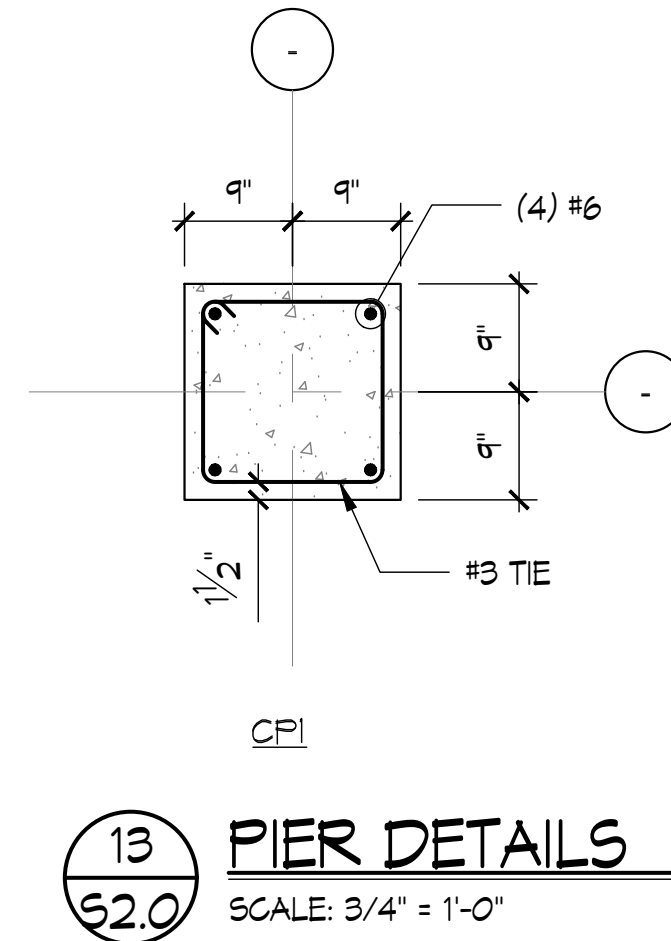
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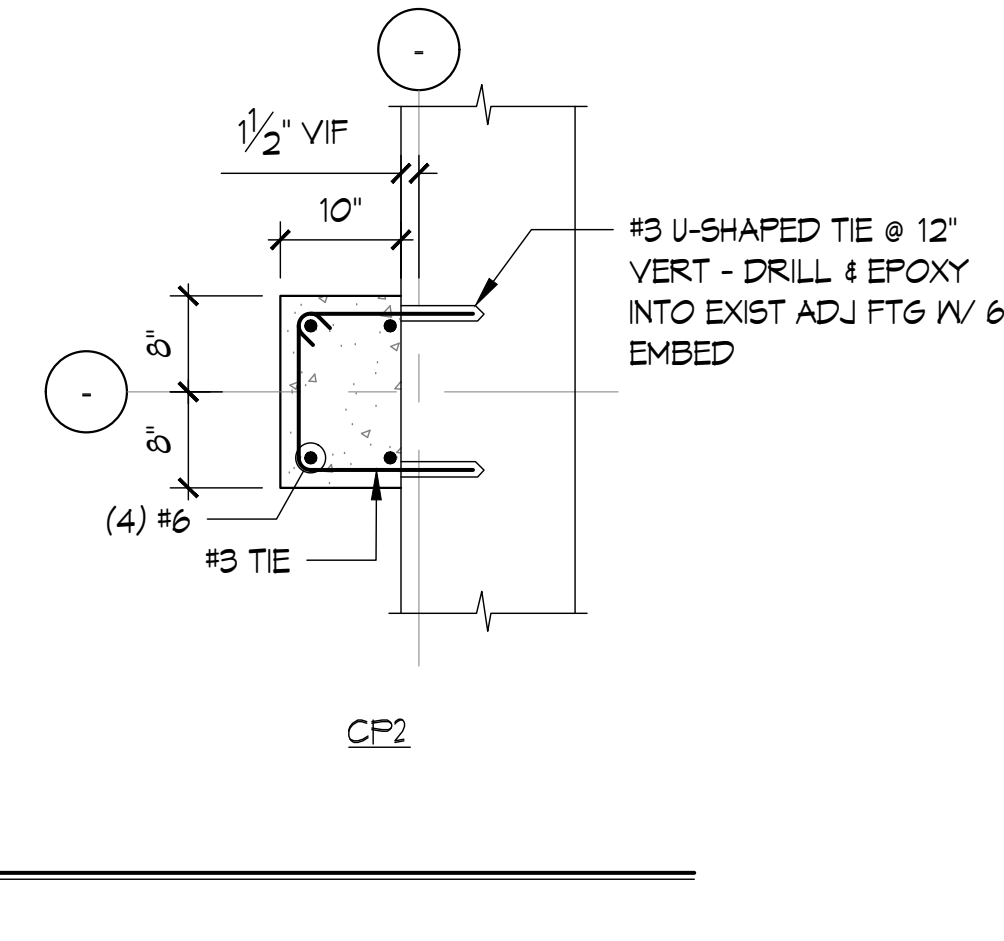
11 SECTION  
S2.0 SCALE: 3/4" = 1'-0"



12 TYP HANGER DETAIL  
S2.0 SCALE: 3/4" = 1'-0"



13 PIER DETAILS  
S2.0 SCALE: 3/4" = 1'-0"



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DOCUMENTS

Drawing Title:  
SECTIONS & DETAILS

Drawing Number:

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1  
S2.1

2  
S2.1

3  
S2.1

4  
S2.1

5  
S2.1

TYP FULL MOMENT CONNECTION  
SCALE: 3/4" = 1'-0"

6  
52.1

TYP CUT JOIST  
SCALE: 3/4" = 1'-0"

7  
S2.1

TYP NEW-EXIST SLAB DETAIL

SCALE: 3/4" = 1'-0"

8  
52.1

**SECTION**

SCALE: [1" = 1'-0"]

9  
S2.1

SECTION  
SCALE: [1" = 1'-0"]

10  
52.1

TYP CM WALL BRACING  
SCALE: 1-1/2" = 1'-0"

11  
S2.1

**SECTION**

SCALE: [1" = 1'-0"]

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Drawing Set **BID SET II - CONSTRUCTION DOCUMENTS**

Drawing Title:  
**SECTIONS & DETAILS**

Drawing Number:

## S2.1



SYMBOL LIST

	SINGLE LINE MECHANICAL ITEM, NEW
	SINGLE LINE DUCTWORK WITH A.L., NEW
	SINGLE LINE MECHANICAL ITEM, EXISTING
	MECHANICAL ITEM TO BE REMOVED
	DUCTWORK WITH ACOUSTIC LINING
	DUCT UNDER PRESSURE (SUPPLY AIR OR FAN DISCHARGE)
	DUCT UNDER NEGATIVE PRESSURE (RETURN OR EXHAUST)
	VOLUME DAMPER
	CABLE OPERATED DAMPER
	FIRE DAMPER AND ACCESS DOOR
	RISE IN DUCTWORK
	DROP IN DUCTWORK
	FIRE/SMOKE DAMPER AND ACCESS DOOR
	MOTORIZED DAMPER AND ACCESS DOOR
	AUTOMATIC LOUVER DAMPER AND ACCESS DOOR
	STATIC PRESSURE SENSOR
	DOOR LOUVER
	UNDERCUT DOOR
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	RECTANGULAR CEILING DIFFUSER, 4-WAY THROW, 100 CFM
	3-WAY DIFFUSER, 100 CFM
	2-WAY DIFFUSER, 100 CFM
	CEILING GRILLE
	CEILING REGISTER, 100 CFM
	TRANSFER AIR WALL OPENING. (SQ. FT.)
	DUCT FLEXIBLE CONNECTION
	THERMOSTAT, TEMPERATURE SENSOR
	SQUARE FOOT
	SMOKE DETECTOR (DUCT MOUNTED) WITH ACCESS DOOR

ABBREVIATIONS

ACCU	AIR-COOLED CONDENSING UNIT
AC	AIR-CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR-HANDLING UNIT
AL	ACOUSTICAL LINING
ATC	AUTOMATIC TEMPERATURE CONTROL
BHP	BRAKE HORSEPOWER
BR	BOTTOM REGISTER
BMS	BUILDING MANAGEMENT SYSTEM
BTUH	BTU PER HOUR
CFM	CUBIC FEET PER MINUTE
COD	CABLE OPERATED DAMPER
CP	CONDENSATE PUMP
CD	CEILING DIFFUSER
CG	CEILING GRILLE
CR	CEILING REGISTER
DB	DRY BULB TEMPERATURE
(E)	EXISTING
EWT	ENTERING WATER TEMPERATURE
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
*F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FLA	FULL LOAD AMPERE
FSD	FIRE SMOKE DAMPER
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GX	GENERAL EXHAUST
HP	HORSEPOWER
KX	KITCHEN EXHAUST
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
LD	LINEAR DIFFUSER
MBH	THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFS	MAXIMUM FUSE SIZE
(N)	NEW
NO.	NUMBER
PD	PRESSURE DROP
PHX	PLATE FRAME HEAT EXCHANGER
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
(R)	RELOCATE
RPM	REVOLUTIONS PER MINUTE
SP	STATIC PRESSURE
TR	TOP REGISTER
TR GR	TRANSFER GRILLE
TSP	TOTAL STATIC PRESSURE
TX	TOILET EXHAUST
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB TEMPERATURE
WMS	WIRE MESH SCREEN

MECHANICAL NOTES

- A. GENERAL**

  - HVAC CONTRACTOR SHALL VISIT THE SITE TO UNDERSTAND THE EXISTING FIELD CONDITIONS AND DETERMINE THE SCOPE OF WORK PRIOR TO SUBMITTING THE BID. NO ALLOWANCE WILL BE MADE AFTER CONTRACT IS AWARDED.
  - NOT USED
  - MATERIALS, DOCUMENTATION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS, LOCAL CODES AND AS SPECIFIED. CONTRACTOR SHALL OBTAIN THE LATEST VERSION OF THE ALTERATION SPECIFICATIONS FROM THE BUILDING MANAGEMENT OFFICE.
  - NOT USED
  - FIREPROOFING AND INSULATION DISTURBED BY NEW CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION. ORIGINAL TO BE CONFIRMED.
  - SUPPORT ALL DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING.
  - SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL OR OTHER NON-COMBUSTIBLE MATERIAL.
  - EXACT LOCATIONS AND COLOR OF ALL WALL MOUNTED THERMOSTATS, ALARM PANELS, ETC., SHALL BE SUBJECT TO OWNER'S APPROVAL.
  - BORDER TYPES, COLOR, FINISHES, AND METHOD OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECTURAL CEILING DETAILS AND SPECIFICATIONS.

**B. EQUIPMENT**

  - INVESTIGATE PATH THROUGH WHICH EQUIPMENT WILL BE MOVED. EQUIPMENT SHALL BE BROKEN DOWN IN SECTIONS AS NEEDED FOR MOVING THROUGH BUILDING SPACES. ASCERTAIN FROM BUILDING MANAGEMENT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED.
  - ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN FULL COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - INSTALL EQUIPMENT AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE (INCLUDING FILTER CHANGES) AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE REQUIRED TO ACCOMPLISH THIS.
  - CHANGES IN ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND PLUMBING REQUIREMENTS FOR SUBSTITUTED EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE BIDDER WISHING TO MAKE THE SUBSTITUTION. THIS SHALL INCLUDE THE COST OF ANY REDESIGN BY THE AFFECTED DESIGNERS AND REFILING IF REQUIRED. ANY ADDITIONAL COST INCURRED BY THE AFFECTED SUBCONTRACTORS SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND NOT THE OWNER.
  - REFER TO SCHEDULES FOR SELECTIONS OF AC UNITS, AIR OUTLETS, ETC..
  - NOT USED
  - CONDENSATE PUMP FOR AC SHALL BE LITTLE GIANT MODEL NO. VOL 24S. 175 GPH AT 15 FEET HEAD, 120 VOLTS/1 PHASE/ 60 HERTZ, WITH HIGH LEVEL ALARM SWITCH INSIDE RECEIVER. PLUG WITH TWISTLOCK BY ELECTRICAL.
  - PROVIDE LOCKING COVERS FOR ALL HIGH LIMIT AND LOW LIMIT THERMOSTATS..
  - ALL HVAC EQUIPMENT AND CONTROL DEVICES ABOVE INACCESSIBLE CEILING SHALL BE PROVIDED WITH ACCESS DOORS AT CEILING FOR SERVICE AND MAINTENANCE.
  - AC THERMOSTAT SHALL BE ELECTRONIC 7 DAY PROGRAMMABLE COOLING & HEATING.
  - NOT USED
  - CHECK AND SET FIRE DAMPERS OPEN AND REPLACE ANY DEFECTIVE FUSIBLE LINKS IN FIRE DAMPERS.
  - MECHANICAL CONTRACTOR SHALL PROVIDE CONTROLS DESIGN AND CONTROL DEVICES AS REQUIRED PER SPECIFICATIONS. GENERAL CONTRACTOR SHALL COORDINATE BETWEEN SUBCONTRACTORS THE RESPONSIBILITY FOR LOW VOLTAGE WIRING.

**C. DUCTWORK**

  - ALL NEW DUCTWORK DOWNSTREAM OF UPSTREAM & DOWNSTREAM OF AC UNITS AND EXHAUST FANS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE FUNCTIONAL CRITERIA OF SMACNA STANDARDS FOR LOW PRESSURE (2" WG) DUCTWORK.
  - DIMENSIONS SHOWN FOR LINED DUCTWORK SHALL BE CLEAR INSIDE DIMENSIONS.
  - DUCTWORK & PIPING LAYOUT SHOWN ON THIS PLAN IS SCHEMATIC ONLY. ACTUAL RUN SHALL BE FIELD DETERMINED, BASED ON EXISTING BEAM LAYOUT, DUCTWORK LAYOUT, LIGHTING LAYOUT AND SPRINKLER LAYOUT. FULL COORDINATION BETWEEN ALL TRADES (HVAC, ELEC., PLBG., SPKR. AND GENERAL CONTRACTORS) INCLUDING THE PREPARATION OF COORDINATION DRAWINGS IS REQUIRED TO AVOID CONFLICTS DURING CONSTRUCTION. OFFSET NEW DUCTWORK OR PIPING IF REQUIRED TO CLEAR OBSTRUCTIONS.
  - SEALANT SHALL BE APPLIED TO LONGITUDINAL SEAMS IN THE SHOP DURING FABRICATION. FIELD APPLY SEALANT TO TRAVERSE SEAMS AND CONNECTIONS TO BRANCH DUCTWORK AND AIR OUTLETS.
  - FOR EXACT LOCATIONS OF CEILING DIFFUSERS AND REGISTERS, COORDINATE WITH REFLECTED CEILING PLANS PREPARED BY ARCHITECT.
  - ALL DUCT SPLITS AND TAKE-OFFS SHALL BE PROVIDED WITH VOLUME DAMPERS. SPLITTER DAMPERS AND AIR EXTRACTORS ARE NOT ACCEPTABLE. PROVIDE CABLE-OPERATED VOLUME DAMPERS FOR ALL DAMPERS ABOVE INACCESSIBLE CEILING.
  - VOLUME DAMPERS IN BRANCH DUCTS SHALL BE LOCATED AS FAR AS POSSIBLE FROM AIR OUTLET OR INLET IN ORDER TO REDUCE NOISE AND TURBULENCE AT AIR OUTLETS. DAMPERS SHALL INCLUDE RAISED SADDLES FOR LOCKING QUADRANT HANDLE, 3/8 INCH ROD AND SEALED END BEARINGS.
  - RADIUS ELBOWS SHALL BE USED IN ALL DUCT OFFSETS (HORIZONTAL OR VERTICAL). MITERED ELBOWS WITHOUT TURNING VANES ARE NOT ACCEPTABLE.
  - ALL ACTIVE OPEN END DUCTWORK SHALL BE PROVIDED WITH WIRE MESH SCREEN.
  - SEE SPECIFICATIONS FOR DUCT CONSTRUCTION STANDARDS.

- D. PIPING**
- WHERE PIPING CONNECTIONS FOR EQUIPMENT SUCH AS PUMPS, AC UNITS, COILS, ETC. DIFFER FROM THE LINE SIZE PIPING, IT SHALL BE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND EQUIPMENT.
  - PROVIDE DIELECTRIC FITTINGS BETWEEN TWO DISSIMILAR METALS.
  - GRAVITY DRAIN PIPING SHALL BE PITCHED DOWN 1/4 INCH PER 10 FEET IN THE DIRECTION OF FLOW.
- E. ENERGY CODE NOTES**
- LOAD CALCULATIONS ARE AS PER AHSRAE/ACCA STANDARD 183
  - PROVIDE 7-DAY PROGRAMMABLE TEMPERATURE CONTROL DEVICE WITH +/-5°F DEADBAND.
  - EACH ZONE IS PROVIDED WITH AT LEAST ONE THERMOSTAT CONTROLLER
  - OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED TO BUILDING OWNER
  - DUCT INSULATION SHALL BE A MINIMUM OF R-6 EXCEPT DUCTS EXPOSED TO OUTSIDE AIR SHALL BE R8. ALL DUCT INSULATION SHALL BE VAPOR RETARDANT.
  - PROVIDE 1.5" INSULATION FOR REFRIGERANT PIPING AND STEAM PIPING AS PER ENERGY CODE REQUIREMENTS.
  - PROVIDE PIPE INSULATION AS FOLLOWS: 1.5" FOR PIPE SIZE < 1.5" AND 2" FOR PIPES >= 1.5". AS PER ENERGY CODE REQUIREMENTS
  - LOW PRESSURE DUCT SYSTEMS SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASTETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - MINIMUM SERVICE WATER HEATER EFFICIENCY LESS THAN OR EQUAL TO 12 kW, RESISTANCE, 0.97- 0.00 132V, EF. SERVICE WATER HEATER EFFICIENCY IS 80%.
  - MOTORIZED DAMPERS SHALL BE CLASS I MOTORIZED DAMPERS. THE DAMPERS SHALL HAVE AN AIR LEAKAGE RATE OF NO GREATER THAN 4 CFM/FT2 OF DAMPER SURFACE AREA AT 1.0 INCH WATER GAUGE.
  - AC UNITS SHALL BE TESTED TO ENSURE PROPER OPERATION, CALIBRATION AND ADJUSTMENT OF CONTROLS.
  - MINIMUM SERVICE WATER HEATER EFFICIENCY LESS THAN OR EQUAL TO 12 kW, RESISTANCE, 0.97- 0.00 132V, EF. HOT WATER HEATER INDICATED ON PLANS IS 80% EF.
  - SERVICE WATER PIPE INSULATION SHALL BE 1" FOR PIPE SIZE < 1.5" AND 1.5" FOR PIPES >= 1.5".
  - LIGHTING CONTROLS SHALL BE PROVIDED VIA OCCUPANCY SENSOR TO OPERATE AUTOMATICALLY WITHIN REQUIRED DURATION. LIGHT REDUCTION NOT REQUIRED. SEE DRAWING E-101.
  - HVAC FAN SYSTEM AT DESIGN CONDITIONS DO NOT EXCEED ALLOWABLE FAN SYSTEM MOTOR NAMEPLATE HP OR FAN SYSTEM BHP.
  - FANS HAVE EFFICIENCY GRADE (FEG) >= 67. THE TOTAL EFFICIENCY OF THE FAN AT THE DESIGN POINT OF OPERATION <=15% OF THE MAXIMUM TOTAL EFFICIENCY OF THE FAN.
  - ZONE ISOLATION DEVICES AND CONTROLS INSTALLED WHERE APPLICABLE.
  - FAULT DETECTION AND DIAGNOSTICS INSTALLED WITH AIR-COOLED UNITARY DX UNITS HAVING ECONOMIZERS.
  - AIR ECONOMIZERS PROVIDED WHERE REQUIRED, MEET THE REQUIREMENTS FOR DESIGN CAPACITY, CONTROL SIGNAL, VENTILATION CONTROLS, HIGH-LIMITS SHUT-OFF, INTEGRATED ECONOMIZER CONTROL, AND PROVIDE A MEANS TO RELIEVE EXCESS OUTSIDE AIR DURING OPERATION.
  - HEATING AND COOLING TO EACH ZONE IS CONTROLLED BY A THERMOSTAT CONTROL. MINIMUM ONE HUMIDITY CONTROL DEVICE PER INSTALLED HUMIDIFICATION/DEHUMIDIFICATION SYSTEM.
  - SYSTEM INCLUDE OPTIMUM START CONTROL.
  - KITCHEN EXHAUST SYSTEMS COMPLY WITH REPLACEMENT AIR AND CONDITIONED SUPPLY AIR LIMITATIONS, AND SATISFY HOOD RATING REQUIREMENTS AND MAXIMUM EXHAUST RATE CRITERIA.
  - DUCTS AND PLENUMS SEALED BASED ON STAT PRESSURE AND LOCATION.
  - HVAC SYSTEMS AND EQUIPMENT CAPACITY DOES NOT EXCEED CALCULATED LOADS.
  - TEMPERATURE CONTROLS HAVE SETPOINT OVERLAP RESTRICTIONS.

MECHANICAL DRAWINGS LIST

M0.1	MECHANICAL GENERAL NOTES
MD1.0	MECHANICAL DEMOLITION PLAN
MD1.1	MECHANICAL DEMOLITION ROOF PLAN
M1.0	MECHANICAL RCP'S
M1.1	MECHANICAL ROOF PLAN
M1.2	MECHANICAL SECTIONS
M3.0	MECHANICAL DETAILS
M4.0	MECHANICAL SCHEDULES

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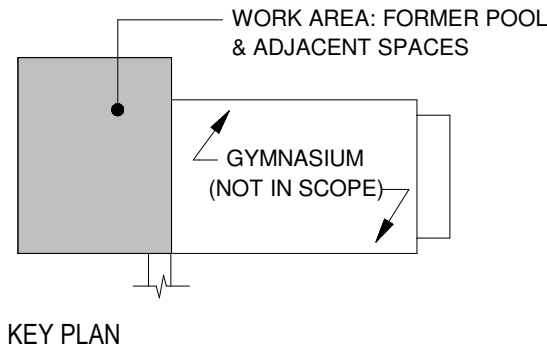
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Drawing Title:  
MECHANICAL GENERAL  
NOTES

Drawing Number:

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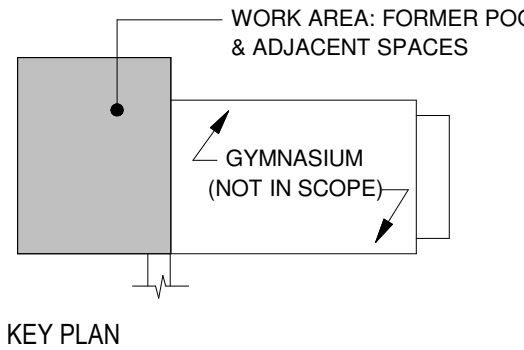
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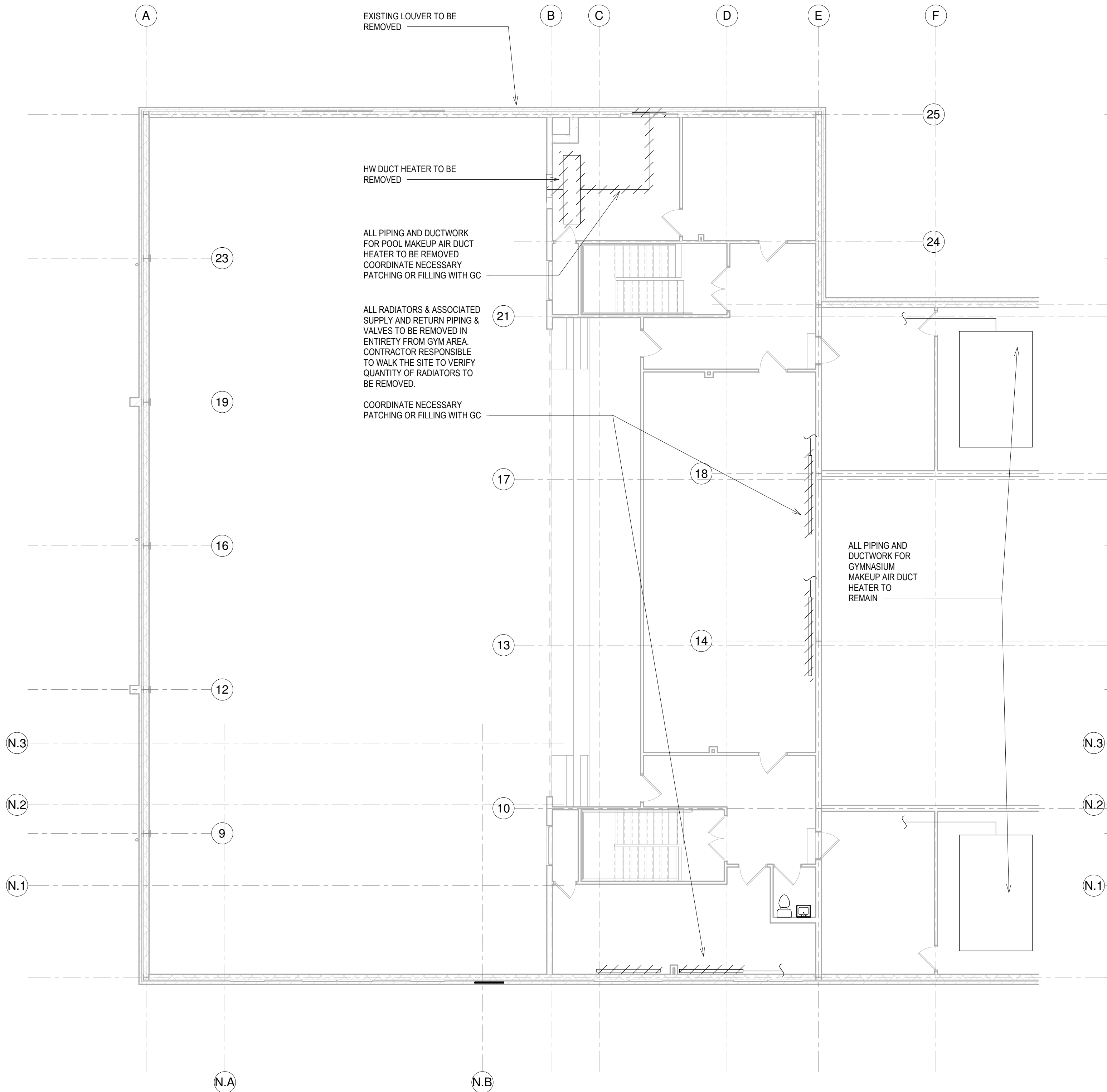
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MECHANICAL DEMOLITION  
PLAN

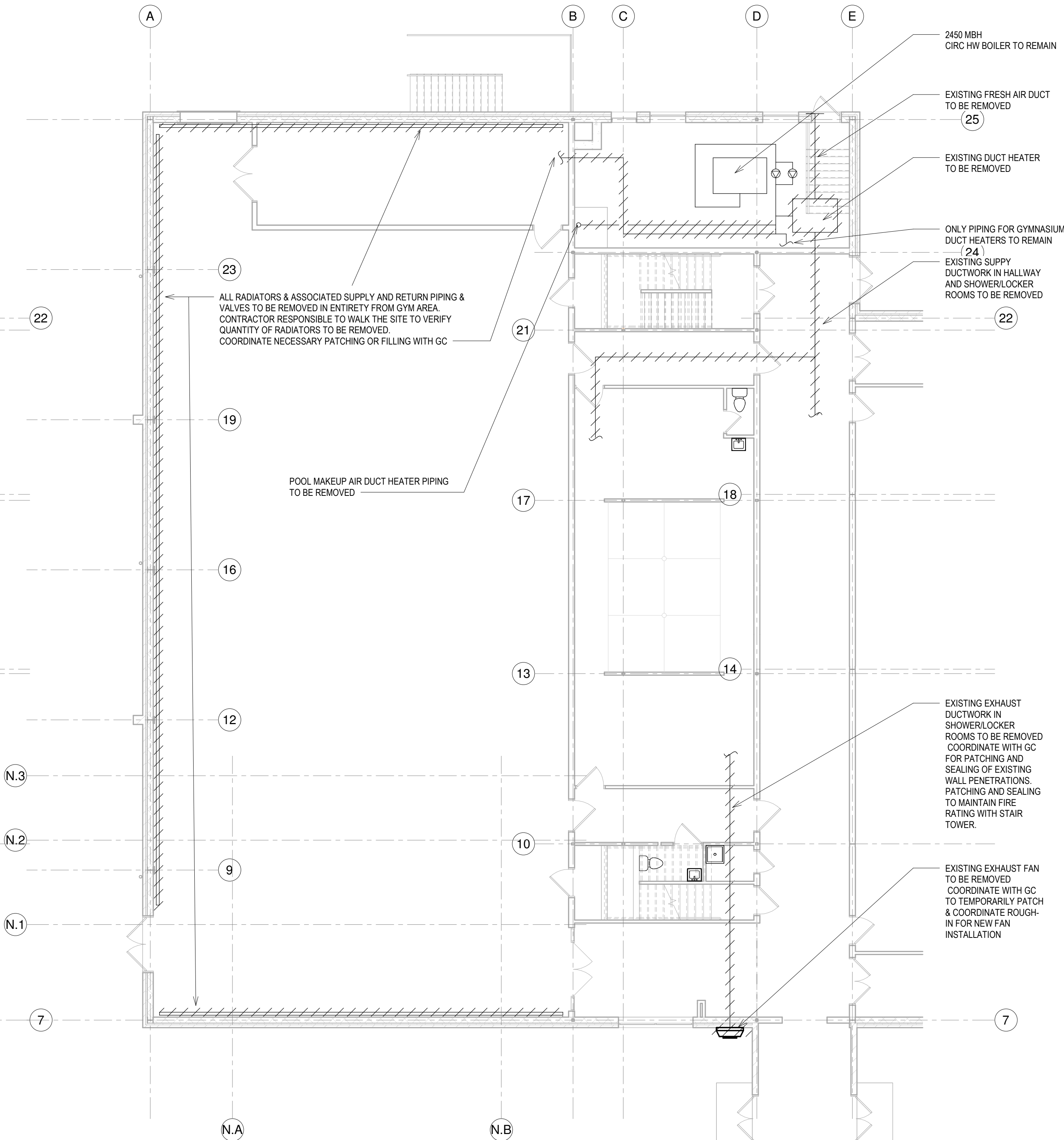
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2 MECHANICAL SECOND FLOOR DEMOLITION PLAN  
1/8" = 1'-0"



1 MECHANICAL FIRST FLOOR DEMOLITION PLAN  
1/8" = 1'-0"

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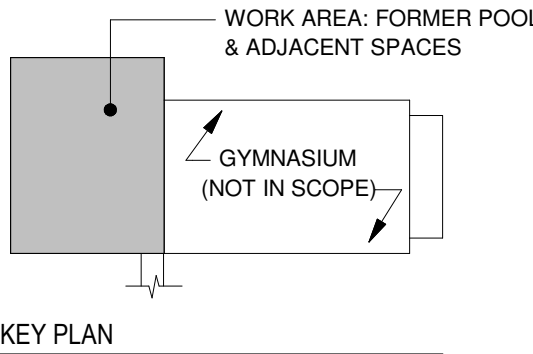
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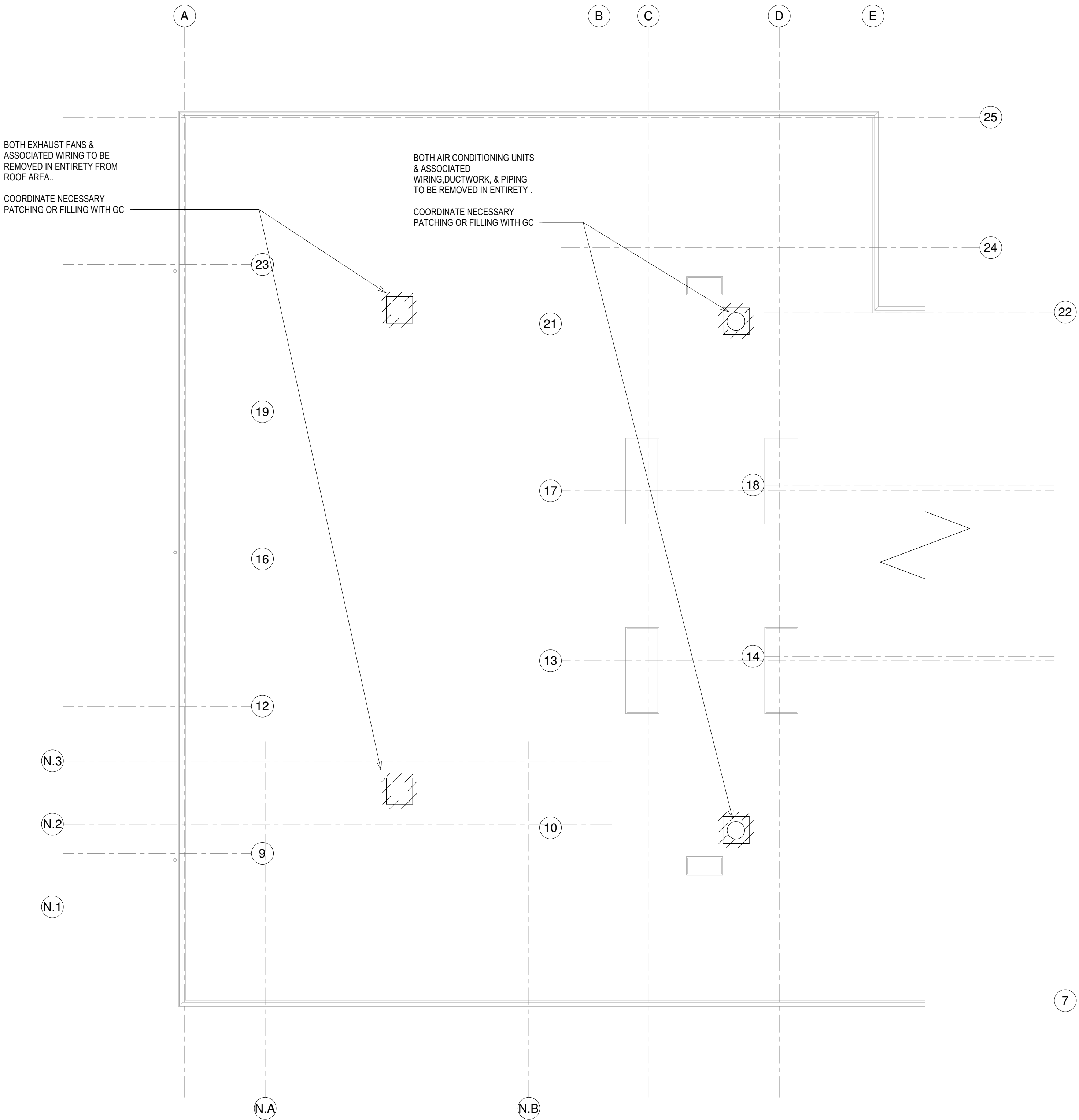
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MECHANICAL DEMOLITION  
ROOF PLAN

Drawing Number:

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1 MECHANICAL ROOF PLAN DEMO  
1/8" = 1'-0"



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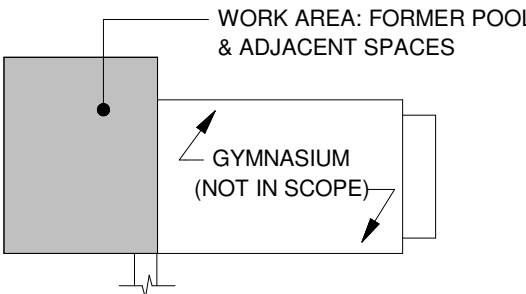
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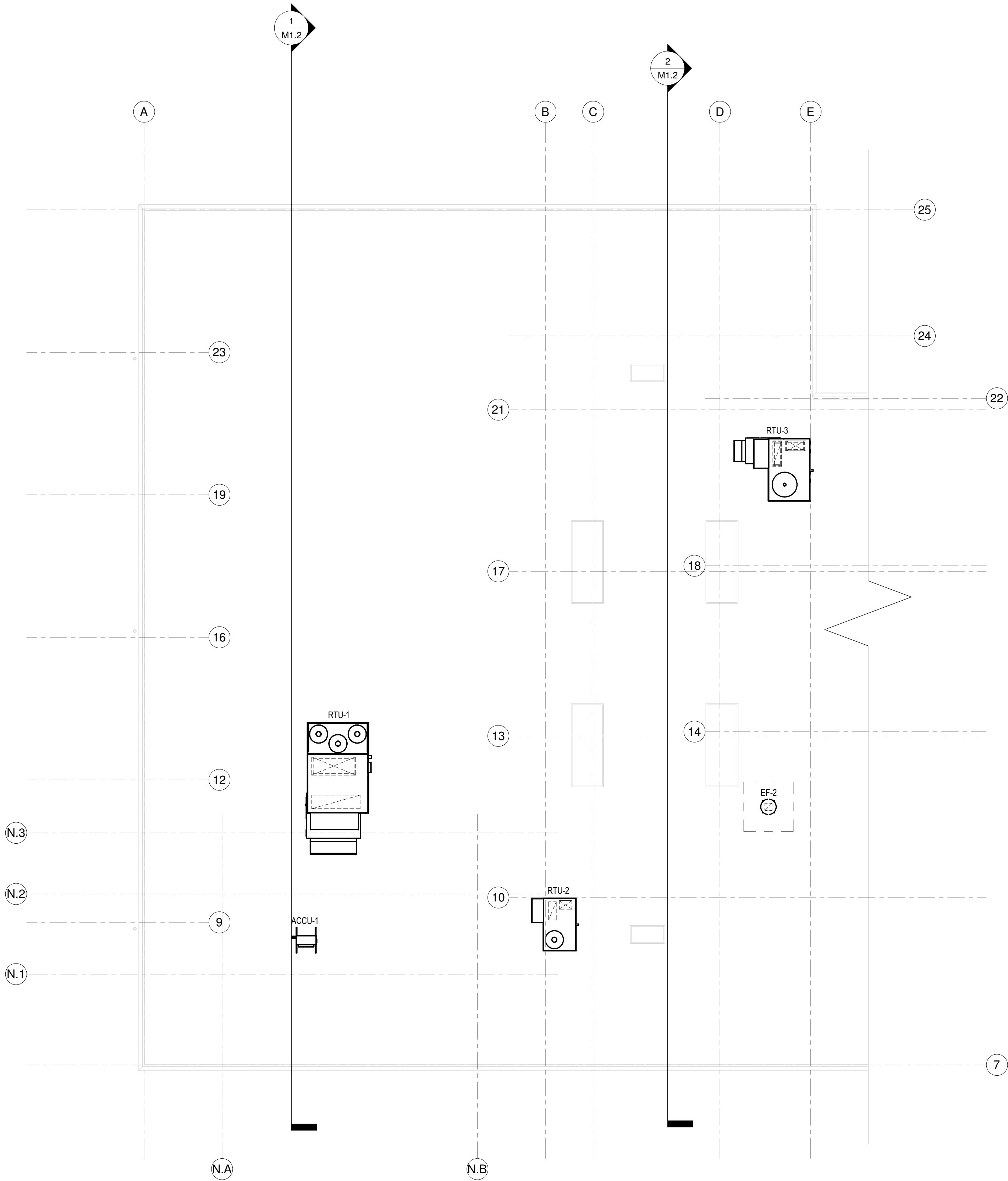
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MECHANICAL ROOF PLAN

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NOTES:  
1. MOUNT RTU'S, CONDENSERS AND EXHAUST FAN ON MANUFACTURER PROVIDED ROOF CURBS  
  
2. RUN CONDENSATE DRAIN PIPING FROM EACH RTU TO NEAREST ROOF DRAIN

1 MECHANICAL ROOF PLAN  
1/8" = 1'-0"

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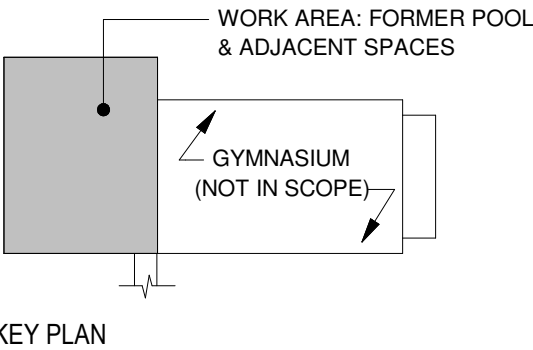
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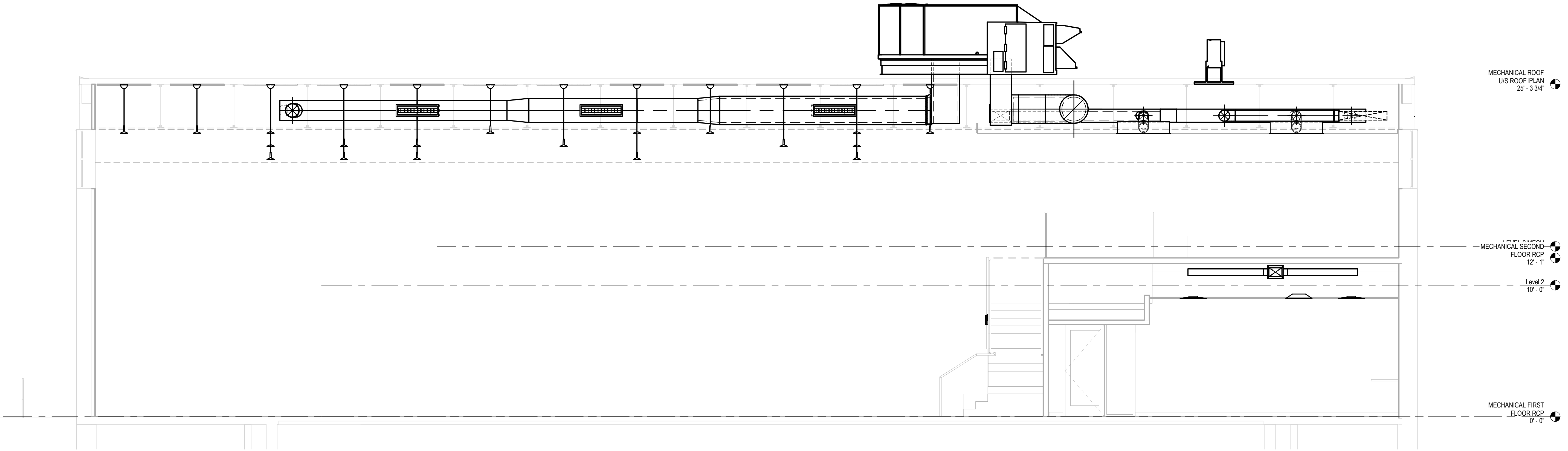
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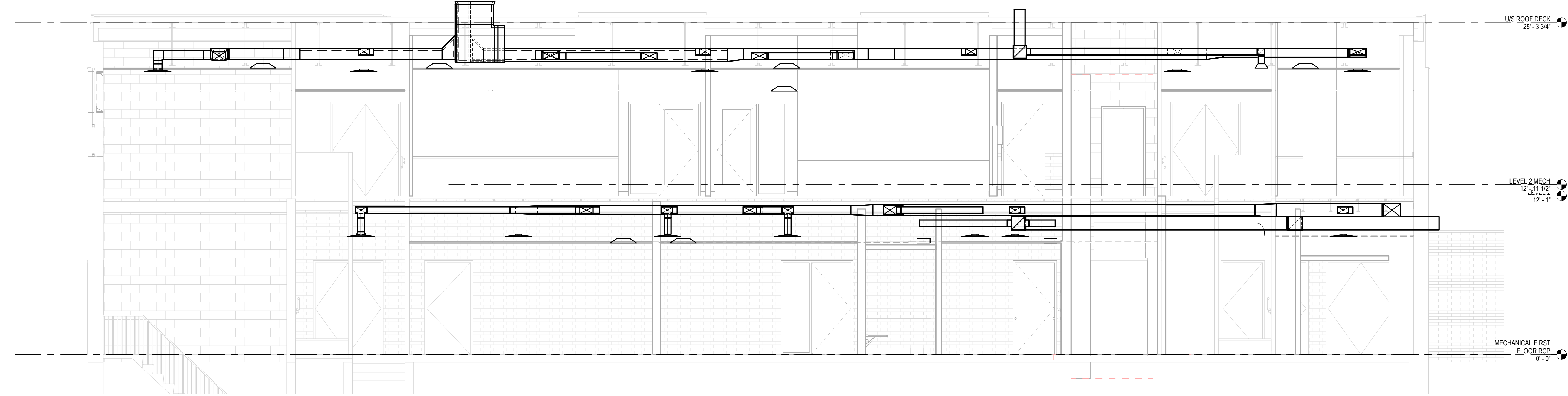
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MECHANICAL SECTIONS

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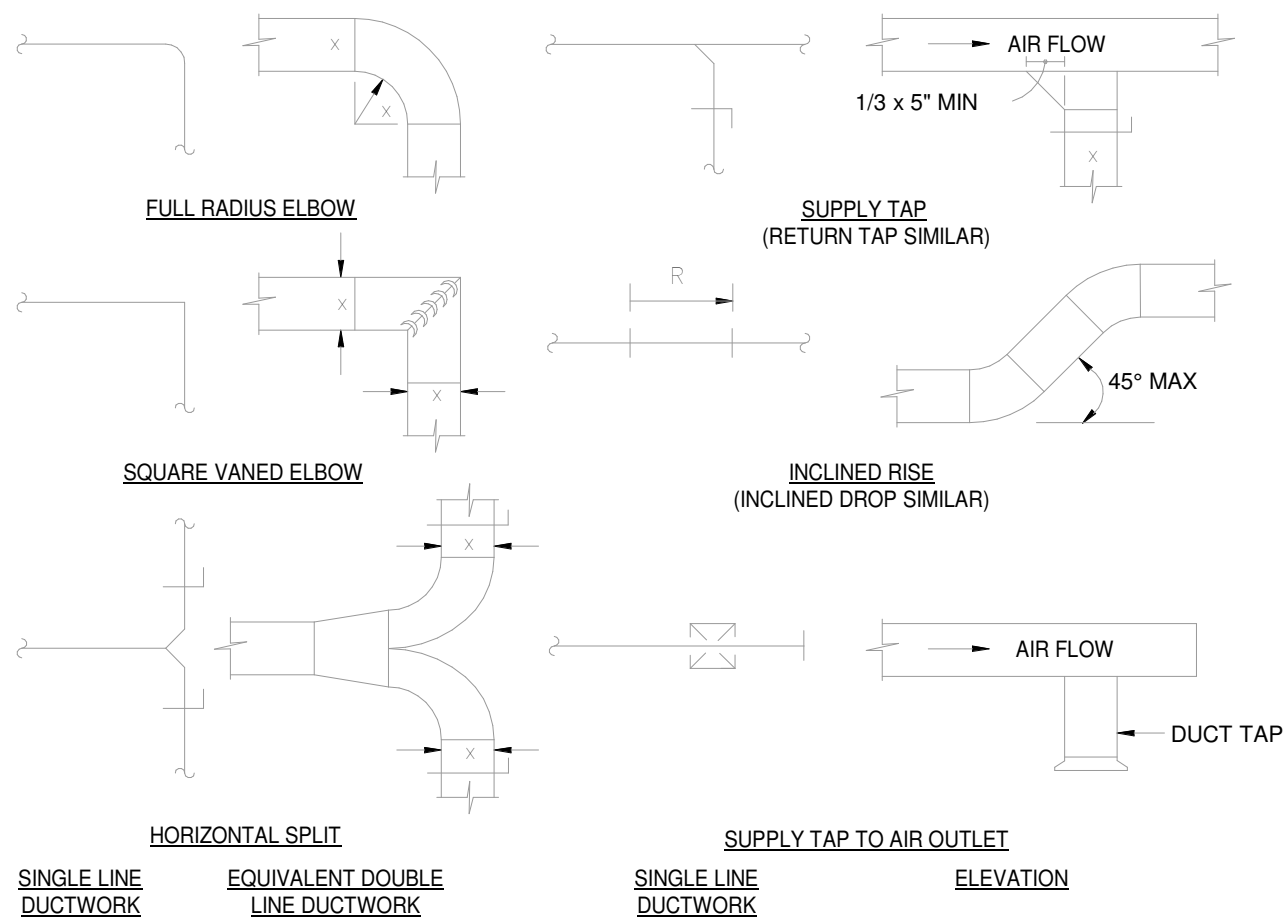


① Section 1  
1/4" = 1'-0"

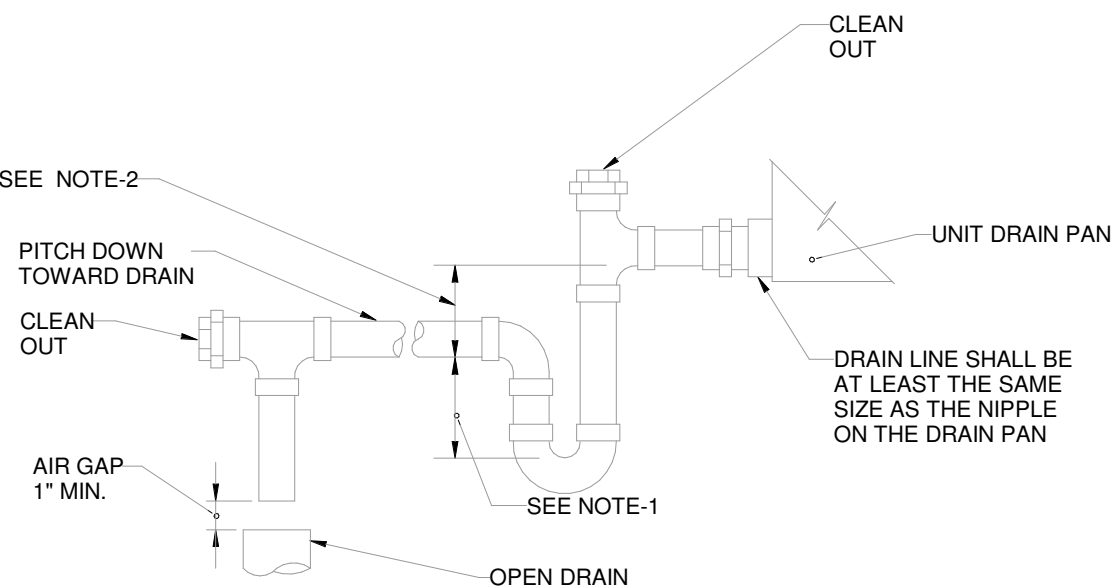


② Section 2  
1/4" = 1'-0"

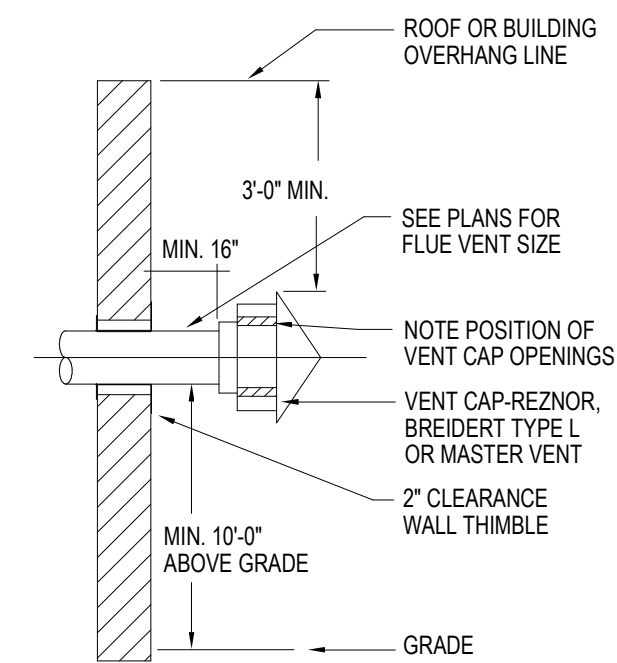




TYPICAL SUPPLY OR EXHAUST DUCT CONNECTION

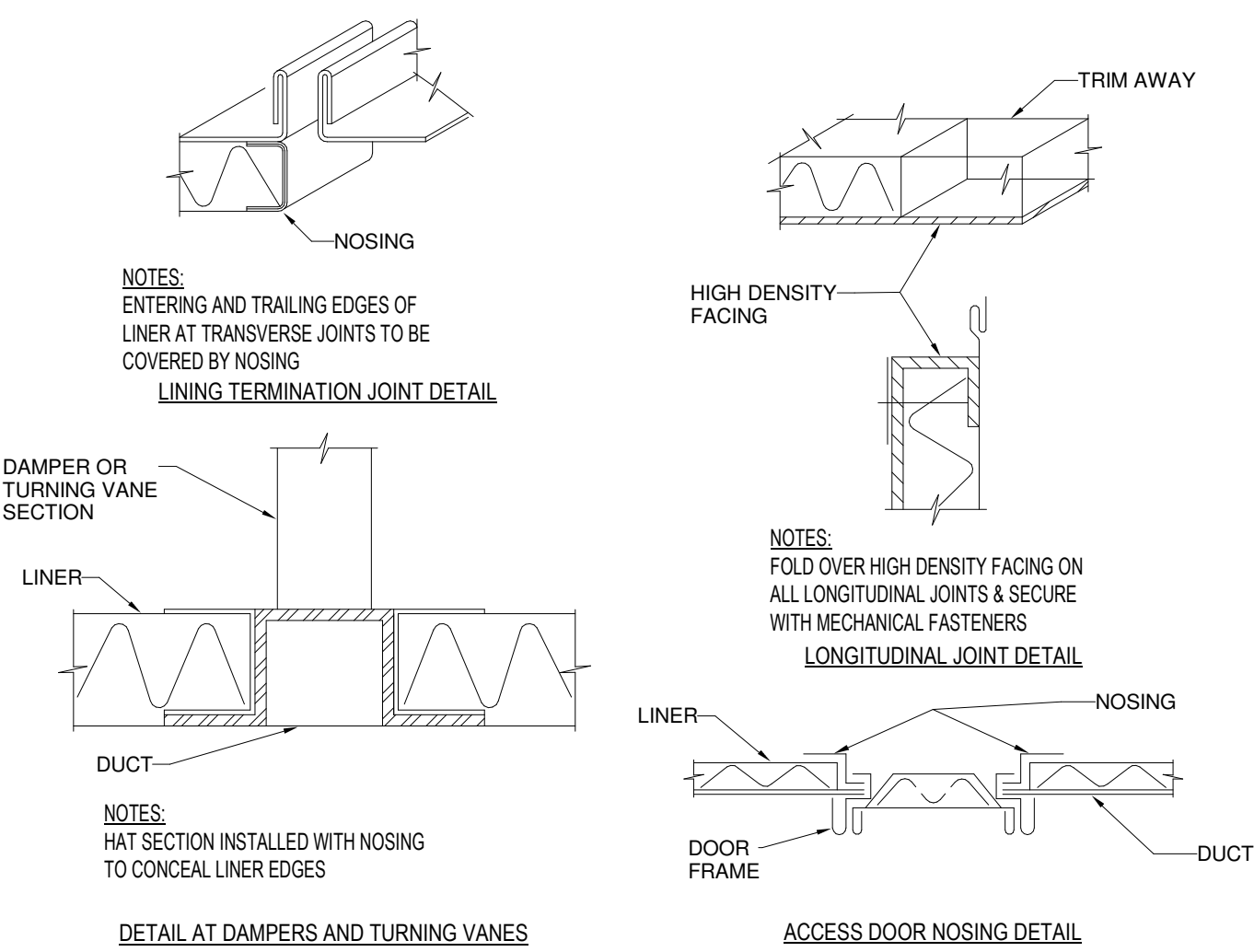


TYPICAL CONDENSATE DRAIN TRAP

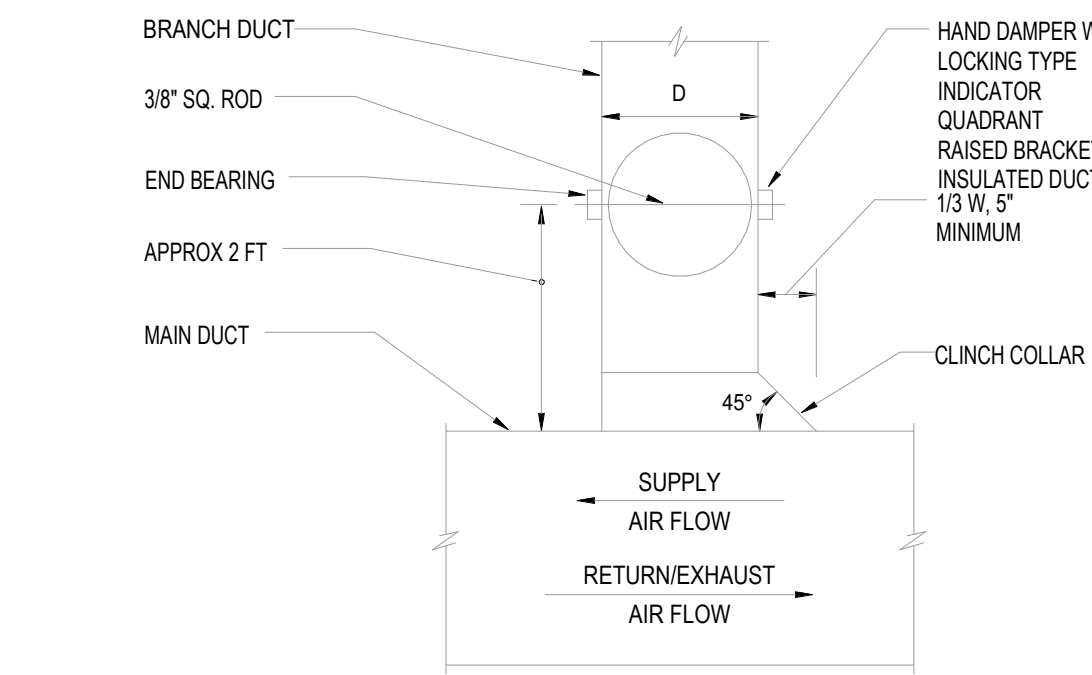


HORIZONTAL ARRANGEMENT

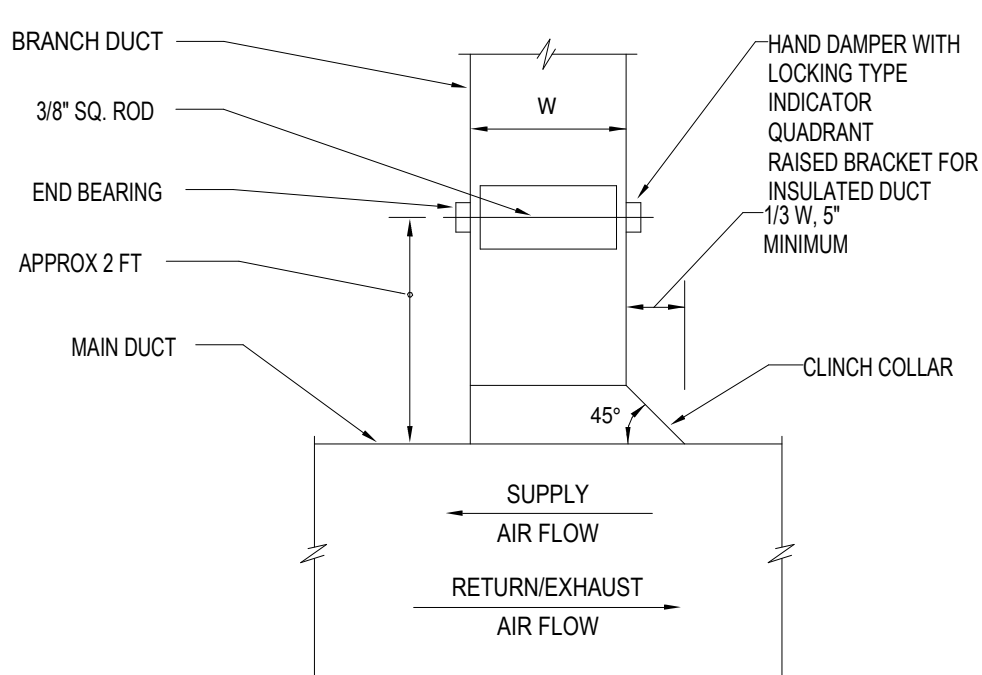
FLUE VENT DETAIL



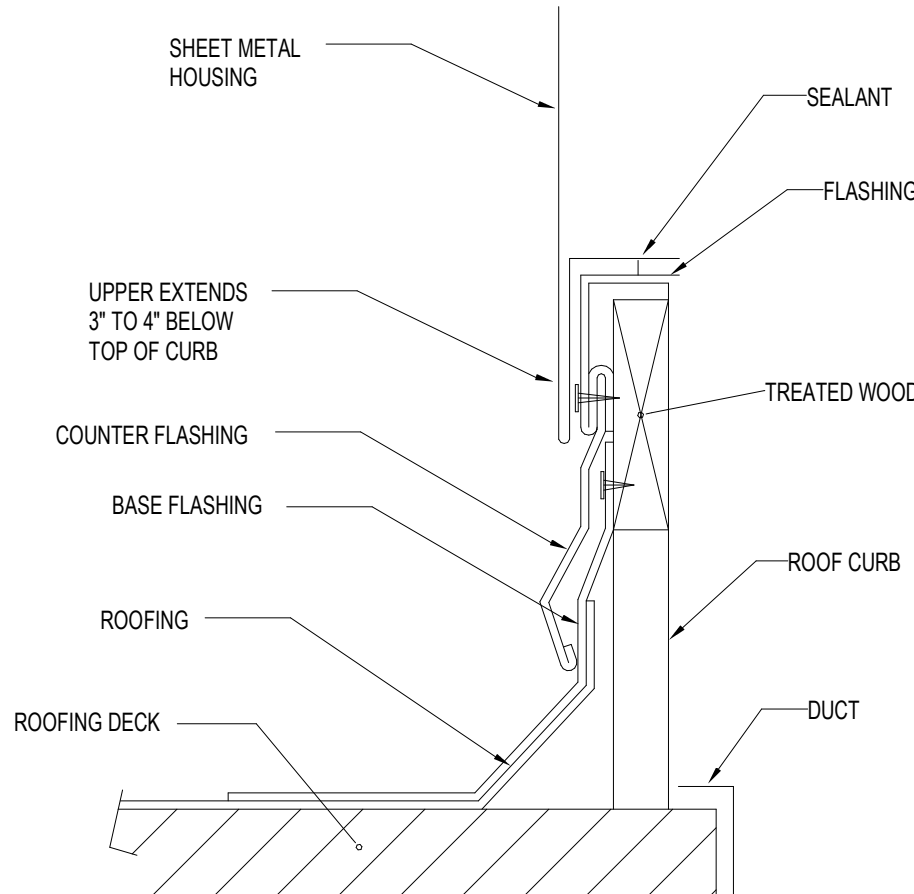
SOUND LINING NOSING DETAIL



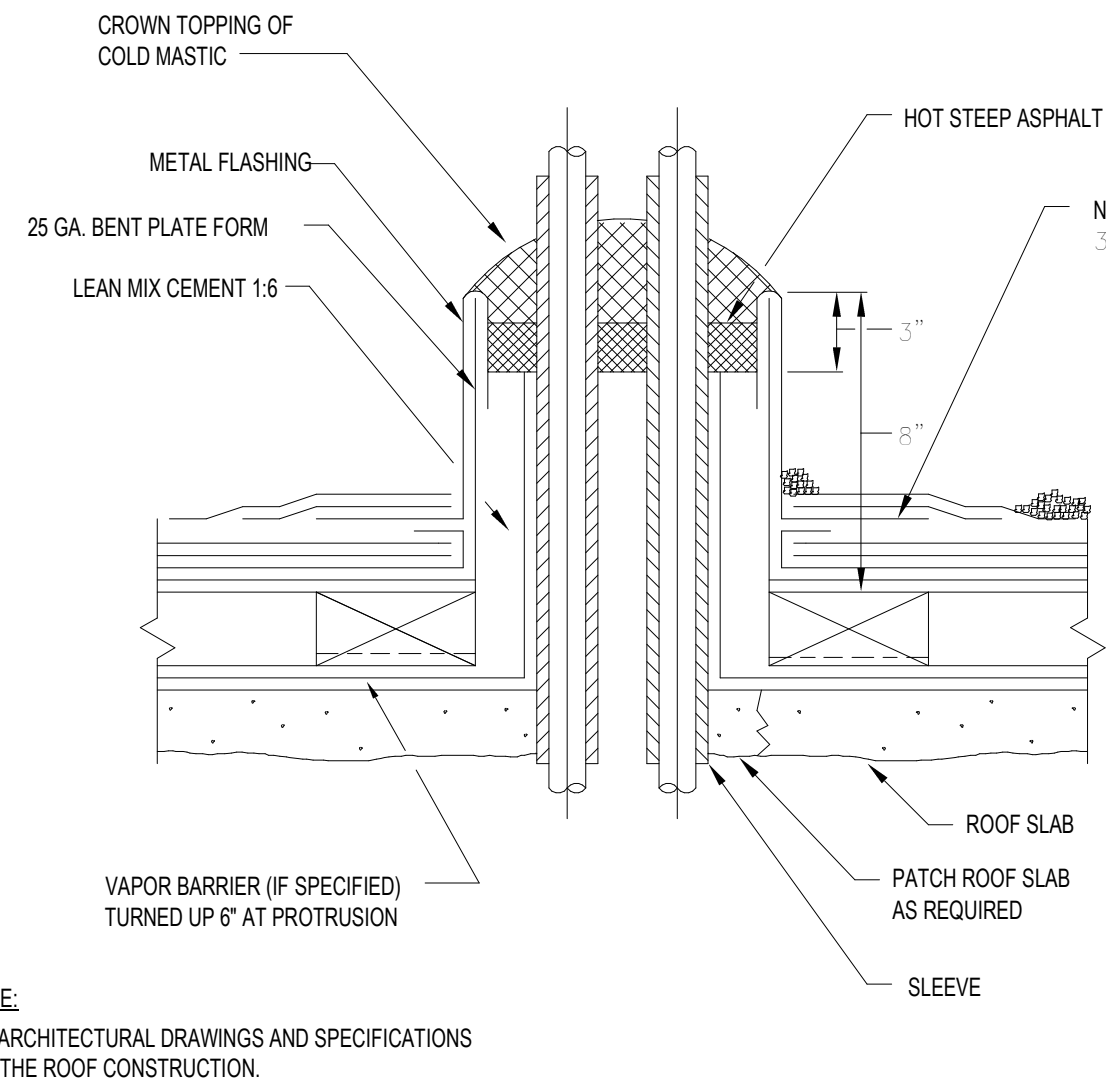
ROUND DUCT WITH VOLUME DAMPER



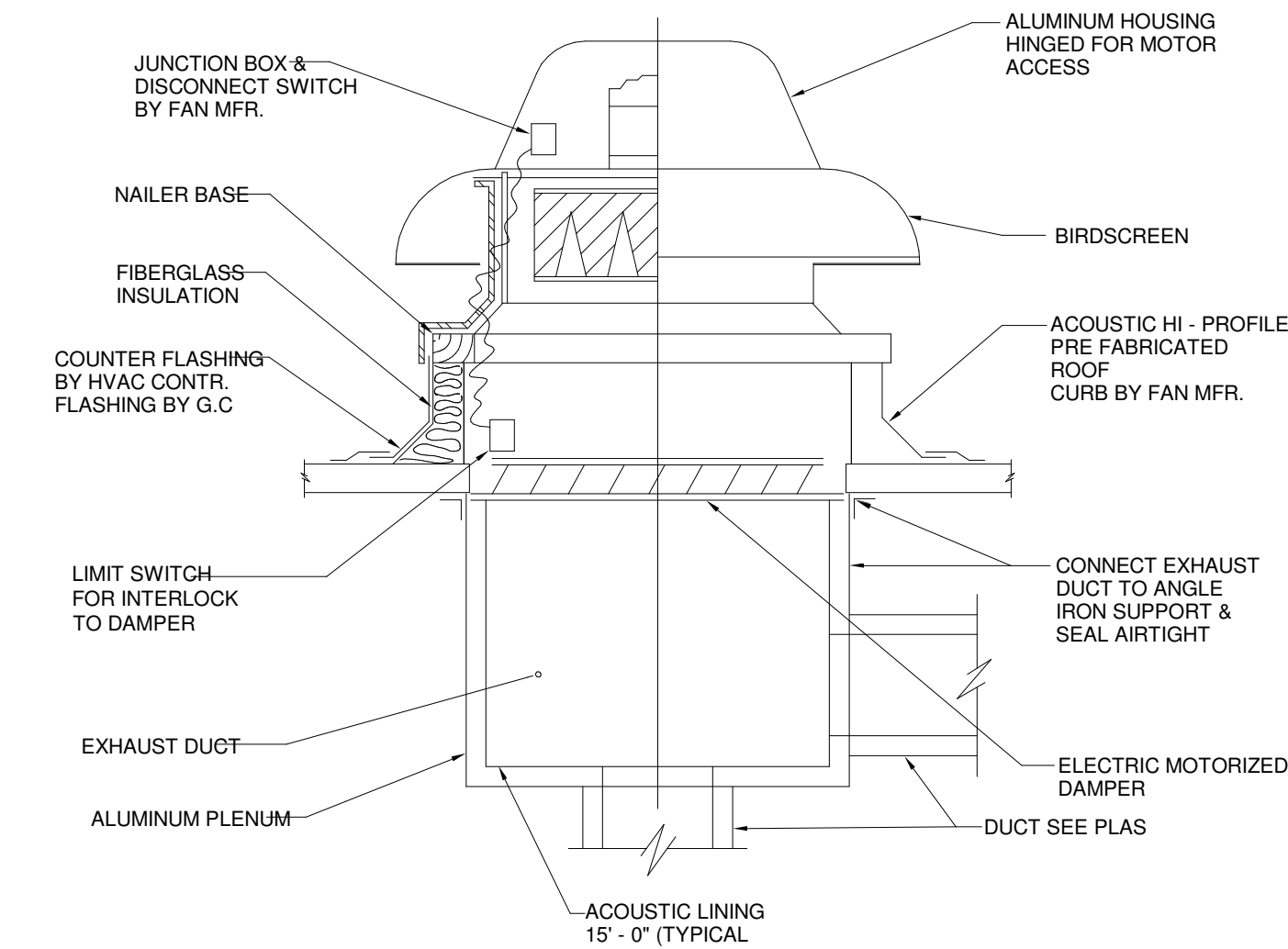
RECTANGULAR DUCT WITH VOLUME DAMPER



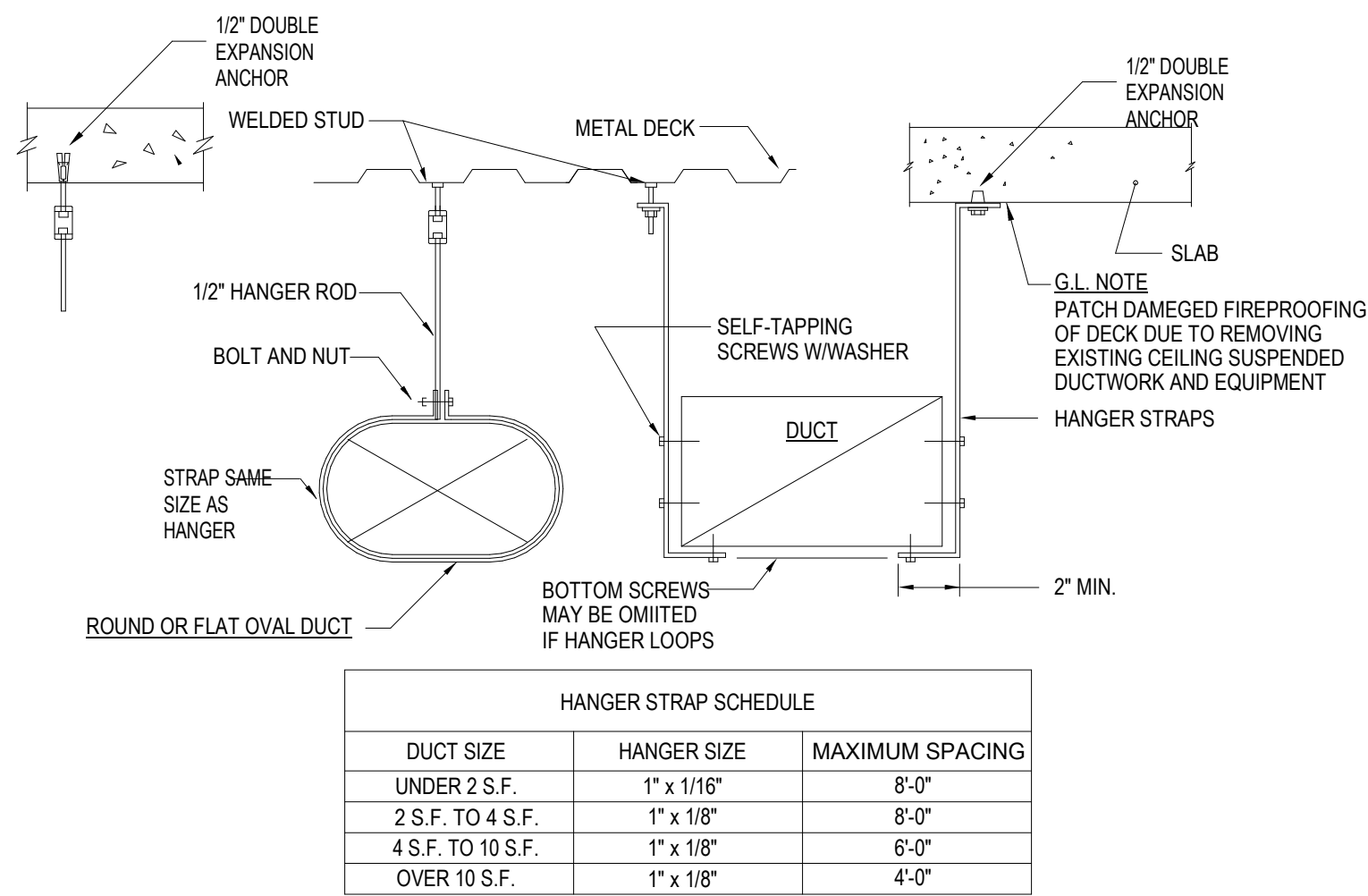
ROOF CURB DETAIL



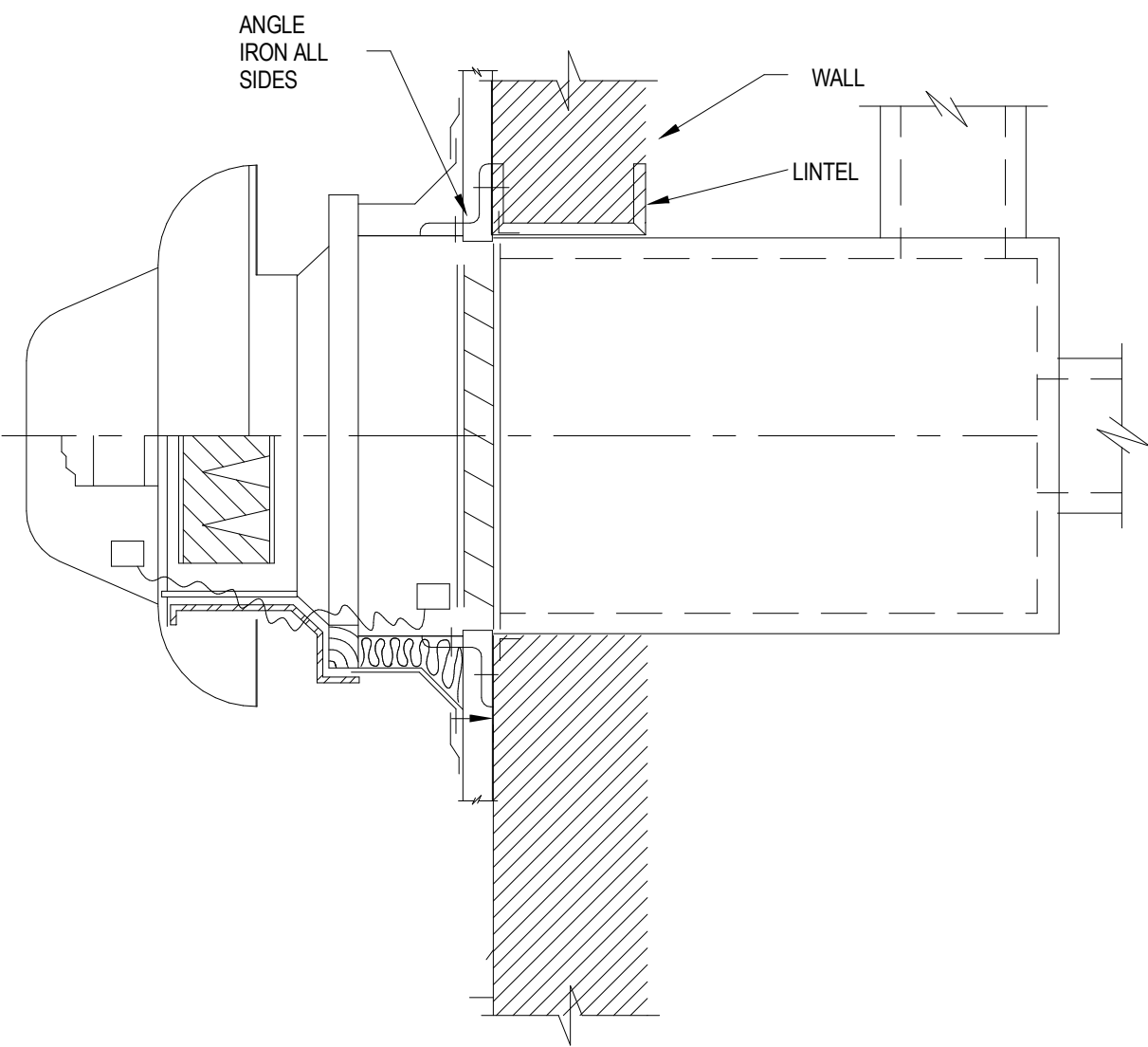
PIPING THROUGH ROOF



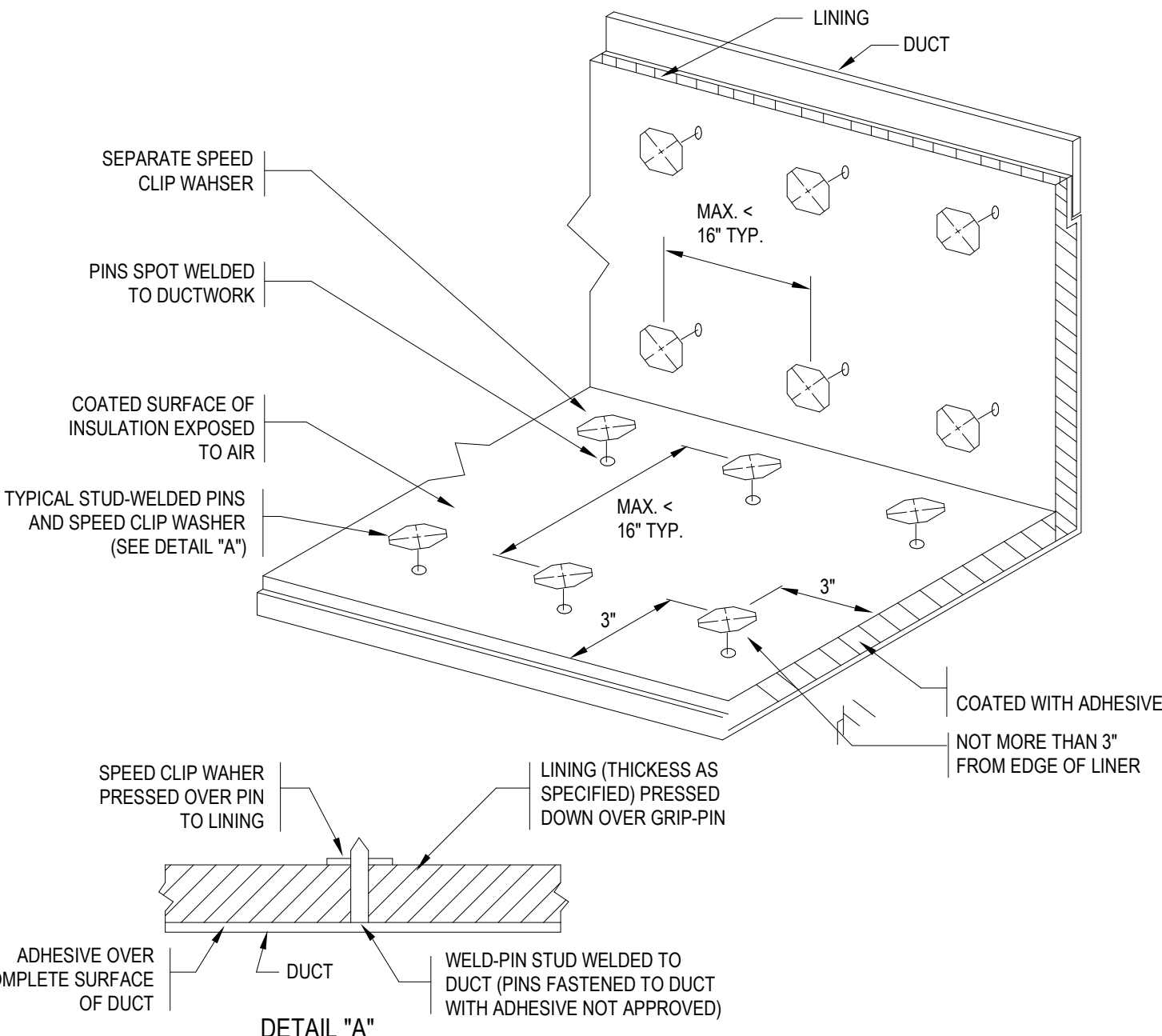
ROOF EXHAUST FAN INSTALLATION



DUCT HANGING DETAIL



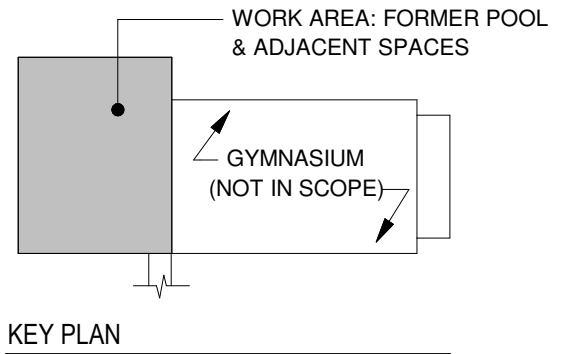
WALL EXHAUST FAN INSTALLATION



SOUND LINING INSTALLATION DETAIL

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MECHANICAL DETAILS

Drawing Number:

M3.0

PACKAGED ROOFTOP GAS FIRED AC UNITS

EQUIPME NT NO.	LOCATION	AREA SERVE D	NOMINA L TON	SUPPLY FAN					COOLING PERFORMANCE				HEATING PERFORMANCE		CONDENSER SECTION				COMPRESSOR			HEATING SECTION			ELECTRICAL DATA			FILTER		NOMINAL OPERATION WEIGHT (LBS.)	SEER/ EER	MANUFACTURER	MODEL	NOTES			
				OA MIN (CFM)	(CFM)	EXT. S.P. (IN W.G)	BHP/HP	RPM	TYPE	CAPACITY (MBH) TOTAL	SENSIBLE	EAT. (°F) DB/WB	LAT. (°F) DB/WB	TOTAL CAP MBH	EAT °F DB	EDB °F	CFM	FLA (EA)	FAN QUANTITY	TYPE	QUANTITY	RLA	TYPE	EAT/LAT (°F)	KW	INPUT (MBH)	V/PH/HZ	MCA (A)	MFS (A)						TYPE	NO. SIZE	
RTU-1	ROOF	MULTI/MEZZ	20.0	1775	7250	1.5	4.60	1839	VANE AXIAL	61.34	45.58	78.4/55.8	52.8/44.1	73.0	63.7	95	---	1.5	4	--	2	34/27.6	GAS	56.6/79.4	---	176/220	208-3-60	88.9	100	MERV 13	20X25X2	2869	~11.4	CARRIER	48GCDM24A2M5-3WPC0		
RTU-2	ROOF	1ST FLOOR	4.0	200	1850	1.5	1.83	2575	VANE AXIAL	61.34	45.58	76.4/54.9	54.4/44.4	73.0	63.7	95	---	2.6	1	--	1	12.9	GAS	63.6/90.8	---	50/67	230-3-60	29	40	MERV 13	16X25X2	651	17.4/---	CARRIER	48GCDJ05A3M5-3WPC0		
RTU-3	ROOF	2ND FLOOR	7.5	500	2950	1.5	2.13	1799	VANE AXIAL	40.69	27.79	77.4/55.0	51.6/42.8	73.0	59.5	95	---	1.5	2	--	2	15.9/9	GAS	57.7/90.0	---	90/125	230-3-60	44	50	MERV 13	20X20X2	893	~12.0	CARRIER	48GCDM08A5M5-3WPC0		
NOTES: 1) MODULATING HOT GAS REHEAT 2) CONSTANT VOLUME 3) CO2 DAMPER CONTROL 4) NON-FUSED DISCONNECT SWITCH 5) 120V FIELD-POWERED CONVENIENCE OUTLET 6) ECONOMIZER AND ERV 7) DIRTY FILTER SWITCH 8) ADVANCED MICROPROCESSOR CONTROLS W/ ALARM 9) COMPRESSOR SOUND JACKETS 10) 16" TALL ROOF CURB																																					

EVAPORATOR AC UNIT SECTION

UNIT No.	SERVICE	TYPE	TONS	SUPPLY FAN DATA			(CORRECTED) COOLING PERFORMANCE				HEATING PERFORMANCE		REFRIGERATION PIPE		ELECTRICAL DATA			MFR	MODEL	SOUND PRESSURE DBA	WEIGHT (LBS)	UNIT DIMENSIONS (W"XL"XH")	COMMENTS
				CFM	EXT.SP. (IN. WG)	TYPE	CAPACITY (MBH)		EAT	EAT	TOTAL CAP MBH	EAT	LIQUID (INCH)	SUCTION (INCH)	MCA (AMP)	MFS (AMP)	V/PH/Hz						
							TOTAL	SENSIBLE	°F DB	°F WB		°F DB											
AC-1	CONFERENCE	HORIZONTAL DUCTED	2	461-741	0.14-0.6	-	24	16.3	80	67	25	-	3/8	5/8	-	-	208/240-1-60	MITSUBISHI	PEAD-A24AA8	36	67	43-5/16X28-7/8X10	①
NOTES:																							
1. FOR ALL UNITS PROVIDE DISCONNECT SWITCH, CONDENSATE PUMPS,																							
2. PROVIDE UNITS WITH WALL MTD TEMPERATURE SENSOR																							

SPLIT AIR COOLED CONDENSING UNIT SECTION

UNIT No.	SERVICE	NOM. TONS	NOM. COOLING CAP. (BTU/H)	NOM. HEATING CAP. (BTU/H)	COOLING OUTDOOR TEMP °F DB	HEATING OUTDOOR TEMP °F DB	REFRIGERATION PIPE LIQUID / SUCTION (INCH)	COMPRESSOR		CONDENSER FAN (CFM)	ELECTRICAL DATA			SEER	MFR	MODEL	SOUND PRESSURE DBA	WEIGHT (LBS)	UNIT DIMENSIONS (W"XD"XH")	COMMENTS
								TYPE	RLA		MCA	MFS	V/PH/HZ							
ACCU-1	AC-1	2	24,000	25,000	95	47	3/8" / 5/8"	SCROLL	9	800	17	27	208/240-1-60	15.0	MITSUBISHI	SUZ-KA24NAHZ	52-53	190	(37.5"X14"X37")	
NOTES: 1. PROVIDE ROOF MTD BRACKET 2. SEE ASSOCIATED INDOOR UNIT FOR CONTROL OPTION INTERLOCKS. 3. INTERNAL UNIT CONTROLS. 4. AUTO CHARGE FUNCTION. 5. ADVANCED CONTINUOUS HEATING DURING DEFROST CYCLE. 6. LOW AMBIENT CONTROLS DOWN TO -4°F. 7. WIND BAFFLE																				

FAN SCHEDULE

UNIT No.	LOCATION	SERVICE	PERFORMANCE DATA				FAN MOTOR DATA					WEIGHT (LBS)	MODEL No.	MANUFACTURER	REMARKS
			CFM	ESP IN. W.G	RPM	SONE S	HP	STARTER TYPE	ELECTRICAL DATA						
									VOLTS	PH	HZ				
EF-1	EXTERIOR WALL	1ST FLOOR TOILETS AND SHOWER	300	1	1681	8.5	1/4	---	208	1	60	61	CUBE-100HP	GREENHECK	①③⑦
EF-2	ROOFTOP	2ND FLOOR TOILETS	250	0.5	1573	7.6	1/6	---	208	1	60	28	G-080-VG	GREENHECK	①③⑦
NOTES: 1 PROVIDE WITH BACKDRAFT DAMPER 2 INTERLOCK WITH LIGHT SWITCH 3 ISOLATION KIT 4 SOLID STATE CONTROLLER (UNIT MOUNTED) 5 WALL MTD COOLING ONLY THERMOSTAT 6 WALL SWITCH WITH PILOT LIGHT 7 TIME CLOCK 8 INTERLOCK WITH ASSOCIATED UNITS 9 20"ROOF CURB 10 ROOF CURB EXTENSION WITH SOUND ATTENUATOR															

ELECTRIC HEATER SCHEDULE

UNIT NO.	SERVICE	AIR DATA		ELECTRICAL DATA			DIMENSION	WEIGHT (LBS)	MFG	MODEL
		CFM	APPRX ATR	WATTS	AMPS	V///HZ				
WUH-1	CORRIDOR	320	45	4500	22.0	208/1/60	16x22.75x4.1	50	INDEECO	933U06000V SERIES WAI
WUH-2	STORAGE RM	160	45	4500	22.0	208/1/60	16x22.75x4.1	50	INDEECO	933U05000D SERIES WAI
1. DISCONNECT SWITCH 2. COLOR BY ARCHITECT 3. PROVIDE EACH WITH BUILT IN THERMOSTAT 4. TWO SPEED MOTOR FOR WUH-1 & 2 AND SUBBASE , SEMI RECESSED , D1 CONFIGURATION										

DIFFUSER SCHEDULE(BASED ON TITUS)

UNIT No.	TYPE	INLET OR NECK SIZE	FACE SIZE	CFM RANGE	MAXIMUM NC LEVEL	MAXIMUM S.P. IN H <sub>2</sub> O	MANUFACTURER MODEL NO.	ACCESSORIES
CD-A	DIFFUSER	10"	24X24	250-450	30	0.1	TMSA	x
CD-B	DIFFUSER	8"	24X24	100-300	30	0.06	TMSA	x
CD-C	DIFFUSER	6"	24X24	0-100	30	0.03	TMSA	x
TR-A	REGISTER	x	36X4	x	30	0.15	S-DL	x
TG-A	GRILLE	x	48X36	x	30	0.05	350RL	x
TG-B	GRILLE	x	24X24	x	30	0.05	23RL	x

LINEAR DIFFUSER SCHEDULE(BASED ON TITUS)

TYPE	ACTIVE LENGTH (FT-IN)	FLEX DUCT SIZE (IN)	SLOT WIDTH AND NUMBER	CAPACITY AIRFLOW (CFM) LPS	MODEL
A	4'-0"	--	3/4-2	400	ML-38
B	2'-0"	--	3/4-2	200	ML-28
REMARKS: TITUS					

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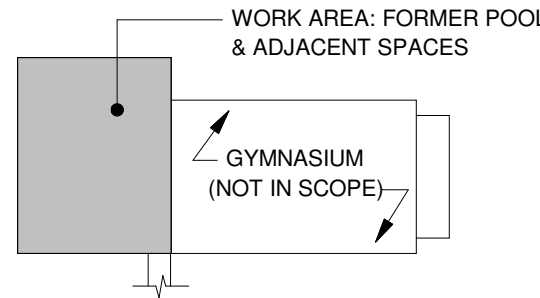
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MECHANICAL SCHEDULES

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M4.0

GENERAL ELECTRICAL NOTES:


1. ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NJ CODE, NFPA, UL, THE LATEST ENERGY CONSERVATION CONSTRUCTION CODE, AND ALL OTHER GOVERNING AGENCIES HAVING JURISDICTION. ALL WORK SHALL BE PERFORMED BY A NJ LICENSED ELECTRICAL CONTRACTOR AND FILED WILL ALL AUTHORITIES HAVING JURISDICTION.
2. THE ELECTRICAL CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. CONTRACTOR SHALL PERFORM THIS PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
3. SUBSEQUENT TO AWARD OF THE CONTRACT, THE ELECTRICAL CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE OF WORK TO THE ARCHITECT. THE SCHEDULE SHALL BE MODIFIED AS NECESSARY AND RE- ISSUED WHEN ANY CHANGES THERETO ARE REQUIRED.
4. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATIONS AND ELEVATIONS OF ALL RECEPTACLES, TELEPHONE/DATA OUTLETS, LIGHTING FIXTURES, ETC., SHALL BE DETERMINED BY THE ARCHITECT AND OWNER.
5. ANY DAMAGE TO WALLS, FLOORS, CEILINGS OR ANY PART OF THE BUILDING OR EQUIPMENT CAUSED BY THE WORK OF THE CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
6. THE ELECTRICAL CONTRACTOR SHALL MAKE APPLICATION TO THE UTILITY COMPANY FOR AN UPGRADE TO THE EXISTING BUILDING ELECTRICAL SERVICE AND SHALL INSTALL THE NEW ELECTRICAL SERVICE IN ACCORDANCE WITH THE UTILITY COMPANY SERVICE LAYOUT AND REQUIREMENTS. SERVICE EQUIPMENT INTERRUPTING RATINGS SHALL BE COORDINATED WITH THE SHORT CIRCUIT AVAILABILITY AS PROVIDED BY THE UTILITY COMPANY.
7. CIRCUIT NUMBERS INDICATED ON PLANS ARE FOR GROUPING PURPOSES ONLY. WHERE DRAWINGS CALL FOR SEPARATE NEUTRAL WIRES OR DEDICATED CIRCUITS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUITS WITH PROPER PHASE SEQUENCING FOR EVERY SHARED NEUTRAL WIRE.
8. BRANCH CIRCUITS SHALL BE ARRANGED TO BALANCE LOADS TO THE EXTENT POSSIBLE. LOADS IMBALANCES BETWEEN PHASES SHALL NOT EXCEED 10%.
9. ALL PANELS SHALL HAVE COMPLETE DIRECTORIES INDICATING LOADS SERVED AS WELL AS SPARES AND SPACES.
10. ELECTRIC PANEL COVERS SHALL NOT BE LEFT OFF AT ANY TIME UNLESS CONTRACTOR'S PERSONNEL ARE WORKING ON SAME. COVERS SHALL BE REPLACED AT THE END OF THE WORK DAY.
11. PROVIDE GROUND WIRE IN ALL FEEDERS TO MOTORIZED EQUIPMENT.
12. PROVIDE ARC FAULT CIRCUIT BREAKERS OR RECEPTACLES WHERE INDICATED OR WHERE REQUIRED BY CODE.
13. PROVIDE GROUND FAULT CIRCUIT BREAKERS OR RECEPTACLES WHERE INDICATED OR WHERE REQUIRED BY CODE.
14. ANY ELECTRICAL EQUIPMENT INDICATED OUTDOORS SHALL BE WEATHERPROOF IN NEMA 3R ENCLOSURES.
15. ALL DEVICE COLORS AND FINISHES, AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES SHALL BE IN ACCORDANCE TO ARCHITECTURAL DRAWINGS.
16. 1/2" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED.
17. ARMOR CLAD (AC) OR METAL-CLAD CABLE (MC) MAY BE USED AS PERMITTED BY CODE. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED WITH SET SCREW TYPE FITTINGS.
18. FLEXIBLE METALLIC CONDUIT (FMC) (GREENFIELD) SHALL BE USED FOR FINAL CONNECTION TO MOTORS AND TO RECESSED MOUNTED LIGHTING FIXTURES. LENGTH SHALL NOT EXCEED 6 FEET.
19. WHERE MORE THAN ONE SWITCH IS INSTALLED IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A MULTI- GANG BOX UNDER ONE COVER PLATE.
20. ALL MATERIALS SHALL BE NEW AND SHALL CONFORM WITH THE STANDARDS OF THE UNDERWRITERS LABORATORIES, INC. (UL) WHERE SUCH A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIAL IN QUESTION, UNLESS OTHERWISE NOTED.
21. THE CONTRACTOR SHALL SUBMIT CATALOG CUTS AND SHOP DRAWINGS OF ALL DEVICES, EQUIPMENT AND MATERIAL PROPOSED TO BE USED TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL. A SHOP DRAWING LOG SHALL BE MAINTAINED BY THE CONTRACTOR AND STATUS OF SUBMISSIONS SHALL BE UPDATED AT LEAST BI-WEEKLY.
22. ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRESTOPPED USING LISTED AND APPROVED FIRESTOP ASSEMBLIES; AND ALL PENETRATIONS THROUGH EXTERIOR WALLS OR FLOORS SHALL BE WATERPROOFED.
23. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION.
24. BEFORE INSTALLING ANY WORK, THE CONTRACTOR SHALL CONFIRM THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS PILASTER, PARTITIONS, WALLS, ETC., AS SHOWN ON THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR AT HIS OWN EXPENSE SHALL MAKE SUCH CHANGES IN THE WORK AS NECESSARY AND AS DIRECTED BY THE ARCHITECT, TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
25. DURING THE PROJECT DURATION, THE ARCHITECT AND ENGINEER WILL INSPECT THE WORK PROGRESS. ANY WORK WHICH IS JUDGED UNSATISFACTORY FOR ANY REASON OR NOT IN COMPLIANCE WITH THE CONTRACT, CODE, OR STANDARDS SHALL BE REMOVED AND REPLACED AS DIRECTED AND AT THE EXPENSE OF THE CONTRACTOR.
26. CHOPPING OR CHASING OF WALLS AND MASONRY MUST BE COORDINATED WITH THE ENGINEER AND ARCHITECT PRIOR TO COMMENCING WORK.
27. AFTER COMPLETION OF THE PROJECT, THE ELECTRICAL CONTRACTOR SHALL PERFORM A TEST OF THE EMERGENCY EGRESS LIGHTING SYSTEM. TEST SHALL BE PERFORMED AFTER DARK (AT LEAST 1 HOUR AFTER SUNSET); SIMULATE POWER FAILURE ON ALL LIGHTING CIRCUITS. TAKE LIGHT LEVEL READINGS ALONG PATHS OF EGRESS UTILIZING A FOOT CANDLE METER; RECORD READINGS ON A REDUCED SCALE (1/16" - 1'-0") FLOOR PLAN. READINGS SHALL BE TAKEN AT THE MIDPOINT BETWEEN EMERGENCY FIXTURES AT A HEIGHT OF 18 INCHES ABOVE FLOOR. SUBMIT SEALED AND SIGNED COPY OF THE FLOOR PLAN AND READINGS TO THE ENGINEER.
28. UPON COMPLETION OF THE WORK, A SET OF "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE. FINAL AS-BUILTS SHALL BE SUBMITTED TO THE OWNER PRIOR TO PROJECT CLOSEOUT.
29. THE ENERGIZATION OF THE ELECTRICAL INSTALLATION DOES NOT CONSTITUTE AN ACCEPTANCE OF THE WORK BY THE OWNER. FINAL ACCEPTANCE IS TO BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT THE WORK FULFILLS THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND HAS FURNISHED ALL REQUIRED CERTIFICATES OF APPROVAL FROM THE STATE AUTHORITIES, MUNICIPAL AUTHORITIES AND UNDERWRITERS.
30. ELECTRICAL CONTRACTOR SHALL FILE FOR NECESSARY INSPECTIONS AND SHALL PROVIDE AN ELECTRICAL INSPECTION APPROVAL CERTIFICATE TO THE ARCHITECT UPON COMPLETION OF THE WORK.
31. ALL PANELS SHALL BE FLUSH/RECESSED MOUNTED UNLESS OTHERWISE NOTED.

GENERAL DEMOLITION NOTES:


- A. REFER TO ARCHITECTURAL DEMOLITION NOTES FOR ADDITIONAL INFORMATION.
- B. IN AREAS DESIGNATED FOR DEMOLITION BY THE ARCHITECTURAL DRAWINGS, IT IS THE INTENT OF THIS CONTRACT THAT THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL, TELECOMMUNICATION, SECURITY AND AUDIOVISUAL EQUIPMENT INCLUDING: POWER AND LIGHTING PANELBOARDS IF ANY AND ASSOCIATED FEEDERS, TRANSFORMERS, PULLBOXES, LIGHT FIXTURES, FLOOR RECEPTACLES, POWER AND TEL DATA DOGHOUSE OUTLETS, WALL MOUNTED RECEPTACLES, TELEPHONE/DATA OUTLETS, CONTROL DEVICES AND LIGHT SWITCHES, POWER OUTLETS, BOXES, WIRING, RACEWAYS, CONDUITS AND CABLE TRAYS, AND ALL OTHER EQUIPMENT (UNLESS OTHERWISE NOTED) WHICH IS MOUNTED ON WALLS, FLOORS OR PARTITIONS THAT WILL BE TAKEN OUT. ALL WORK TO BE DONE IN AN APPROVED MANNER.
- C. THE BUILDING FIRE ALARM SYSTEM INTEGRITY SHALL BE MAINTAINED AT ALL TIMES (BEFORE, DURING AND AFTER DEMOLITION AND/OR CONSTRUCTION). TEMPORARILY SUPPORT ALL DEVICES LOCATED ON WALLS OR CEILINGS TO BE DEMOLISHED. REPROGRAM AND/OR MODIFY EXISTING BASE BUILDING FIRE ALARM SYSTEM TO ACCOMMODATE THE REMOVAL OF DEVICES AND MECHANICAL SYSTEMS AND COMPONENTS. IF THE EXISTING SYSTEM IS FOUND TO BE INOPERABLE, PROVIDE A TEMPORARY SYSTEM DURING CONSTRUCTION. PROVIDE A FIRE WATCH IF REQUIRED BY LOCAL OFFICIALS.
- D. THE BUILDING CCTV AND SECURITY SYSTEM INTEGRITY SHALL BE MAINTAINED AT ALL TIMES (BEFORE, DURING AND AFTER DEMOLITION AND/OR CONSTRUCTION). COORDINATE WITH OWNER REMOVAL OF CCTV AND SECURITY SYSTEM DEVICES. RELOCATE TEMPORARILY, IF REQUIRED BY OWNER ALL DEVICES LOCATED ON WALLS OR CEILINGS TO BE DEMOLISHED.
- E. PROVIDE TEMPORARY LIGHTING AND POWER FOR ALL TRADES DURING DEMOLITION AND CONSTRUCTION -- WHEN USING TEMPORARY LIGHTING, THE CONTRACTOR SHALL CLEARLY LABEL PANELS AND BREAKERS USED FOR LIGHTING. LOCATION OF PANELS TO BE SHOWN ON FLOOR PLAN POSTED AT ENTRANCE TO WORK AREA. PROPER TEMPORARY LIGHTING AND POWER MUST BE INSTALLED AND MAINTAINED IN ALL WORK AREAS. TEMPORARY LIGHT AND POWER STRINGERS SHALL UTILIZE C-TAP TERMINATIONS. LAMP HOLDERS SHALL HAVE LEFT HANDED SCREW SHELL LAMP HOLDERS AND NON-METALLIC LAMP GUARDS. CONNECTIONS TO EXISTING STAIRWELL AND EXIT LIGHT SYSTEMS ARE NOT PERMITTED.
- F. DEMOLITION NOTES ON PLANS ARE INTENDED TO INDICATE MINIMUM DEMOLITION WORK. CONTRACTOR SHALL VERIFY IN FIELD THE FULL EXTENT OF THE WORK. CONTRACTOR SHALL INFORM ARCHITECT AND ELECTRICAL ENGINEER OF ANY DISCREPANCIES.
- G. BRANCH CIRCUITRY AND CONTROL WIRING FOR MECHANICAL EQUIPMENT AND DEVICES TO BE REMOVED SHALL BE DISCONNECTED AND REMOVED -- COORDINATE WITH MECHANICAL CONTRACTOR THESE REMOVALS. RELOCATE ANY CONTROL DEVICES TO TEMPORARY LOCATIONS IF REQUIRED. FOR EXISTING A/C UNITS TO BE REMOVED, DISCONNECT AND REMOVE STARTERS, DISCONNECT SWITCHES, JUNCTION BOXES, POWER AND CONTROL WIRING BACK TO SOURCE. CONTINUITY SHALL BE MAINTAINED ON ALL ELECTRICAL CIRCUITS FEEDING POWER TO A/C UNITS OR MECHANICAL EQUIPMENT NOT BEING REMOVED.
- H. ALL ELECTRICAL DEVICES REMOVED AND TO BE REINSTALLED SHALL BE CLEANED. ALL OTHER DEVICES THAT ARE REMOVED AND MADE SURPLUS SHALL BE REMOVED FROM THE SITE. CONTRACTOR MUST OBTAIN OWNER'S APPROVAL FOR DISPOSITION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL ELECTRICAL EQUIPMENT NOT DEEMED SALVAGEABLE BY OWNER.
- I. THE ELECTRICAL CONTRACTOR SHALL DETERMINE THE EXTENT OF PCB CONTAMINATED BALLASTS (IF ANY) AND SHALL PROPERLY DISPOSE OF SUCH BALLASTS. CONTRACTOR TO DOCUMENT IN WRITING THAT ALL PROPER PROCEDURES AND APPLICABLE ENVIRONMENTAL LAWS WERE ADHERED TO.
- J. THE CONTRACTOR SHALL MAINTAIN CONTINUITY OF SERVICE ON ALL CIRCUITS AFFECTED BY THIS DEMOLITION. WHENEVER IT IS REQUIRED THAT AN EXISTING CIRCUIT BE REVISED, DISCONNECTED OR REMOVED, IT SHALL BE UNDERSTOOD THAT THE CIRCUIT SHALL BE RECONNECTED AND SERVICE REESTABLISHED IN THE REMAINING PORTION OF THE CIRCUIT AFFECTED BY THIS ALTERATION.
- K. THE CONTRACTOR SHALL CUT BACK TO THE FLOOR, WALL OR CEILING, REMOVE WIRING AND PLUG BOTH ENDS OF CONCEALED CONDUITS MADE OBSOLETE BY THIS ALTERATION. EXPOSED CONDUITS, CABLE TRAYS, WIREWAYS, OUTLET BOXES, PULL BOXES, HANGERS, ETC. MADE OBSOLETE BY THE ALTERATION WORK SHALL BE REMOVED, UNLESS OTHERWISE NOTED.
- L. REMOVE AND DISPOSE OF ALL OBSOLETE POWER AND TELECOMMUNICATION WIRING IN FLOOR CELL SYSTEM BACK TO RESPECTIVE SOURCES. ALL FLOOR CELLS SHALL BE THOROUGHLY CLEANED AND VACUUMED. ALL UNUSED DUCT OPENINGS SHALL BE SEALED WITH MANUFACTURED BLANK-OFF PLATES. PATCH FLOOR WITH CONCRETE FLUSH WITH FLOOR SURFACE.
- M. IN CONNECTION WITH THE ALTERATIONS TO THE EXISTING BUILDING, THERE MAY BE CERTAIN REMOVALS AND RELOCATIONS OF THE EXISTING ELECTRICAL WORK NECESSARY FOR THE SATISFACTORY PERFORMANCE OF THE GENERAL WORK. THESE CHANGES CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS, BUT SHOULD BE TAKEN INTO CONSIDERATION BY THE CONTRACTOR IN PREPARING HIS PROPOSAL FOR THIS WORK.
- N. DURING DEMOLITION PROCEDURES, PROVIDE ALL NECESSARY PROTECTION FOR EXISTING ELECTRICAL WORK REQUIRED FOR REUSE.
- O. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE DEMOLITION AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEMS RESTORED TO NORMAL OPERATION.
- P. WHERE ELECTRICAL EQUIPMENT EXISTS IN OR ON SURFACES OR EQUIPMENT IS TO BE REMOVED, THE CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES SO THAT ELECTRICAL EQUIPMENT IS DE-ENERGIZED PRIOR TO REMOVAL OF THE SURFACE.
- Q. WHERE DISCONNECTION AND REMOVAL OF ELECTRICAL POWER AND EQUIPMENT TO EXISTING EQUIPMENT IS REQUIRED, SUCH DISCONNECTION AND REMOVAL SHALL BE ACCOMPLISHED WELL IN ADVANCE OF REMOVAL OF THE EQUIPMENT.
- R. ALL POWER WIRING IN AREAS TO BE DEMOLISHED SHALL BE THOROUGHLY TRACED OUT TO DETERMINE THE DEVICES BEING FED FROM IT. ALL OBSOLETE WIRING AND CONDUIT SHALL BE REMOVED BACK TO THEIR RESPECTIVE PANELS UPON COMPLETION OF DEMOLITION, AN ACCURATE COUNT OF ALL SPARE CIRCUITS IN ALL PANELS SHALL BE MADE BY THE CONTRACTOR AND FURNISHED TO THE ARCHITECT AND ELECTRICAL ENGINEER. INFORMATION SHALL INCLUDE PANEL NAME, PANEL LOCATION, NUMBER OF SPARE CIRCUIT BREAKERS OF EACH SIZE AND TYPE, NUMBER OF EMPTY SPACES FOR FUTURE BBREAKERS IN EACH PANEL.
- S. ALL EXISTING ELECTRICAL EQUIPMENT WITHIN THE ELECTRICAL CLOSETS SHALL BE SPECIFIED UNDER THE CONSTRUCTION PHASE OF THE PROJECT.
- T. ALL DEMOLISHING WORK, WHICH CREATES DISTURBING NOISE, SHALL BE PERFORM AS PER OWNERS INSTRUCTIONS. THE REMOVAL OF DEBRIS AND EQUIPMENT MUST BE ARRANGED TO AVOID ANY INCONVENIENCE TO OWNER.

DRAWING LIST	
E-0.1	ELECTRICAL NOTES, SYMBOLS & ABBREVIATIONS
ED-1.0	ELECTRICAL BASEMENT & FIRST FLOOR DEMOLITION PLANS
E-1.0	ELECTRICAL FIRST & SECOND FLOOR POWER PLANS
E-1.1	ELECTRICAL ROOF PLAN
E-2.0	ELECTRICAL FIRST & SECOND FLOOR LIGHTING PLANS
E-3.0	ELECTRICAL RISER DIAGRAM
E-4.0	ELECTRICAL SCHEDULES
E-5.0	ELECTRICAL DETAILS


ELECTRICAL LEGEND:




EXIT LIGHT REFER TO E-602 FOR SPECIFICATION




NOTES:  
1. TIE EMERGENCY LIGHTS INTO NEAREST EXISTING EXIT SIGNAGE CIRCUIT. THIS CIRCUIT SHALL BE UNSWITCHED AND REMAIN ON ALWAYS.




DIMMABLE LIGHT SWITCH




3-WAY DIMMABLE LIGHT SWITCH




LUTRON- MAESTRO-MS-Z101




WALL MOUNTED DUAL TECHNOLOGY PASSIVE INFRA-RED/NIC, ULTRASOUND OCCUPANCY SENSOR (PROGRAMMED AS "VACANCY SENSOR") WITH MANUAL PUSH-BUTTON ON/OFF SWITCH.




USB CHARGER RECEPTACLE




DUPLEX RECEPTACLE




QUAD RECEPTACLE




DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER (ALL KITCHEN RECEPTACLES TO BE GFCI)




DISCONNECT SWITCH




TELEPHONE/DATA OUTLET




EXISTING ELECTRIC PANEL




NEW ELECTRIC PANEL FLUSH MOUNTED U.O.N




HOMERUN




CEILING MOUNTED JUNCTION BOX




WALL MOUNTED JUNCTION BOX




CAM - CAMERA




MD - MOTION DETECTOR



PB - PANIC BUTTON



DC - DOOR CONTACT SENSOR



WIFI - INTERNET (WIRELESS)

ELECTRICAL ABBREVIATIONS:  
(NOT ALL ABBREVIATIONS COULD BE USED)

A	AMPERES	HZ	HERTZ
ACT	ABOVE COUNTER TOP	JB	JUNCTION BOX
AFB	ABOVE FINISH FLOOR		
AWG	AMERICAN WIRE GAUGE	KVA	KILOVOLT AMPERES
BLDG	BUILDING	KW	KILOWATTS
C	CONDUIT	LP	PANEL DESIGNATION
CAT	CATALOG	LTG	LIGHTING
CAM	CAMERA		
CB	CIRCUIT BREAKER	MAX	MAXIMUM
CKT	CIRCUIT	MCB	MAIN CIRCUIT BREAKER
CLG	CEILING	MECH	MECHANICAL
DGP	DATA GATHERING PANEL	MER	MECHANICAL EQUIPMENT ROOM
DISC	DISCONNECT	MFS	MAIN FUSED SWITCH
DN	DOWN	MIN	MINIMUM
DR	DOOR RELEASE	MLO	MAIN LUGS ONLY
DWG	DRAWING	MTD	MOUNTED
ELEC	ELECTRICAL	MW	MICROWAVE
EM	EMERGENCY	N	NEUTRAL
EQUIP	EQUIPMENT	NC	NORMALLY CLOSED
FACP	FIRE ALARM CONTROL PANEL	NIC	NOT IN CONTRACT
FBO	FURNISH BY OTHER DIVISION OF WORK	No.	NUMBER
FIXT	FIXTURE	NL	NIGHT LIGHT
FL	FLOOR	NTS	NOT TO SCALE
FLEX	FLEXIBLE	P	POLE
FT	FEET OR FOOT	PL	PROPERTY LINE BOX
GA	GAUGE	PC	PERSONAL COMPUTER
G, GRD, GND	GROUND	PNL	PANEL
GC	GENERAL CONTRACTOR	Ø	PHASE
GFI	GROUND FAULT INTERRUPTER	SW	SWITCH
HD	HAND DRYER	SWBD	SWITCHBOARD
HP	HORSEPOWER	SEB	SERVICE END BOX
HVAC	HEATING, VENTILATING AND AIR CONDITIONING DIVISION OF WORK	TEL	TELEPHONE
		TYP	TYPICAL
		U.O.N	UNLESS OTHERWISE NOTED
		UL	UNDERWRITERS LABORATORIES
		V	VOLTAGE

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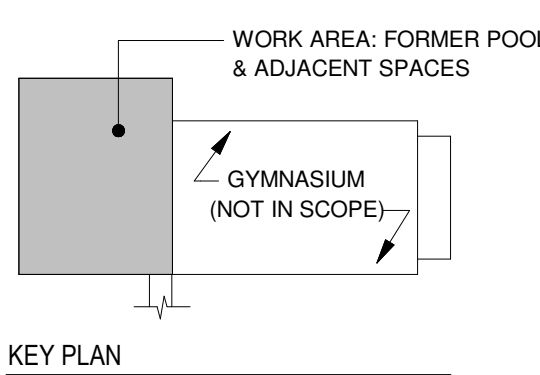
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Drawing Title:  
ELECTRICAL GENERAL  
NOTES

Drawing Number:

E0.1



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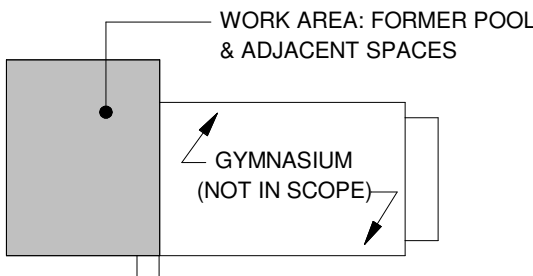
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KEY PLAN

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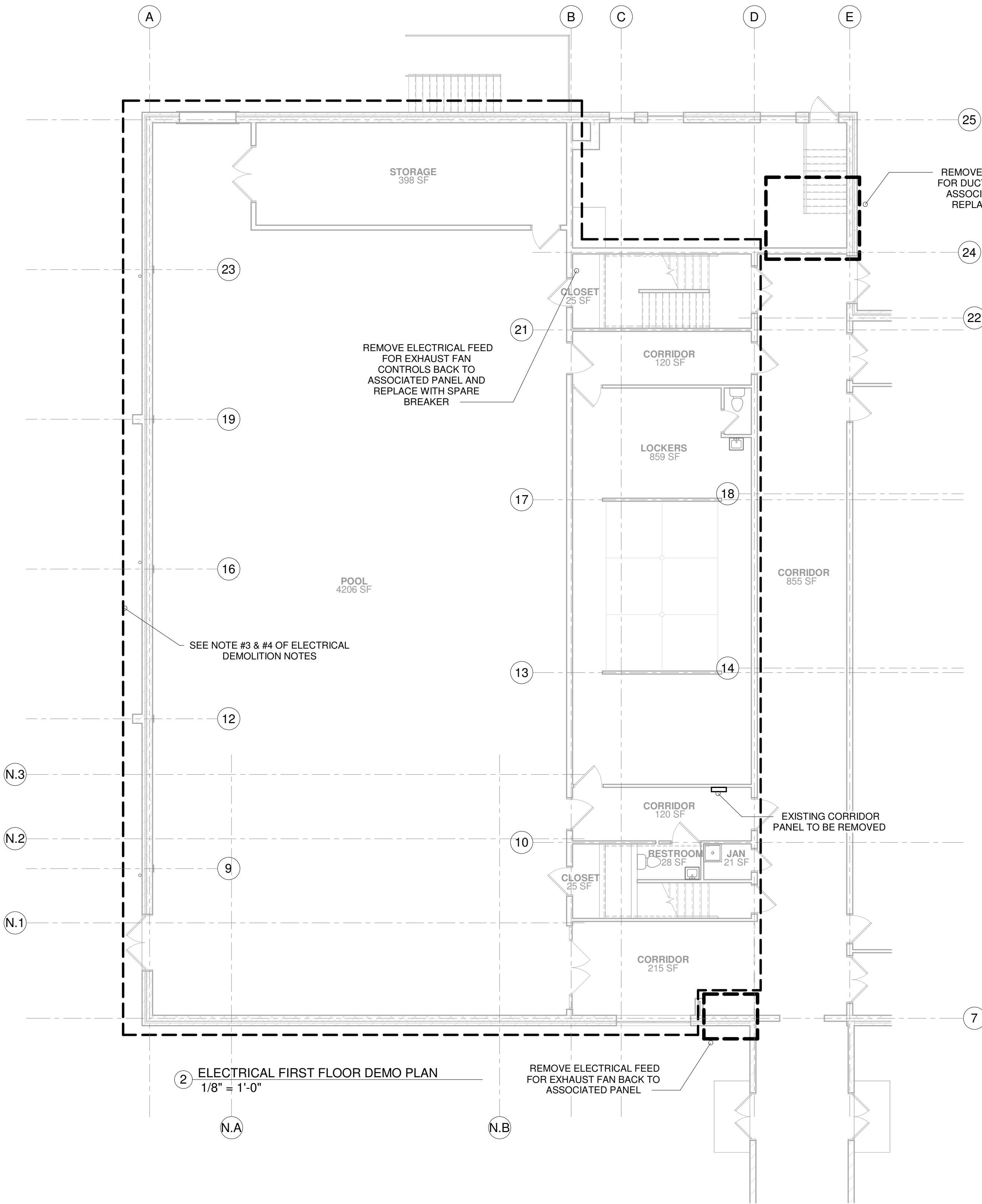
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Drawing Title:  
ELECTRICAL FIRST FLOOR  
& BASEMENT DEMOLITION  
PLAN

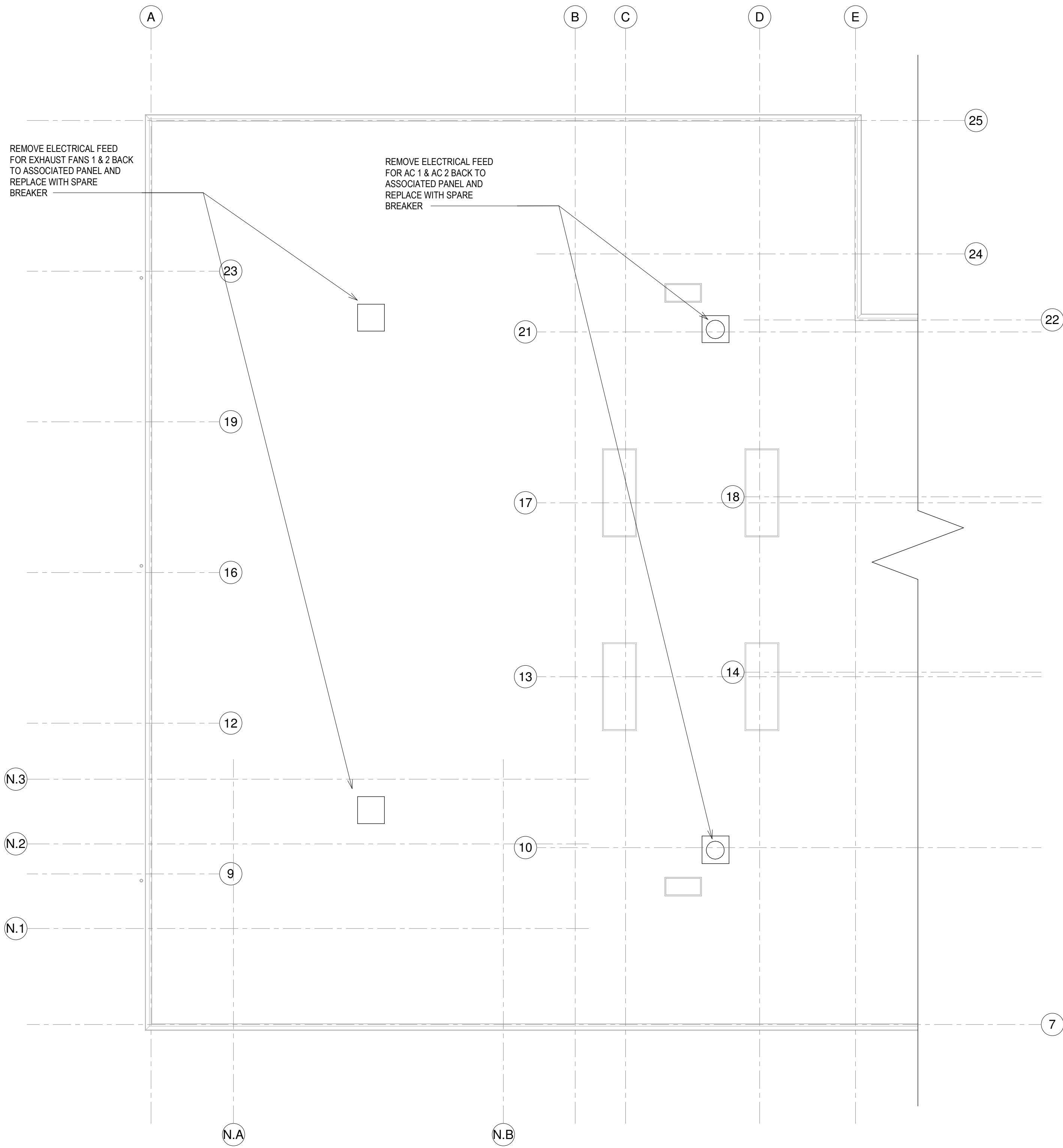
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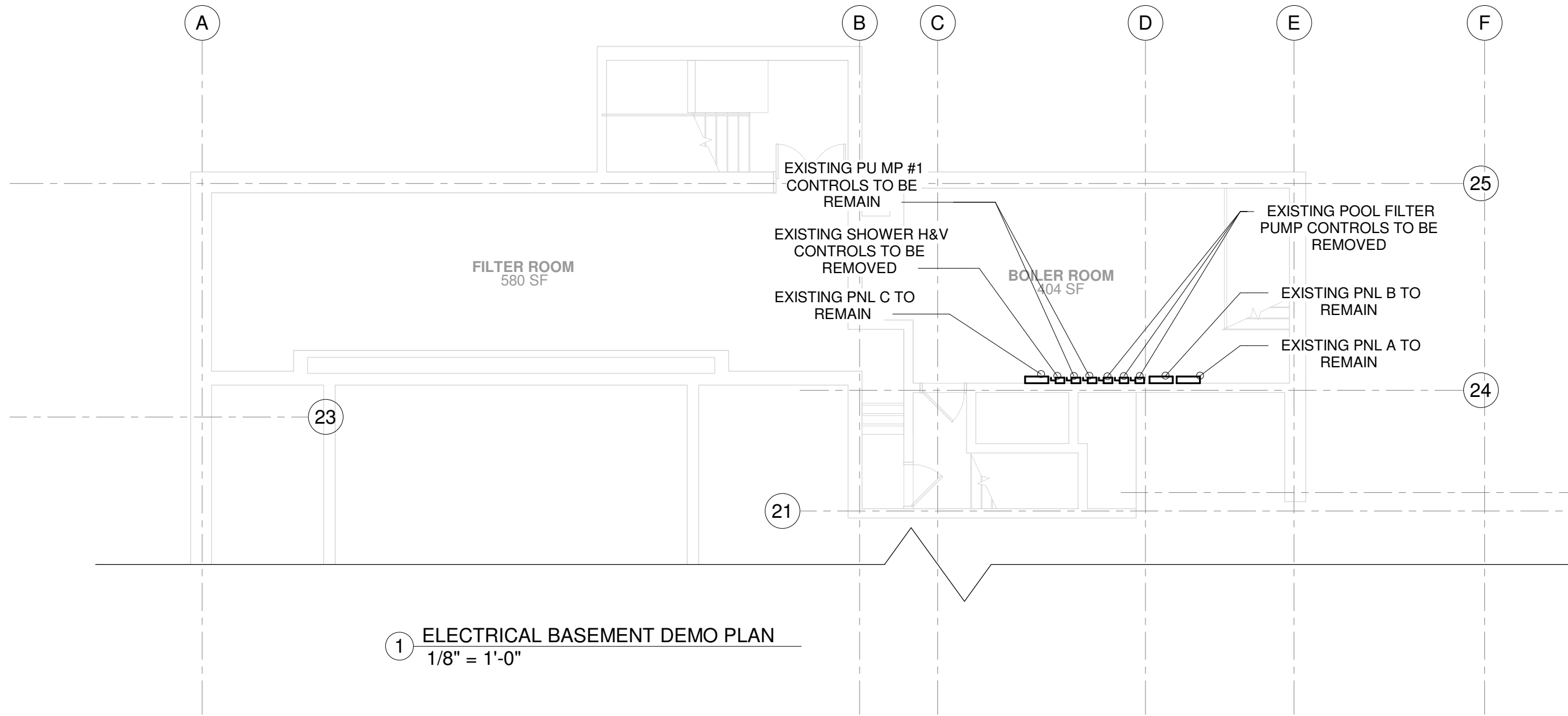
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2 ELECTRICAL FIRST FLOOR DEMO PLAN  
1/8" = 1'-0"



3 ELECTRICAL ROOF PLAN DEMO  
1/8" = 1'-0"



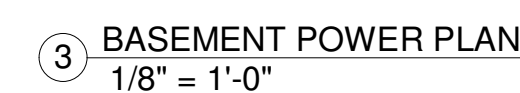
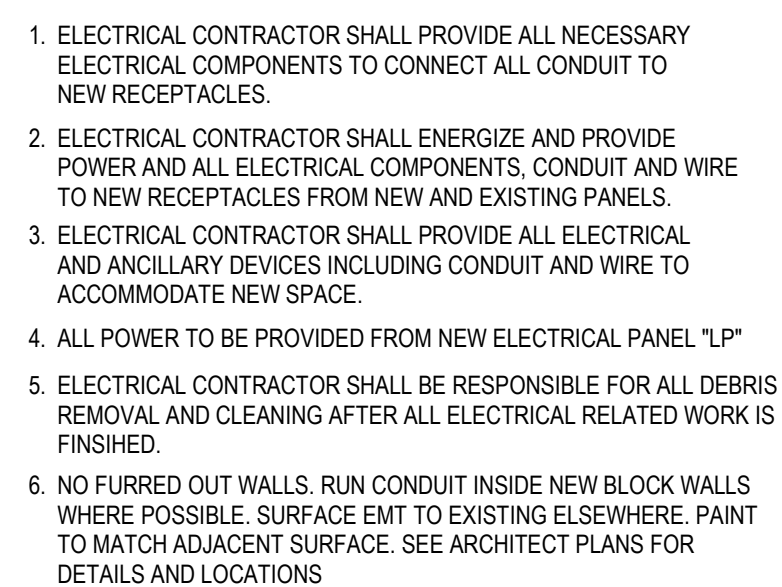
1 ELECTRICAL BASEMENT DEMO PLAN  
1/8" = 1'-0"

**ELECTRICAL DEMOLITION NOTES:**

1. REFER TO GENRAL NOTES, AND GENERAL DEMOLITION NOTES ON DRAWING E0.1 FOR ADDITIONAL REQUIREMENTS. REFER TO ARCHITECTURAL AND ELEVATOR DRAWINGS AND NOTES FOR ADDITIONAL INFORMATION AND SCOPE OF WORK
2. ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. CONTRACTOR SHALL PERFORM THIS, PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS. REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN AND SUCH AN EXAMINATION BEEN MADE.
3. ELECTRICAL CONTRACTOR SHALL DEMOLISH ALL RECEPTACLES AND WIRING BACK TO EXISTING PANELS
4. ELECTRICAL CONTRACTOR SHALL REMOVE ALL POWER, WIRING AND CONDUIT SERVING LIGHTING EQUIPMENT AND OTHER DEVICES SCHEDULED FOR DEMOLITION.
5. TEMPORARY LIGHT STREAMERS, WHERE SPICED, ARE TO HAVE COMPRESSION FITTINGS OR BE SOLDERED.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND CONFER WITH THE ARCHITECT.
7. ALL DEVICES THAT ARE TO BE REMOVED AND MADE SURPLUS FROM THE SITE LOCATION MUST OBTAIN OWNERS DISPOSITION AND APPROVAL.
8. WHEN REMOVING WALL MOUNTED RECEPTACLES WITH CONDUIT IN FLOORS OR WALLS, ALL CONDUITS IS TO BE REMOVED (CHOPPING AND PATCHING OF CONCRETE FLOOR INCLUDED) AND THE WIRE IS TO BE PULLED BACK TO THE TRENCH HEADER DUCT AND CAPPED. IF SEPARATE CIRCUIT, WIRE IS TO BE PULLED BACK TO PANEL BOX AND REMOVED FROM BREAKER.
9. ELECTRIC PANELS COVER ARE NOT TO BE LEFT OFF AT ANY TIME UNLESS MEN ARE WORKING ON THEM. COVERS SHALL BE REPLACED EACH NIGHT BEFORE LEAVING JOB SITE.

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# E1.0



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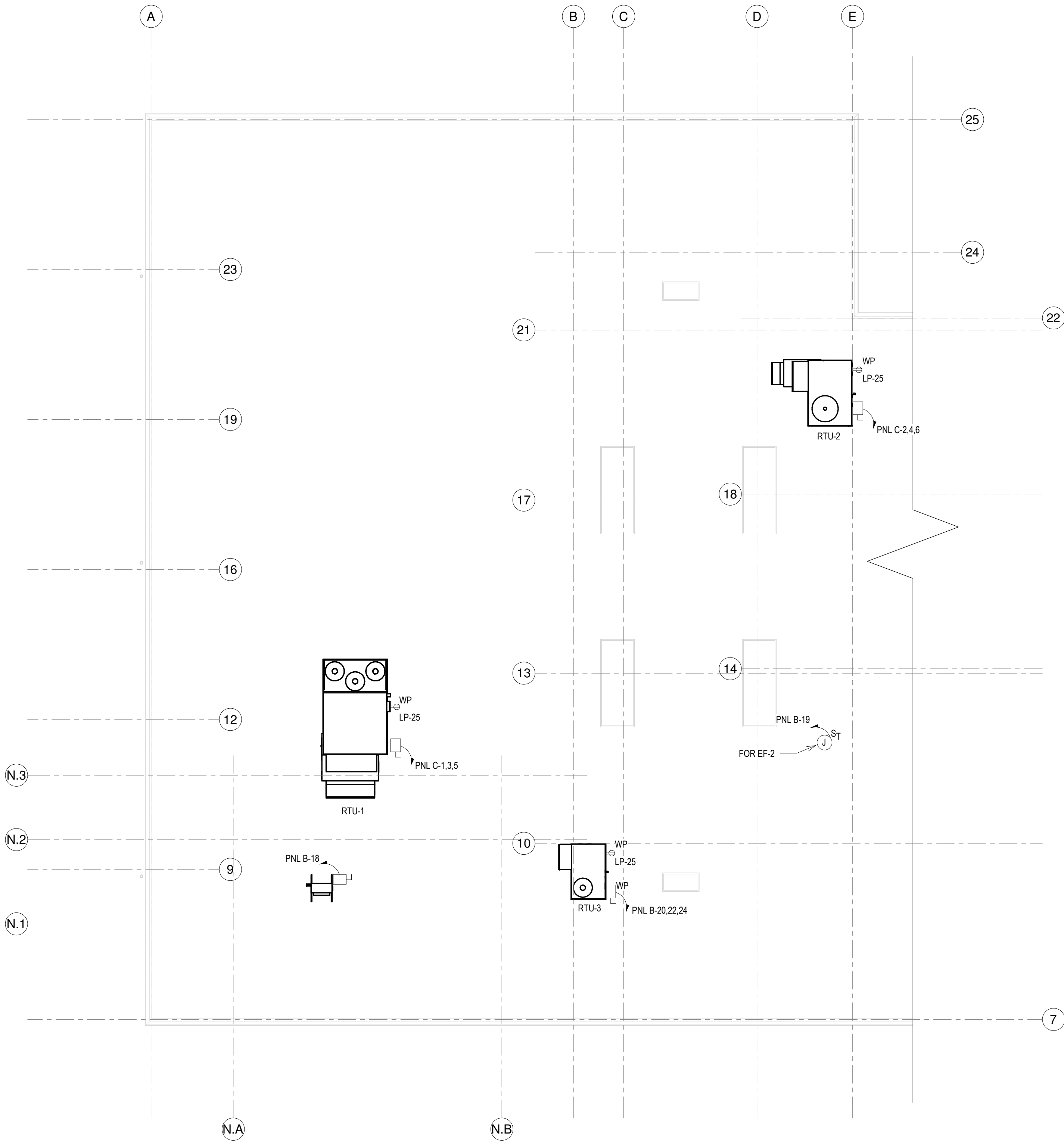
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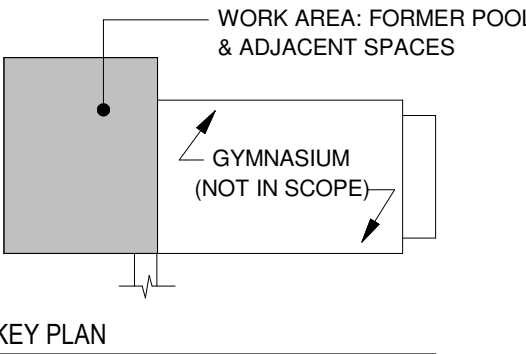
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1 ROOF POWER PLAN  
1/8" = 1'-0"



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ELECTRICAL ROOF PLAN

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Drawing Set:  
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Drawing Title:  
ELECTRICAL FIRST &  
SECOND FLOOR LIGHTNG  
PLANS

Drawing Number:

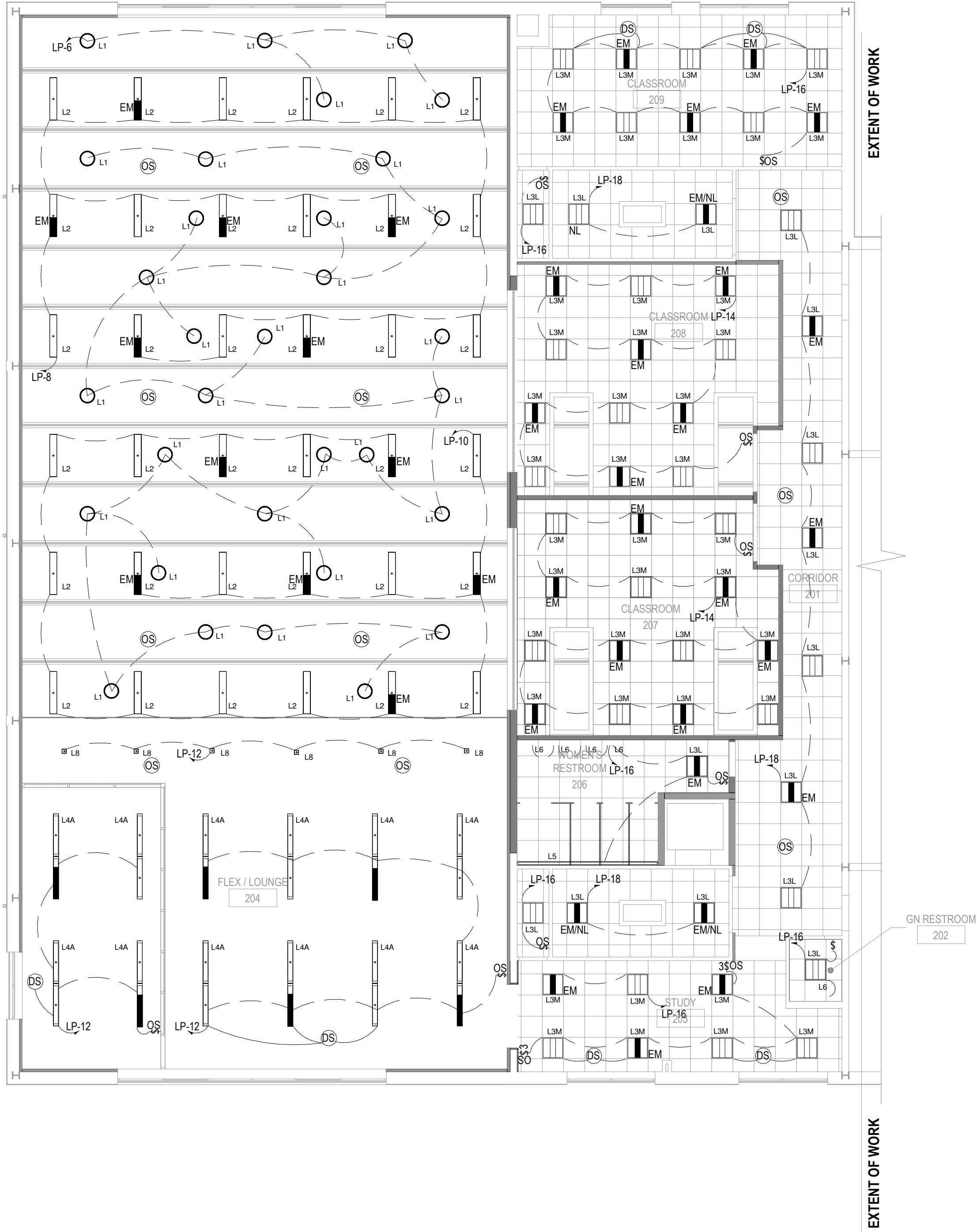
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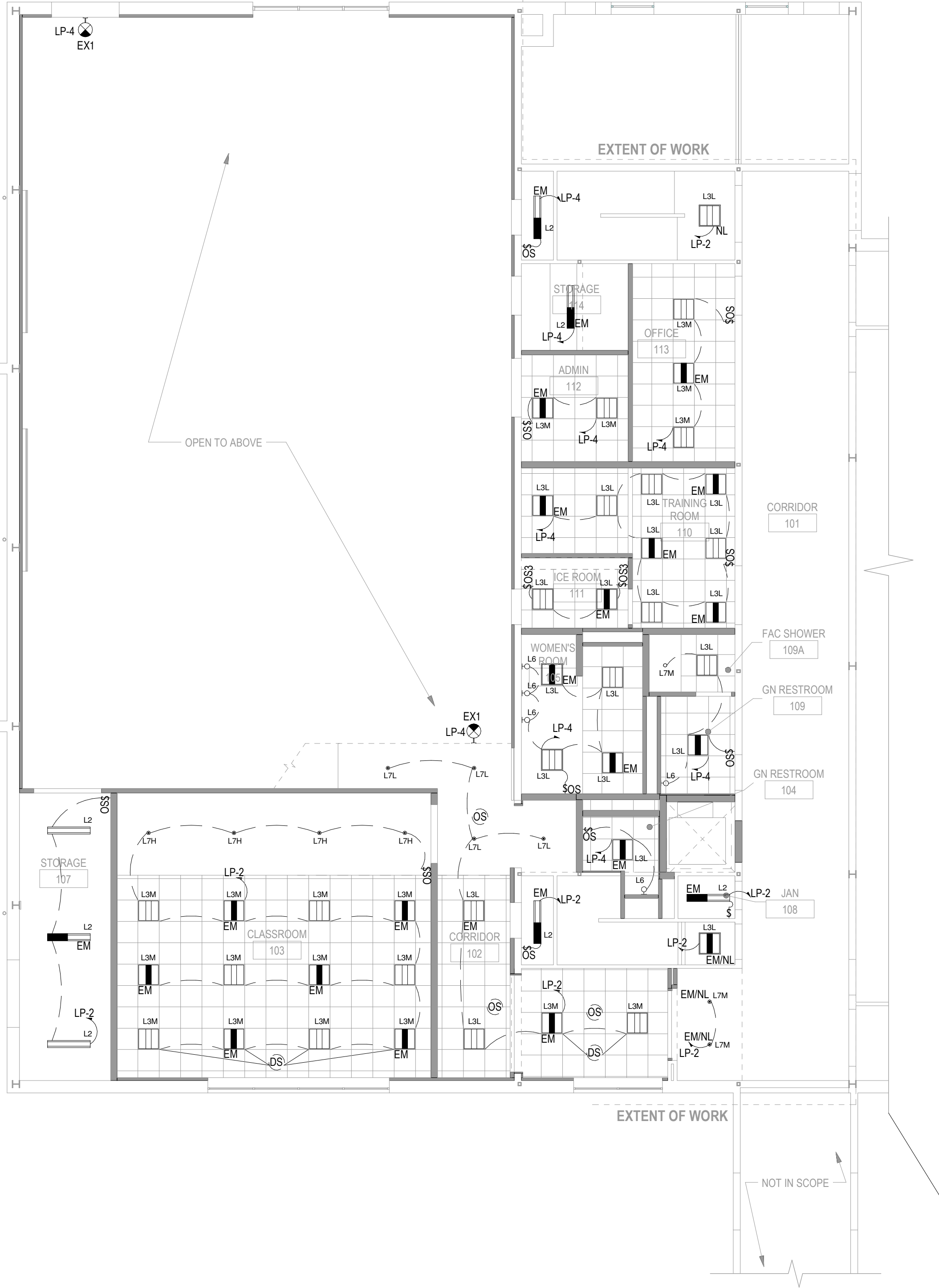
CODE	SPECIFICATION	MANUFACTURER/CATALOG NO.	LAMP TYPE	WATTS	NOTES
L1	14" DIAMETER PENDANT MOUNTED GLOBE, 1500 LMNS, 3K COLOR	OCL LIGHTING #EU1-P1CB-X-14-WG-X-LED2-35K-UNV-X-DM1	LED	21	0-10V DIMMING 1%
L2	8" WIDE X 4' LONG LINEAR PENDANT, 7800 LMNS, 35K COLOR, MOUNTED AT 22-0" AFF	CURRENT LTG #RLB4-35-LHHE-FAM-ED1-U/CM48SCF3-KIT	LED	65	0-10V DIMMING 1%
L3L	2X2 RECESSED LED BASKET TROFFER SET TO LOW OUTPUT, 2642 LMNS, 35K COLOR	CURRENT LTG #CCL224LSCS	LED	21	0-10V DIMMING 1%
L3M	2X2 RECESSED LED BASKET TROFFER SET TO MEDIUM OUTPUT, 3000 LMNS, 35K COLOR	CURRENT LTG #CCL22-LSCS	LED	25	0-10V DIMMING 1%
L4A	8" LONG INTEGRATED TBAR FIXTURE, 35K COLOR, FINISH AND DIFFUSER TBD	JLC 2-#TBSL-MW-4-X-X-A-X	LED	64	
L5	3.5" WIDE RECESSED WALL SLOT, 625LMS/FT, 35K COLOR.	CORONET LIGHTING #PG4-X-35-MED-UNV-DB-W-X-1"	LED	8/FT	0-10V DIMMING 1%
L6	18" WIDE X 2.5" HIGH WALL SCONCE, BRUSHED NICKEL FINISH, 2100 LMS, 35K COLOR.	MODERN FORMS #WS-34119-35K-BN	LED	25	0-10V DIMMING 1%
L7L	4.5" DIAMETER RECESSED LED DOWNLIGHT, WIDE 90 DEGREE DISTRIBUTION, 1300 LMNS, 35K COLOR, WHITE CONE & FLANGE.	USAI LTG #B4RDF-12G1-35KS-90-S-WH-WH-NCSM-UNV-D6E	LED	12	0-10V DIMMING 1%
L7M	4.5" DIAMETER RECESSED LED DOWNLIGHT, WIDE 90 DEGREE DISTRIBUTION, 1800 LMNS, 35K COLOR, WHITE CONE & FLANGE.	USAI LTG #B4RDF-16G1-35KS-90-S-WH-WH-NCSM-UNV-D6E	LED	16	0-10V DIMMING 1%
L7H	4.5" DIAMETER RECESSED LED DOWNLIGHT, WIDE 90 DEGREE DISTRIBUTION, 2650 LMNS, 35K COLOR, WHITE CONE & FLANGE.	USAI LTG #B4RDF-24G1-35KS-90-S-WH-WH-NCSM-UNV-D6E	LED	24	0-10V DIMMING 1%
L8	4.5" SQUARE RECESSED LED DOWNLIGHT FOR WOOD CEILING, WIDE 90 DEGREE DISTRIBUTION, 2400 LMNS, 35K COLOR, FINISH TBD	USAI LTG #B4SDM-24C3-35KS-90-S-X-X-X-UNV-D6E	LED	24	0-10V DIMMING 1%

NOTES

MULTIPURPOSE LINEAR FIXTURE (L2) WILL BE VACANCY CONTROLLED. PENDANT FIXTURE (L1) WHEN UNOCCUPIED, THEY WILL REDUCE TO 40% LIGHT OUTPUT AND HAVE A TIME CLOCK OVER RIDE TO CONTROL OPERATING TIMES. THE OCC SENSOR WILL OVER RIDE THE TIME CLOCK.



1 SECOND FLOOR LIGHTING  
1/8" = 1'-0"



2 FIRST FLOOR LIGHTING  
1/8" = 1'-0"

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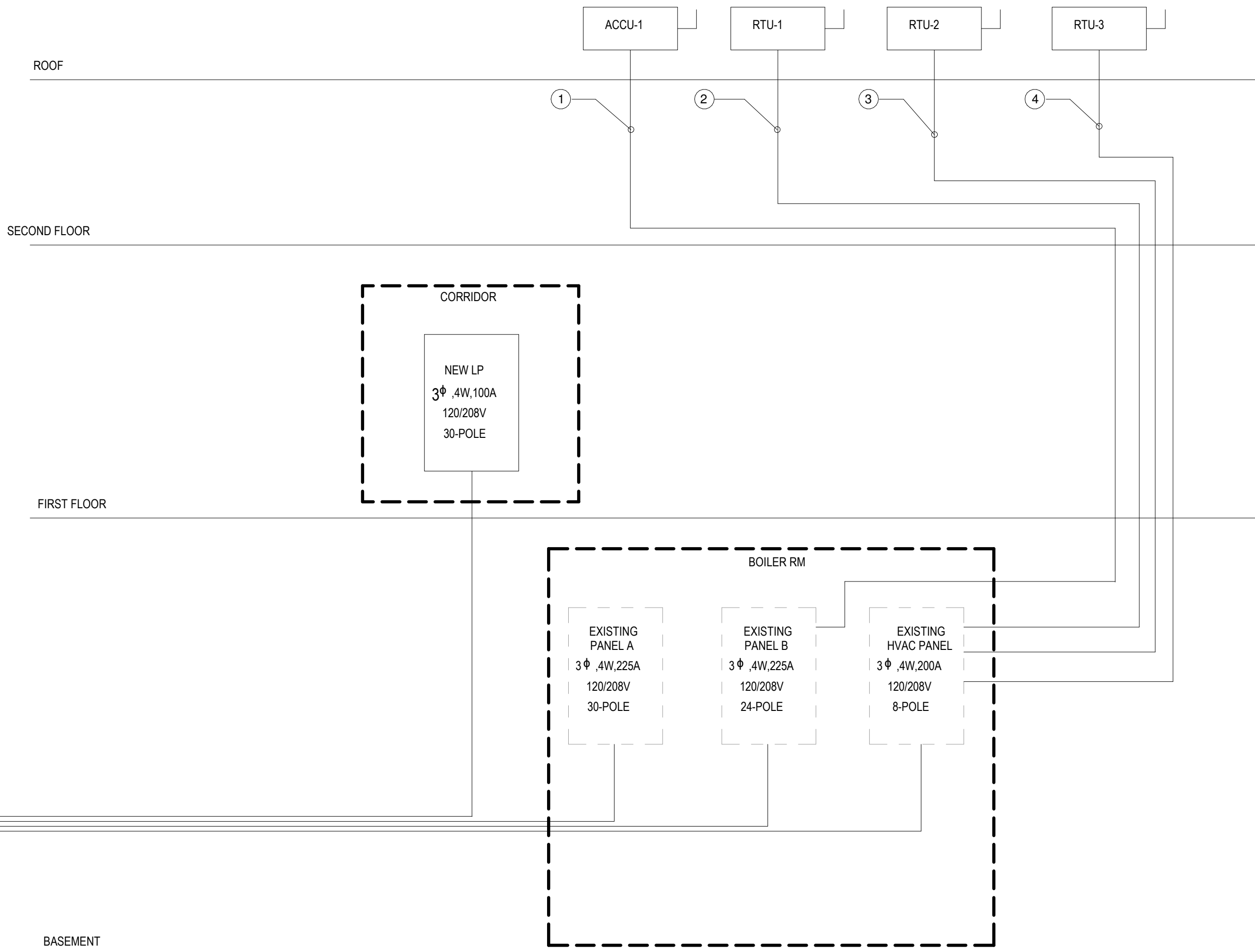
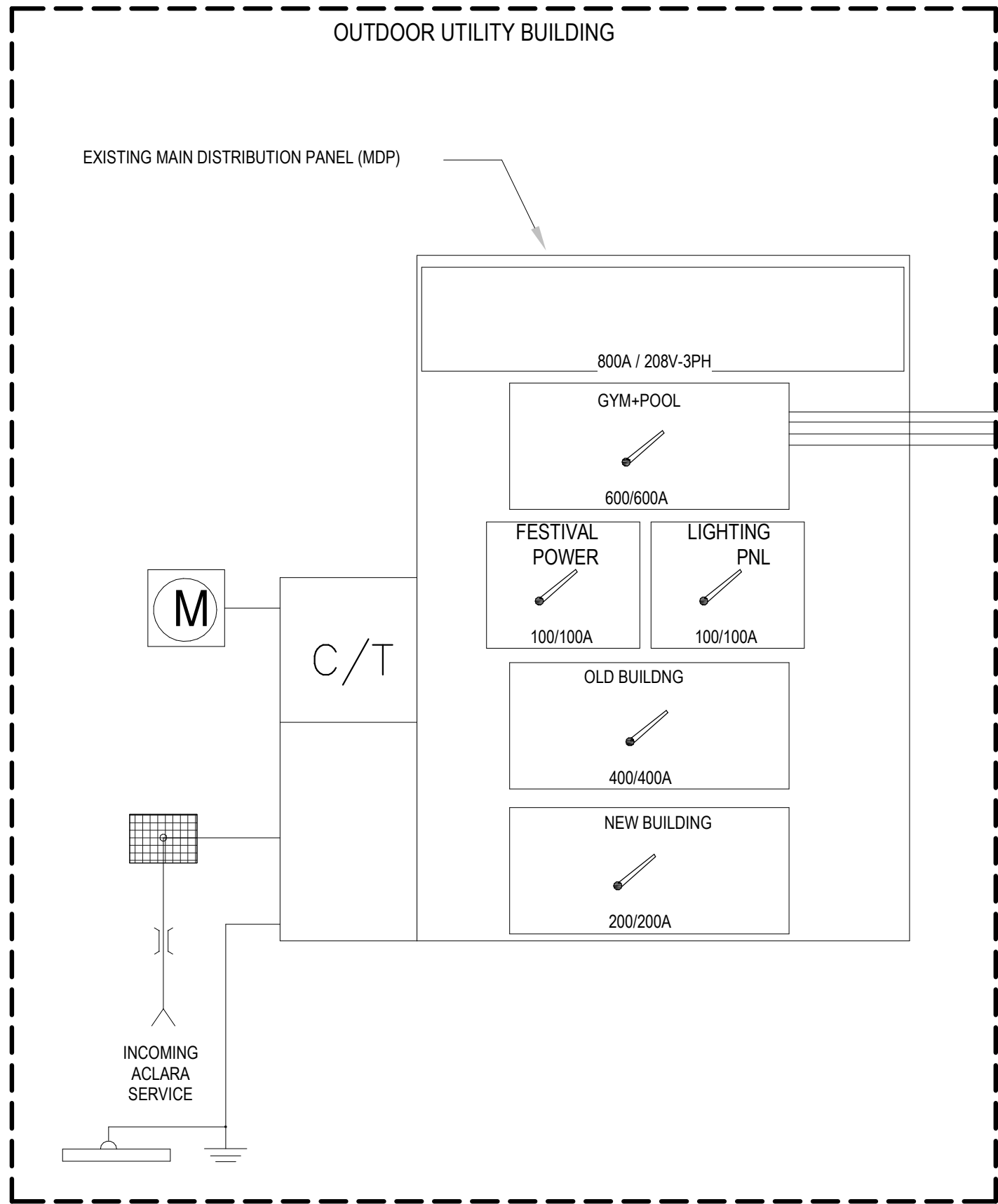
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ELECTRICAL RISER DIAGRAM  
NTS

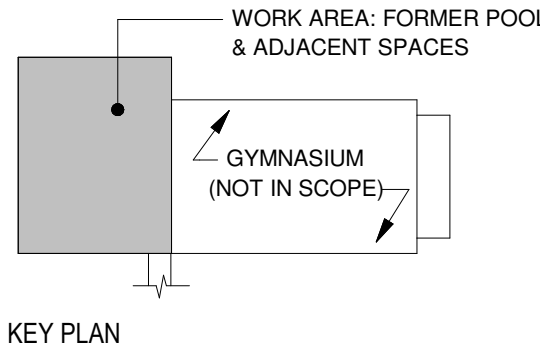
FEEDER SCHEDULE	
①	2#10-(1)#8G IN 3/4"C
②	4#1-(1)#8G IN 2"C
③	4#8-(1)#8G IN 1 1/4"C
④	4#6-(1)#8G IN 1 1/4"C

**NOTE**

ALL CONDUCTOR SIZES ARE BASED ON 60 DEG C RATED TERMINATIONS. COPPER CONDUCTORS ARE BASED ON THHN/THWN-2 INSULATION. FOR ANY OTHER CONDITIONS ALLOWED PER SPECIFICATIONS, OR FOR TERMINATIONS OR INSULATION TYPES RATED LESS THAN 75 DEG C, MODIFY SIZES ACCORDING TO NFPA 70.

**RISER DIAGRAM GENERAL NOTES:**

- PROVIDE A PERMANENT LABEL TO FRONT OF EQUIPMENT ENCLOSURE. REFER TO SPECIFICATIONS FOR LABEL REQUIREMENTS. LABEL SHALL READ AS FOLLOWS (INCLUDE RESPECTIVE NAMES IN BLANKS): SERVICE EQUIPMENT LABEL: LINE 1: NOMINAL VOLTAGE AND FREQUENCY IN HERTZ LINE 2: SERVICE EQUIPMENT BUS RATING IN AMPS LINE 3: SCCR OF SERVICE EQUIPMENT IN AMPS LINE 4: MAXIMUM AVAILABLE FAULT CURRENT IN AMPS LINE 5: DATE CALCULATED. **EXAMPLE:** - 208Y/120V, 60HZ 800A SCCR = 65,000A MAX AVAILABLE FAULT CURRENT = 58,815A PANELBOARD/SWITCHBOARD LABEL: LINE 1: PANELBOARD " " SUPPLIED BY UPSTREAM LINE 2: PANELBOARD/SWITCHBOARD " " LINE 3: LOCATED IN " " LINE 4: PANELBOARD " " SUPPLIES DOWNSTREAM LINE 5: PANELBOARD(S) " "
- ROOM NAMES/NUMBERS SHOWN IN PANELBOARD SCHEDULES ARE PER ARCHITECTURAL FLOOR PLANS. CONTRACTOR SHALL PROVIDE FINALIZED PANEL BOARD SCHEDULES AT THE COMPLETION OF THE PROJECT MATCHING ACTUAL INSTALLED ROOM NUMBERS AND NAMES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- PROVIDE TYPED FINAL CIRCUIT DIRECTORY FOR ALL PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS. CIRCUIT DESCRIPTIONS SHALL BE PER CODE AND SHALL BE DISTINGUISHABLE FROM ALL



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DIAGRAM

Drawing Number:

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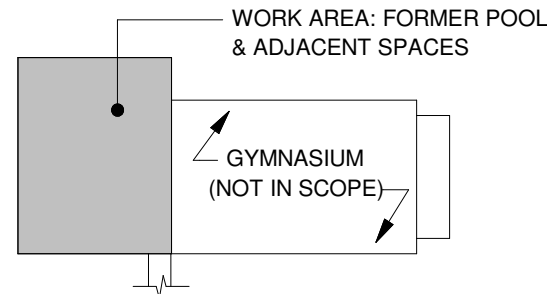
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Drawing Title:

ELECTRICAL SCHEDULES

Drawing Number:

E4.0

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NEW ELECTRICAL PANEL: LP										VOLTS: 120/208 PHASE: 3 AMPS: 200									
Branch Circuit			Conductor		Conduit		W	FED FROM MDP MLO: 200A			Branch Circuit			Conductor		Conduit		W	
Circuit Breaker	Load Designation							Circuit Breaker	Load Designation										
Pole #	Trip AMP		No.	AWG MCM	No.	Size		A	B	C	Pole #	Trip AMP		No.	AWG MCM	No.	Size		
1	20	RECEPTACLES	2	#12	1	3/4"	1800				2	20	LIGHTING	2	#12	1	3/4"	914	
3	20	RECEPTACLES	2	#12	1	3/4"	1440				4	20	LIGHTING	2	#12	1	3/4"	610	
5	20	RECEPTACLES	2	#12	1	3/4"	1800				6	20	LIGHTING	2	#12	1	3/4"	672	
7	20	RECEPTACLES	2	#12	1	3/4"	1440				8	20	LIGHTING	2	#12	1	3/4"	1170	
9	30	WUH-1	2	#10	1	3/4"	4500				10	20	LIGHTING	2	#12	1	3/4"	1170	
11	30	WUH-2	2	#10	1	3/4"	4500				12	20	LIGHTING	2	#12	1	3/4"	912	
13	20	AC-1	2	#12	1	3/4"	475				14	20	LIGHTING	2	#12	1	3/4"	650	
15	20	RECEPTACLES					1800				16	20	LIGHTING	2	#12	1	3/4"	717	
17	20	RECEPTACLES					1800				18	20	LIGHTING	2	#12	1	3/4"	231	
19	20	RECEPTACLES					1800				20	15	ELEVATOR LIGHTING & RECEPT.	2	#12	1	3/4"	3300	
21	20	RECEPTACLES					1080				22	1P	ELEVATOR						
23	20	SPACE									24	60			3	#6	1	1 1/4"	13800
25	20	RECEPTACLES					540				26	20	SPACE						
27	20	SPACE									28	20	SPACE						
29	20	SPACE									30	20	SPACE						
31	20	SPARE									32	20	SPARE						
33	20	SPARE									34	20	SPARE						
35	20	SPARE									36	20	SPARE						
37	20	SPARE									38	20	SPACE						
39	20	SPACE									40	20	SPACE						
41	20	SPACE									42	20	SPACE						

1. WHERE EQUIPMENT GROUNDS ARE INDICATED, THEY SHALL BE RUN FROM THE EQUIPMENT DISCONNECT SWITCH OR CIRCUIT BREAKER THROUGH THE FLEXIBLE CONNECTION TO THE EQUIPMENT SERVED. BOND THE GROUND WIRE TO THE PROTECTIVE DEVICE ENCLOSURE AND TO THE EQUIPMENT.

TOTAL LOAD: 47KW = 130AMPS

Equipment Loads					
Item	Name	Quantity	Voltage	Load (amps)	Load (watts)
elev.	elevator	1	230/1	60	13,800
p1	sump pump	1	208/1	10	740
p2	booster pump	1	208/1	15	2,237
wh1	water heater	1	208/3	42	15,000
EF-1	exhaust fan	1	208/1	4	832
EF-2	exhaust fan	1	208/1	2	396
WUH	Unit heater	1	208/1	30	4,500
WUH	Unit heater	1	208/1	30	4,500
ST					42,005
Lighting Load					
Load	Watts / sqft.		Square Feet		Load (watts)
NEC Lighting Load	ST	3	x	10,836	32,508
Receptacle Load					
Load	Watts / Rec.		# of Recepts		Load (watts)
NEC Receptacle Load	ST	180	x	100	18,000
				1st 10 KVA	10,000
				50% Remainder	4,000
				ST	14,000
Mechanical Loads					
Item	Name	Quantity	Voltage	Load (amps)	Load (watts)
RTU1		1	208/3	100	32,004
RTU2		1	208/3	40	10,440
RTU3		1	208/3	40	15,840
ACCU		1	208/1	50	3,910
ac-1		1	208/1	2.2	475
ST					62,669
TOTAL			208/3	420	151,182

EXISTING ELECTRICAL PANEL: C										VOLTS: 120/208 PHASE: 3 AMPS: 225									
Branch Circuit			Conductor		Conduit		W	FED FROM MDP			Branch Circuit			Conductor		Conduit		W	
Circuit Breaker	Load Designation							MLO: 200A			Circuit Breaker		Load Designation						
Pole #			Trip AMP	A	B	C		Pole #	Trip AMP										
1	3P 100	RTU 1	4	#1	1	2"C	32004		2	3P	RTU-2	4	#8	1	1 1/4"C	10440			
3																	4	40	
5																			
7	20	RECEPTACLES	2	#12	1	3/4"C	540		8	20	SPARE								

1. WHERE EQUIPMENT GROUNDS ARE INDICATED, THEY SHALL BE RUN FROM THE EQUIPMENT DISCONNECT SWITCH OR CIRCUIT BREAKER THROUGH THE FLEXIBLE CONNECTION TO THE EQUIPMENT SERVED. BOND THE GROUND WIRE TO THE PROTECTIVE DEVICE ENCLOSURE AND TO THE EQUIPMENT.  
2. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKER AS INDICATED IN ELECTRICAL PANEL SKETCH  
3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL BRANCH WIRING FOR NEW CIRCUITS AS REQUIRED  
4. NEW BREAKERS SHALL MATCH BRAND AND AIC RATING OF THE EXISTING PANELBOARD

TOTAL LOAD: 42 KW = 116 AMPS

EXISTING ELECTRICAL PANEL: B										VOLTS: 120/208 PHASE: 3 AMPS: 225										
Branch Circuit			Conductor		Conduit		W	FED FROM MDP MLO: 200A			Branch Circuit			Conductor		Conduit		W		
Circuit Breaker	Load Designation	Pole #	Trip AMP	No.	AWG MCM	No.		Size	A	B	C	Circuit Breaker	Load Designation	Pole #	Trip AMP	No.	AWG MCM		No.	Size
1	20	EXISTING										2	20	SPARE						
3	20	EXISTING										4	20	SPARE						
5	20	SPARE										6	20	SPARE						
7	20	EXISTING										8	20	SPARE						
9	20	EXISTING										10	20	SPARE						
11	20	SPARE										12	3P	WATER HEATER						
13	20											14	60			4	#6	1	1 1/4" C	15000
15	20	SPARE										16	25		ACCU-1	2	#10	1	3/4" C	3910
17	20	EF-1	2	#12	1	3/4" C	832					18	3P	RTU-3						
19	20	EF-2	2	#12	1	3/4" C	396					20	50							
21	20	SUMP PUMP	2	#12	1	3/4" C	746					22				4	#6	1	1 1/4" C	15840
23	20	BOOSTER PUMP	2	#12	1	3/4" C	2236					24								

1. WHERE EQUIPMENT GROUNDS ARE INDICATED, THEY SHALL BE RUN FROM THE EQUIPMENT DISCONNECT SWITCH OR CIRCUIT BREAKER THROUGH THE FLEXIBLE CONNECTION TO THE EQUIPMENT SERVED. BOND THE GROUND WIRE TO THE PROTECTIVE DEVICE ENCLOSURE AND TO THE EQUIPMENT.  
2. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKER AS INDICATED IN ELECTRICAL PANEL SKETCH  
3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL BRANCH WIRING FOR NEW CIRCUITS AS REQUIRED  
4. NEW BREAKERS SHALL MATCH BRAND AND AIC RATING OF THE EXISTING PANELBOARD

TOTAL LOAD: 39KW = 108AMPS



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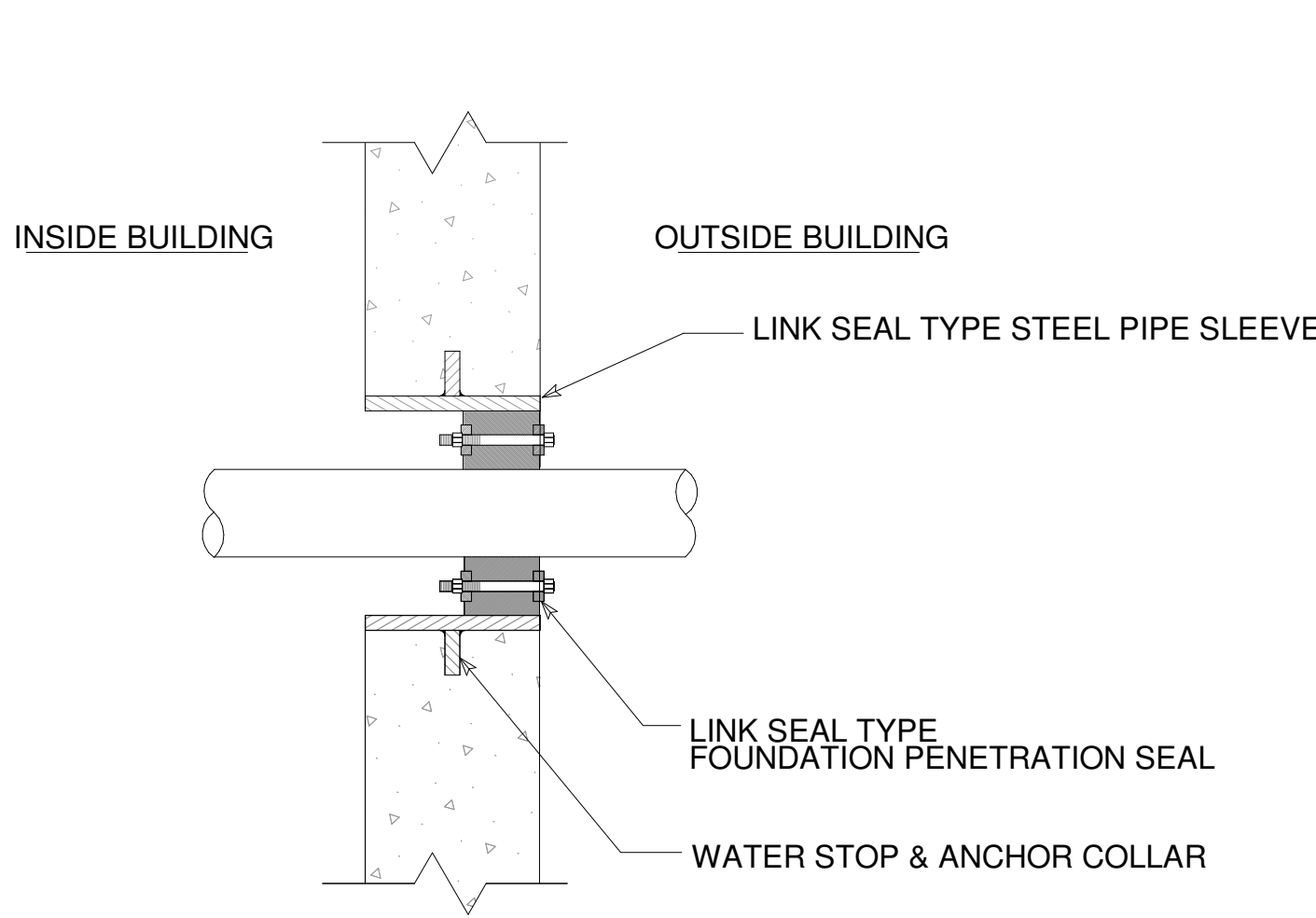
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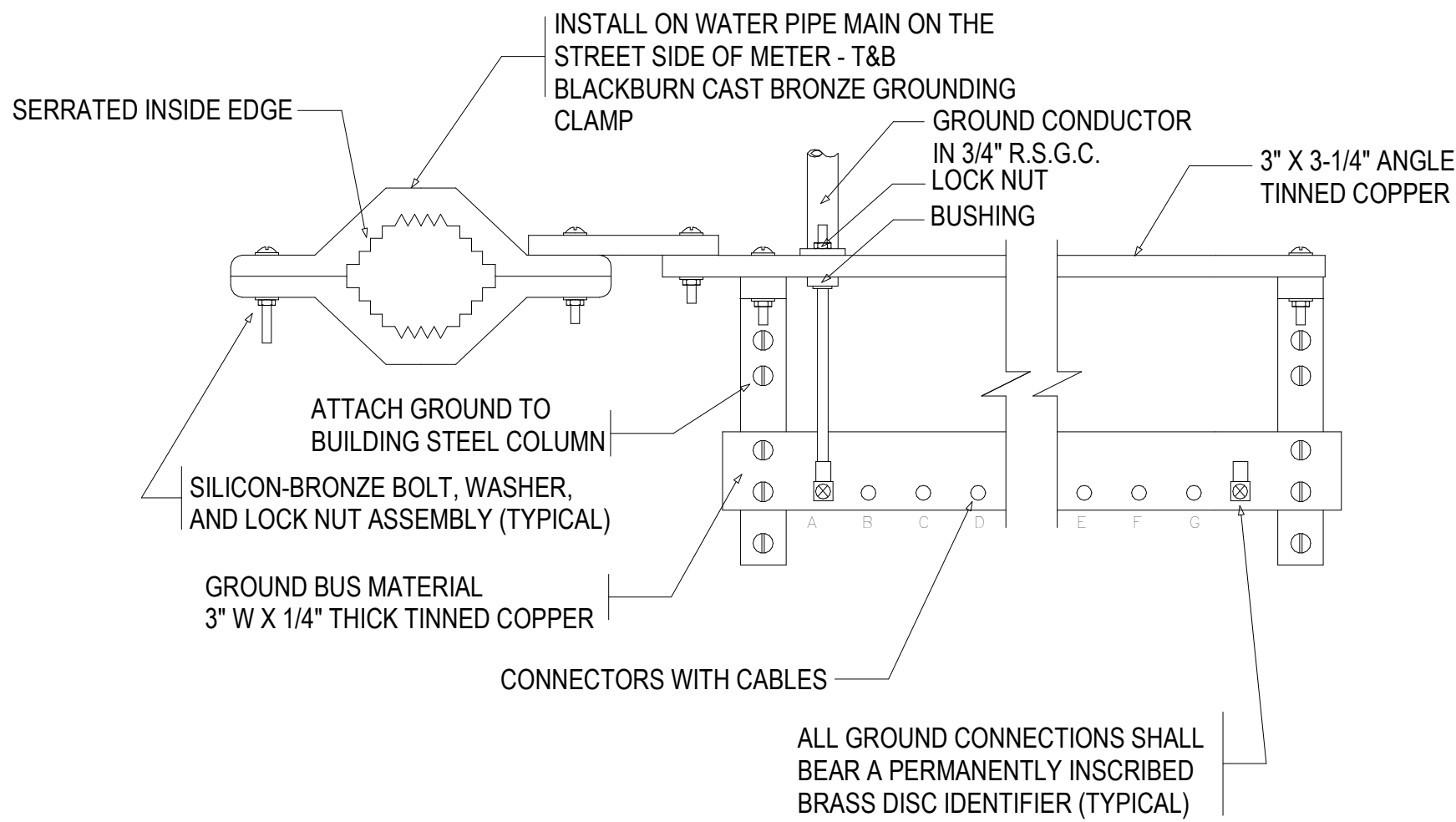
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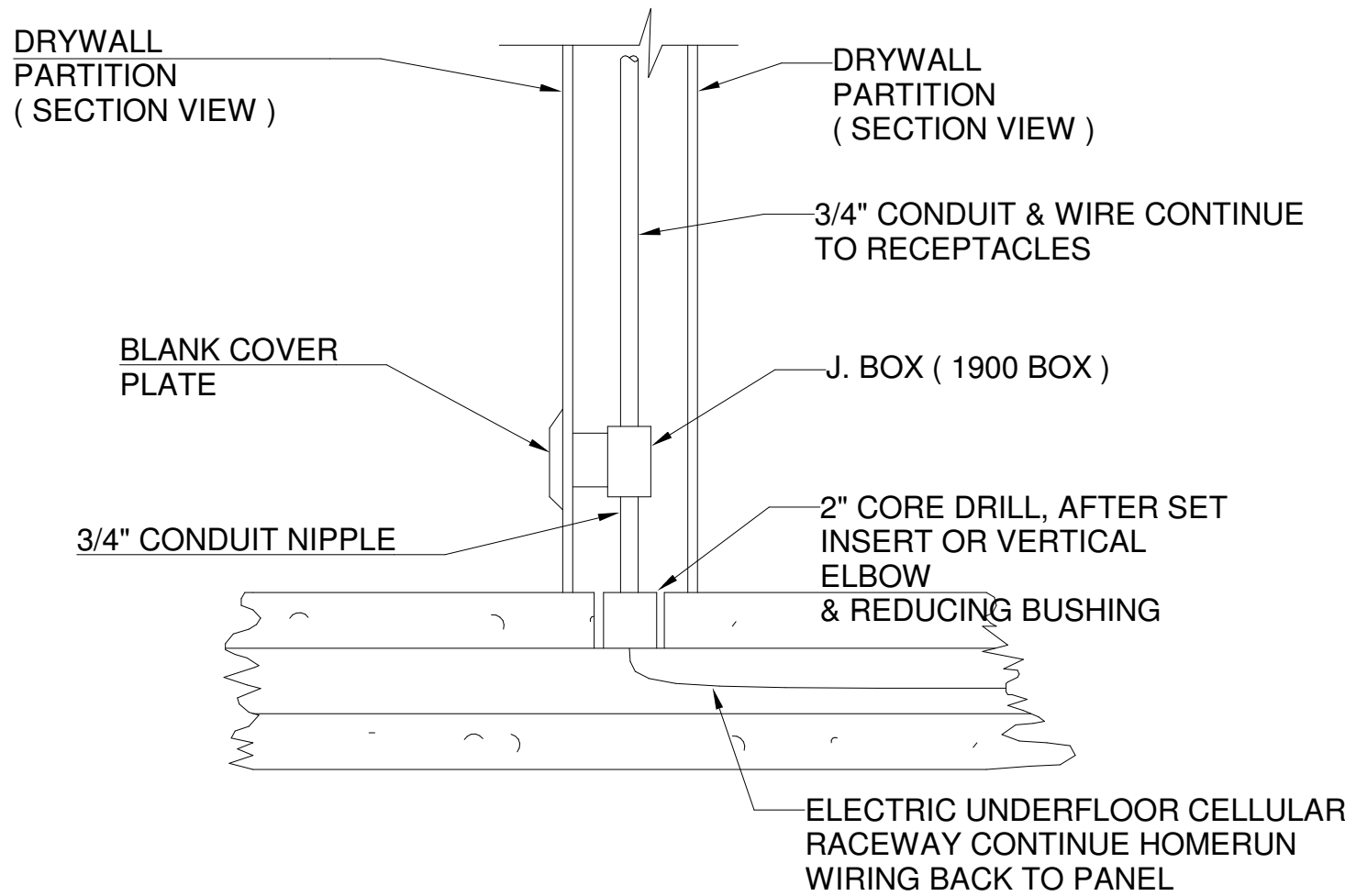
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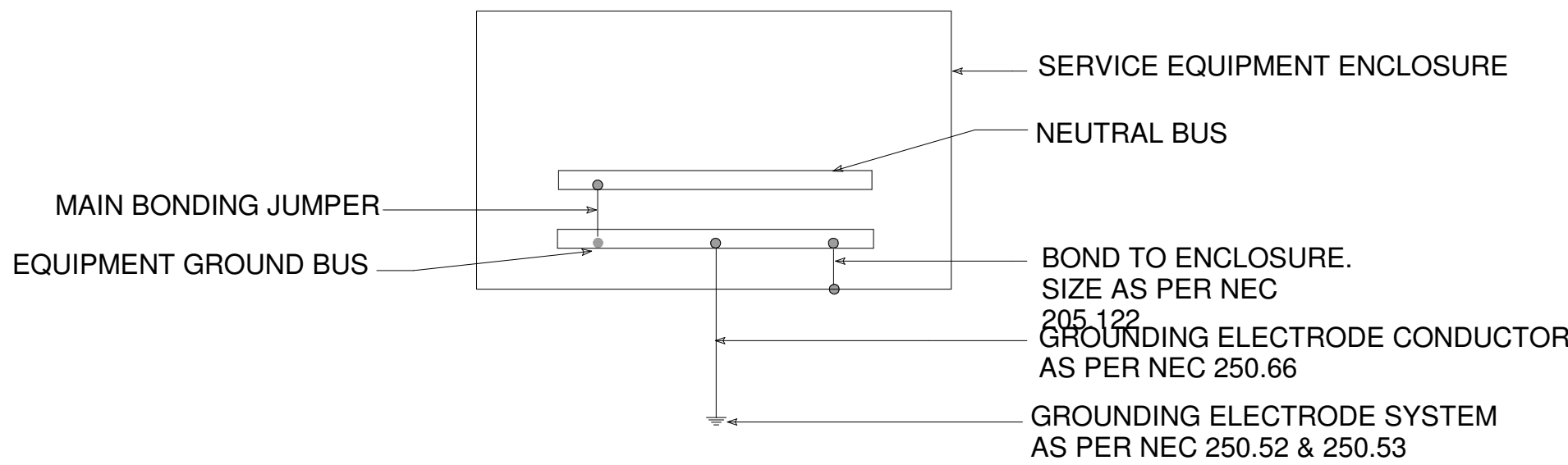
① CONDUIT PENETRATION FOUNDATION WALL  
1/8" = 1'-0"



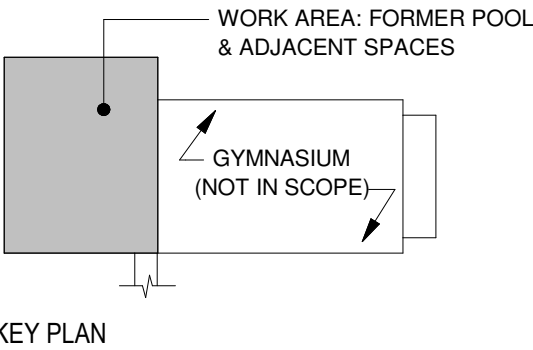
② GROUNDING WATER PIPE GROUND CONNECTIONS AND GROUND BUS  
1/8" = 1'-0"



③ CONNECTION TO FLOOR CELL TO HOMERUN  
1/8" = 1'-0"



④ GROUNDING SYSTEM WITH GROUND BUS AND NEUTRAL BUS  
1/8" = 1'-0"



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PLUMBING GENERAL NOTES - "A"

- THE WORK INDICATED ON THESE DRAWINGS ARE DRAWN DIAGRAMMATIC AND ARE INTENDED TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR MAY MAKE CHANGES WHEN APPROVED IN WRITING BY THE ARCHITECT/ENGINEER WITH NO ADDITIONAL COST.
- THE CONTRACTOR SHALL PROVIDE NEW PLUMBING FIXTURES, PIPING, INSULATION, VALVES AN APPURTENANCES AS SHOWN ON THE DRAWINGS AND AS REQUIRED FOR A COMPLETE SYSTEM.
- DURING CONSTRUCTION ALL OPEN ENDS OF PIPING SHALL BE PLUGGED AND CAPPED WITH PLASTIC OR METAL CAPS TO KEEP DIRT OUT OF THE SYSTEM.
- NO DEAD ENDS SHALL BE LEFT ON ANY DRAINAGE PIPING UPON COMPLETION OF WORK.
- UPON COMPLETION OF WORK THE ENTIRE SYSTEM SHALL BE LEFT IN PERFECT WORKING ORDER.
- SUBMIT SHOP DRAWINGS SUFFICIENTLY IN ADVANCE OF THE WORK TO ALLOW PROPER TIME FO REVIEW. MATERIALS SHALL NOT BE FABRICATED OR DELIVERED TO THE SITE BEFORE THE SHOP DRAWINGS HAVE BEEN APPROVED.
- NEW SHUT-OFF VALVES SHALL BE PROVIDED AS REQUIRED TO ISOLATE DIFFERENT AREAS OF THE PLUMBING SYSTEM.
- VENT PIPE SHALL BE GRADED TO DRAIN OUT ALL MOISTURE AND PREVENT SCALE ACCUMULATION.
- ALL VALVES AND SPECIALTIES SHALL BE SO PLACED AS TO PERMIT EASY OPERATION AND ACCESS.
- PROVIDE CAULKING BETWEEN WATER CLOSETS AND FINISHED FLOOR AS REQUIRED.
- FINAL INSPECTION AND TEST OF COMPLETED SYSTEM SHALL BE MADE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL INSULATE ALL HOT AND COLD DOMESTIC WATER PIPING LOCATED ABOVE CEILINGS AND IN WALLS AFTER TESTING THE SYSTEM.
- BEFORE BEING PLACED IN SERVICE ALL POTABLE WATER PIPING SHALL BE CLEANED, FLUSHED AND DISINFECTED.
- UPON COMPLETION OF WORK ALL EXCESS MATERIAL, DEBRIS, ETC, SHALL BE REMOVED AND WORK AREA LEFT CLEAN TO THE OWNER'S SATISFACTORY.
- INSTALL ARROWS ON PIPING IN ACCESSIBLE AREAS TO INDICATE DIRECTION OF FLOW.
- ALL CONSTRUCTION MATERIALS DISTURBED BY THIS CONTRACTOR SHALL BE REPLACED WITH NEW MATERIAL TO MATCH EXISTING.
- WHEN THE NEW EQUIPMENT IS INSTALLED BY OTHERS, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL NEW APPROPRIATE ROUGHING AND MAKING FINAL CONNECTIONS SUCH AS COLD AND HOT WATER, VENTS, GAS, ETC.
- TESTING OF COMPLETE SYSTEM SHALL BE MADE IN THE PRESENCE OF OWNER'S REPRESENTATIVE AND THE AUTHORITIES HAVING JURISDICTION, AS REQUIRED BY LOCAL CODE.
- IF INSPECTION OR TEST SHOW DEFECTS, SUCH DEFECTIVE WORK OR MATERIAL SHALL BE REPLACED AND INSPECTION AND TEST SHALL BE REPORTED. REPAIR TO PIPING SHALL BE MADE WITH NEW MATERIAL.
- STANDARD FOR EQUIPMENT MANUFACTURER, MODEL AND CAPACITY OF EQUIPMENT OR FIXTURES ARE LISTED ON THE DRAWINGS OR IN SPECIFICATION. ANY OTHER MANUFACTURER OR MODELS ARE CONSIDERED TO BE SUBSTITUTIONS.
- SUBSTITUTIONS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER. IF A SUBSTITUTION IS SUBMITTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE IT AND CERTIFY THAT THE SUBSTITUTION IS EQUIVALENT IN ALL RESPECTS TO THE BASE SPECIFICATIONS.
- IF SUBSTITUTION ARE APPROVED, NOTIFY ALL OTHER CONTRACTORS OR TRADES AFFECTED BY THE SUBSTITUTION AND FULLY COORDINATE. ANY COST RESULTING FROM SUBSTITUTION AND WHETHER BY CONTRACTOR OR OTHERS, SHALL BE THE RESPONSIBILITY OF AND PAID FOR BY SUBSTITUTION CONTRACTORS.
- FIRE STOP ALL PENETRATIONS OF FIRE RATED CONSTRUCTION IN A CODE APPROVED MANNER IN ORDER TO MAINTAIN FIRE RATING. PROVIDE UL LISTED FIRE STOPPING.
- FULLY WARRANTY ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE.
- REPAIR OR REPLACE WITHOUT CHARGE TO THE OWNER ALL ITEMS FOUND DEFECTIVE DURING THE WARRANTY PERIOD.
- PIPING INSTALLED UNDER SLAB SHALL BE CAREFULLY LAID OR PLACED ON WELL PREPARED, TAMPED SOIL BED OF FINE CRUSHED STONE OR SAND TO FIT THE PIPE CONTOUR, WITH ALL VOID UNDER PIPE FILLED AND THOROUGHLY TAMPED PROVIDING FULL BARREL LENGTH SUPPORT.
- ALL WATER LINES SHALL BE PITCHED TO LOW POINTS FOR DRAINAGE. PITCH ALL SOIL AND WASTE PIPING AS FOLLOWS:
  - 2" SANITARY PIPING AND SMALLER, 1/4" PER FOOT MINIMUM.
  - 3" SANITARY PIPING AND LARGER, 1/8" PER FOOT MINIMUM.
- ACCESS DOORS SHALL BE PROVIDED, AS MINIMUM FOR:
  - CONCEALED VALVES.
  - CONCEALED SHOCK ABSORBERS.
  - CONCEALED AIR-POP CONNECTIONS.
  - CONCEALED TRAP PRIMER UNITS.
- ACCESS DOOR SHALL BE FURNISHED BY THIS CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.
- CONTRACTOR SHALL SIZE ACCESS DOOR TO PERMIT REMOVAL AND SERVICING OF ALL EQUIPMENT, BUT IN ANY CASE, SHALL NOT BE LESS THAN 12"X16".
- NOTES ON ANY DRAWING SHALL ALSO APPLY TO ALL OTHER CONTRACT DRAWINGS UNLESS OTHERWISE SPECIFIED.
- ALL BRACKETS, PLATES, CHANNELS, ETC, SHALL BE GALVANIZED UNLESS OTHERWISE SPECIFIED.
- ALL SURFACES DAMAGED IN THE COURSE OF THE WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND IN A FULLY OPERABLE MANNER.
- COORDINATE AND SCHEDULE ALL WORK TO MEET THE OVERALL DESIGN OBJECTIVE.
- FOR ALL PIPES AND CONDUITS PASSING THROUGH WALL OR FLOORS, PROVIDE PIPE SLEEVES.
- PROVIDE DRAIN VALVES AT ALL LOW POINTS.
- CHANGES IN DIRECTION IN DRAINAGE PIPING SHALL BE MADE WITH APPROPRIATE USE OF 45 DEGREE WYES, LONG SWEEPS, QUARTER, SIXTH, EIGHTH, OR SIXTEENTH BENDS.
- PROVIDE CLEANOUTS ON DRAIN LINES AS SHOWN ON DRAWINGS AND AS REQUIRED BY CODE.
- CORE DRILLING FOR PENETRATION THROUGH FOUNDATION WALLS SHALL BE DONE BY PLUMBING CONTRACTOR.
- CONTRACTOR SHALL NOT FASTEN ANY EQUIPMENT AND MATERIAL FROM ROOF DECKING. CONTRACTOR SHALL SUPPORT EQUIPMENT AND MATERIAL FROM BEAMS/JOISTS, IF NEED TO CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORT STEEL ON METAL TO ATTACH TO BEAMS.
- ALL PLUMBING EQUIPMENT SHALL BE INSTALLED AND ADJUSTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION UNLESS OTHERWISE SHOWN.
- ALL GALVANIZED PARTS SHALL BE PAINTED PER SPECIFICATIONS BY THE PLUMBING CONTRACTOR.
- ALL HOT AND COLD WATER PIPES 1.5" IN DIAMETER AND SMALLER SHALL HAVE A MINIMUM OF 1.5" INSULATION. PIPES LARGER THAN 1.5" IN DIAMETER SHALL HAVE A MINIMUM OF 2" OF INSULATION. EXCEPTION: PROVIDE 1.5" INSULATION FOR ALL CIRCULATION WATER PIPES. SEE SPECIFICATION SECTION 220719 AND ENERGY CODE NOTES ON THIS DRAWING.

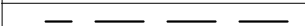

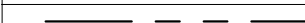







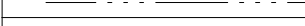
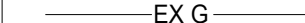






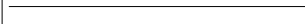





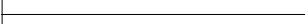







ENERGY CODE NOTES

- ALL PIPING IN CIRCULATING SYSTEM IS INSULATED. 1.5" FOR PIPES <= 1.5" AND 2" FOR PIPES > 1.5".
- OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO BUILDING OWNER
- AUTOMATIC CONTROLS FOR FREEZE PROTECTION SYSTEMS SHALL BE PRESENT.
- AUTOMATIC TIME SWITCHES SHALL BE INSTALLED TO AUTOMATICALLY SWITCH OFF THE RECIRCULATING HOT-WATER SYSTEM.
- PIPING FLUIDS ABOVE 105 DEGREES AND BELOW 55 DEGREES SHALL HAVE A MINIMUM OF R-3 INSULATION
- DOMESTIC WATER HEATER MEETS MINIMUM 95% EFFICIENCY REQUIREMENTS:
- ALL PIPING IN DOMESTIC HOT AND COLD WATER SYSTEM IS INSULATED. 1.5" FOR PIPES <= 1.5" AND 2" FOR PIPES > 1.5".

THIS PLAN IS APPROVED FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON TO BE CONSIDERED AS EITHER BEING APPROVED OR IN

PLUMBING GENERAL NOTES - "B"

- ALL EXPOSED PIPES SHALL BE ARRANGED TO PERMIT ACCESS FOR MAINTENANCE.
- ALL DRAIN AND VENT PIPES SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT.
- ALL COLD WATER PIPES OUTSIDE THE HEATED STRUCTURES LESS THAN 4'-6" BELOW GRADE OR SUBJECT TO FREEZING SHALL BE INSULATED AND HEAT TRACED. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER SUPPLY.
- COORDINATE WORK SHOWN ON THESE DRAWINGS WITH OTHER DRAWINGS.
- COORDINATE SLOPING OF FLOORS TO FLOOR DRAINS.
- THE CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK THE DRAWINGS OF THE OTHER TRADES TO VERIFY WHICH WORK WILL BE INSTALLED FIRST BEFORE PROCEEDING WITH INSTALLATION.
- THE CONTRACTOR SHALL REPAIR AT OWN EXPENSE ANY PIECE OF EQUIPMENT AND /OR MATERIAL WHICH IS FOUND TO BE DEFECTIVE. THE REPLACEMENT OR REPAIR SHALL BE DONE AS SOON AS NOTIFIED. THE CONTRACTOR SHALL ALSO REPAIR ALL DAMAGES TO SURROUNDING WORK CAUSED BY FAILURE OF REPAIR OR REPLACEMENT OF THE DEFECTED EQUIPMENT OR MATERIAL.
- MINIMUM PITCH FOR SANITARY WASTE AND STORM DRAINAGE LINES SHALL BE 1/8 INCH PER FOOT.
- RECORD DRAWINGS SHALL BE PREPARED BY CONTRACTOR AND SHALL INDICATE THE ACTUAL INSTALLED LOCATION OF ALL PIPING AND VALVES INCLUDING INVERT ELEVATION FOR UNDERSLAB PIPING.
- THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL GOVERNMENT SALES TAXES, FEES AND OTHER COST INCLUDING UTILITY CONNECTIONS COST.
- IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES THAT MAY BE REQUIRED. CONTRACTOR SHALL MAKE ALL NECESSARY OFFSETS, FITTINGS AND ACCESSORIES AS REQUIRED WITH NO ADDITIONAL COST TO THE OWNER.

ABBREVIATIONS & SYMBOLS LIST		
SYMBOL	ABBREVIATION	DESCRIPTION
	V	VENT PIPING
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
	SAN/W/S	SANITARY/WASTE/SOIL PIPING BELOW SLAB
	G	GAS PIPING
	EX CW	EXISTING COLD WATER PIPING
	EX HW	EXISTING HOT WATER PIPING
	EX HWR	EXISTING HOT WATER RETURN PIPING
	EX G	EXISTING GAS PIPING
	EX	EXISTING
		BALL VALVE
	CV	CHECK VALVE
	CO	CLEANOUT
	H&CW	HOT & COLD WATER
	WC	WATER CLOSET
	LAV	LAVATORY
	JC	JANITOR SINK
	DF	DRINKING FOUNTAIN
	BV	BALANCING VALVE WITH PRESSURE PORTS
	CODP	CLEANOUT DECK PLATE
	VTR	VENT THRU ROOF
	RTU	ROOF TOP UNIT (SEE MECHANICAL DWG.)
		POINT OF NEW CONNECTION TO EXISTING WORK
	FD	FLOOR DRAIN
	M	METER
	BFP	BACK FLOW PREVENTER
	BP	BOOSTER PUMP
	WH	WATER HEATER
	SR	SHOWER
		MULTI-HEAD SHOWER COLUMN
	IM	ICE MACHINE

PLUMBING DRAWING LIST	
P0.1	PLUMBING GENERAL NOTES
P0.2	PLUMBING SCHEDULES
PD1.0	PLUMBING DEMOLITION PLANS
P1.0	PLUMBING FLOOR PLANS
P1.1	PLUMBING ROOF PLAN
P2.0	PLUMBING RISERS
P3.0	PLUMBING DETAILS

PUMP SCHEDULE											
TAG	DESIGNATION	No. REQUIRED	GPM	TDP - FEET	MANUFACTURER	MODEL NO.	H.P.	R.P.M.	VOLTS	PHASE	LOCATION
SP-1	ELEVATOR SUMP PUMP	1	50	36	STANCOR	SE-100	1	3,400	208	1 60	ELEVATOR SUMP PIT
BP-1	BOOSTER PUMP	1	81	104	TACO	1915	3	3,500	208	1 60	BOILER ROOM
1. PUMP SHALL BE MAINTENANCE FREE/SELF LUBRICATED TYPE WITH BRONZE FITTED CONSTRUCTION. 2. COORDINATE ALL POWER REQUIREMENTS, CONTROLS & CONTROL WIRING OF OIL-MINDER WITH THE ELECTRICAL CONTRACTOR. 3. PROVIDE STANCOR SE-100 PUMPS PER PUMP SCHEDULE OR APPROVED EQUAL. 4. PROVIDE OIL-MINDER.											

ELECTRIC STORAGE WATER HEATER SCHEDULE

WATER HEATER NO.	LOCATION	MODEL	GALLON CAPACITY	KW INPUT	NUMBER OF ELEMENTS	ELEMENT WATTAGE	VOLTAGE	PHASE	HEIGHT (IN.)	DIA. (IN.)
WH-1	BOILER ROOM	AO SMITH DRE-80-15	80	15	3	5,000	208	3	60.25	25.5

PLUMBING FIXTURE CONNECTIONS SCHEDULE								
FIXTURE TYPE	DESCRIPTION			SERVICE CONNECTION				REMARKS
	FIXTURE	MANUFACTURER	MODEL & NUMBER	S OR W	V	CW	HW	
WC	WATER CLOSET	AMERICAN STANDARD	AFWALL FLOWISE 1.28 GPF FLUSHOMETER TOILET SYSTEM	4"	2"	1"	-	WALL MOUNTED, TOP SPUD.
SR	SHOWER	AMERICAN STANDARD	COLONY PRO WATERSAVING PRESSURE BALANCE BATH/ SHOWER TRIM WITH DOUBLE CERAMIC PRESSURE BALANCE CARTRIDGE	2"	2"	3/4"	3/4"	
LAV	LAVATORY	AMERICAN STANDARD	MEZZO #9960.803	2"	2"	1/2"	1/2"	PROVIDE OFFSET GRID STRAINER. ALL EXPOSED TRIM SHALL BE COVERED SIMILAR TO TRUEBRO PIPE COVERING. (PROVIDE SINGLE FAUCET HOLE & BELOW DECK THERMOSTATIC MIXING VALVE MIX-135A). (SET THE METER SETTING TO 12 SECONDS PER CYCLE RESULTING IN A WATER CONSUMPTION RATE OF 0.1 GPC)
	FAUCET	AMERICAN STANDARD	5600.174 CENTERSET LAVATORY,0.35 GPM FLOW					
	DRAIN	----	1 1/4" OFFSET GRID DRAIN					
	P-TRAP	MCGUIRE	1 1/4"x 1 1/2" CAST BRASS					
SK	CLASSROOM SINK	ELKAY	EWS3120	2"	2"	1/2"	1/2"	FLOOR MOUNTED.
	FAUCET	ELKAY	LK1001CR, 1.5 GPM					
	P-TRAP	MCGUIRE	1 1/2"x2" CAST BRASS					
DF	BOTTLE FILLING STATION WITH DRINKING FOUNTAIN	ELKAY	ERFPM28K	1-1/2"	1-1/2"	1-1/2"	-	

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Drawing Title:  
PLUMBING GENERAL NOTES

Drawing Number:

P0.1

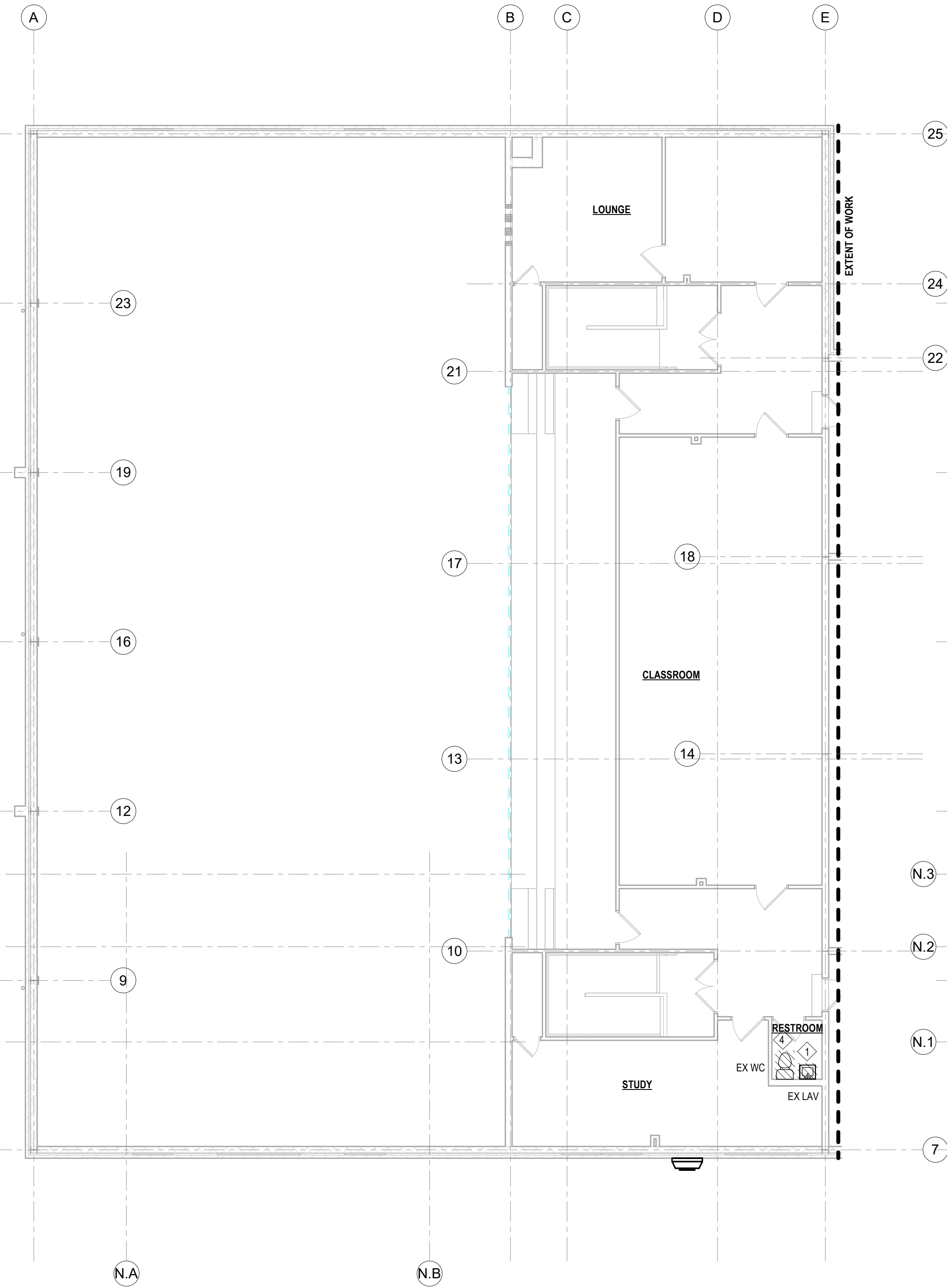
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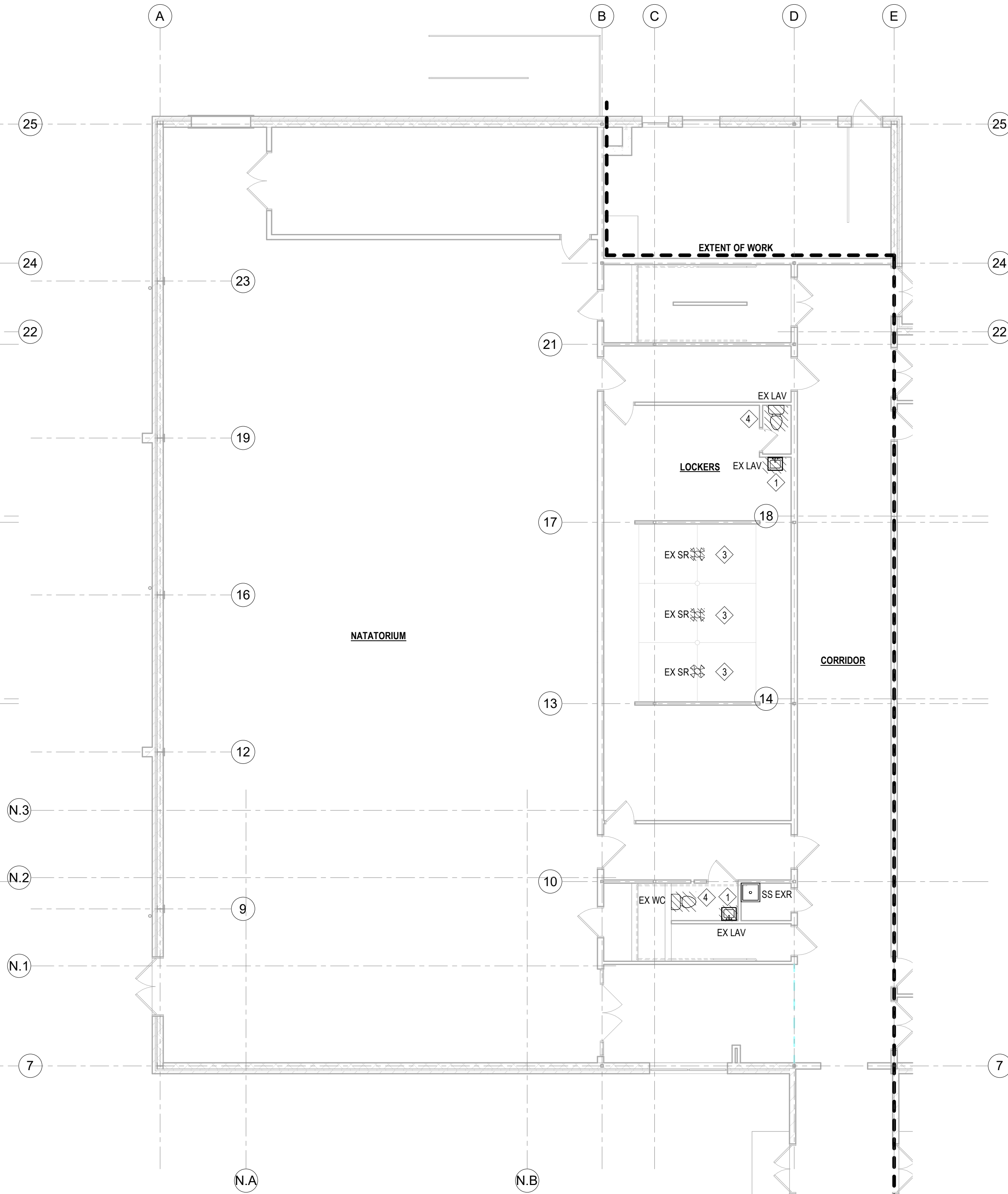
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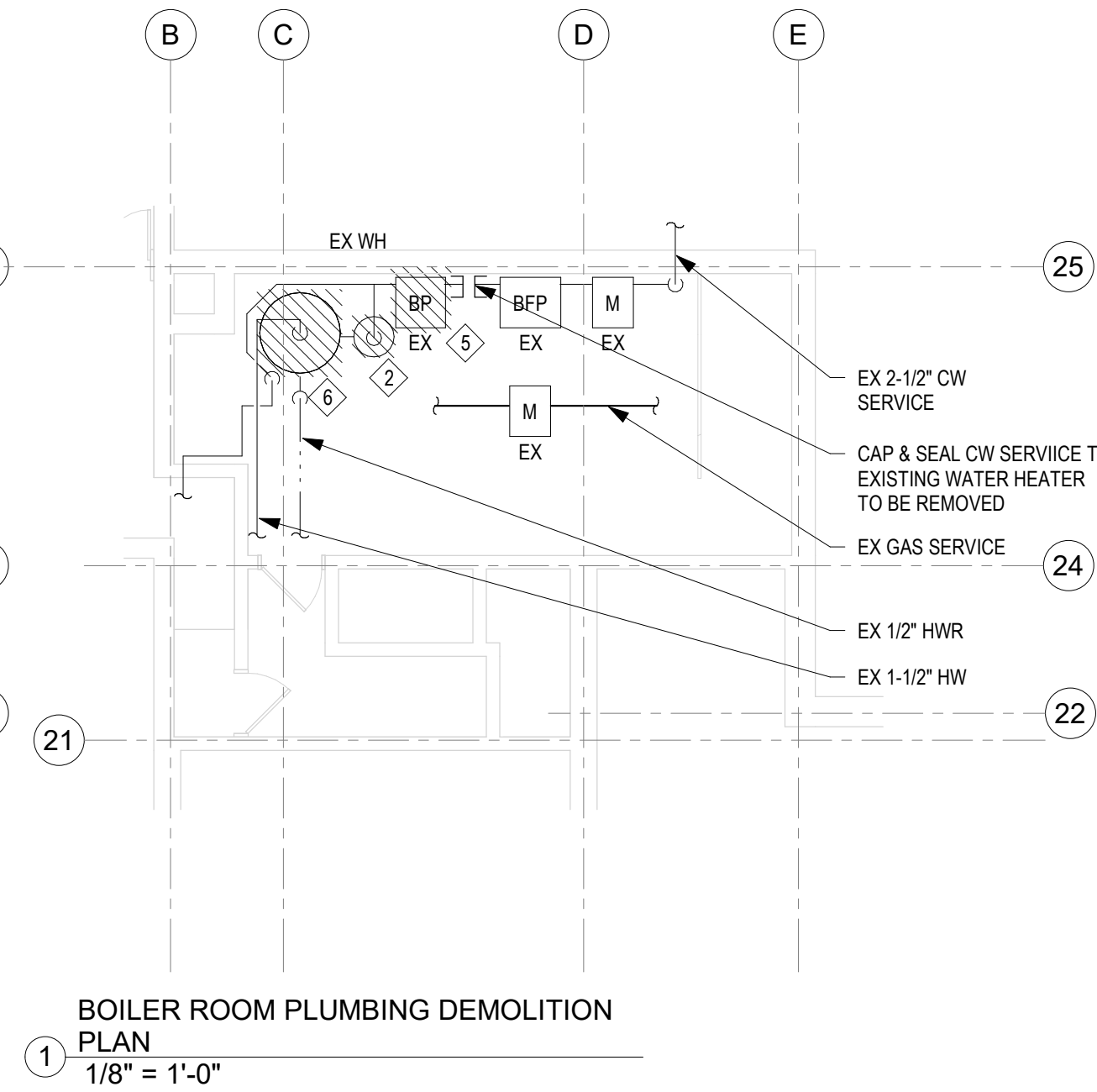


③ 2ND FLOOR DEMO PLUMBING PLAN  
1/8" = 1'-0"



② 1ST FLOOR DEMO PLUMBING PLAN  
1/8" = 1'-0"

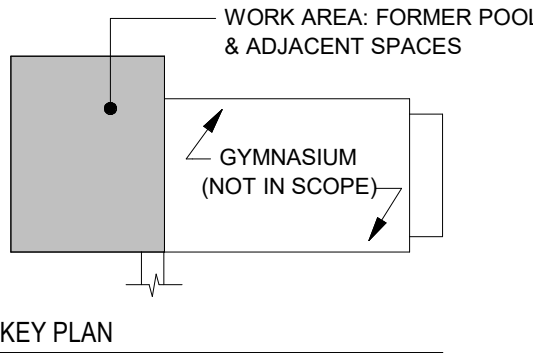
- LEGEND NOTES
1. REMOVE EXISTING SINK FIXTURE. CAP AND SEAL SANITARY LINE 2" BELOW SLAB. REMOVE HOT & COLD WATER SERVICES BACK TO MAIN.
  2. REMOVE EXISTING WATER HEATER.
  3. REMOVE EXISTING SHOWER COLUMN, INCLUDING HEADS AND DRAIN IN BASE. CAP AND SEAL SANITARY LINE 2" BELOW SLAB. REMOVE HOT & COLD WATER SERVICES BACK TO MAIN.
  4. REMOVE EXISTING WATER CLOSET FIXTURE. CAP AND SEAL SANITARY LINE 2" BELOW SLAB. REMOVE HOT & COLD WATER SERVICES BACK TO MAIN.
  5. REMOVE EXISTING BOOSTER PUMP.
  6. REMOVE EXISTING WATER STORAGE TANK.



BOILER ROOM PLUMBING DEMOLITION  
PLAN  
1/8" = 1'-0"

PLUMBING DEMOLITION NOTES:

1. EXISTING PLUMBING FIXTURES INDICATED TO BE REMOVED WITH RELATED TRIM, EQUIPMENT AND PIPING. CAP AND/OR PLUG ALL BRANCH PIPING FOR REUSE WHEN NEW PLUMBING FIXTURES ARE INSTALLED.
2. REMOVE PLUMBING FIXTURES TRIM, PIPING, ETC. AND DISCARD AS PER THE DIRECTION OF BUILDING MANAGEMENT. REMOVE SOIL, VENT AND WATER PIPING. CAP PIPING BACK TO ACTIVE MAIN, BRANCH OR RISER SOURCE.
3. THE SCOPE OF DEMOLITION WORK HAS BEEN INDICATED FOR THE CONTRACTOR'S GENERAL INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE FULL SCOPE, EXTENT, NATURE AND MANNER OF DEMOLITION REQUIRED.
4. ONLY WORKMEN SKILLED AND KNOWLEDGABLE IN THEIR RESPECTIVE TRADES SHALL BE EMPLOYED IN THE DEMOLITION.
5. CONTRACTORS SHALL TAKE SPECIAL CARE TO DEMOLISH ONLY THAT WORK WHICH IS REQUIRED TO BE DEMOLISHED AND NOT TO DISTURB ANY WORK WHICH IS TO REMAIN. IF IN THE COURSE OF THE DEMOLITION, THE CONTRACTOR DESTROYS OR DISTURBS ANY WORK WHICH IS TO REMAIN, THEN HE SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE SUCH WORK AS NECESSARY.
6. ANY COST OF PENETRATIONS IN EXISTING WORK REQUIRED TO ACCOMPLISH NEW WORK SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND SHALL BE DONE NEATLY AND WITHOUT DISTURBANCE OF ADJACENT WORK TO REMAIN.
7. ALL WORK TO BE DONE DURING THE HOURS DESIGNATED BY THE OWNER.
8. THE CONTRACTOR SHALL REMOVE AND DISCARD ALL DEMOLISHED ITEMS IN A MANNER APPROVED BY THE STATE OF NEW JERSEY AND ANY OTHER GOVERNMENT AGENCY.
9. DO NOT SCALE DRAWING.
10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS PRIOR TO SUBMITTING BIDS AND SHALL REPORT TO THE OWNER'S REPRESENTATIVE ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK. ALL BUILDING DEPARTMENT PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORK.
11. PLUMBING CONTRACTOR SHALL VISIT THE PREMISES PRIOR TO SUBMITTING ITS PROPOSAL AND EXAMINE THE EXISTING AREAS BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL EXTEND THE EXECUTION OF THIS WORK.
12. REMOVALS SHALL BE PERFORMED IN PHASES. COORDINATE WITH CONSTRUCTION MANAGER.
13. REMOVE UNUSED WASTE PIPING BELOW THE FLOOR SERVING THE FIXTURES TO BE REMOVED. PATCH FLOOR PENETRATION AS REQUIRED.
14. ALL PLUMBING FIXTURES WHICH ARE TO BE REMOVED MUST HAVE WATER SUPPLY SHUT OFF PRIOR TO DISCONNECTING AND REMOVING TO PREVENT FLOODING THE SPACE IF PIPES ARE DAMAGED DURING DEMOLITION.
15. ALL SERVICE SHUT DOWNS SHALL BE BY BUILDING ENGINEERS. MINIMUM OF 48 HOURS NOTICE IS REQUIRED TO THE BUILDING ENGINEER'S OFFICE PRIOR TO SHUT DOWN.
16. BE DONE AFTER REGULAR WORKING HOURS. COORDINATE WITH BUILDING MANAGEMENT. COST OF OVERTIME IS TO BE INCLUDED IN THE CONTRACTOR'S PROPOSAL.
17. CONTRACTOR SHALL REPAIR DAMAGED OR REMOVED FIREPROOFING RELATED TO THIS WORK.
18. ALL SERVICE SHUT DOWNS SHALL BE BY BASE-BUILDING ENGINEERS. MINIMUM OF 48 HOURS NOTICE IS REQUIRED TO THE BUILDING OFFICE PRIOR TO SHUT DOWN.
19. THE CONTRACTOR SHALL REMOVE ALL PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY.
20. ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
21. PORTIONS OF MAINS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED, AND RECONNECTED.
22. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
23. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE PLUMBING CONTRACTOR, AS DIRECTED BY THE OWNER.
24. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.



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Drawing Title:  
PLUMBING DEMOLITION  
PLANS

Drawing Number:

PD1.0

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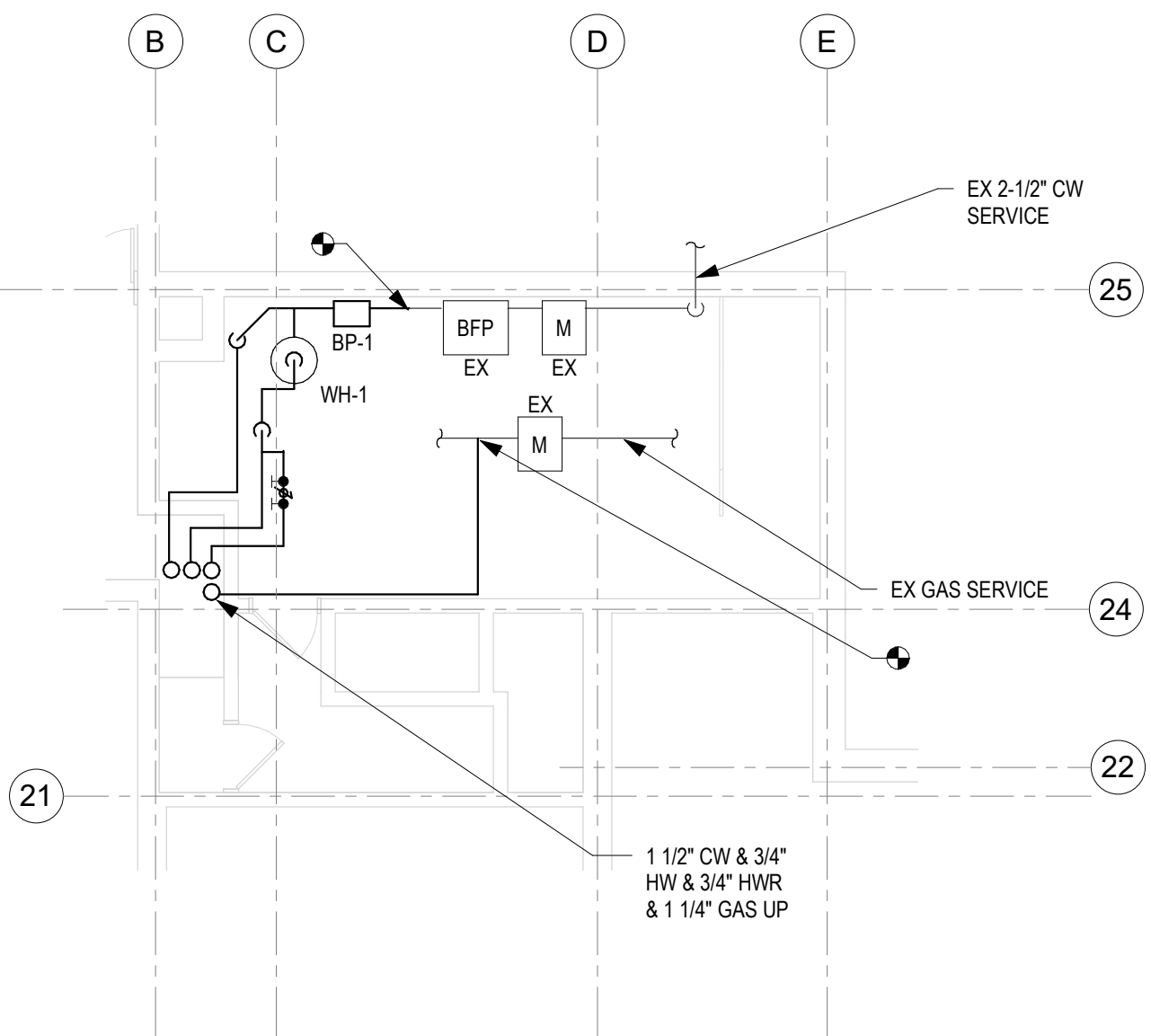
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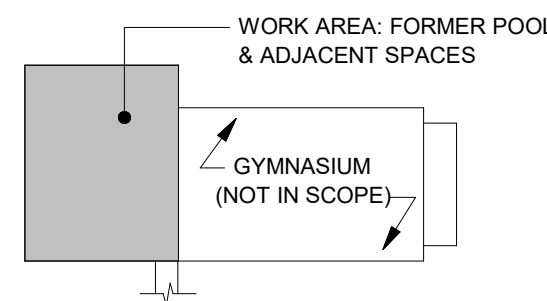
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1 BOILER ROOM PLUMBING PLAN  
1/8" = 1'-0"



KEY PLAN

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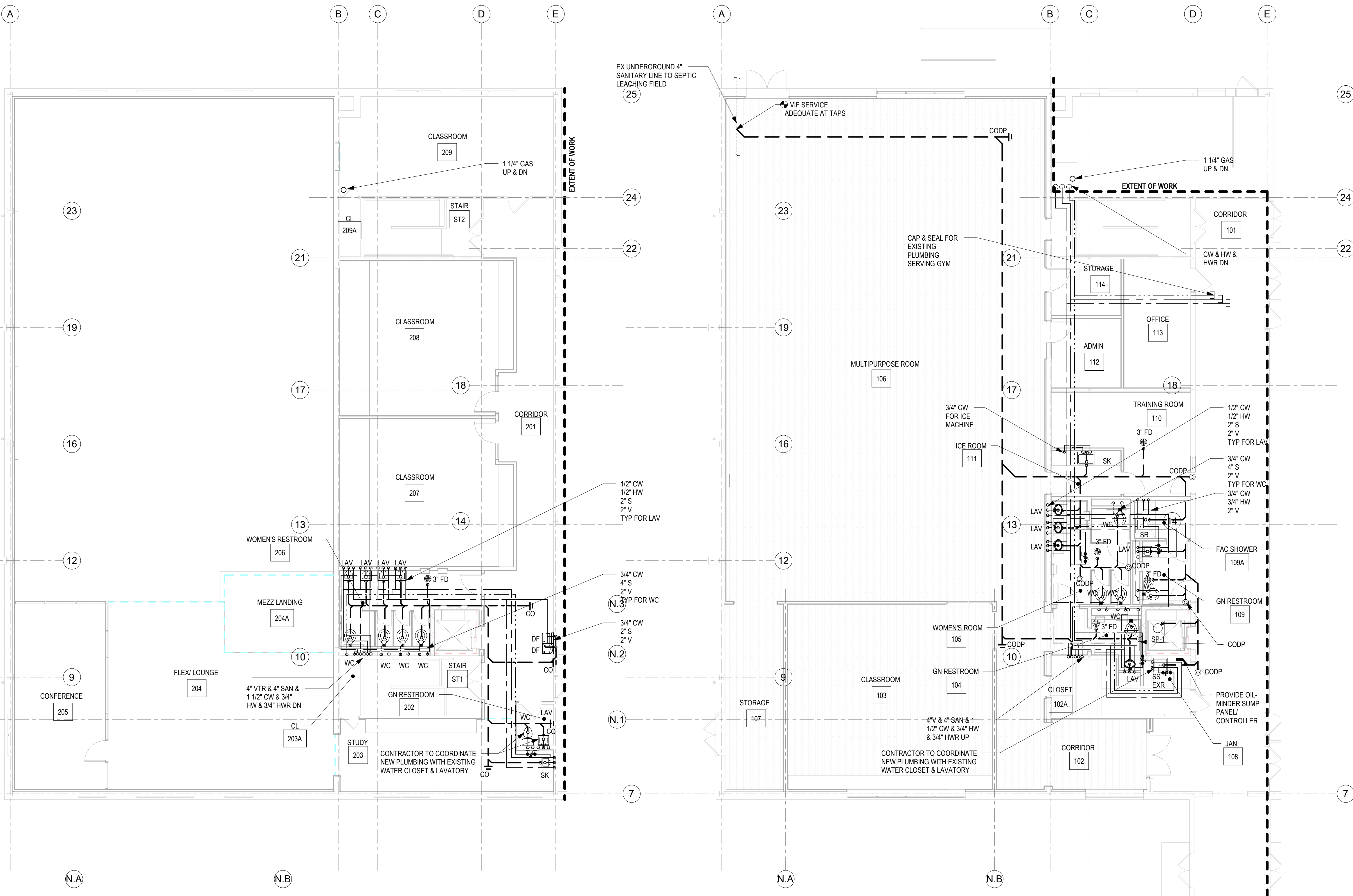
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PLUMBING PLANS

Drawing Number:

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3 2ND FLOOR PLUMBING PLAN  
1/8" = 1'-0"

2 1ST FLOOR PLUMBING PLAN  
1/8" = 1'-0"

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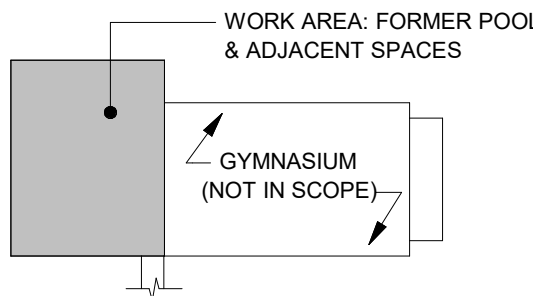
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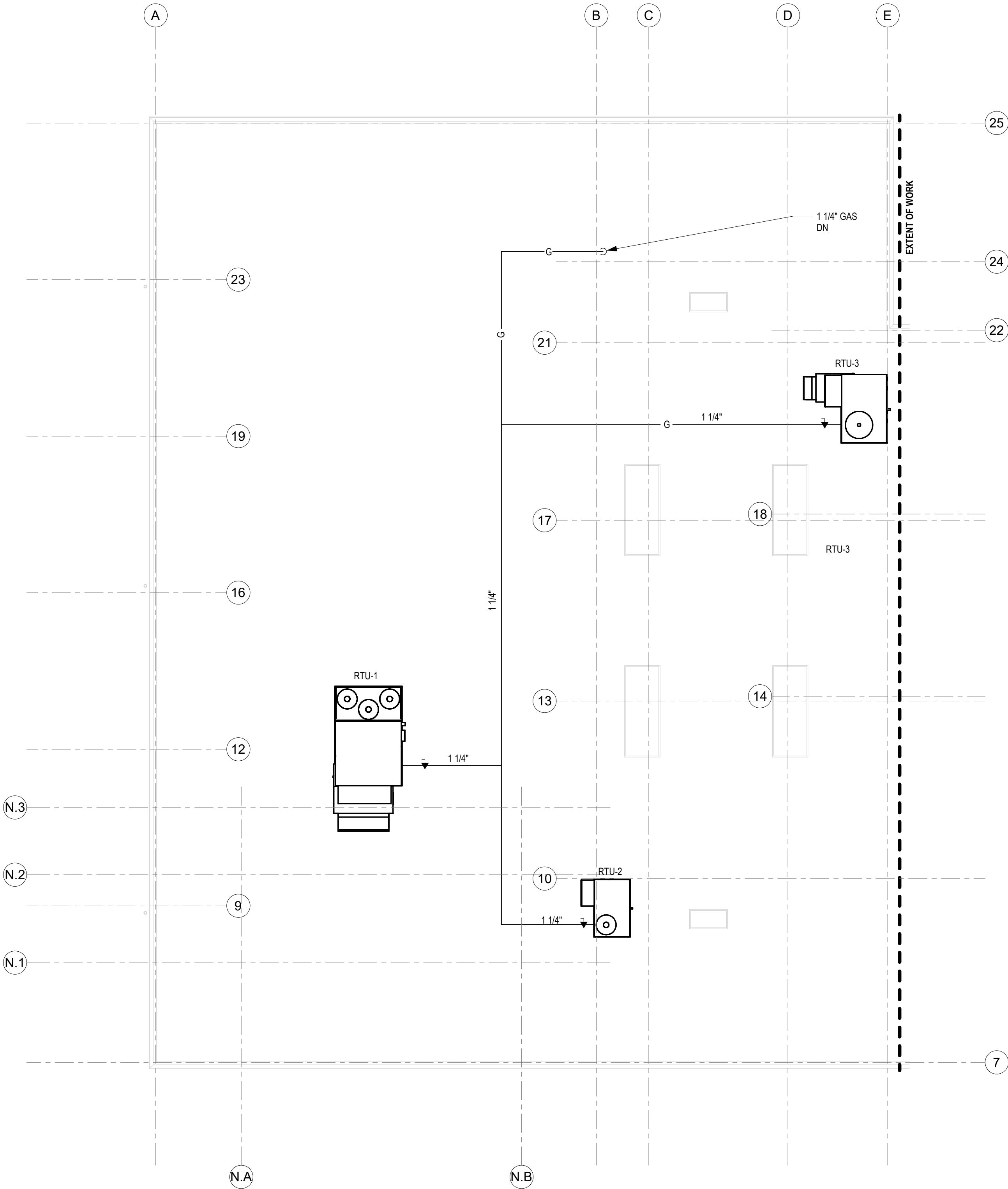
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1 PLUMBING ROOF PLAN  
1/8" = 1'-0"



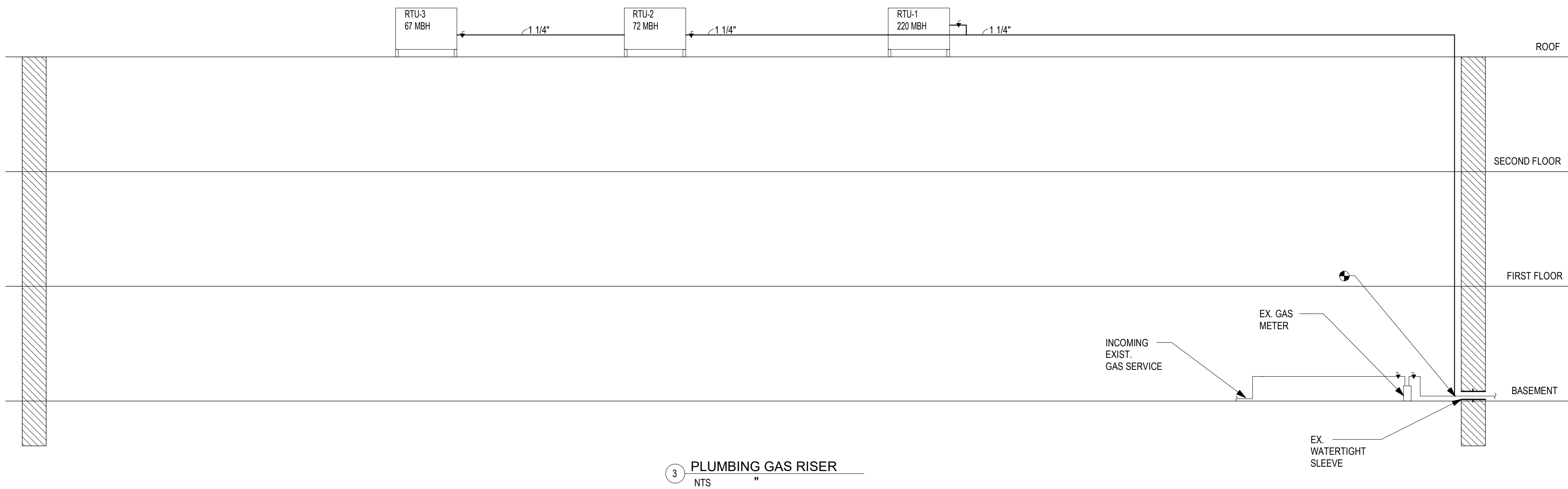
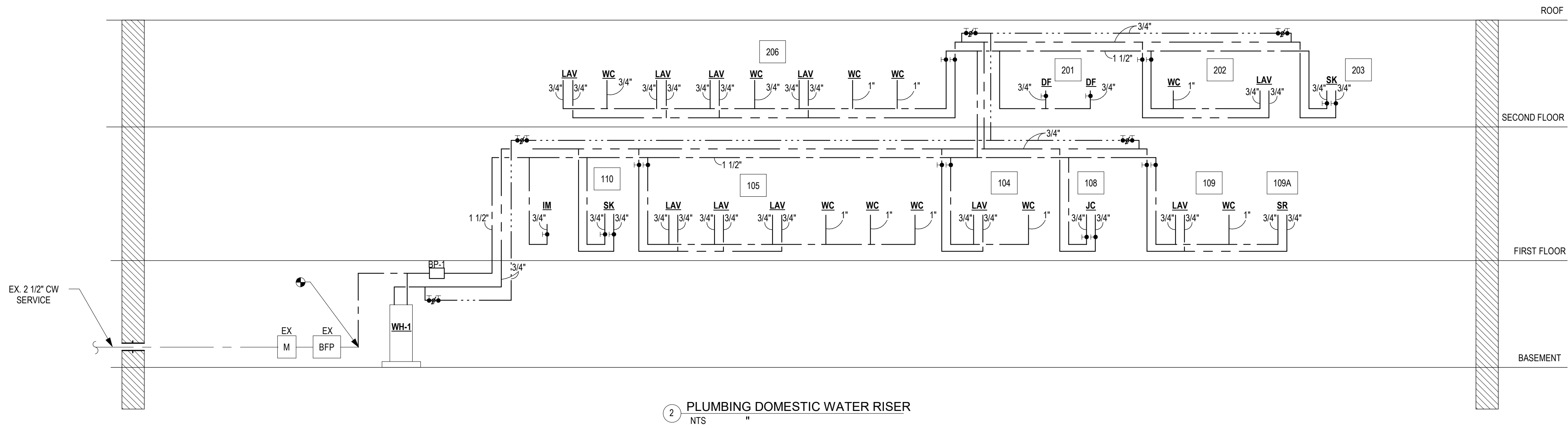
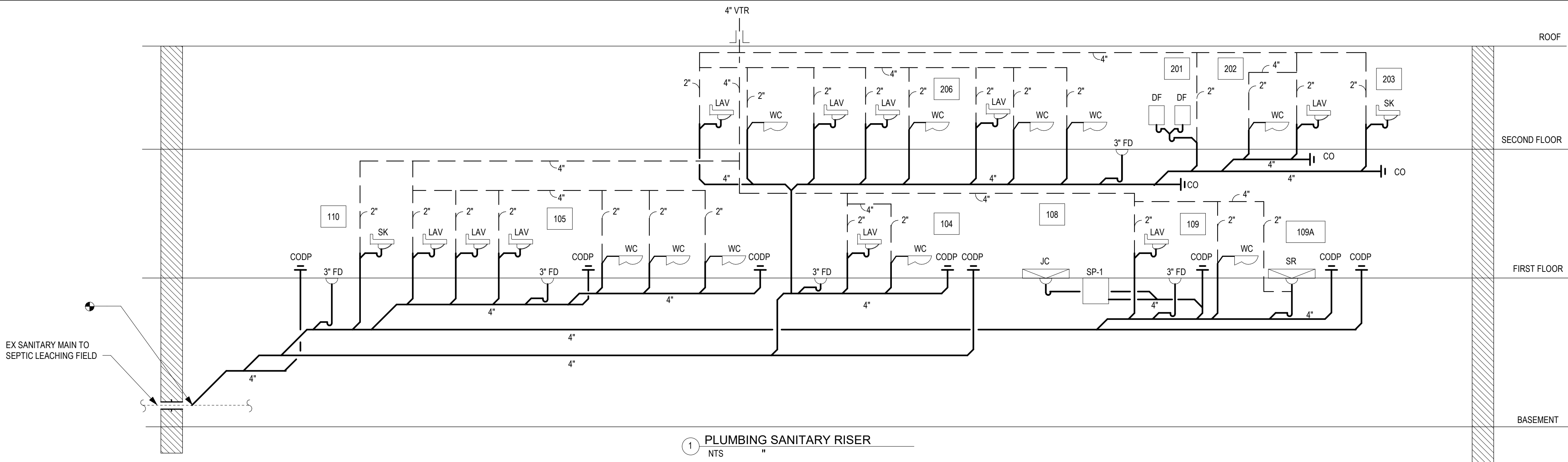
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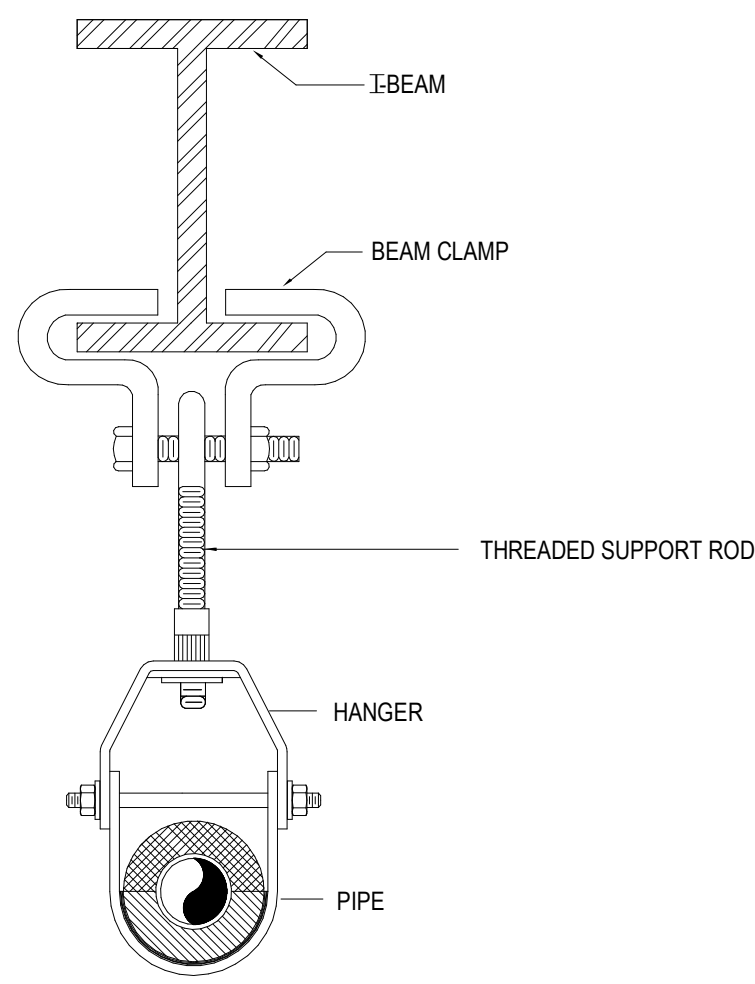
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PLUMBING RISERS

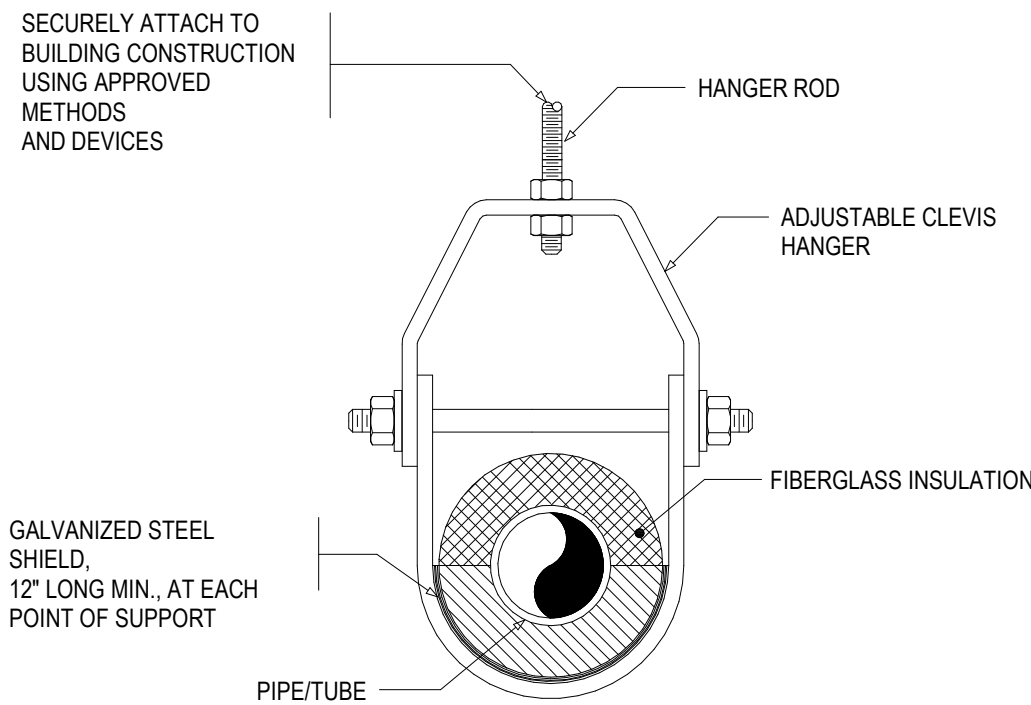
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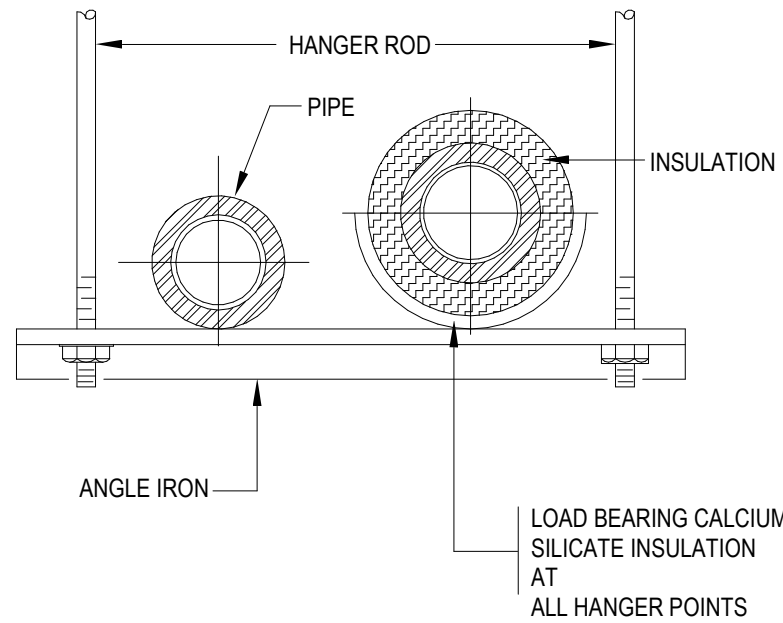




TOP BEAM CLAMP  
NOT TO SCALE  
**ATTACHMENT DETAIL**  
NOT TO SCALE

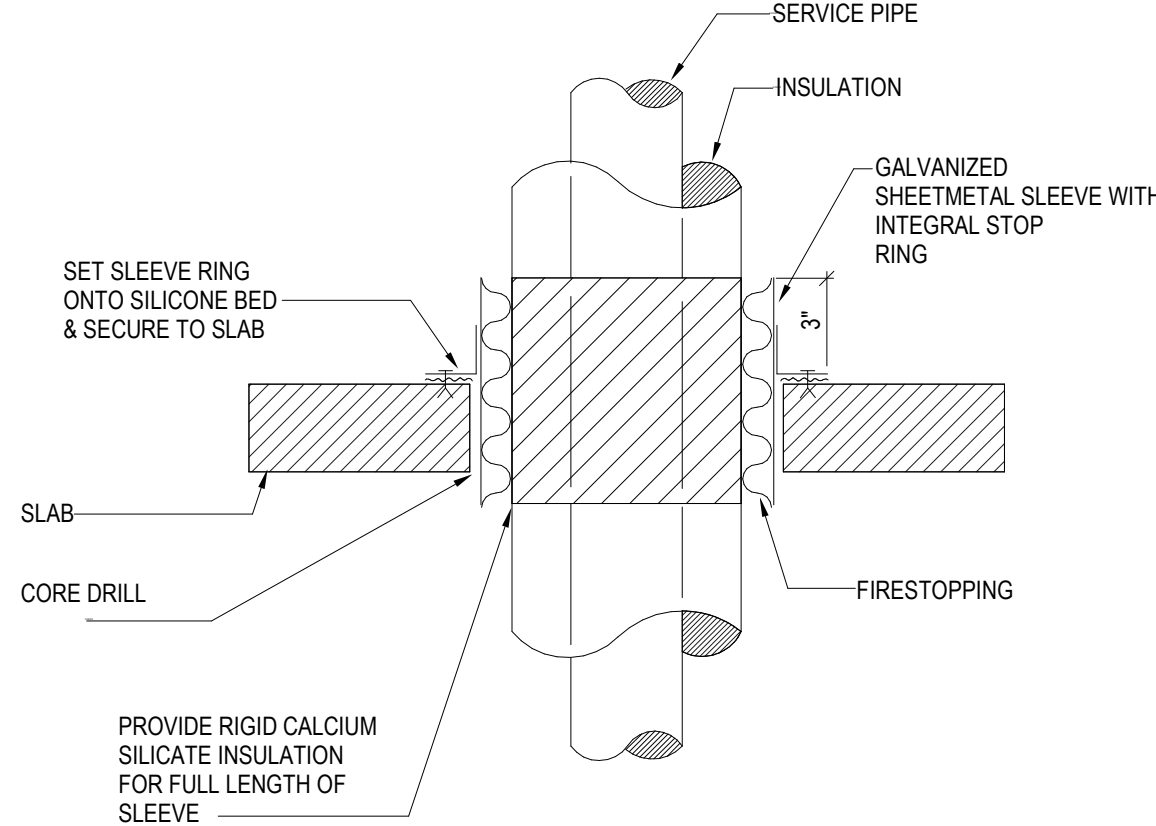


**ADJUSTABLE CLEVIS PIPE SUPPORT**  
FOR INSULATED PIPING/TUBING 1 1/2" AND LARGER  
NOT-TO SCALE

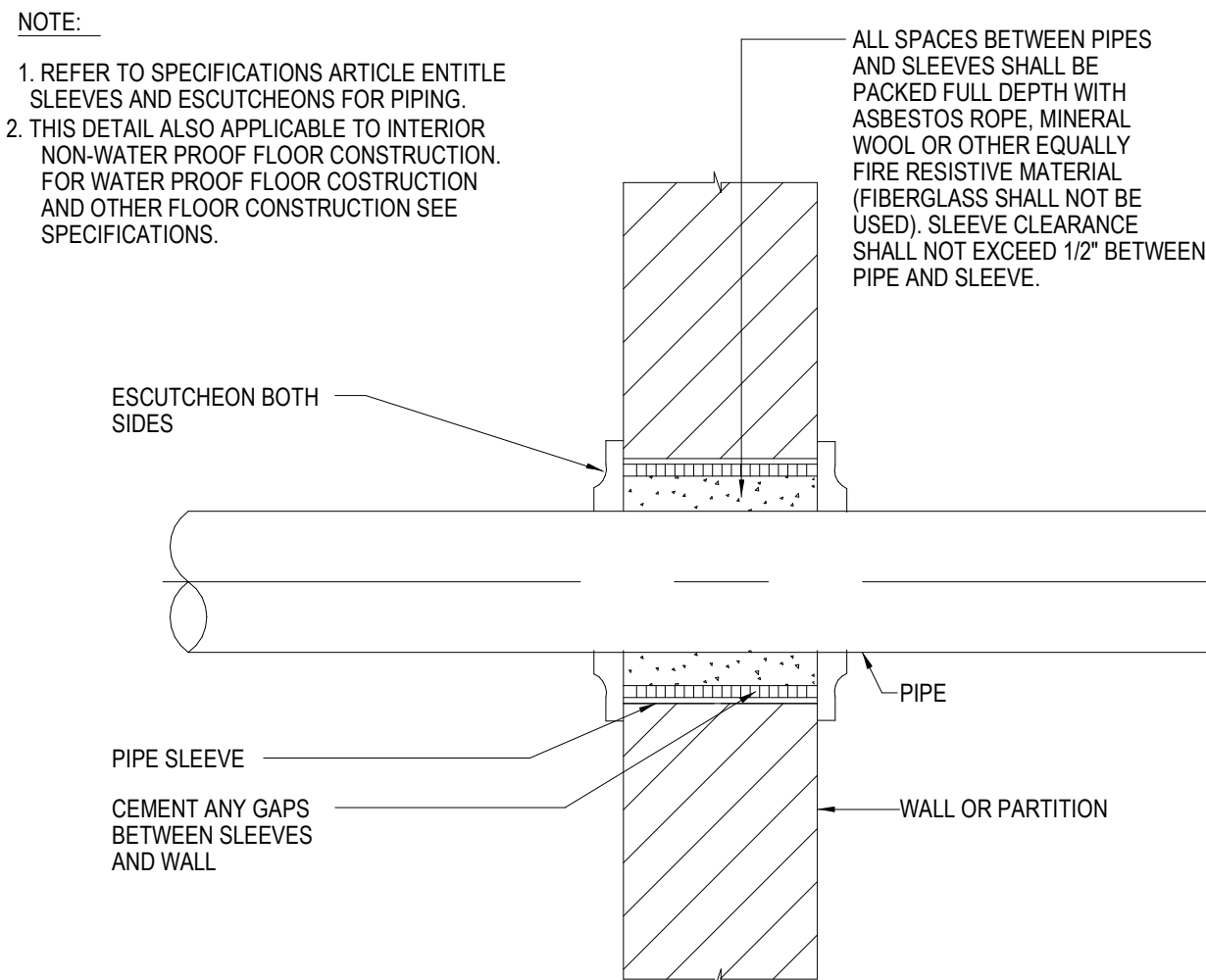


**TRAPEZE HANGER**  
NOT TO SCALE

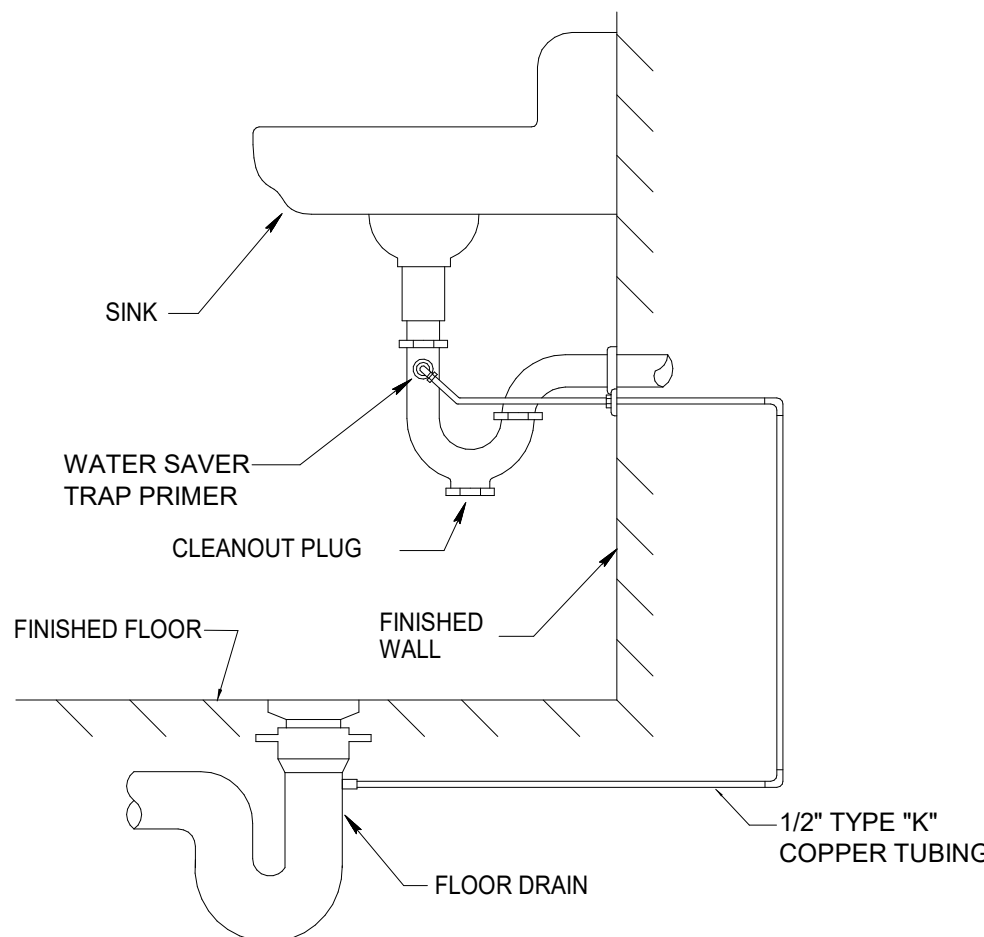
**1 PIPE HANGER DETAILS**  
N.T.S.



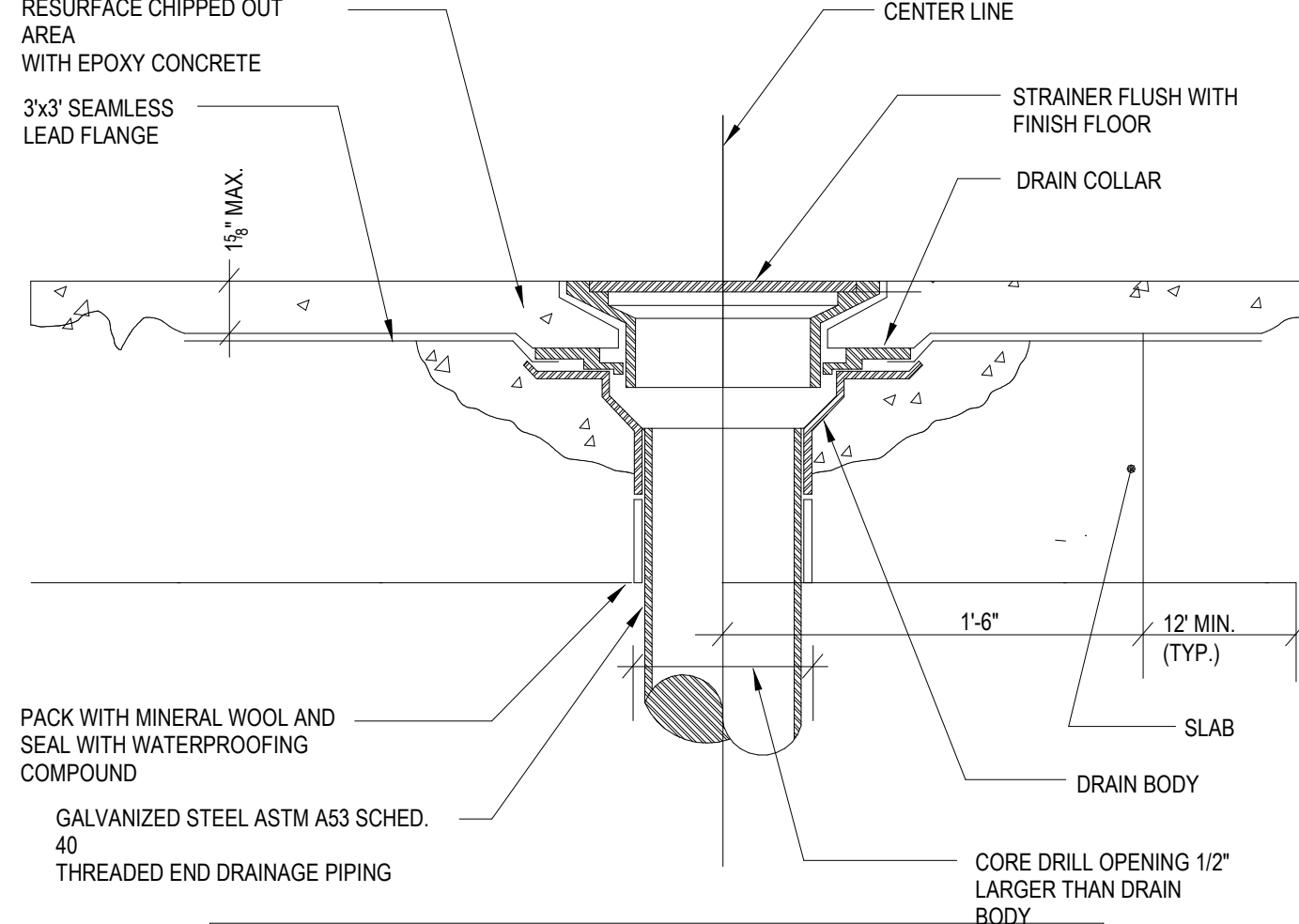
**2 PIPE PENETRATION THROUGH FLOOR DETAIL**  
NO SCALE



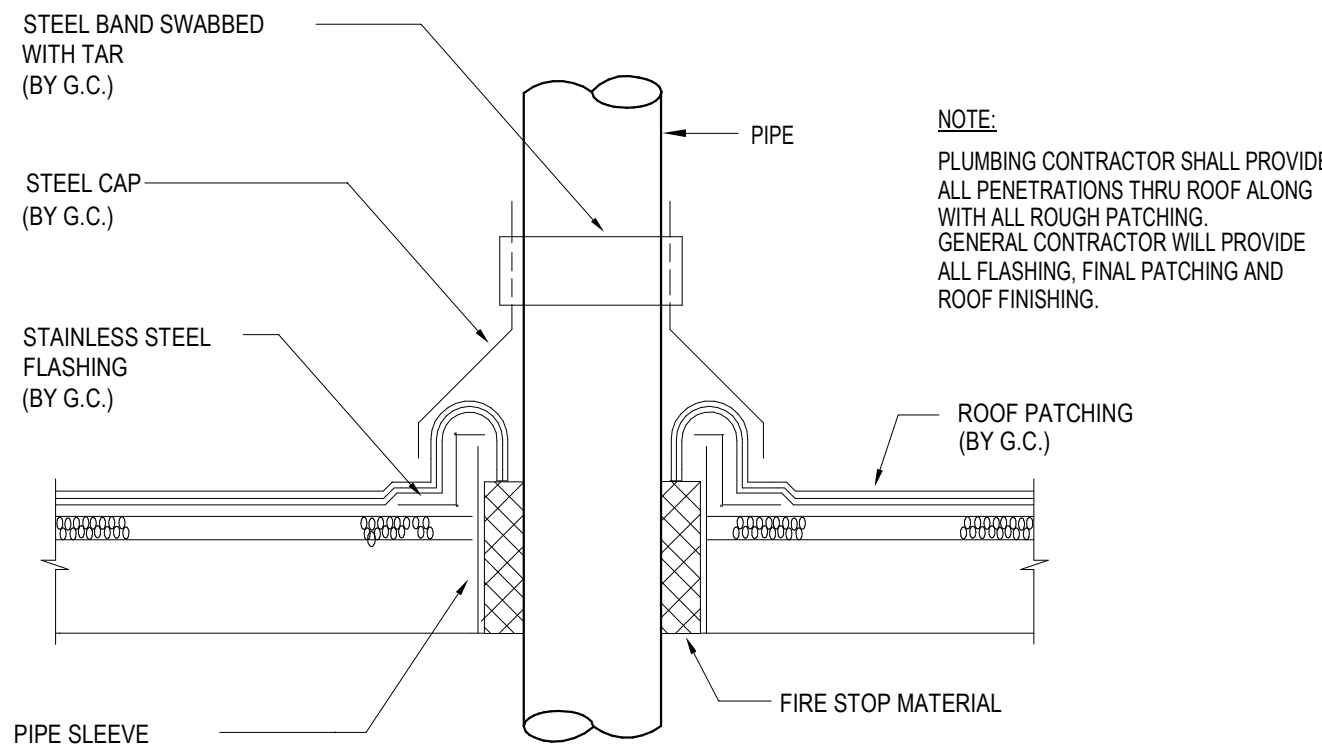
**4 DETAIL OF PIPING PIERCING MASONRY WALL**  
N.T.S.



**6 TRAP PRIMER DETAIL**  
NOT TO SCALE



**3 TYPICAL FLOOR DRAIN INSTALLATION**  
NOT TO SCALE



**5 PIPE PENETRATION THRU ROOF DETAIL**  
NOT TO SCALE

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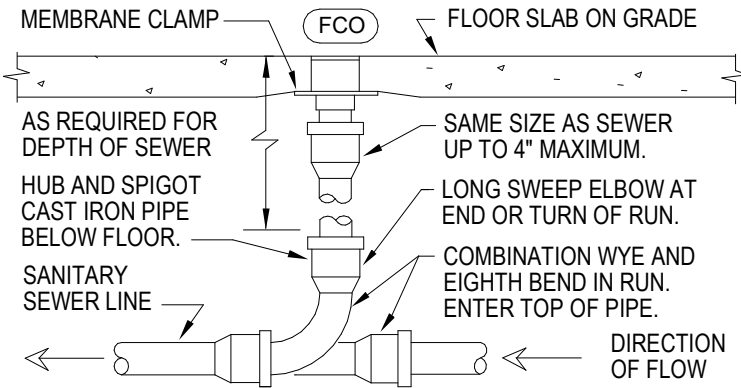
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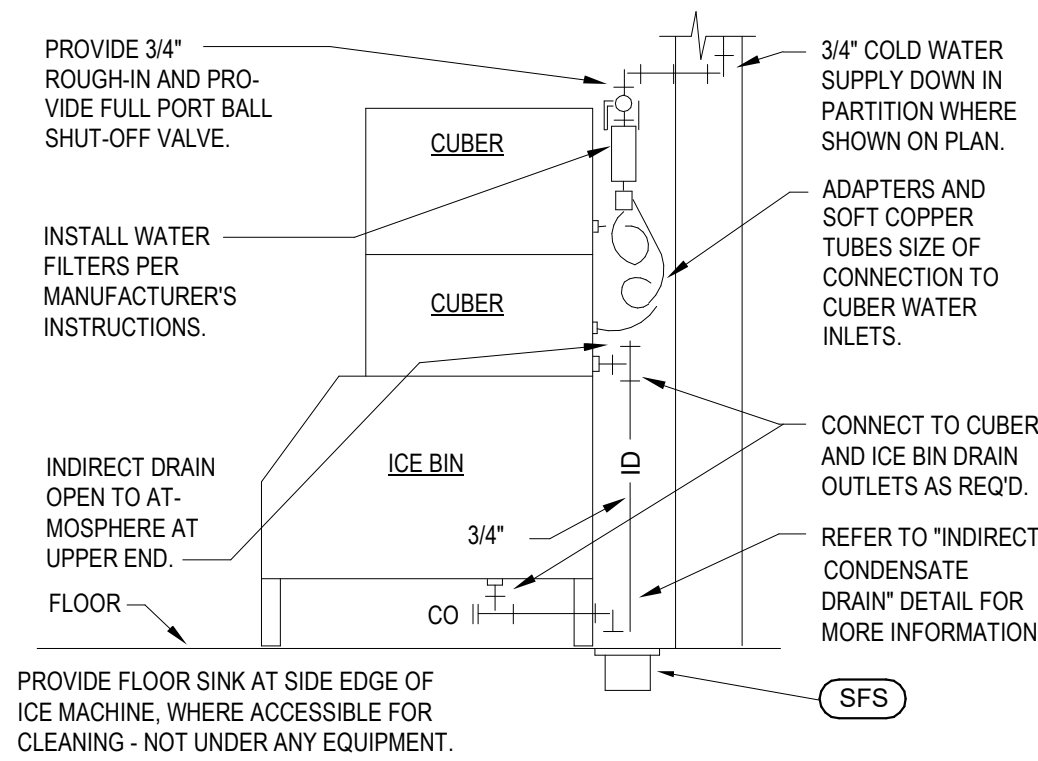
ROUND SECURED GASKETED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORATED FOR UNFINISHED FLOORS). PROVIDE GASKETED PLASTIC PLUG IN CAST IRON BODY. USE TEFLON JOINT COMPOUND ON PLUG THREADS. CLEAN THE TOP OF EXPOSED FCO AFTER INSTALLATION.



LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

**FLOOR CLEANOUT**

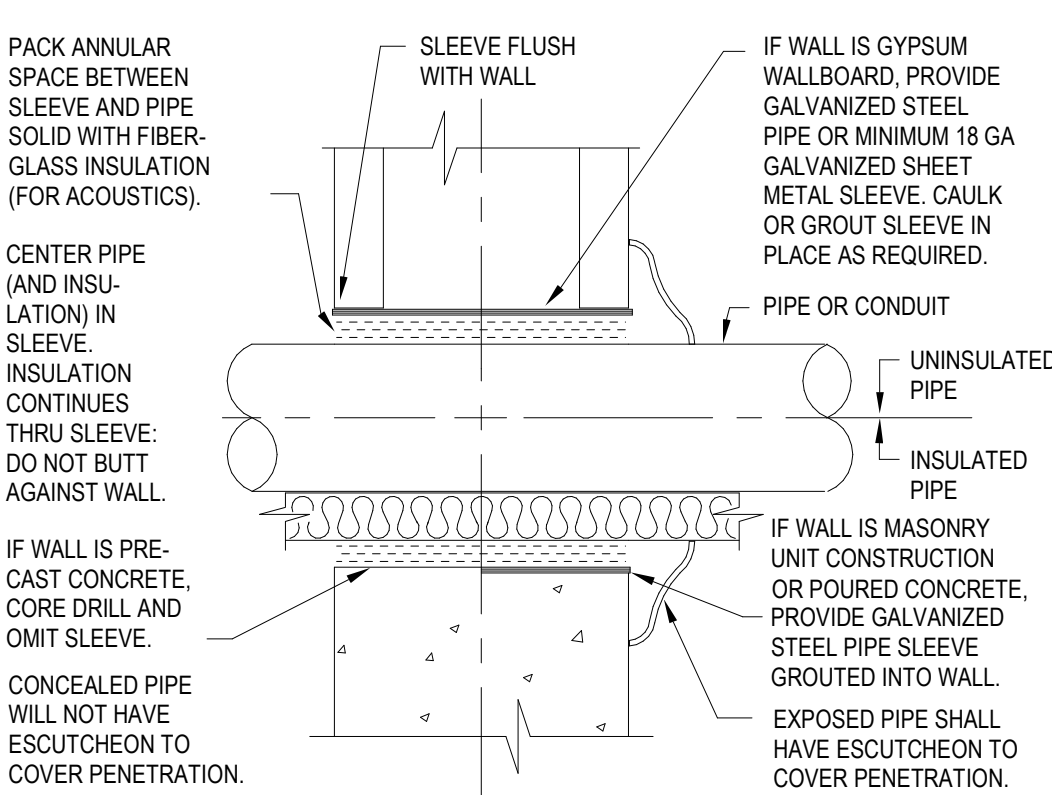
NOT TO SCALE



PROVIDE COLD WATER ROUGH-IN AT TOP OF ICE MACHINE. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITIONS. VERIFY CONNECTIONS WITH MANUFACTURER.

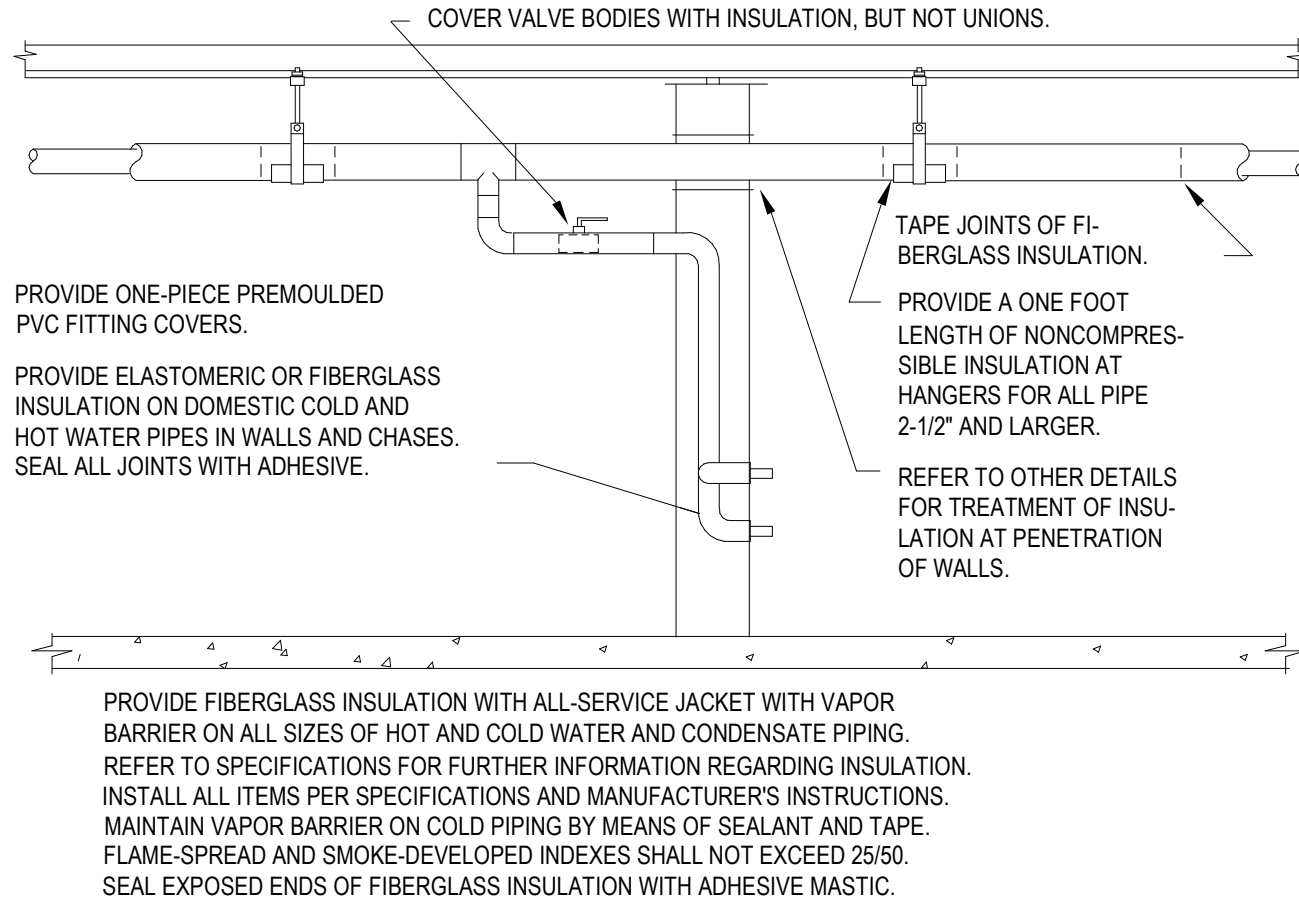
**ICE MACHINE CONNECTIONS**

NOT TO SCALE



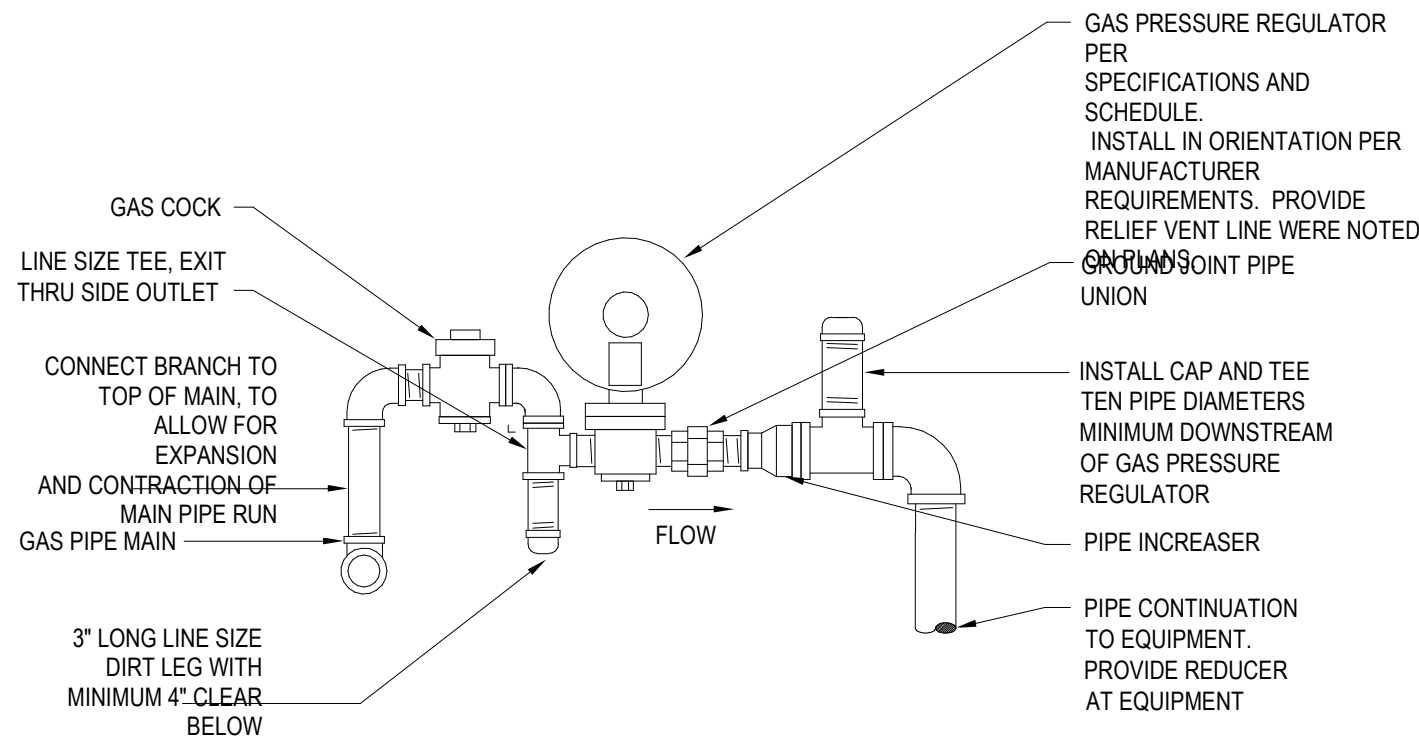
**PENETRATION OF NON-FIREWALL**

NOT TO SCALE



**PIPE INSULATION**

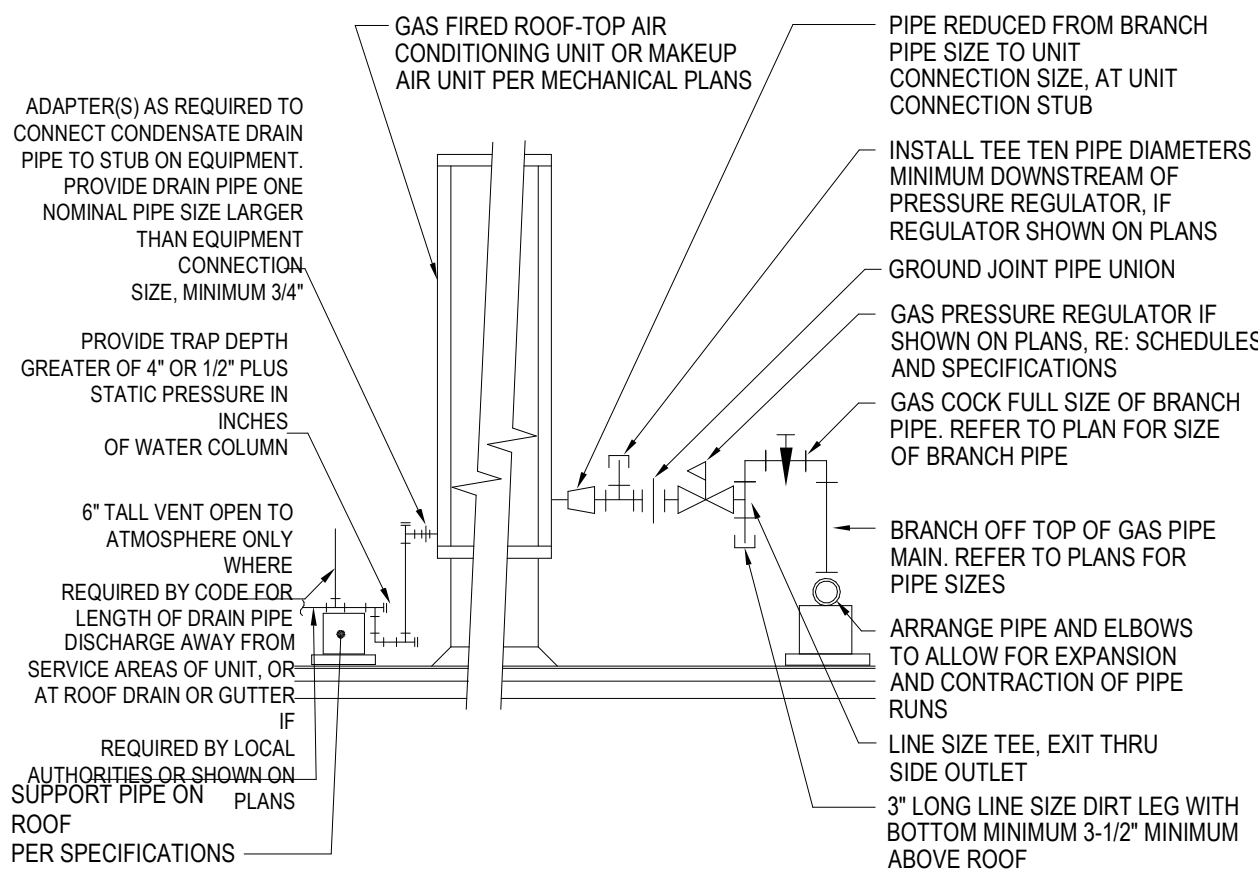
NOT TO SCALE



REFER TO PLANS FOR PIPE SIZE(S). ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PROVIDE CONNECTIONS SHOWN IN EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY CONNECTION LOCATIONS BEFORE INSTALL PIPE RUNS. REFER TO SPECIFICATIONS FOR PIPE AND FITTING MATERIALS AND INSTALLATION. PROVIDE GAS COCK, UNION AND DIRT LEG SAME SIZE AS BRANCH PIPE.

**GAS PRESSURE REGULATOR**

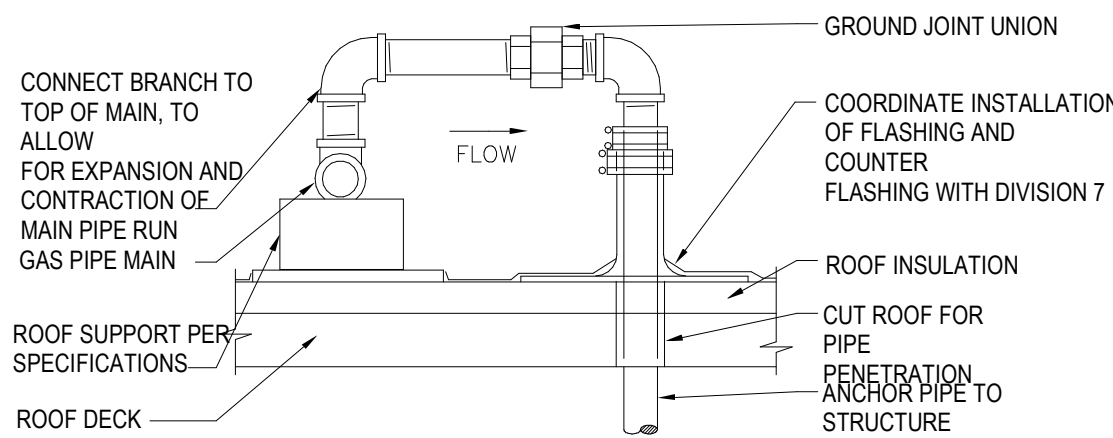
NO SCALE



ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PROVIDE CONNECTIONS SHOWN IN EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY CONNECTION LOCATIONS BEFORE INSTALLING PIPE RUNS. REFER TO SPECIFICATIONS FOR PIPE AND FITTING MATERIALS AND INSTALLATION. PROVIDE DIELECTRIC UNION IF CONNECTING DISSIMILAR METALS. FOR PIPE SIZE(S) REFER TO FLOOR PLANS, OR CODE REQUIREMENTS FOR HVAC UNIT TONNAGE. PROVIDE GAS COCK, UNION AND DIRT LEG SAME SIZE AS BRANCH PIPE. SLOPE CONDENSATE PIPE AS MUCH AS POSSIBLE TOWARD DISCHARGE, 2% MINIMUM. PROVIDE CLEANOUTS IN ENDS AND TURNS OF PIPE PER LOCAL CODE REQUIREMENTS: ADAPTER WITH THREADED CLEANOUT PLUG. OMIT CONDENSATE DRAIN ON MAKEUP AIR UNIT. PROVIDE MINIMUM 6" CLEARANCE TO ROOF UNDER PIPES.

**CONNECTIONS TO ROOF - TOP UNIT**

NO SCALE



REFER TO PLANS FOR PIPE SIZE(S) AND PENETRATION LOCATION(S). REFER TO SPECIFICATIONS FOR MORE INFORMATION. LOCATE PENETRATION MINIMUM 18" FROM ADJACENT WALLS, VENTS THRU ROOM, EQUIPMENT CURBS, PARAPETS, ROOF DRAINS. EXPANSION JOINTS, AND OTHER ROOF FEATURES.

**GAS PIPE ROOF PENETRATION**

NOT TO SCALE

No.	Date	Revisions
0	02/05/24	100% CDs

Seal:

Drawn: CW      Checked: CS      Approved: CS

Job Number: 786  
File:

Date:  
02/05/24

Drawing Set:  
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Drawing Title:  
PLUMBING DETAILS

Drawing Number:

P3.1

FIRE ALARM SYSTEM INSTALLATION NOTES:

1. ALL EQUIPMENT AND DEVICES SHALL BE NEW AND SHALL MATCH THE EXISTING SYSTEM SILENT KNIGHT COMPONENTS, AND FUNCTIONALITY SHALL CONFORM TO ALL NJ FIRE CODES, NJ RULES, NEC, & NFPA.
2. FIELD VERIFY EXACT LOCATION OF ALL AFFECTED FIRE ALARM EQUIPMENT AND DEVICES. COORDINATE WITH LANDLORD/OWNER AND ARCHITECT FOR NEW LOCATIONS. EXACT LOCATION OF ALL FIRE ALARM EQUIPMENT AND DEVICES SHALL BE DETERMINED IN FIELD AND COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN.
3. NEW FIRE ALARM DEVICES AND WIRING SHALL MEET OR EXCEED SPECIFICATION REQUIREMENTS OF EXISTING COMPONENTS. COORDINATE WITH OWNER/LANDLORD, AND BASE BUILDING FIRE ALARM VENDOR/MAINTENANCE CONTRACTOR FOR EXACT REQUIREMENTS.
4. WIRE AND CONNECT NEW FIRE ALARM ANNUNCIATION DEVICES (HORNS AND STROBES) ON ALTERNATE CIRCUITS/LOOPS IN "A-B" ARRANGEMENT AND IN SUCH WAY THAT EACH CIRCUIT/LOOP WILL HAVE APPROXIMATELY 50% OF DEVICES PER AREA/FLOOR. COORDINATE WITH BASE BUILDING FIRE ALARM VENDOR/MAINTENANCE CONTRACTOR FOR PROPER LOOP/CIRCUITING CONNECTION, PROPER CONNECTIONS/INTERCEPTION AND PROVIDE RE-PROGRAMMING OF THE EXISTING SYSTEM AS REQUIRED.
5. NO SPLICES OF FIRE ALARM WIRING/CABLING IS ALLOWED. IF NECESSARY, USE TERMINAL STRIP BLOCKS WITH SCREW TYPE CONNECTIONS AT BOTH ENDS IN PAINTED FIRE ALARM RED ACCESSIBLE BOXES.
6. FIRE ALARM SYSTEM IS TEMPORAL 3. SEQUENCE OF OPERATION SHALL BE AS PER MATRIX ON THIS DRAWING AND SHALL MATCH EXISTING EQUIPMENT FUNCTIONALITY. COORDINATE WITH OWNER/LANDLORD AND BUILDING MAINTENANCE CONTRACTOR FOR PROPER SEQUENCE OF OPERATION.
7. COORDINATE WITH MECHANICAL CONTRACTOR AND FIRE ALARM VENDOR SILENT KNIGHT: FOR ALL NECESSARY RELAYS, MODULES, WIRING, INTERCONNECTIONS, TERMINATIONS, PROGRAMMING AND SEQUENCE OF OPERATION OF ALL FIRE ALARM EQUIPMENT AND DEVICES RELATED TO OPERATION OF MECHANICAL EQUIPMENT.
8. OBTAIN FROM AND COORDINATE WITH THE BUILDING FIRE ALARM VENDOR EXISTING AND MODIFIED POINT-TO-POINT WIRING DIAGRAMS.
9. CONDUCT ENTIRE ASSOCIATED SYSTEM TEST UPON COMPLETION OF INSTALLATION AND INCLUDE ALL NECESSARY FEES INTO BID PRICE TO PROVIDE FULLY COMMISSIONED SYSTEM. COORDINATE WITH LANDLORD/OWNER, ARCHITECT AND BUILDING FIRE ALARM MAINTENANCE CONTRACTOR FOR ALL RELATED EFFORTS AND SCHEDULES.
10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FILING AND FILING FEES FOR THIS WORK, INCLUDING ANY REVISIONS AS A RESULT OF FIELD CONDITIONS.
11. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL APPROPRIATE TESTING AND FIRE DEPARTMENT INSPECTIONS AND SIGN-OFF. AN ACCEPTANCE TEST OF THE ALARM SYSTEM SHALL BE CONDUCTED BY THE CONTRACTOR AND THE FIRE ALARM EQUIPMENT VENDOR AS DIRECTED BY THE OWNER AFTER THE FIRE ALARM EQUIPMENT VENDOR HAS PERFORMED A 100% TEST OF THE SYSTEM.
12. COORDINATE WITH LANDLORD/OWNER, ARCHITECT AND BUILDING FIRE ALARM MAINTENANCE CONTRACTOR FOR EXACT WIRING AND CONDUIT ROUTING AND RISER LOCATIONS. PROPERLY WATER AND FIRE SEAL ALL PENETRATIONS AS REQUIRED.
13. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF ALL AIR CONDITIONING UNIT DUCT SMOKE DETECTORS AND ASSOCIATED REMOTE INDICATORS.
14. AREA SMOKE DETECTORS SHALL NOT BE LOCATED IN DIRECT AIR STREAM FROM SUPPLY AIR OUTLETS. SMOKE DETECTORS SHALL BE LOCATED MINIMUM 3'-0" AWAY FROM SUPPLY AIR GRILLES.
15. ALL CIRCUIT POLARITIES SHALL BE STRONGLY OBSERVED.
16. NO CHANGES SHALL BE MADE TO THE SYSTEM WITHOUT FORMAL WRITTEN APPROVAL OF THE BUILDING FIRE ALARM VENDOR/MAINTENANCE CONTRACTOR.
17. ALL DETECTION, VISUAL, ANNUNCIATION AND INDICATION DEVICE CIRCUITS SHALL BE SUPERVISED. THEREFORE, NO PARALLEL BRANCHING OF NON-ADDRESSABLE CIRCUITS IS PERMISSIBLE.
18. ALL SHIELDS SHALL BE CONTINUOUS AND ISOLATED FROM GROUND.
19. ALL TEFLON WIRING DRAIN SHIELDS SHALL BE GROUNDED AT THE MAIN FIRE ALARM CONTROL PANEL. DRAIN SHIELDS IN OTHER PANELS (REMOTE ANNUNCIATION PANELS, AUXILIARY, JUNCTION BOXES) SHALL BE SPLICED, TIED TOGETHER AND TAPED FREE OF GROUND.
20. CONTRACTOR SHALL VERIFY CAPACITY OF ADDRESSABLE CIRCUITS FOR ALLOWABLE AMOUNT OF DEVICES PER CIRCUIT. DO NOT EXCEED 80% OF MAXIMUM CIRCUIT'S ALLOWABLE CAPACITY. IF NECESSARY, PROVIDE ADDITIONAL BOARDS OR COMPONENTS TO MAINTAIN THE 20% SPARE CAPACITY.

21. NO WORK SHALL BE STARTED UNTIL PLANS ARE APPROVED OR PERMITTED BY THE NJ DEPARTMENT OF BUILDINGS AND FIRE DEPARTMENT.
22. ALL APPROPRIATE AND REQUIRED FORMS SHALL BE FILED BY THE LICENSED ELECTRICAL CONTRACTOR WITH ALL AGENCIES HAVING JURISDICTIONS PRIOR TO ANY WORK.
23. NO CHANGES AND/OR MODIFICATIONS OF THE SYSTEM ARE ALLOWED WITHOUT THE ENGINEER'S WRITTEN APPROVAL. CONTRACTOR SHALL KEEP RECORDS OF ALL SUCH CHANGES. IF ANY SUBSTANTIAL CHANGES TO THE APPROVED PLANS WERE MADE PREVIOUS TO, OR DURING THE INSTALLATION, FIELD DRAWINGS SHALL BE UPDATED BY THE INSTALLER IN PREPARATION FOR AS-BUILT UPDATE. AS-BUILT PLANS SHALL BE PREPARED IN AUTOCAD FORMAT AND FILED WITH NJ AGENCIES FOR FINAL ACCEPTANCE.
24. ALL FIRE ALARM EQUIPMENT SHALL BE UL AND BSA LISTED, NJ APPROVED AND SHALL BE PURCHASED FROM SINGLE FIRE ALARM VENDOR AND SHALL BE COMPATIBLE WITH BASE BUILDING FIRE ALARM SYSTEM. STROBE LIGHT SHALL BE APPROVED TO MEET CURRENT AMERICANS WITH DISABILITIES ACT (A.D.A.) AND NJ REQUIREMENTS. STROBE LIGHTS SHALL FEATURE 1 HZ BLINK RATE IN THE ACTUAL INSTALLATION. EVERY 2-WIRE DETECTOR SHALL BE COMPATIBLE WITH CONTROL PANEL. ALL DEVICES SHALL BE ADDRESSABLE TYPE.
25. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NJ BUILDING CODE, LATEST NJ ENERGY CODE, OTHER NFPA STANDARDS AND ALL OTHER APPLICABLE CODE, STANDARDS, REGULATIONS AND COMPLY WITH ALL AGENCIES HAVING JURISDICTIONS.
26. ALL FIRE ALARM CONTROL PANELS SHALL BE MOUNTED WITH 3FT CLEARANCE FOR TESTING AND MAINTENANCE. TOP OF THE PANEL SHALL BE AT 5'-6".
27. PENETRATION OF FIRE-RATED WALLS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED.
28. NO CONDUITS OR WIRES SHALL ENTER THE TOP OF THE FIRE ALARM PANEL.
29. FAN AND HVAC UNITS SHALL NOT AUTOMATICALLY RESTART UPON THE SIMPLE RESETTNG OF THE FIRE ALARM CONTROL PANEL. ENSURE THAT A SECOND ACTION IS REQUIRED.

WIRING:

30. ALL POWER AND GROUND WIRING TO BE THHN IN EMT, AS AN ALTERNATIVE, POWER WIRING MAY BE MINERAL INSULATED (MI CABLE).
31. ALL FIRE ALARM SIGNAL WIRING SHALL BE SOLID COPPER #16 AWG WHILE ALL WIRING FOR SOUNDING DEVICES AND STROBE LIGHTS SHALL BE SOLID COPPER #14 AWG FPLP. WIRING SHALL BE UL AND BSA LISTED, NJ APPROVED TEFLON JACKETS, PLENUM RATED, 150 C RATED AND LABELED "NJ CERTIFIED" THROUGHOUT. ALL WIRING SHALL BE CONNECTED BY APPROVED TERMINAL STRIPS OR U.L. LISTED "SCOTCH-LOCKS".
32. POWER CONDUCTORS SHALL NOT BE INSTALLED IN COMMON RACEWAYS WITH LOW VOLTAGE CONDUCTORS. CONDUCTORS FOR OTHER ELECTRICAL SYSTEMS SHALL NOT BE INSTALLED IN RACEWAYS CONTAINING FIRE ALARM CONDUCTORS.
33. ALL MATERIALS AND DEVICES USED IN FIRE ALARM SIGNAL SYSTEMS SHALL BE SECURELY FASTENED IN POSITION. PLASTIC ANCHORS ARE NOT ACCEPTABLE. ALL FIRE ALARM CABINETS PULL BOX COVERS, ETC. SHALL BE PAINTED FIRE ALARM RED.
35. WHERE "NJ CERTIFIED" WIRING IS ALLOWED TO BE RUN WITHOUT RACEWAY PROTECTION, CABLES SHALL NOT DEPEND ON CEILING MEDIA, PIPES, DUCTS CONDUITS OR EQUIPMENT. FOR SUPPORT WIRING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE WITH APPROVED HANGAR, J-HOOKS, CABLE TIES, STRAPS OR SIMILAR FITTINGS PLACED IN INTERVALS NOT EXCEEDING 5'-0" ON CENTERS AND WITHIN 12" OF EVERY ASSOCIATED CABINET, BOX OR FITTING.
36. ALL FIRE ALARM JUNCTION BOXES TO BE CLEARLY MARKED FOR EASY IDENTIFICATION. COVERS SHALL BE PAINTED "FIRE DEPARTMENT RED".
37. ALL CONDUIT, JUNCTION BOXES, MOUNTING BOXES AND FIRE ALARM PANELS SHALL BE SECURELY HUNG AND FASTENED WITH APPROPRIATE FITTINGS TO INSURE POSITIVE GROUNDING THROUGHOUT THE ENTIRE FIRE ALARM SYSTEM.
38. NO WIRING OTHER THAN THAT DIRECTLY ASSOCIATED WITH FIRE ALARM DETECTION, ALARM OR AUXILIARY FIRE PROTECTION FUNCTIONS SHALL BE PERMITTED IN FIRE ALARM CONDUITS.
39. WIRING SPLICES SHOULD BE AVOIDED TO THE EXTENT POSSIBLE, AND IF NEEDED THEY MUST BE MADE ONLY IN JUNCTION BOXES USING APPROVED TERMINAL STRIP CONNECTIONS.
40. TRANSPOSING OR CHANGING COLOR CODING OF WIRES IS NOT PERMITTED.
41. ALL CONDUCTORS IN CONDUIT CONTAINING MORE THAN ONE WIRE SHALL BE LABELED ON EACH END ACCORDINGLY.
42. CONDUCTORS IN CABINET SHALL BE CAREFULLY FORMED AND HARNESSSED SO THAT EACH DROPS OFF DIRECTLY OPPOSITE TO ITS TERMINAL.
43. CABINET TERMINALS SHALL BE NUMBERED AND CODED
44. ALL WIRING SHALL BE CHECKED AND TESTED TO INSURE PROPER SUPERVISION (WHERE APPLICABLE), AND THAT THERE ARE NO GROUNDS, OPEN OR SHORTS.

45. WIRING REQUIREMENTS FOR SHIELDING CERTAIN CONDUCTORS FROM OTHERS OR ROUTING IN SEPARATE RACEWAYS SHALL BE AS RECOMMENDED BY THE MANUFACTURER'S DOCUMENTATION.
46. ALL LOW VOLTAGE "NJ CERTIFIED" WIRING MAY BE INSTALLED EXPOSED ABOVE CEILINGS OR CONCEALED IN WALLS. ALL EXPOSED WIRING SHALL BE RUN IN APPROVED RACEWAY.
47. WIRING IN MECHANICAL ROOMS AND ELSEWHERE SUBJECT TO MECHANICAL DAMAGE, SHALL BE IN RIGID GALVANIZED STEEL CONDUIT.
48. FLEXIBLE METALLIC CONDUIT NOT EXCEEDING 36" IN LENGTH SHALL BE PERMITTED FOR FINAL CONNECTIONS TO INITIATING AND NOTIFICATION DEVICES.
49. SPLICES AND TERMINATIONS OF WIRES AND CABLES SHALL BE ONLY PERMITTED IN BOXES OR CABINETS SPECIFICALLY APPROVED FOR THE PURPOSE.
50. SPLICES AND TERMINATIONS OF WIRES SHALL UTILIZE MECHANICAL CONNECTIONS SPECIFICALLY APPROVED BY U.L. 486 A & C. TEMPERATURE RATING OF COMPLETED SPLICES SHALL EQUAL OR EXCEED THE TEMPERATURE RATING OF THE HIGHEST RATED CONDUCTOR.
51. WIRING FOR AUDIBLE AND VISUAL ALARM NOTIFICATION DEVICES SHALL BE ARRANGED SO THAT A LOSS OF A PORTION OF THE WIRING ON A FLOOR WILL NOT RENDER MORE THAN 60% OF THE DEVICE OF EACH TYPE INOPERATIVE (AT LEAST 2 CIRCUITS PER FLOOR FOR AUDIBLE DEVICES AND 2 CIRCUITS FOR STROBES).
52. BOTH AUDIBLE AND VISUAL NOTIFICATION APPLIANCES SHALL BE CONNECTED BY MEANS OF ALTERNATE CIRCUITS AS TO MAINTAIN AT LEAST PARTIAL AUDIBILITY/VISIBILITY THROUGHOUT THE ENTIRE FLOOR IN CASE OF SINGLE CIRCUIT FAILURE.
53. PROVIDE SIGNS AND IDENTIFICATION FOR FIRE ALARM SYSTEM AND COMPONENTS AS PER SPECIFICATIONS.










FIELD DEVICES:

54. ALL MANUAL PULL STATIONS SHALL BE RED AND MATCH EXISTING.
55. ALL MANUAL PULL STATIONS, SOUNDING AND VISUAL ALARM DEVICES, AND FIRE ALARM PANEL SHALL BE KEPT UNOBSTRUCTED AT ALL TIMES.
56. ALL MANUAL PULL STATIONS SHALL BE INSTALLED SO THAT CENTER OF THE HANDLE IS APPROXIMATELY 4'-0" ABOVE THE FINISHED FLOOR (A.F.F.).
57. THE CENTERLINE OF ALL AUDIBLE DEVICES SHALL BE LOCATED AT LEAST 80" A.F.F., EXCEPT THAT IN LOCATIONS WHERE CEILINGS PREVENT THE INSTALLATION AT HIS HEIGHT, THE CENTERLINE OF THE HORN SHALL BE LOCATED 6" BELOW THE CEILING. CENTERLINE OF ALL VISUAL DEVICES (STROBES) SHALL BE EXACTLY 80" ABOVE THE HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, AS PER A.D.A. CEILING MOUNTED STROBES, WHERE ALLOWED SHALL NOT BE OBSTRUCTED BY OTHER DEVICES WITHIN 5' OF THE STROBE
58. WHERE SMOKE OR DUCT DETECTORS ARE NOT VISIBLE (CONCEALED), REMOTE INDICATING LIGHT SHALL BE PROVIDED AS REQUIRED.
59. PROTECT EXISTING FIRE ALARM TO BE REUSED. RELOCATED FIRE ALARM TO BE OPERATION AND PLACED ABOVE CEILING GRID DURING CONSTRUCTION AND PRIOR TO BEING RELOCATED TO PROPOSED LOCATION.

DEMOLITION

60. PRIOR TO BID, CONTRACTOR SHALL CONTACT AND ENGAGE THE BASE BUILDING FIRE ALARM MAINTENANCE CONTRACTOR AND OBTAIN PRICING FOR THE REQUIRED EQUIPMENT AND SERVICES WHICH MUST BE PROVIDED BY THE BASE BUILDING FIRE ALARM MAINTENANCE CONTRACTOR.
61. REPROGRAMMING OF FIRE COMMAND STATION AND REMOVAL OF CONNECTIONS AT THE FIRE COMMAND STATION OR DATA GATHERING PANELS SHALL BE PERFORMED BY THE BASE BUILDING'S FIRE ALARM MAINTENANCE CONTRACTOR AND INCLUDED IN THE ELECTRICAL CONTRACTOR'S BASE PRICE/BID.
62. TEST AND DOCUMENT EXISTING FIRE ALARM SYSTEM SERVING THE PROJECT AREA PRIOR TO START OF DEMOLITION. PROVIDE A REPORT OF SUCH TEST TO THE LANDLORD, TENANT, GENERAL CONTRACTOR, CM, ARCHITECT AND ENGINEER PRIOR TO PERFORMING ANY FIRE ALARM WORK. NOTIFY AND COORDINATE WITH BUILDING PERSONNEL AS REQUIRED.
64. PROVIDE FIRE STOPPING FOR ALL RESULTING PENETRATIONS AS REQUIRED BY CODE.
65. CONTRACTOR SHALL INCLUDE IN HIS BASE PRICE ALL PREMIUM TIME AND OVERTIME REQUIRED FOR OFF HOURS OR WEEKEND WORK AS IT RELATES TO FIRE ALARM TESTING, INSPECTIONS AND APPROVAL.

DRAWING LIST	
FA0.1	FIRE ALARM GENERAL NOTES & SYMBOL LIST
FA1.0	FIRST & SECOND FLOOR FIRE ALARM PLANS
FA3.0	FIRE ALARM RISER AND MATRIX

FIRE ALARM SYMBOL LIST	
	PROGRAMMABLE SMOKE DETECTOR
 CO	DUAL PROGRAMMABLE SMOKE/CARBON MONOXIDE DETECTOR
	WALL MOUNTED FIRE ALARM HORN/STROBE
	WALL MOUNTED FIRE ALARM STROBE
 FPA	OUTLYING EQUIPMENT CONTROL CABINET
 N	FIRE ALARM PULL STATION
 EX	NEW
 RL	EXISTING TO REMAIN
	EXISTING TO RELOCATE

OUR LADY OF  
MERCY ACADEMY  
LEADERSHIP  
CENTER

Design Team:

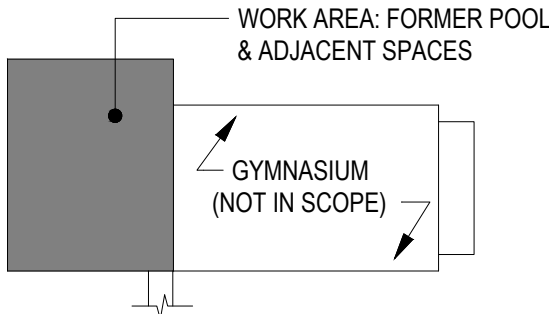
1600 Walnut Street, 2nd Floor  
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KEY PLAN

No.	Date	Revisions
0	02/05/2024	

Seal:

Drawn: Author	Checked: Checker	Approved: Approver
Job Number: 786		
File:		

Date:  
02/05/24

Drawing Set:  
100% CDs

Drawing Title:  
  
FIRE ALARM GENERAL NOTES  
& SYMBOL LIST

Drawing Number:

FA0.1



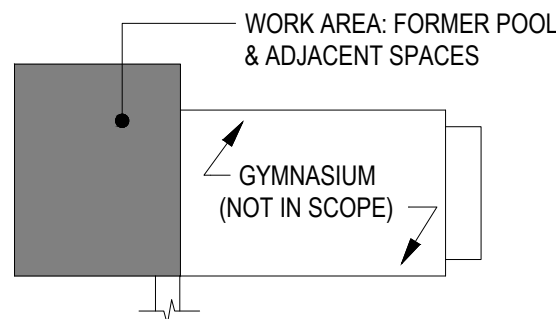
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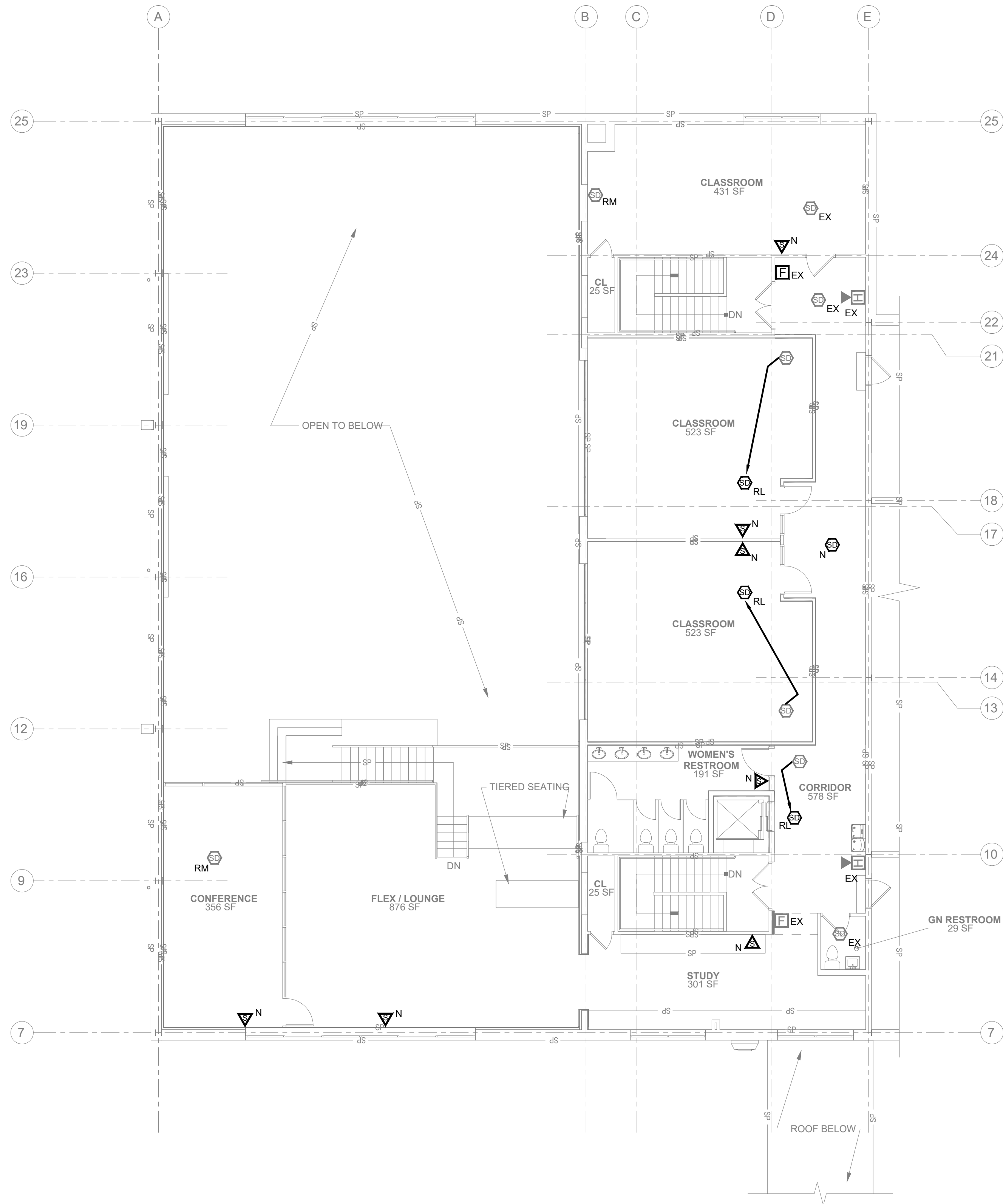
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Drawing Title:  
FIRST & SECOND FLOOR  
FIRE ALARM PLANS

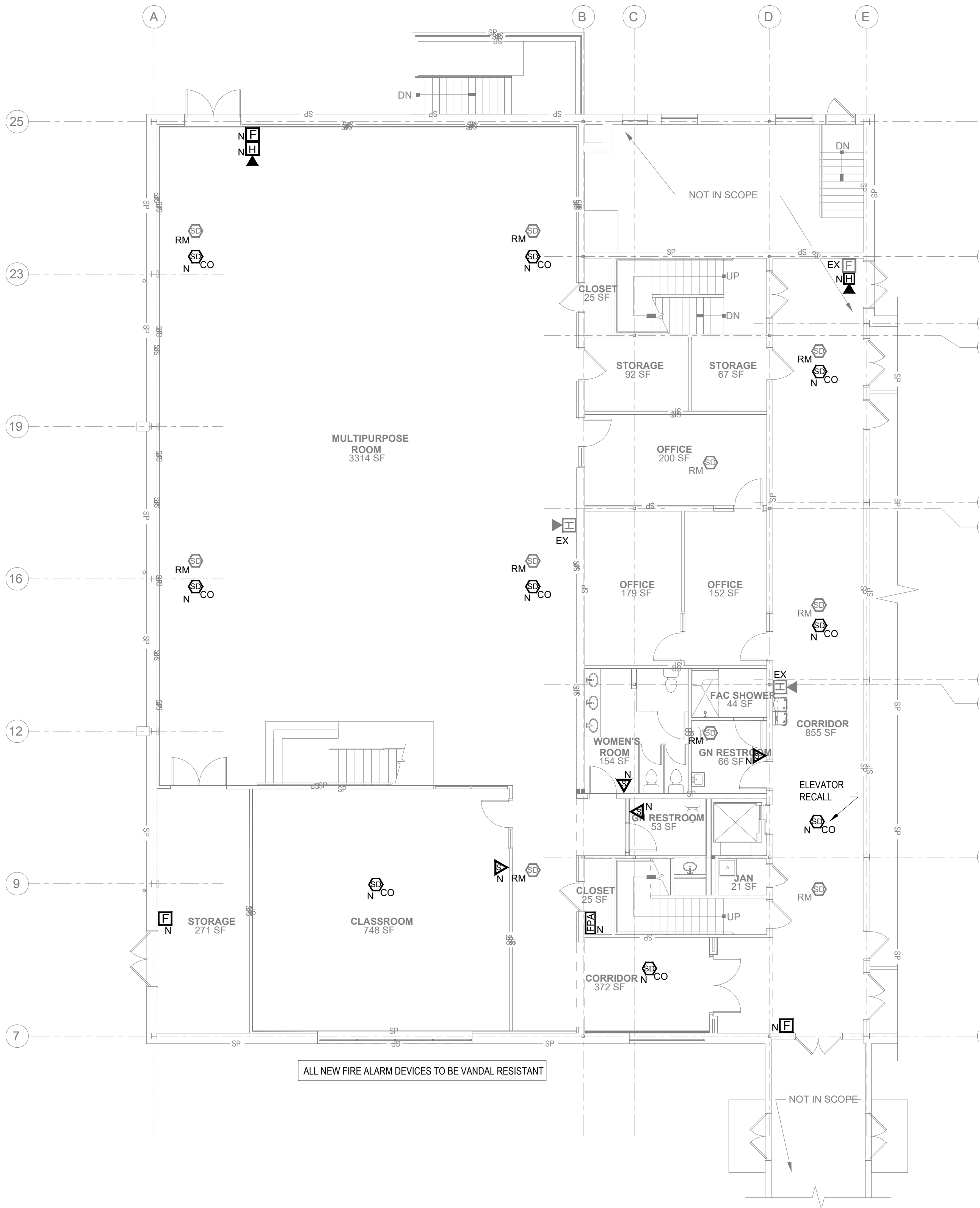
Drawing Number:

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2 SECOND FLOOR FIRE ALARM PLAN  
1/8" = 1'-0"



1 FIRST FLOOR FIRE ALARM PLAN  
1/8" = 1'-0"

**Design Team:**

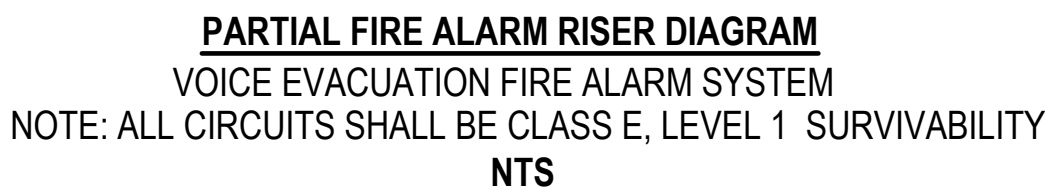
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**FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX**  
**VOICE EVACUATION FIRE ALARM SYSTEM**  
**NTS**

**FIRE ALARM RISER NOTES:**

1. PRIOR TO BID COORDINATE SCOPE OF WORK REQUIRED WITH BUILDING SYSTEM (RE-PROGRAMMING, EXPANSION BUSES, EXPANDER PANEL, POWER SUPPLY, ADDITIONAL AMPLIFIERS FOR FAS HORN ETC) WITH BUILDING FA VENDOR. ALL COMPONENTS REQUIRED TO MAKE SYSTEM WORKABLE SHALL BE INCLUDED IN BID PRICE. VERIFY AVAILABILITY OF INPUT/OUTPUT POINTS AT EACH PANEL AND ROUTE WIRING RESPECTIVELY.
2. ALL STROBES, AND HORN/STROBES SHALL BE WALL MOUNTED FINISH BY ARCHITECT. APPROVED TO USE IN NEW JERSEY.
3. FOR ALL MOUNTED FA DEVICES PROVIDE 3/4" CONDUIT TERMINATED IN NEAREST ACCESSIBLE CEILING.
4. COORDINATE WIRING DIAGRAM WITH FIRE ALARM VENDOR SHOP DRAWINGS. FOR STROBES MAXIMUM CURRENT PER ZONE SHALL NOT EXCEED 1.5A ZONES FOR STROBES AND STROBE/SPEAKERS AS PER FIRE ALARM VENDOR SHOP DRAWING (TYPICAL).
5. ALL FIRE ALARM WIRING SHALL BE "TEFLO" "RED" WIRING INSTALLED IN NON ACCESSIBLE CEILING, EXPOSED BELOW 8 FEET OR IN ROOM AREA (NO CEILING) ROUTE IN CONDUIT. ALL FIRE ALARM WIRING SHALL BE DONE IN ACCORDANCE WITH NEW JERSEY CODE.
6. THIS RISER DIAGRAM IS A SCHEMATIC REPRESENTATION OF THE FIRE ALARM SYSTEM. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF DEVICES.
7. A STANDARD, UL LISTED STROBE TYPICALLY HAS CANDELA RATINGS OF 15, 30, 75, 94, 95 AND 110 CD. EXTENDED COVERAGE STROBES TYPICALLY HAVE CANDELA RATINGS OF 170 AND 185 CD.

Diagram illustrating the Work Area (Former Pool & Adjacent Spaces) and the Gymnasium (Not in Scope). The Gymnasium is indicated as not in scope by a diagonal line and an arrow pointing away from the work area.

## KEY PLAN

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Job Number: 786		
File:		

Date: 02/05/24

Drawing Set:  
100% CDs

Drawing Title

## FIRE ALARM RISER DIAGRAM AND MATRIX

Drawing Number:

# FA3.0