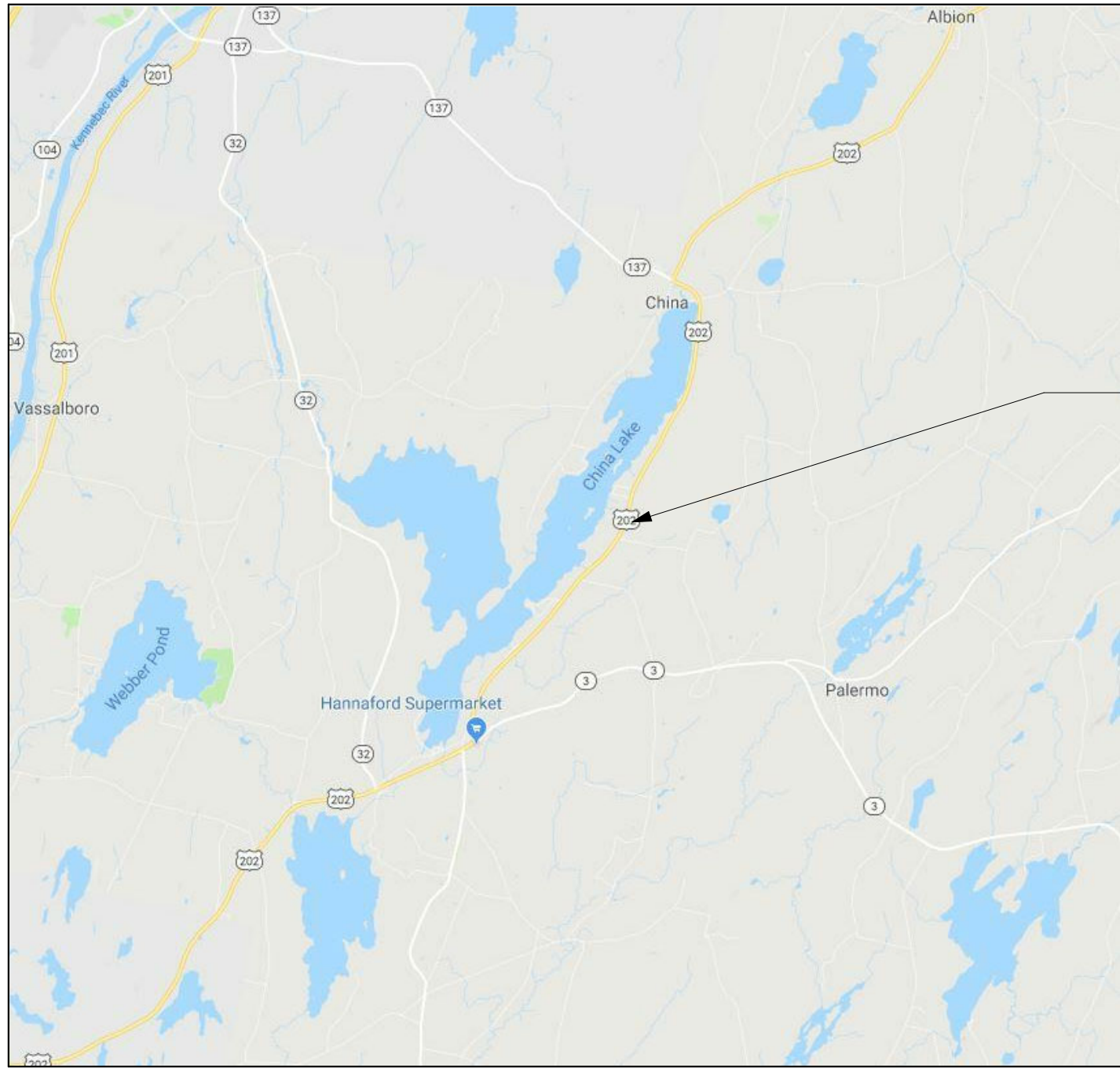


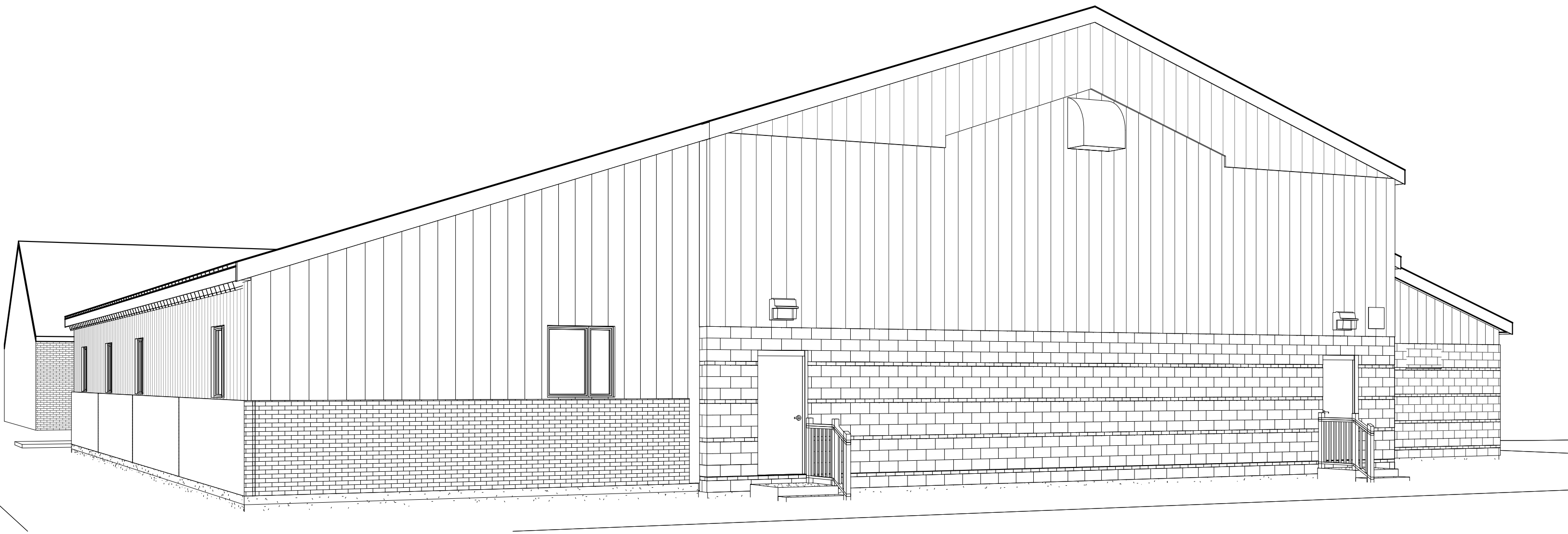


2 GOOGLE EARTH IMAGE
12" = 1'-0"



1 PROJECT LOCATION
12" = 1'-0"

3 CHINA MIDDLE SCHOOL



PROJECT TEAM

12" = 1'-0"

CLIENT:
RSU 18
41 HEATH STREET
OAKLAND, ME 04963
CONTACT: CARL GARTLEY
207.465.7384
CGARTLEY@RSU18.ORG

ARCHITECT:
SEALANDER ARCHITECTS
79 MAIN STREET
SUITE C
ELLSWORTH ME 04605
CONTACT: MIKE SEALANDER, AIA
207-266-5822
MIKE@SEALANDERARCHITECTS.COM

MECHANICAL ENGINEER:
ALLIED ENGINEERING, INC.
160 VERANDA STREET
PORTLAND, ME 04103
CONTACT: TONY DAVIS

STRUCTURAL ENGINEER:
BECKER STRUCTURAL ENGINEERS
75 YORK STREET
PORTLAND ME 04101
CONTACT: ETHAN RHILE, P.E
207.879.1838 EXT 101

ELECTRICAL ENGINEER:
ALLIED ENGINEERING, INC.
160 VERANDA STREET
PORTLAND, ME 04103
CONTACT: STEPHEN MARKIEWICZ
207.221.2260 EXT 113

CIVIL ENGINEER:
CES, INC.
465 S MAIN ST
BREWER, ME 04412
CONTACT: TRAVIS NOYES
207.989.4824
TNOYES@CESINCUSA.COM

SET SHEETS- GENERAL		
NUMBER	NAME	DATE
G-000	TITLE SHEET	
G-001	GENERAL NOTES	
G-100	CODE ANALYSIS	
G-200	WORK AREA	

SET SHEETS- CIVIL		
NUMBER	NAME	DATE
C-101	PROPOSED SITE PLAN	

SET SHEETS- STRUCTURAL		
NUMBER	NAME	DATE
S1.0	GENERAL NOTES	
S1.1	FOUNDATION PLAN	
S1.2	ROOF FRAMING PLAN	
S2.1	FOUNDATION SECTIONS & DETAILS	
S3.1	FRAMING SECTIONS & DETAILS	

SET SHEETS- ARCHITECTURAL		
NUMBER	NAME	DATE
A-010	INTERIOR WALLS	
A-011	EXTERIOR WALLS	
A-020	ROOF AND CEILING ASSEMBLIES	
A-021	FLOOR ASSEMBLIES	
A-040	AXONOMETRICS	
A-041	GYM AXONOMETRICS	
A-110	DEMOLITION PLAN AND ELEVATION	
A-111	REFLECTED CEILING DEMOLITION PLAN	
A-120	ROOF DEMOLITION	
A-150	DEMO/NEW OVERLAY	
A-210	KEY PLAN	
A-211	FLOOR PLANS	
A-220	ROOF PLAN	
A-300	REFLECTED CEILING PLAN	
A-400	ELEVATIONS	
A-401	SECTIONS	
A-410	INTERIOR ELEVATIONS	
A-411	INTERIOR ELEVATIONS	
A-412	INTERIOR ELEVATIONS	
A-413	INTERIOR ELEVATIONS	
A-414	INTERIOR ELEVATIONS	
A-500	WALL SECTIONS	
A-501	WALL SECTIONS	
A-502	WALL SECTIONS	
A-600	TYPICAL DIMENSIONS AND ENLARGED PLANS	
A-700	DETAILS	
A-701	DETAILS	
A-702	DETAILS	
A-703	DETAILS	
A-704	DETAILS	
A-800	OPENINGS	
A-801	OPENINGS	
A-900	FIRST FLOOR FINISHES	
A-920	SIGNAGE	

SET SHEETS- PLUMBING		
NUMBER	NAME	DATE
P-000	PLUMBING AND HVAC NOTES, LEGEND AND ABBREVIATIONS	
PD-100	PLUMBING DEMOLITION	
PL-100	SANITARY PIPING	
PL-200	DOMESTIC PIPING	

SET SHEETS- MECHANICAL		
NUMBER	NAME	DATE
MD-100	MECHANICAL DEMOLITION	
MD-200	MECHANICAL PIPING DEMOLITION	
MH-100	MECHANICAL	
MH-600	MECHANICAL SCHEDULES	
MP-100	MECHANICAL PIPING	

SET SHEETS- ELECTRICAL		
NUMBER	NAME	DATE
E-100	ELECTRICAL NOTES, LEGENDS AND ABBREVIATIONS	
ED-100	ELECTRICAL DEMOLITION PLAN	
EL-100	LIGHTING PLAN	
EL-501	LIGHTING DETAILS	
EP-100	POWER PLAN	
EP-501	ELECTRICAL SCHEDULES	
ES-100	ELECTRICAL SITE PLAN	
EY-100	SYSTEMS PLAN	

SEALANDER ARCHITECTS
79 Main Street, Suite C
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207.266.5822



RSU 18

CHINA MIDDLE SCHOOL ADDITION

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8 APR 2019
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TITLE SHEET

G-000

SPECIFIED COMPONENTS LEGEND	
Key Value	Keynote Text
03 15 00.A2	JOINT FILLER
03 31 00.B2	CONCRETE
04 05 00.B1	ANCHOR
04 05 00.C1	MORTAR NET
04 20 00.B1	VENEER BRICK
04 20 00.C1	CMU
05 12 00.L0	TUBE SHAPE
05 12 00.M0	W SHAPE
05 12 00.O1	STEEL .250
05 40 00.C1	CFMF ANGLE
05 40 00.E2	CFMF STUD
05 40 00.G1	SLOTTED CHANNEL
05 52 13.A1	PIPE RAIL
05 75 00.A1	MESH, ST. STL.
06 10 00.A1	DIM. LUM.
06 10 00.A3	WD. FURRING
06 16 00.D1	GYP. SHEATHING .500
06 16 00.H2	PLY, 1/2"
06 16 00.H4	PLY, 3/4"
06 41 00.C1	COAT HOOK
06 43 00.D1	WD. RAIL BRACKET
06 60 00.A1	SOL. SURF.
07 21 00.D1	2.0 PCF SPRAY FOAM
07 21 00.D2	XPS INSUL.
07 21 00.D3	POLYISO INSUL.
07 21 00.E1	INSUL. BUCK
07 25 00.A5	VAPOR BARRIER
07 25 00.B1	UNDERLAYMENT
07 25 00.C1	SEAL TAPE
07 31 00.A1	ASPHALT SHINGLES
07 42 00.A1	MTL WALL PANEL
07 42 00.D1	PANEL TRIM
07 42 00.D2	PANEL CLOSURE
07 46 00.A8	EXT 5/4 TRIM
07 46 00.B1	LAP SIDING
07 46 00.B3	VINYL TRIM
07 53 00.A1	EPDM
07 62 00.A6	FLASHING
07 62 00.B2	ROOF FLASHING
07 62 00.B3	WALL FLASHING
07 62 00.C3	GUTTER
07 84 00.A1	FIRE STOPPING
07 92 00.A1	SEALANT
07 92 00.B1	SEALANT AND BACKER
07 92 00.C2	FOAM TAPE
08 11 13.A1	H.M DOOR
08 11 13.D2	H.M FRAME
08 33 00.A2	FIRE SHUTTER
08 35 00.B1	ACCORDION DOOR
08 51 00.A2	STEEL WINDOW
08 54 13.A2	VINYL WINDOW
09 22 16.A1	METAL STUDS
09 24 00.A2	CEM. PLASTER
09 29 00.D1	5/8" GWB
09 51 00.A5	A.C.T.
09 65 00.A1	RES. SHT.
09 65 00.A5	VINYL SHT.
09 65 00.B1	RES. BASE
09 72 00.D1	VINYL FLOORING
09 72 00.D3	CAP STRIP
10 14 00.A1	ROOM SIGN
10 26 00.A1	CORN. GRD
10 51 00.B1	BENCH
11 61 00.A1	STAGE CURTAIN
11 65 00.C1	GYM CURTAIN
22 11 00.B1	WATER PIPE
22 14 00.B1	FNDN DRAIN
22 40 00.A16	SINK
23 37 00.B1	REGISTER
23 82 00.A2	FTR
33 46 00.C1	DRAIN FABRIC

DETAIL COMPONENTS
MATERIAL

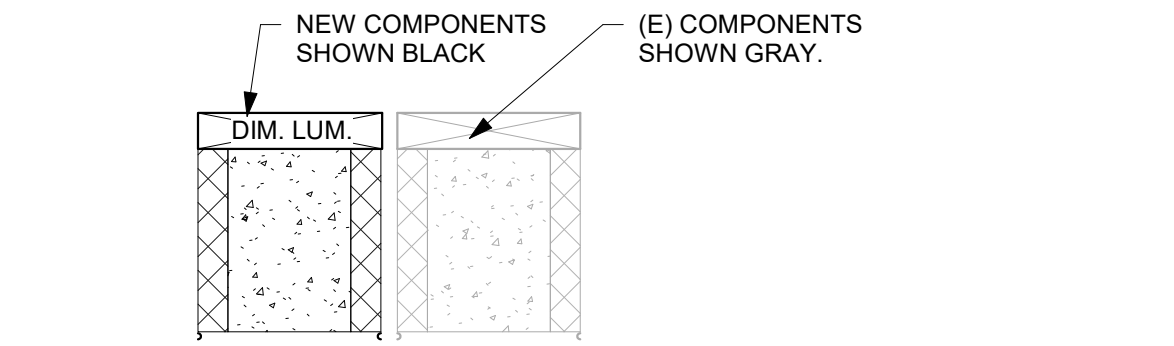
#2 SPF
(E) 1 X TRIM
(E) #2 SPF
(E) #2SPF
(E) A36
(E) ACT
(E) ALUMINUM
(E) ANGLE
(E) BEAM
(E) BRICK VENEER
(E) CFMF STUD
(E) CFMF TRACK
(E) CMU
(E) CMU VENEER
(E) CONCRETE
(E) DRIP EDGE
(E) EPDM
(E) FLASHING
(E) GLASS
(E) GWB
(E) GYPSUM SHEATHING
(E) HARDBOARD
(E) HSS
(E) METAL TRACK
(E) MTL STUD
(E) MTL. PNL.
(E) PLYWOOD
(E) ST. STL
(E) TECTUM
2 PCF SPF
ACCORDION DOOR
ACCORDION TRACK
AIR BARRIER
ASPHALT SHINGLE
BRICK VENEER
CARPET
CFMF
CFMF STUD
CFMF TRACK
CLAPBOARD
CMU
COAT HOOK
CONCRETE
CRUSHED STONE
DRAIN FABRIC
EARTH
EPDM

DETAIL COMPONENTS
MATERIAL

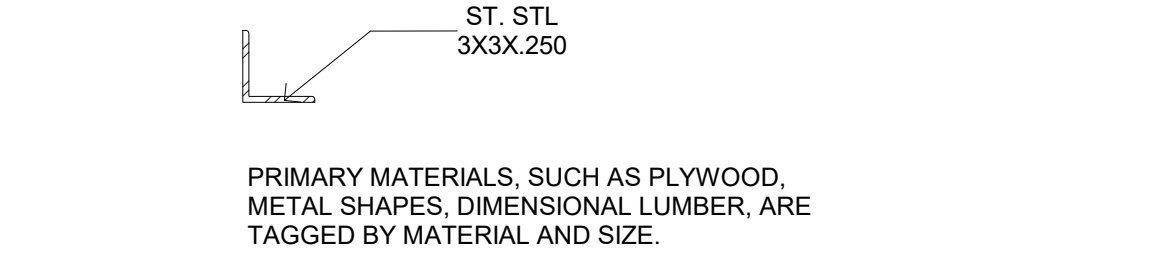
EPDM FLASHING
EPS
FERROUS METAL
FLASHING
FLOOR DRAIN
GALV. STL
GLASS
GWB
(E) ACT
GYM FLOOR
GYP. SHEATH.
HARDBOARD
MASONRY
MDF
METAL
METAL PANEL
METAL STUD
MORTAR NET
MTL STUD
MTL TRACK
NON-FERROUS METAL
P1750
P1843
PARALAM
PINE
PLY
PLYWOOD
POLYISO INSUL.
POLYISO. INSUL.
POROUS FILL
PTSP
PVC
(E) T1-11
RIGID INSULATION
SAND
SC-1
SEALANT
SHEET VINYL
SOLID SURFACE
SPF
ST. STL
STEEL
STEEL UNISTRUT
STL. BOLT
T&G FIR
THREADED ROD
TJI
UNDERLAYMENT
VAPOR BARRIER
WATER PIPE
WING NUT ANCHOR
WOOD
XPS

PROJECT MATERIALS
Material: Description

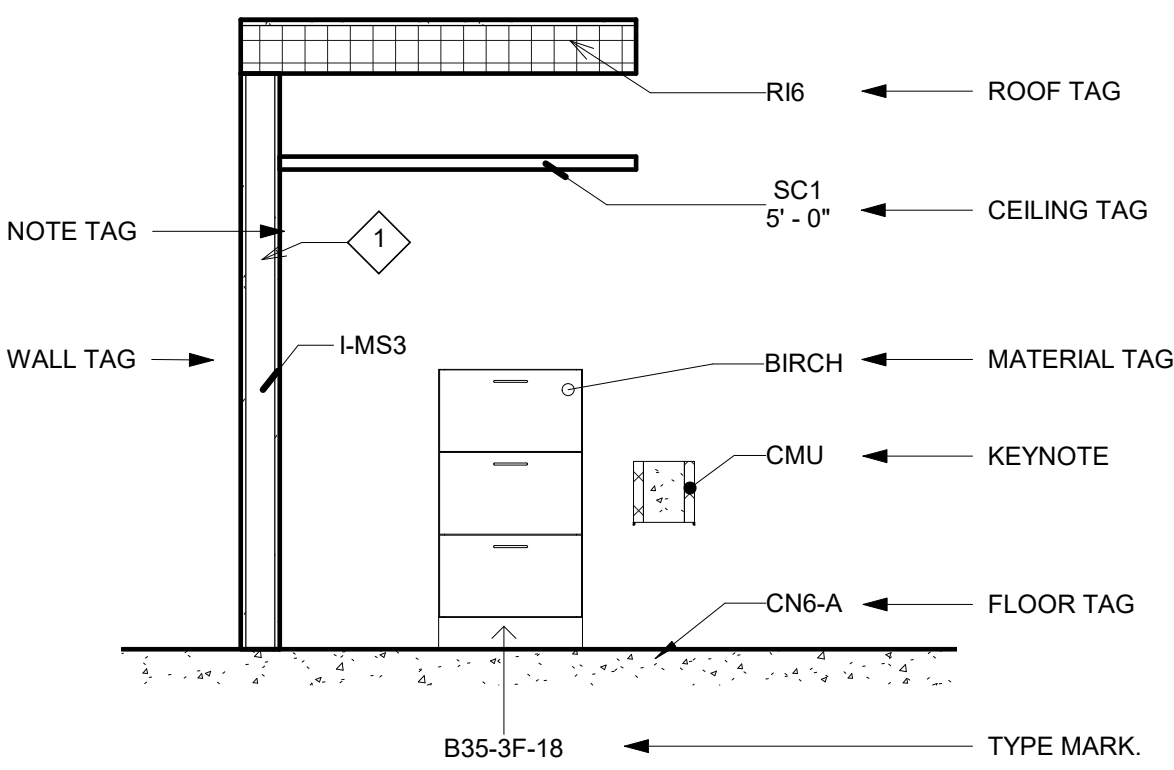
#2 SPF
(E) BRICK
(E) CMU
(E) FRAMING
(E) GWB
(E) GYP SHTHG
(E) MTL PNL
(E) MTL STUDS
(E) ANGLE
ASPHALT
BRICK
CARPET TILE
CFMF
CMU
CONCRETE
EPDM
FIB. CEM.
GLASS
GWB
GYP SHTHG
H.M
MDF
METAL STUDS
MTL. PANEL
MTL. PNL.
PLY
PLYWOOD
POLYISO. INSUL.
POROUS FILL
PORCELAIN
PVC
(E) T1-11
SHEET VINYL
SHINGLES
SHT MTL. PTD.
SPRAY POLYURETHANE
ST. STL
TECTUM
SOLID SURFACE
SPF
TEXTURED SHEET VINYL
URETHANE COMP.
VAPOR RETARDER
VINYL
VINYL TILE
XPS INSUL



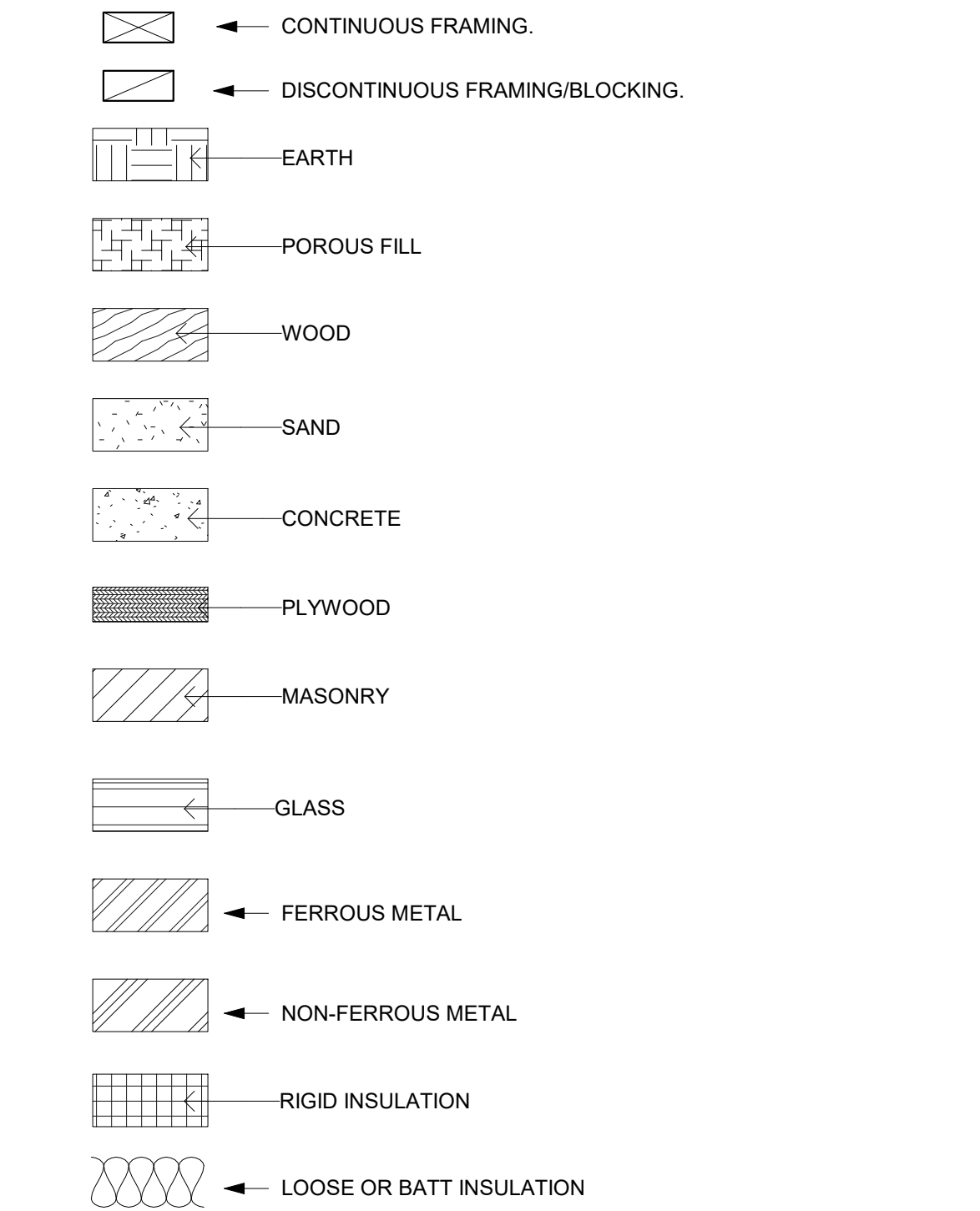
10 NEW/EXISTING DETAIL GRAPHICS
1 1/2" = 1'-0"



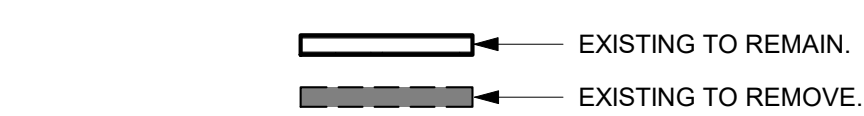
11 PRIMARY MATERIAL NOTING
1 1/2" = 1'-0"



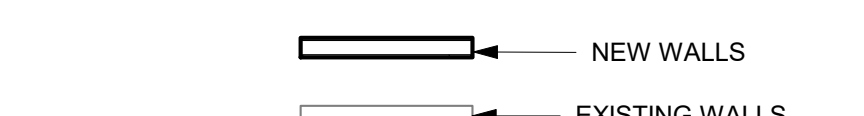
7 LEADER TYPES
1/2" = 1'-0"



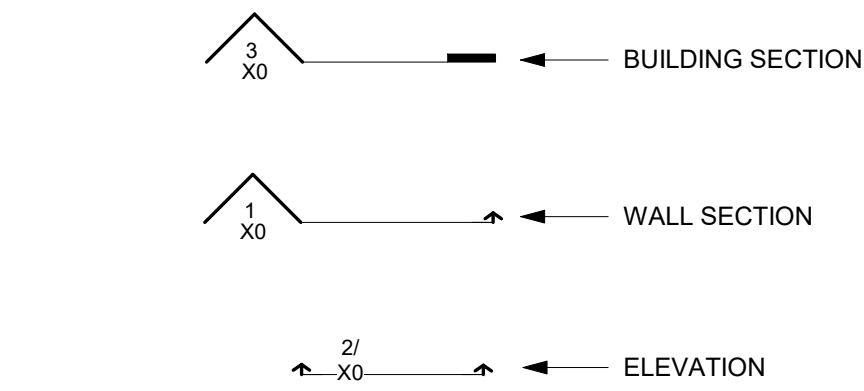
5 MATERIAL GRAPHICS
1 1/2" = 1'-0"



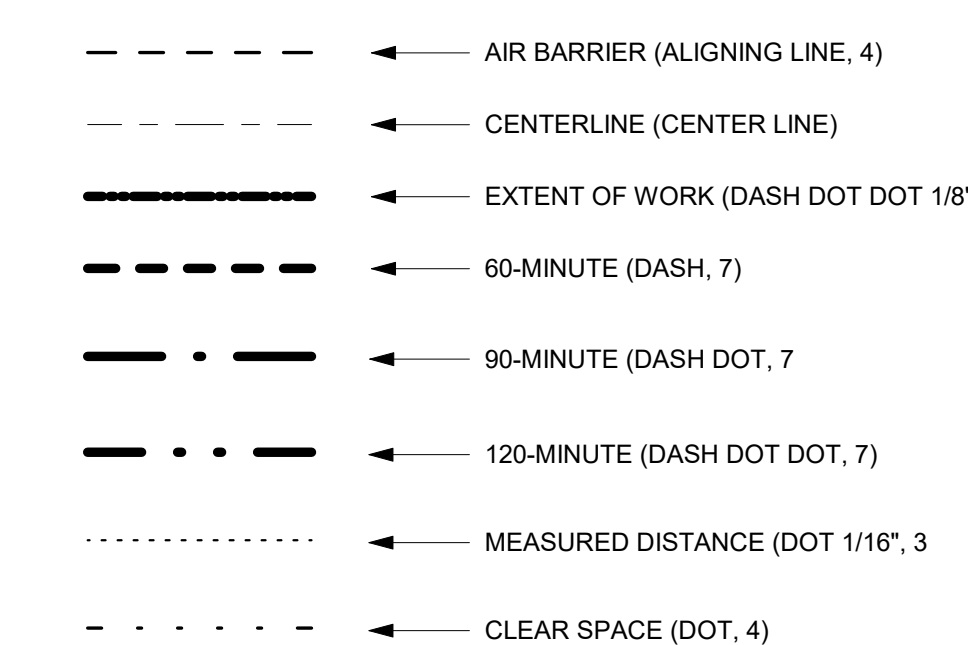
2 DEMOLITION WALL GRAPHICS
1/4" = 1'-0"



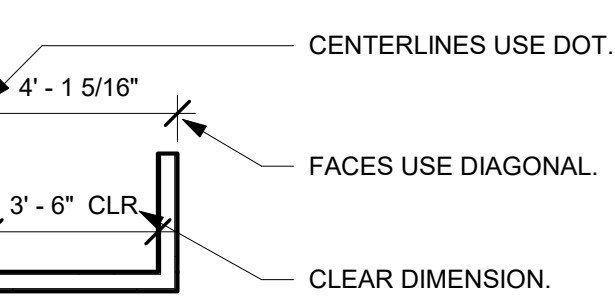
3 NEW CONSTRUCTION WALL GRAPHICS
1/4" = 1'-0"



4 VIEW TYPES
1/4" = 1'-0"



6 SPECIAL LINE STYLES
1/2" = 1'-0"



DIMENSIONS ARE TO FACE OF WALL FINISH UNLESS NOTED.

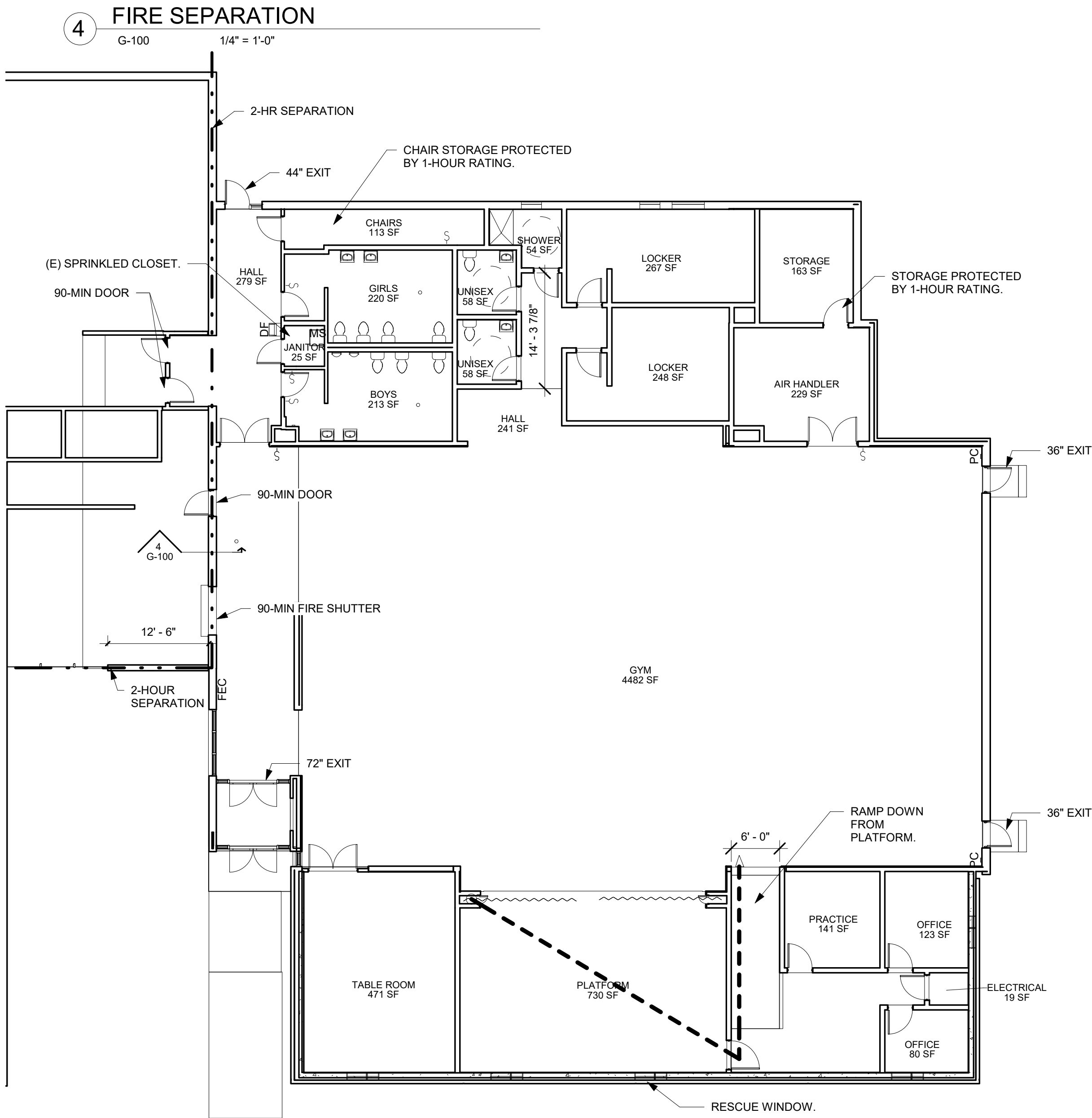
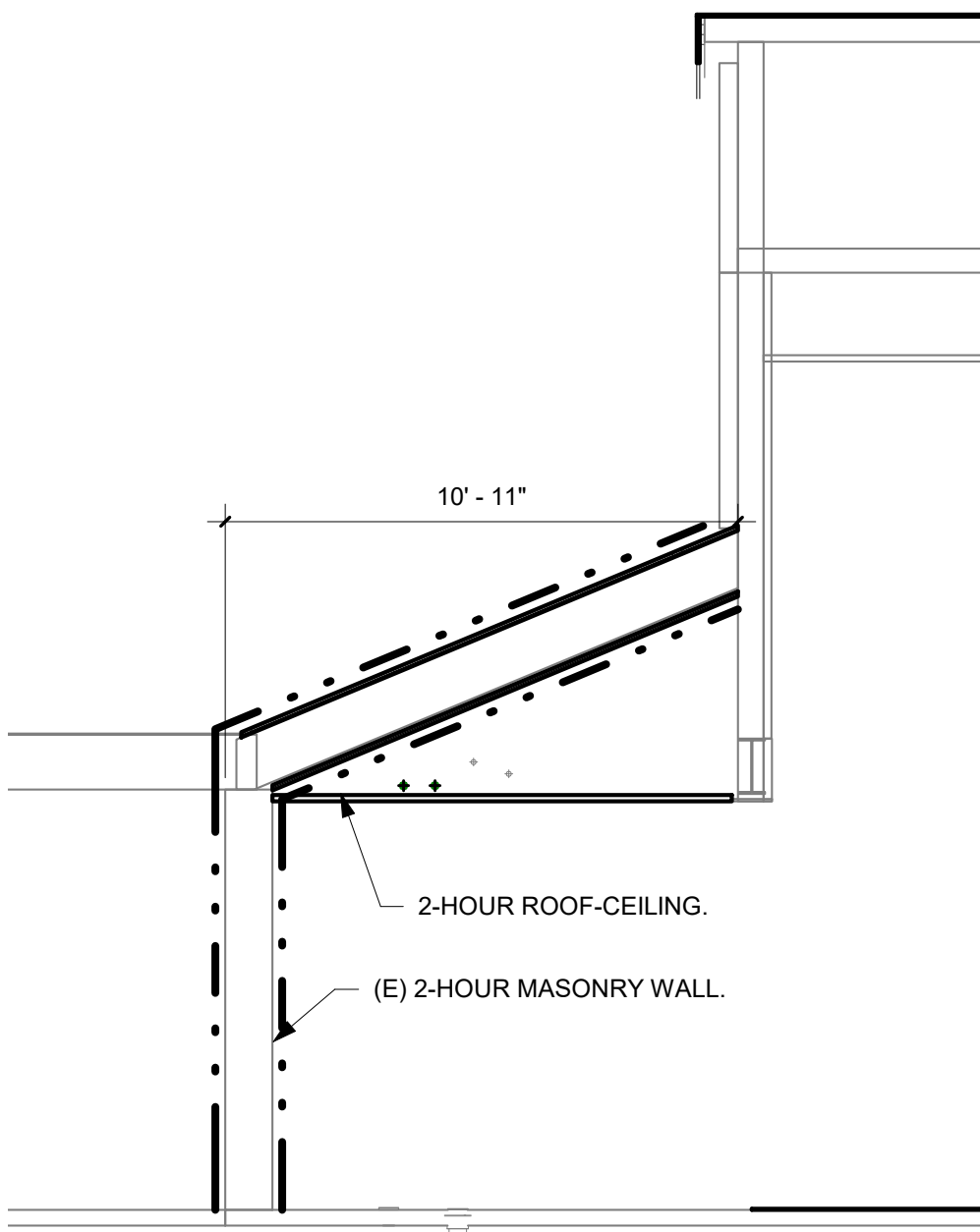
8 DIMENSION NOTES
1/4" = 1'-0"

ABBREVIATION MEANING
(E) EXISTING
(N) NEW
(P) PROTECT AND REINSTALL
(R) REMOVE
(S) SALVAGE
ACX PLYWOOD GRADE ACX
ADJ ADJUSTABLE
AFF ABOVE FINISH FLOOR
AHU AIR HANDLING UNIT
B.O. BOTTOM OF
BLDG BUILDING
BS* BACKING SYSTEM, SEE DETAILS.
C.L. CENTERLINE
CDX PLYWOOD GRADE CDX
CFMF COLD FORMED METAL FRAMING
CLG CEILING
CLO CLOSET
CLR CLEAR
CMP COMPOSITE METAL PANEL
CMU CONCRETE MASONRY UNIT
CONC CONCRETE
CONT CONTINUOUS
CP* CARPET
CPT* CARPET TILE
CTR CERAMIC TILE
CTS CENTER
CTSK COUNTERSINK
DATA DATA OUTLET
DBL DOUBLE
DIST DISTANCE
DUPLEX DUPLEX CONVENIENCE OUTLET
EIFS EXTERIOR INSULATION AND FINISH SYSTEM
EJ EXPANSION JOINT
EP* EXTERIOR PAINT
EPDM ETHYLENE PROPYLENE DIENE MONOMER
EQ EQUAL
ERU ENERGY RECOVERY UNIT
F.O... FACE OF
FA FIRE ALARM
FD FLOOR DRAIN
FON FOUNDATION
FE FIRE EXTINGUISHER
FEC FIRE EXTINGUISHER CABINET
FIN FINISH
FLR FLOOR
FSW FLOWING SEA WATER
FTG FOOTING
FTR FIN TUB RADIATOR
FU FURNACE UNIT
GA GAUGE
GALV GALVANIZED
GB* GRAB BAR
GFI GROUND FAULT INTERRUPT
GSM GALVANIZED SHEET METAL
GWB GYPSUM WALL BOARD
HB HOSE BIBB
HDWD HARDWOOD
HM HOLLOW METAL
HR HOUR
HR HOUR
IBC INTERNATIONAL BUILDING CODE
ID INSIDE DIAMETER
IF(O) INSIDE FACE (OF)
IP* INTERIOR PAINT
JAN. JANITOR
JBOX JUNCTION BOX
JT JOINT
LVL LAMINATED VENEER LUMBER
M/E/P MECHANICAL/ELECTRICAL/PLUMBING
MAX MAXIMUM
MB* MARKER BOARD
MDF MEDIUM DENSITY FIBERBOARD
MIN MINIMUM
MIN MINUTE
MJ MOVEMENT JOINT
MTD MOUNTED
NPFA NATIONAL FIRE PROTECTION ASSOCIATION
OA OVERALL
OC ON CENTER
OD OUTSIDE DIAMETER
OF(O) OUTSIDE FACE (OF)
OFCI OWNER FURNISHED CONTRACTOR INSTALLED
OFOI OWNER FURNISHED OWNER INSTALLED
OH OPPOSITE HAND
PEN PENETRATION
PERP PERPENDICULAR
PL PLASTIC LAMINATE
PLY PLYWOOD
PM POWER MONUMENT
PMD PLUG MOLD
PS* PROJECTION SCREEN
PSL PARALLEL STRAND LUMBER
QCO QUAD CONVENIENCE OUTLET
R.O. ROUGH OPENING
RB RUBBER BASE
RD ROOF DRAIN
RF* RESINOUS FLOOR
RF1* RESILIENT FLOOR TILE
RJ* REVEAL JOINT
RS* RESILIENT SHEET
RS* ROOM SIGN
RWL RAIN WATER LEADER
SC-* SUSPENDED CEILING
SD SHOWER DRAIN
SIM SIMILAR
SPLIT SPLIT DATA/PHONE JACK
ST STL STAINLESS STEEL
T.O... TOP OF
TB* TACK BOARD
TEL TELEPHONE
TGM* TEMPERED GLASS MIRROR
TPO THERMOPLASTIC POLYOLEFIN
TT TERRAZZO TILE
TYP TYPICAL
UON UNLESS OTHERWISE NOTED
UV UNIT VENTILATOR
WF* WOOD FLOORING
WO WHERE OCCURS
WRC WESTERN RED CEDAR
WS* WORK SURFACE
WT* WINDOW TREATMENT

1 ABBREVIATIONS
12" = 1'-0"

9 ASSEMBLY NAMING
12" = 1'-0"

00 OCCUPANT LOAD					
LEVEL	AREA	NAME	NUMBER	FEET PER PERSON	OCCUPANT LOAD
FLOOR 1	248 SF	LOCKER	119	0	
FLOOR 1	229 SF	AIR HANDLER	120	0	
FLOOR 1	163 SF	STORAGE	120A	0	
FLOOR 1	267 SF	LOCKER	118	0	
FLOOR 1	58 SF	UNISEX	116	0	
FLOOR 1	58 SF	UNISEX	115	0	
FLOOR 1	213 SF	BOYS	113	0	
FLOOR 1	220 SF	GIRLS	112	0	
FLOOR 1	241 SF	HALL	114	0	
FLOOR 1	4482 SF	GYM	100	7	640.353976
FLOOR 1	279 SF	HALL	110	0	
FLOOR 1	25 SF	JANITOR	121	0	
FLOOR 1	471 SF	TABLE ROOM	106	0	
FLOOR 1	54 SF	SHOWER	117	0	
FLOOR 1	113 SF	CHAIRS	111	0	
FLOOR 1	427 SF	HALL	123		
FLOOR 1	657 SF	KITCHEN	124		
PLATFORM	80 SF	OFFICE	104	100	0.799757
PLATFORM	141 SF	PRACTICE	102	20	7.026015
PLATFORM	123 SF	OFFICE	103	100	1.22816
PLATFORM	730 SF	PLATFORM	105	15	48.696935
PLATFORM	19 SF	ELECTRICAL	103A	0	
PLATFORM	205 SF	INSTRUMENTS	136		
PLATFORM	123 SF	HALL	101		
Grand total: 24				9627 SF	698.104842



3 FLOOR 1 LIFE SAFETY

A-401 3/32" = 1'-0"

NFPA 101-2009		
Chapter 14, New Educational Occupancies		
1.6	Minimum construction requirements	None.
1.7	According to Table 7.3.1.2	See occupant load table.
2.1.2	Rooms occupied by Pre-K/K/1	Building is single story
2.3.2	Minimum corridor width	6 feet at ramp
2.5.3.2	Common path of travel less than 75'	See egress path table
2.5.5	Intervening room	Travel distance from room to exit door is less than 75 feet. Hazardous materials not present. Gym has fire detection
2.6	Travel distance	Less than 150 feet
2.8	Means of egress illumination	Required
2.9	Emergency lighting	Required
2.11.1	Windows for rescue	Required in rooms greater than 250 square feet
3.2.1	Rooms or spaces for storage	Storage and janitor closet protected by 1-hour fire resistance rating
3.2.3	Platform	No construction requirements. No storage or access underneath.
3.3.2	Interior wall and ceiling finish	Class A at exits, Class and or B elsewhere.
3.3.3	Interior floor finish	Wood allowed at platform. Class II elsewhere.
3.4.2	Detection and Alarm systems	Manual pull stations required. Automatic detection required in gym (intervening room).
3.4.3	Notification	Automatic notification required.
3.5.1	Sprinkler required for buildings over 20,000 s.f	2-hour fire separation used to limit size to less than 20,000 s.f in area of work.
3.6	Corridors	Not applicable

2 EDUCATIONAL OCCUPANCY ANALYSIS

12" = 1'-0"

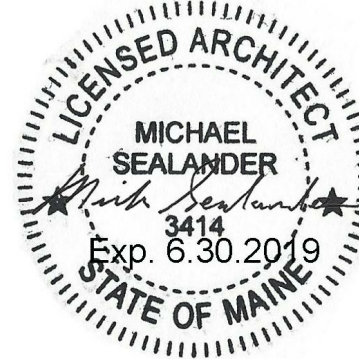
00 EGRESS PATHS		
TYPE	SEGMENT	DISTANCE
Path of Travel: 01 Start	PATH 1A	38' - 7 7/16"
Path of Travel: 03 End	PATH 1B	23' - 9 13/16"
Grand total: 2		62' - 5 1/4"

Nominal	Actual	Quantity	Load Factor	Occupants
36-inch doors	34	2	0.2	340
44-inch	42	1	0.2	210
72-inch	70.5	1	0.2	352.5
Total				902.5

1 EXIT DOOR CAPACITY

12" = 1'-0"

SEALANDER ARCHITECTS
79 Main Street, Suite C
Ellsworth ME 04605
207.266.5822



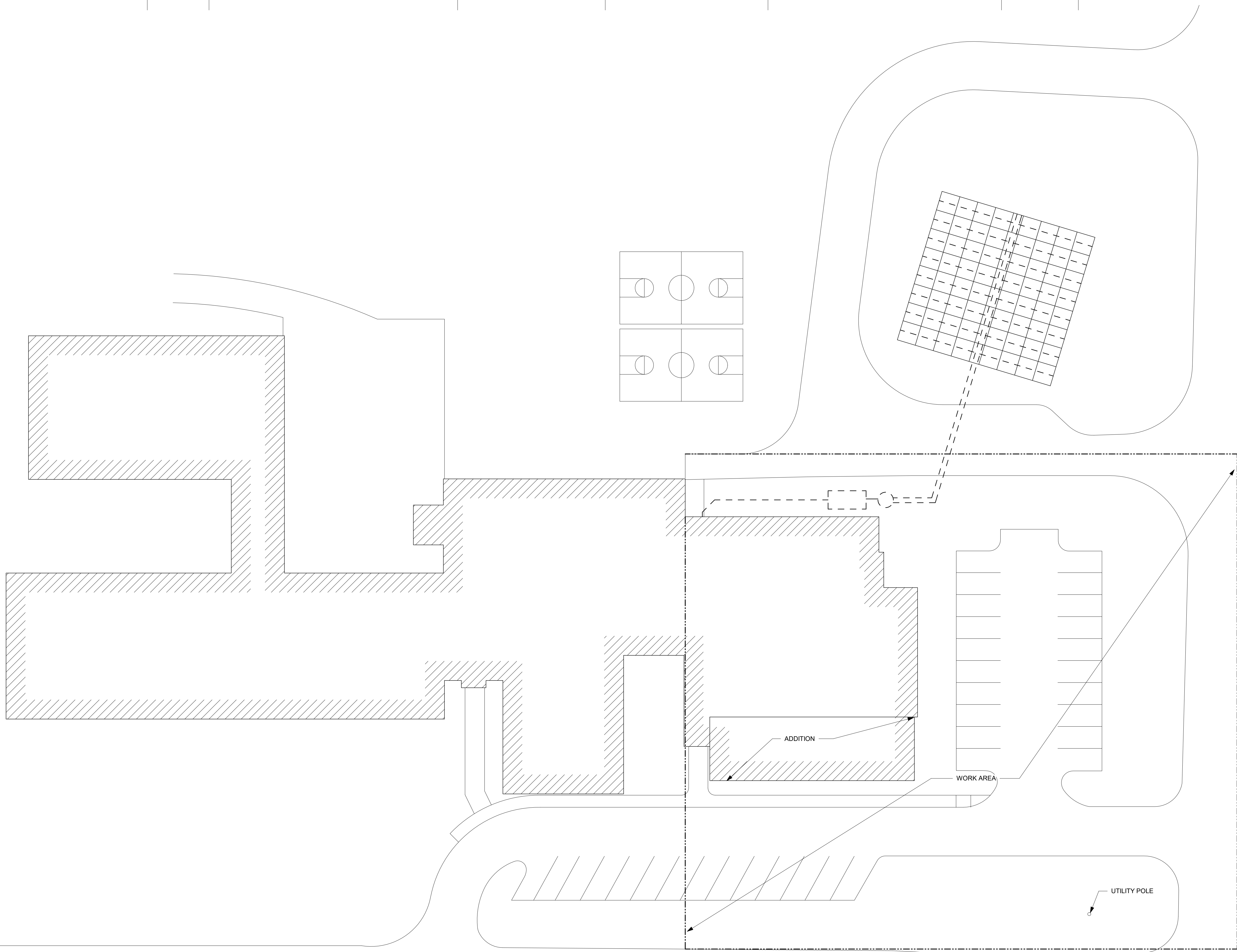
RSU 18

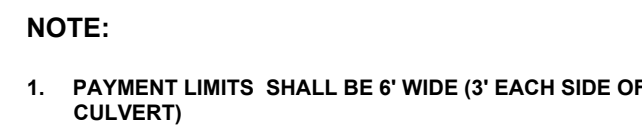
CHINA MIDDLE SCHOOL ADDITION

BIDDING
8 APR 2019
4/8/2019 9:14:32 AM

CODE ANALYSIS

G-100





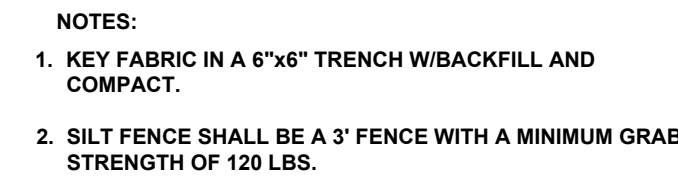
N.T.S.



N.T.S



N.T.S.



N.T.S.



1. CATCH BASIN PROTECTION TO BE "SILTSTACK" BY ACF ENVIRONMENTAL OR APPROVED EQUAL.
2. INSPECT INSERT AFTER EACH RAINFALL EVENT. MAINTAIN AS REQUIRED.
3. SEDIMENT WITHIN INSERT SHALL BE EMPTIED WHEN 1/2 FULL.

N.T.S

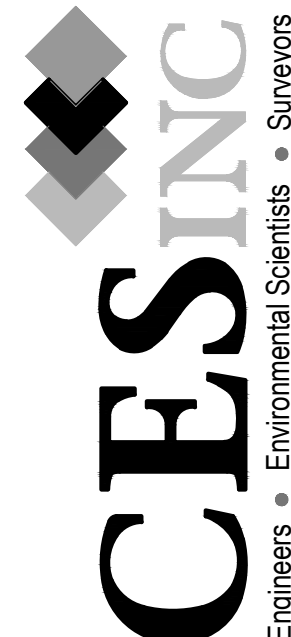


N.T.S



1. BASE PLAN IS A SITE PLAN DRAWING BY PLYMOUTH ENGINEERING, DATED, JULY 21, 1998.
2. EXISTING TOPOGRAPHY FROM SITE PLAN BY REA ASSOCIATES / ARCHITECTS DATED AUGUST 9, 1985.
INFORMATION FIELD VERIFIED BY CES, INC. ON MARCH 25, 2019.

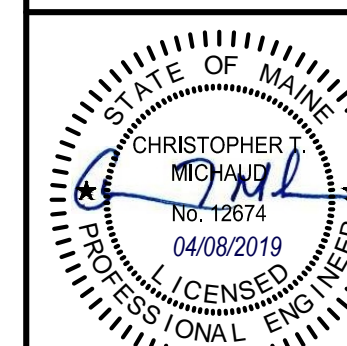
(IN FEET)
1 inch = 20 ft.

[illegible]

CHINA MIDDLE SCHOOL
CHINA, MAINE

PROPOSED SITE PLAN

27			
28			
29			
30			
31			

ISSUED FOR BID

SCALE	1"=20'	
DATE	2019-04-08	
DRAWN BY	WAB	CHECKED BY
DESIGNED BY	CTM	APPROVED BY
JOB NUMBER	11395.002	
DRAWING NUMBER		

C101

GENERAL NOTES

1. THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
2. EDITIONS OF MATERIAL STANDARDS REFERENCED ON THIS DRAWING SHALL BE AS INDICATED IN THE BUILDING CODES.
4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER PROJECT DRAWINGS AND SPECIFICATIONS. CONSULT ALL OTHER PROJECT DOCUMENTS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
5. ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE EFFECTED PART OF THE WORK. EXISTING CONDITION INFORMATION SHOWN IN THE DRAWINGS ARE BASED ON "CHINA MIDDLE SCHOOL, ADDITIONS AND ALTERATIONS, SCHOOL UNION #52", BY REAASSOCIATES ARCHITECTS, DATED 1985. ALL CONDITIONS TO BE V.I.F.
6. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER RESERVES THE RIGHT TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS.
7. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
8. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE STRUCTURAL DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIE-DOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
9. REFERENCE THE PROJECT SPECIFICATIONS FOR SUBMITTAL AND TESTING REQUIREMENTS.

DESIGN LOADS

1. BUILDING CODE:
MAINE UNIFORM BUILDING AND ENERGY CODE
INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION
INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2015 EDITION
ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, RISK CATEGORY III
2. DESIGN FLOOR LIVE LOADS:
ROOF
SCHOOL-CLASSROOM
SCHOOL-FIRST FLOOR CORRIDOR
STAIR & EXITS WAY
LIVE LOAD HAVE BEEN REDUCED WHERE ALLOWED IN ACCORDANCE WITH IBC 2015 SECTION 1607.10 AND ASCE 7-10 SECTION 4.7.
3. DESIGN ROOF SNOW LOAD:
GROUND SNOW LOAD (Pg):
SNOW EXPOSURE FACTOR (Ce):
SNOW LOAD IMPORTANCE FACTOR (Is):
SNOW LOAD THERMAL FACTOR (Ct):
FLAT ROOF SNOW LOAD (Pi):
4. DESIGN WIND LOAD:
ULTIMATE DESIGN WIND SPEED (VULT):
NOMINAL DESIGN WIND SPEED (VASD):
WIND EXPOSURE:
INTERNAL PRESSURE COEFFICIENT:
COMPONENTS & CLADDING PER ASCE 7-10
5. DESIGN SEISMIC LOADS:
EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC IMPORTANCE FACTOR (IE):
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
SEISMIC SITE CLASS:
SPECTRAL RESPONSE COEFFICIENTS:
SEISMIC DESIGN CATEGORY:
BASIC STRUCTURAL SYSTEM:
BEARING WALL SYSTEM
BASIC SEISMIC FORCE RESISTING SYSTEM:
LIGHT-FRAMED SHEAR WALL (COLD-FORMED STEEL OR WOOD)
SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
RESPONSE MODIFICATION FACTOR (R):
SEISMIC RESPONSE COEFFICIENT (CS):
SEISMIC BASE SHEAR (V):
6. EXISTING BUILDING:
HORIZONTAL ADDITION STRUCTURALLY ATTACHED ALTERATION LEVEL 2. LATERAL SYSTEM:
ADDITION IS SELF SUPPORTING: WOOD SHEAR WALL.
EXISTING BUILDING: IN MOST LOCATIONS THE LATERAL SYSTEM IS NOT MODIFIED. AT GRIDLINE 1 THE WALL IS REINFORCED TO RESIST REDUCED IBC LEVEL LOADS (LIGHT FRAME SHEAR WALL/COLD FORM STEEL)
SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE.

FOUNDATION NOTES

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REPORT ENTITLED "EXPLORATIONS AND GEOTECHNICAL ENGINEERING SERVICES, PROPOSED GYMNASIUM RENOVATION & ADDITION, 773 LAKEVIEW DRIVE, CHINA, MAINE". PREPARED S.W. COLE ENGINEERING, INC. DATED 02/13/2019. THE RECOMMENDATIONS OF THE REPORT ARE PART OF THIS WORK. REFER TO THIS REPORT FOR SPECIFIC RECOMMENDATIONS.
2. FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON SUITABLE UNDISTURBED NATIVE SOILS AND/OR NEW COMPACTED STRUCTURAL FILL EXTENDING TO UNDISTURBED NATIVE SOIL. PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. REFER TO THIS REPORT FOR SPECIFIC BEARING RECOMMENDATIONS.
3. ALLOWABLE BEARING CAPACITY 4,500 PSF
4. EXTEND BOTTOM OF EXTERIOR FOOTINGS AT LEAST 5 FEET BELOW THE FINAL EXTERIOR GRADE FOR PROTECTION AGAINST FROST.
5. NO FILL FOR BUILDING SUPPORT SHALL BE PLACED UNTIL SUBGRADES HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
6. REFERENCE THE GEOTECHNICAL REPORT FOR ALL EXCAVATION, BACKFILL, COMPACTION, CONSTRUCTION DEWATERING AND PERMANENT DRAINAGE REQUIREMENTS.
7. SOILS EXPOSED AT THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHALL BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHALL BE ADEQUATELY PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. GROUNDWATER SHOULD BE ANTICIPATED FOR EXCAVATIONS AND APPROPRIATE DEWATERING MEASURES SHALL BE EMPLOYED.
8. EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. BRACED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE. DO NOT UNDERMINE EXISTING FOUNDATIONS OF ANY ADJACENT STRUCTURES. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL AND/OR MORE SPECIFIC REQUIREMENTS.

CONCRETE NOTES

1. CONCRETE WORK SHALL CONFORM TO THE ACI "MANUAL OF CONCRETE PRACTICE," INCLUDING BUT NOT LIMITED TO ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE."
2. CONCRETE FOUNDATIONS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,500 PSI. CONCRETE SLABS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. EXTERIOR SLAB-ON-GRADE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI. ADDITIONAL CONCRETE MIX PERFORMANCE DATA INCLUDING AIR CONTENT, WATER-CEMENT RATIO, AGGREGATE SIZE, SLUMP, ETC. HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
4. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH ACI 315.
5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE PROVIDED IN FLAT SHEETS, LAP TWO SQUARES AT ALL JOINTS AND TIE AT 3'-0" ON CENTER.
6. FIBER REINFORCEMENT SHALL BE TYPE II SYNTHETIC VIRGIN HOMOPOLYMER POLYPROPYLENE FIBERS CONFORMING TO ASTM C1116.
7. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
A. SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH, 3"
B. FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER:
#5 BARS AND SMALLER, 1 1/2"
#6 THROUGH #11 BARS, 2"
C. SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER:
WALLS, SLABS, AND JOISTS #11 AND SMALLER, 1"
BEAMS, GIRDBERS, AND COLUMNS: ALL REINFORCEMENT, 1 1/2"
8. REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS. SEE SCHEDULE FOR REQUIRED REBAR LAP SPICE LENGTHS.
9. WELDING OF REINFORCEMENT IS NOT PERMITTED, UNLESS SPECIFICALLY INDICATED.
10. CONSTRUCTION AND CONTRACTION JOINTS SHOWN ON DRAWINGS ARE MANDATORY. OMISSIONS, ADDITIONS, OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMITTAL OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER. WHERE JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTRACTION JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE BEAMS/GRADE BEAMS SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR, UNLESS NOTED OTHERWISE.
11. SPACING OF CONSTRUCTION OR CONTRACTION JOINTS, UNLESS NOTED OTHERWISE SHALL BE AS FOLLOWS:
A. FOOTINGS AND WALLS:
MAX SPACING OF 40'-0" OR 15'-0" FROM ANY CORNER. A MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS. COORDINATE JOINT LOCATIONS WITH VENEER CONTROL JOINT LOCATIONS WHEREVER POSSIBLE.
B. SLABS ON GRADE
MAX SPACING IN EACH DIRECTION OF 36xSLAB DEPTH. LIMIT PLAN ASPECT RATIOS TO 1.5.
12. ANCHOR RODS FOR STRUCTURAL STEEL ATTACHMENTS SHALL BE HEADED RODS CONFORMING TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL, UNLESS NOTED OTHERWISE ON DRAWINGS. ANCHOR RODS FOR ATTACHMENT OF SILL PLATES SHALL BE A307, UNLESS NOTED OTHERWISE ON THE DRAWINGS. ANCHOR RODS THAT ARE TO BE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED.
13. ALL GROUT BENEATH BASE PLATES & BEARING PLATES SHALL BE 5000-PSI (MIN) NON-SHRINK GROUT.
14. SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTIONS, SUBGRADES, AND TO OBTAIN THE SPECIFIED SLAB ELEVATION AT THE FLATNESS AND LEVELNESS INDICATED.
15. PROVIDE A 15-MIL POLYOLEFIN VAPOR RETARDER MEETING THE REQUIREMENTS OF ASTM E1745 CLASS A OVER PREPARED SUB BASE (U.N.O.). REFERENCE ARCHITECTURAL DRAWINGS AND GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS AND VAPOR RETARDER LOCATIONS.
16. FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN IN THE TYPICAL DETAILS.
17. PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE OR SLABS CAST ON GRADE. ADJACENT SLEEVES SHALL BE SPACED A MINIMUM OF THREE DIAMETERS APART. NO PENETRATIONS SHALL BE MADE THROUGH FOOTINGS WITHOUT WRITTEN PERMISSION FROM ENGINEER.
18. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION OF REINFORCEMENT.
19. ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITIONS OF EMBEDMENTS. "WET SETTING" OF EMBEDMENTS INTO CONCRETE IS STRICTLY PROHIBITED. EMBEDMENTS INCLUDE, BUT NOT BY LIMITATION, REINFORCEMENT, REINFORCING DOWELS, EMBEDDED PLATES, ANCHOR RODS, ANCHOR INSERTS, SLEEVES, LOAD TRANSFER PLATES, DIAMOND DOWELS, AND SHELF BULK HEADS.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL DESIGN, DETAIL, FABRICATION, AND ERECTION SHALL CONFORM TO ANSI/AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND TO ANSI/AISC303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
2. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
A. STEEL PLATES, SHAPES, AND BARS: ASTM A36
B. WIDE-FLANGE SECTIONS: ASTM A992
C. HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500 GR. C
D. PIPES: ASTM A53 GR. B
3. BOLTED CONNECTIONS SHALL USE 3/4" ASTM F3125, GRADE A325, HIGH STRENGTH BOLTS (U.N.O.), EXCEPT WHERE SLIP CRITICAL CONNECTIONS ARE REQUIRED AND NOTED BY (SC) ON THE DRAWINGS OR AS REQUIRED BY CONNECTION DESIGN.
4. ALL WELDING SHALL CONFORM TO AWS D1.1. ELECTRODES SHALL CONFORM TO AWS A5.1 E70XX SERIES (U.N.O.) WITH PROPER ROD TO PRODUCE OPTIMUM WELD (LOW HYDROGEN).
5. SEE CONCRETE NOTES AND DRAWINGS FOR ANCHOR BOLT INFORMATION.
6. PROVIDE 1/4" THICK LEVELING PLATE AND 3/4" ± OF NON SHRINK GROUT UNDER ALL COLUMN BASE PLATES (U.N.O.). LEVELING PLATES SHALL BE SET AND GROUTED PRIOR TO ERECTING COLUMNS. LEVELING NUTS MAY BE USED AS AN ALTERNATE PROVIDED BASEPLATES ARE SHIMMED IN ACCORDANCE WITH AISC SPECIFICATIONS UNTIL SUCH TIME AS THE BASEPLATE IS GROUTED.
7. PROVIDE 3/8" MINIMUM STIFFENER PLATES EACH SIDE OF BEAM WEB AT BEAMS FRAMING OVER COLUMNS AND AT BEAMS SUPPORTING COLUMNS ABOVE.
8. PROVIDE L 4 x 4 x 1/4 DECK SUPPORT ANGLE AS REQUIRED AT COLUMNS WHERE STRUCTURAL MEMBERS DO NOT FRAME IN AT ALL FOUR SIDES.
9. COAT ALL COLUMNS, BASEPLATES, AND BRACE ELEMENTS ENCASED IN CONCRETE OR BELOW GRADE WITH BITUMINOUS MASTIC ON TNMEC H.B. TNMECOL (46-465) COAL TAR PAINT (U.N.O.).
10. PROVIDE ALL MISCELLANEOUS ANGLES, PLATES, ANCHOR BOLTS, ETC. SHOWN ON ARCHITECTURAL DRAWINGS. COORDINATE WITH MISCELLANEOUS METAL FABRICATOR TO ENSURE COMPLETE COVERAGE OF ALL ITEMS.
11. ALL STAIR STRUCTURES AND RAILING ASSEMBLIES SHALL BE DESIGNED BY A SPECIALTY ENGINEER ENGAGED BY THE FABRICATOR. ALL DESIGNS SHALL MEET THE REQUIREMENTS OF THE INDICATED BUILDING CODE. COORDINATE ALL DETAILS WITH THE ARCHITECTURAL DRAWINGS AND SUBMIT COMPLETE FABRICATION DRAWINGS WITH ALL NECESSARY SUPPORTING ENGINEERING CALCULATIONS FOR REVIEW. DRAWINGS AND CALCULATIONS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE.

WOOD FRAMING NOTES

1. WOOD FRAMING WORK SHALL CONFORM TO THE AF&PA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) AND WOOD SHEATHING WORK SHALL TO CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA).
2. DIMENSIONAL LUMBER: NO. 2 GRADE OR BETTER SPRUCE-PINE-FIR (SPF); NGLA GRADED. NELMA GRADED SPF-S WILL NOT BE ACCEPTED AS AN EQUAL SUBSTITUTE. KILN-DRIED OR SEASONED TO 19% MAXIMUM MOISTURE CONTENT.
3. STRUCTURAL COMPOSITE LUMBER: LAMINATED VENEER LUMBER (LVL), PARALLEL STRAND LUMBER (PSL), AND LAMINATED STRAND LUMBER (LSL) BY WEYERHAEUSER, BOISE, OR APPROVED PRODUCTS (SUBMIT DATA). INSTALLATION AND FASTENING OF PLIES ACCORDING TO MANUFACTURER'S DETAILS.
- BEAMS AND HEADERS (LVL & PSL):
MODULUS OF ELASTICITY (E) = 2,000,000 PSI (MIN)
ALLOWABLE BENDING STRESS (Fb) = 2,600 PSI (MIN)
ALLOWABLE SHEAR STRESS (Fv) = 285 PSI (MIN)
- POSTS AND COLUMNS (LVL & PSL):
E = 1,800,000 PSI (MIN)
Fb = 2,400 PSI (MIN)
Fv = 190 PSI (MIN)
4. I-JOISTS AND RIM BOARD FRAMING SYSTEM: MANUFACTURED BY WEYERHAEUSER (TJI), BOISE (BCI), OR APPROVED PRODUCTS (SUBMIT DATA). INSTALLATION AND FASTENING ACCORDING TO MANUFACTURER'S DETAILS.
5. PRESERVATIVE TREATED (PT) LUMBER: NO. 2 GRADE OR BETTER SOUTHERN PINE (SP OR SYP) TREATED WITH MICRONIZED COPPER AZOLE (MCA) OR ALKALINE COPPER QUATERNARY (ACQ). MCA & ACQ PRESERVATIVE CONTENT: 0.15 PCF. USE ONLY HOT-DIP GALVANIZED OR STAINLESS STEEL NAILS AND FASTENERS, OR COATED FASTENERS APPROVED FOR USE IN PT LUMBER AND EXTERIOR APPLICATION.
6. SHEATHING & SUBFLOOR: PLYWOOD OR OSB WOOD STRUCTURAL PANELS STAMPED RATED SHEATHING. EXPOSURE 1. APPLY SHEATHING WITH LONG EDGES AND FACE GRAIN PERPENDICULAR TO FRAMING.
- FLOORS: 3/4 INCH NOMINAL TONGUE & GROOVE (T&G) GLUED TO ALL FRAMING AND USE RING SHANK OR ANNULAR NAILS.
ROOFS: 5/8 INCH NOMINAL. USE T&G FOR 24" O.C. FRAMING.
WALLS: 1/2 INCH NOMINAL.
- NAIL SHEATHING AND SUBFLOOR TO ALL FRAMING AND BLOCKING USING GALVANIZED 8d BOX NAILS 0.113x2 3/8" (MIN) OR BRIGHT 8d COMMON NAILS 0.131x2 1/2" (MIN) AS FOLLOWS:
- FLOORS: 6" O.C. PANEL EDGES, 12" O.C. WITHIN PANELS.
ROOFS: 4" O.C. PANEL EDGES, 8" O.C. WITHIN PANELS.
WALLS: 6" O.C. PANEL EDGES, 12" O.C. WITHIN PANELS (SEE SHEAR WALL SECTIONS AND SCHEDULE FOR NAILING REQUIREMENTS)
7. NAIL BUILT-UP LUMBER BEAMS, HEADERS, AND POSTS AS FOLLOWS:
BEAMS AND HEADERS: (3) ROWS 12d BOX NAILS (0.128x3 1/4" MIN) @ 12" O.C. IN EACH PIECE.
POSTS AND COLUMNS: (2) ROWS 12d BOX NAILS @ 8" O.C. IN EACH PIECE.
8. FASTENING NOT SPECIFIED IN THESE NOTES OR ON THE DRAWINGS SHALL CONFORM TO THE FASTENING SCHEDULE AND TABLES IN IBC OR IRC CODES AS REQUIRED BY THE PROJECT TYPE. FASTENERS SHALL CONFORM TO:
- NAILS: ASTM F1687
THROUGH BOLTS: ANSI B18.2.1 WITH HEX HEAD & NUT AND WASHER AGAINST WOOD.
LAG SCREWS: ANSI B18.2.1 WITH HEX HEAD & WASHER.
- HOLE FOR BOLT OR LAG SCREW TO BE 1/32" TO 1/16" LARGER IN DIAMETER THAN BOLT OR LAG SCREW SHANK. LEAD HOLE FOR LAG SCREW THREADS:
- A. 60% TO 75% OF SHANK DIAMETER FOR SP OR SYP, LVL & PSL
B. 40% TO 70% OF SHANK DIAMETER FOR SPF.
9. ALL WOOD FRAMING CONNECTION HARDWARE (JOIST HANGERS, POST BASES, SHEARWALL HOLDDOWNS, ETC) TO BE MANUFACTURED BY SIMPSON STRONG-TIE, OR APPROVED EQUAL (SUBMIT DATA). ALL CONNECTION HARDWARE SHALL BE ZINC COATED G-90 (MIN). CONNECTION HARDWARE USED WITH PRESERVATIVE TREATED LUMBER (PT) AND/OR EXTERIOR APPLICATION SHALL BE GALVANIZED G185 (ZMAX). USE FASTENERS OF SAME MATERIAL & COATING AS CONNECTOR AS SPECIFIED BY MANUFACTURER. REFER TO MANUFACTURER'S LITERATURE FOR PROPER CONNECTOR HANDLING AND INSTALLATION GUIDELINES.
10. FASTENERS USED WITH PT LUMBER AND EXTERIOR EXPOSED FRAMING (OTHER THAN THOSE IN SIMPSON OR EQUAL CONNECTORS) SHALL BE HOT-DIPPED GALVANIZED INCLUDING NUTS AND WASHERS (ASTM A153).
11. LOAD BEARING STUD WALLS CAPPED WITH DOUBLE TOP PLATES HAVING END JOINTS OFFSET OVERLAPPED 4'-0" (MIN) AND NAILED WITH (12) 10d OR 12d SPACED @ 8" O.C. OVERLAP TOP PLATES AT CORNERS AND INTERSECTIONS AND NAIL WITH (4) 10d OR 12d.
12. PROVIDE BLOCKING UNDER POSTS MATCHING SIZE OF POST. PROVIDE POST OF MATCHING MATERIAL AND SIZE UNDERNEATH POST & BLOCKING WHERE ABOVE A STUD WALL (U.N.O.).
13. HOLES IN FRAMING FOR ELECTRICAL, PLUMBING, HEATING, AND MECHANICAL COMPONENTS MUST MEET THE GUIDELINES AND REQUIREMENTS IN THE IBC AND IRC CODES FOR LUMBER. HOLES IN LVL, PSL, LSL, AND I-JOISTS MUST MEET THE GUIDELINES AND REQUIREMENTS OF THE MANUFACTURER.

COMPONENTS & CLADDING NET WIND PRESSURES (PSF)

TRIB AREA (SQ. FT.)	GABLE ROOF 4:12 SLOPE									
	ROOF ZONE 1		ROOF ZONE 2		ROOF ZONE 3		WALL ZONE 4		WALL ZONE 5	
10	14.9	-23.9	14.9	-41.3	14.9	-61	25.9	-28.1	25.9	-34.7
50	11.9	-22.2	11.9	-33.6	11.9	-51.8	23.2	-25.4	23.2	-29.3
100	10.5	-24.5	10.5	-30.3	10.5	-47.9	22	-24.2	22	-24.5

REFERENCE: ASCE 7-10, FIGURE 30.5-1
ROOF TYPE: GABLE ROOF
a=10FT



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RSU 18

CHINA MIDDLE SCHOOL GYM ADDITION

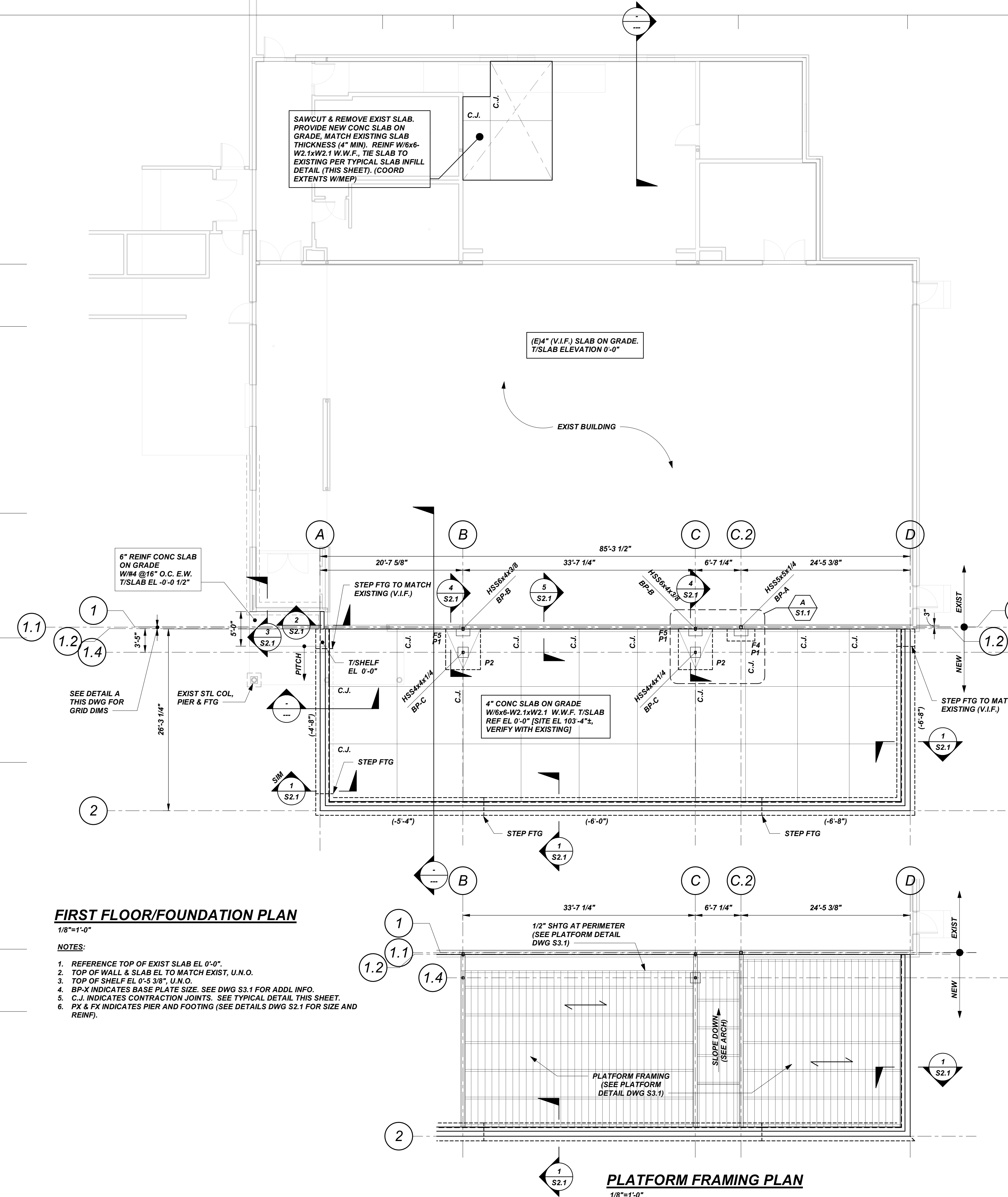
BID DOCUMENTS

04/08/2019

BSE PROJ: 4439

GENERAL NOTES

S1.0

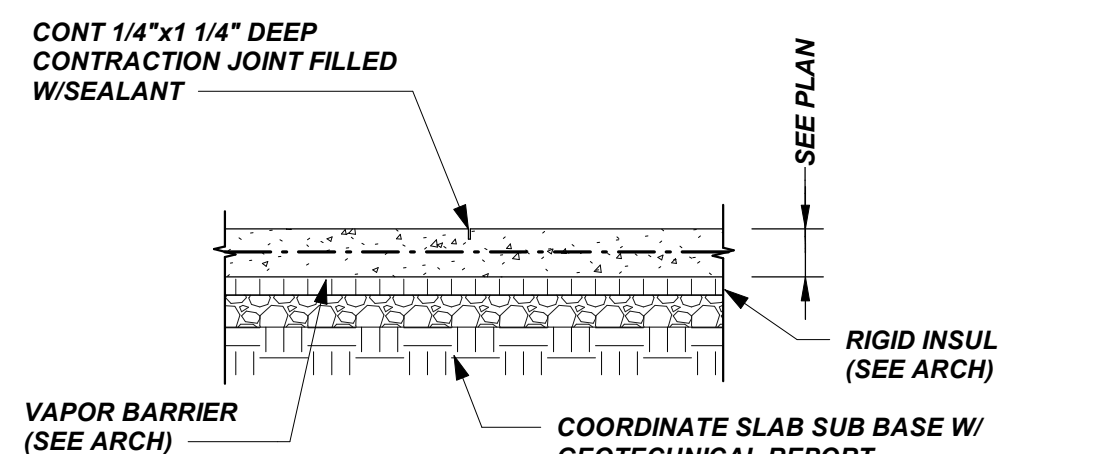
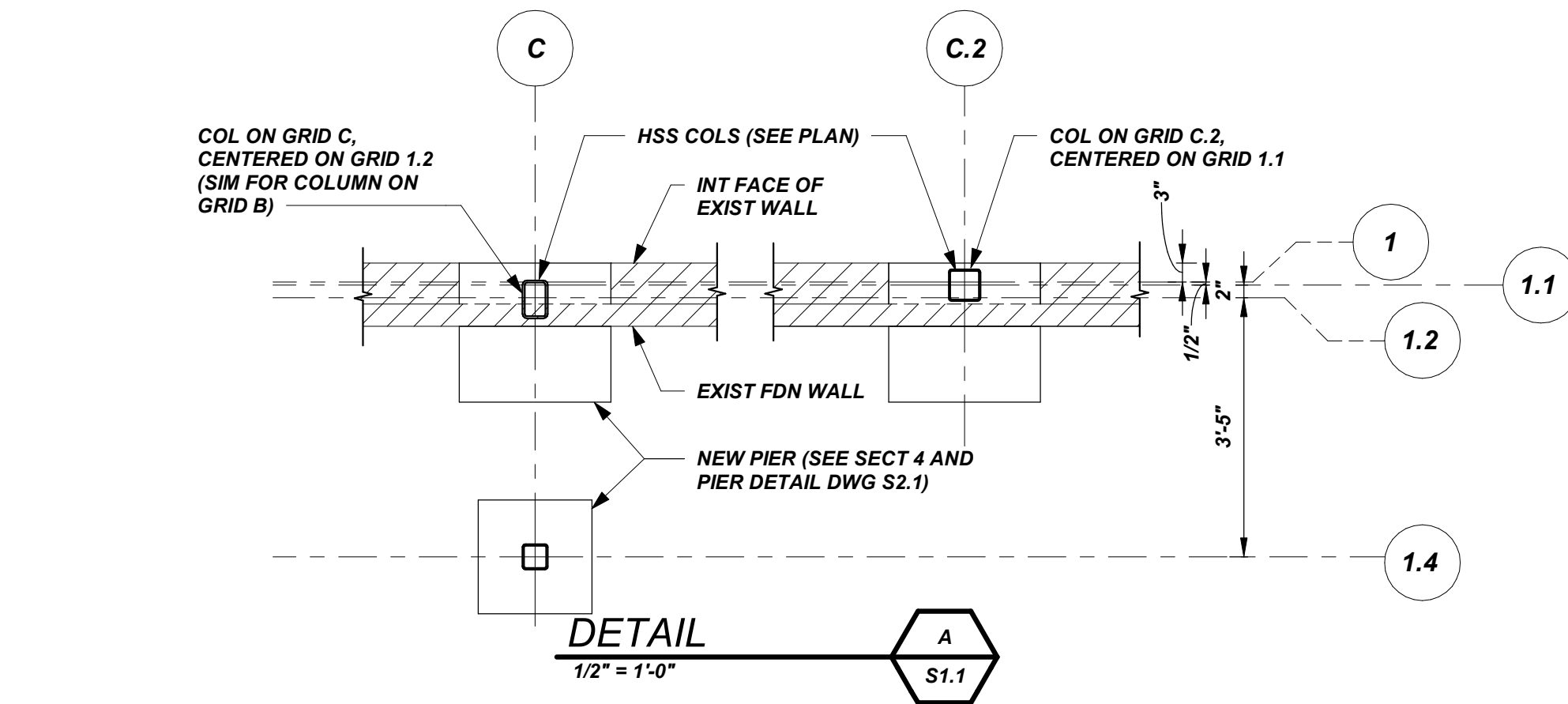


PLATFORM FRAMING PLAN

1/8"=1'-0"

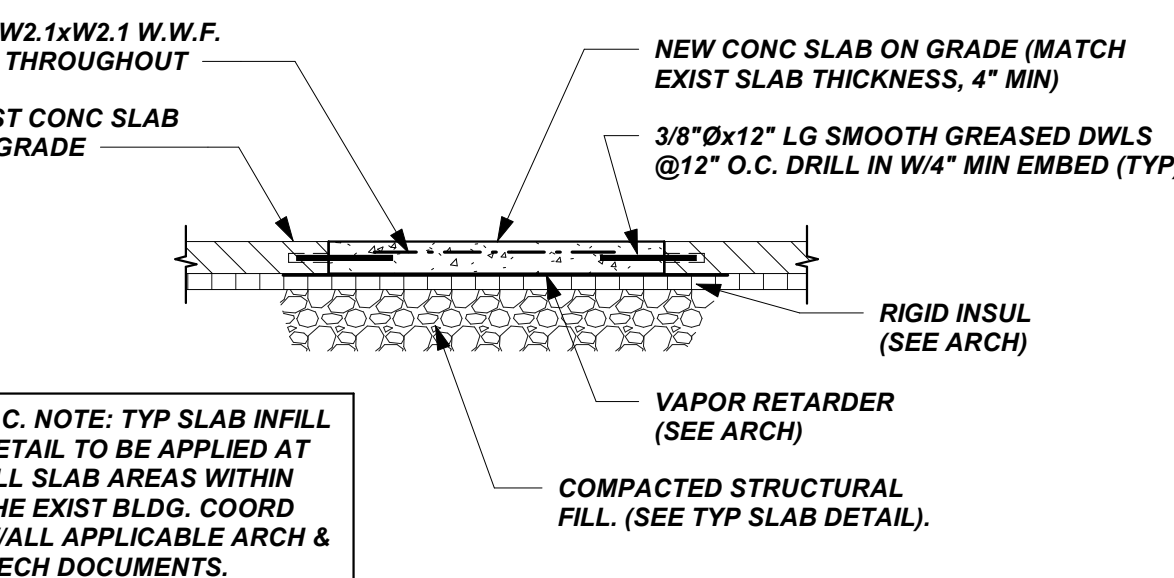
NOTES:

- INDICATES SPAN DIRECTION OF 3/4" SHEATHING (GLUED & NAILED) AT PLATFORM. TOP OF SHEATHING ELEVATION SEE ARCH.
- SEE ARCH FOR PLATFORM DIMENSIONS.



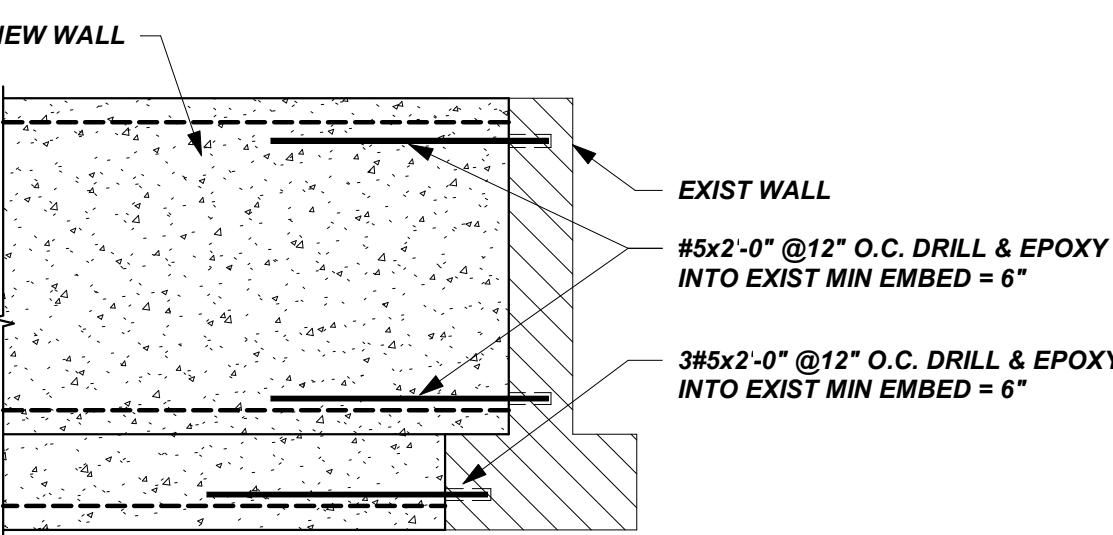
TYP SLAB ON GRADE CONTRACTION JOINT DETAIL

N.T.S.



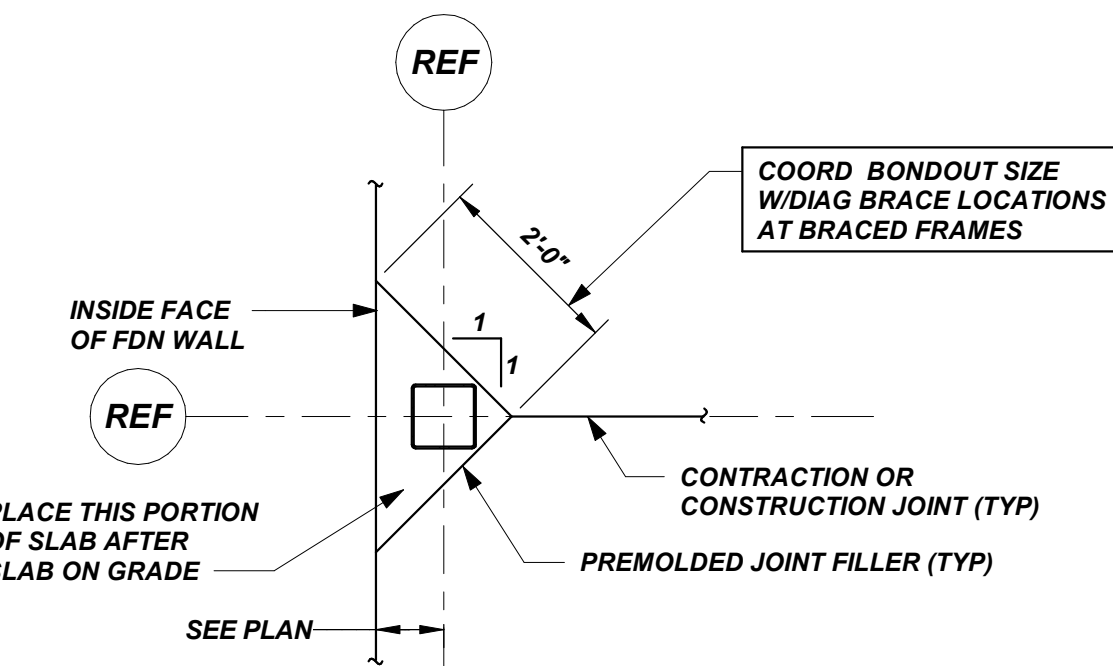
TYP SLAB INFILL DETAIL (EXIST BLDG)

N.T.S.



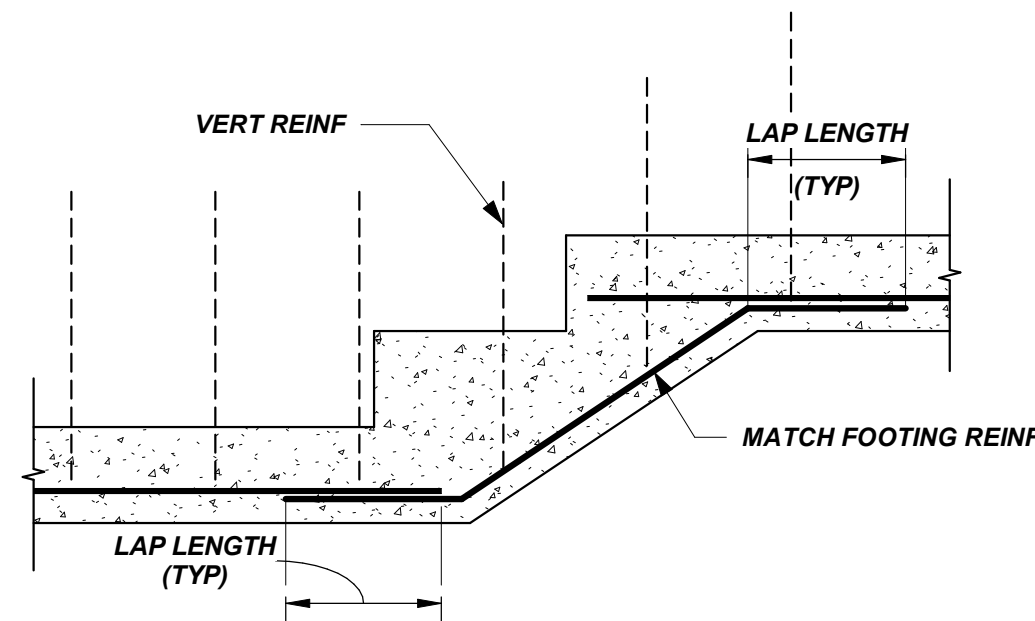
TYP NEW FDN TO EXIST FDN WALL DETAIL

N.T.S.



TYP EXT COLUMN ISOLATION JOINT DETAIL

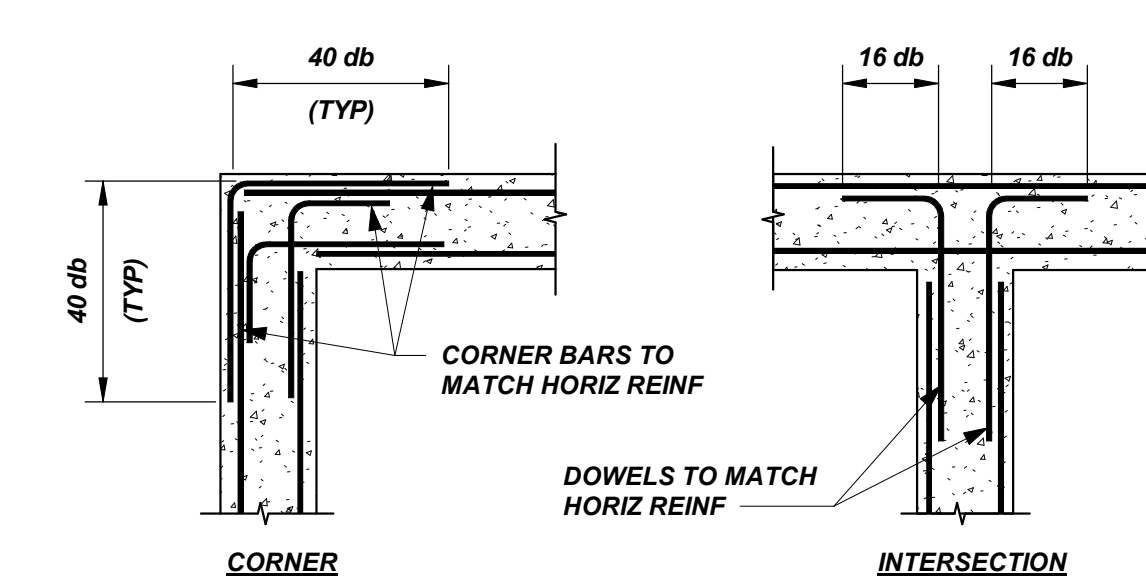
N.T.S.



TYP STEP FOOTING DETAIL

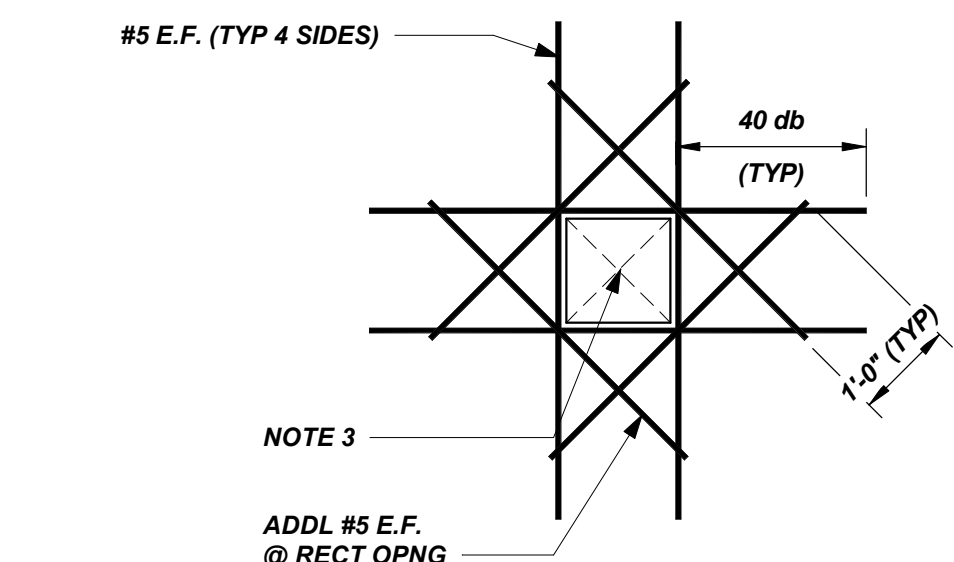
N.T.S.

ℓ=FOOTING THICKNESS



TYP WALL REINF DETAILS

N.T.S.



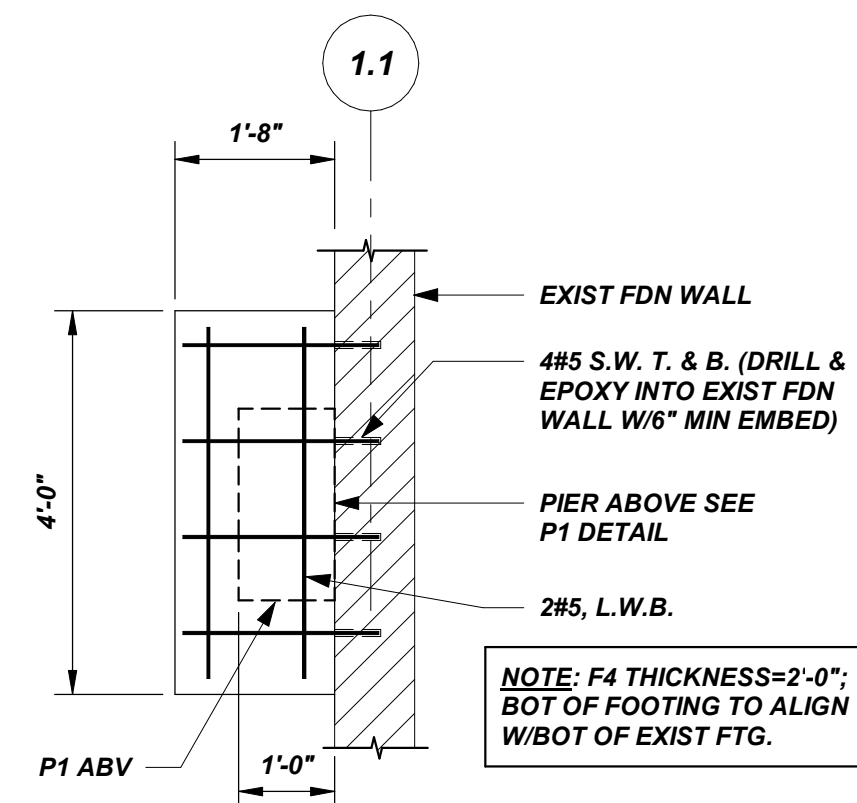
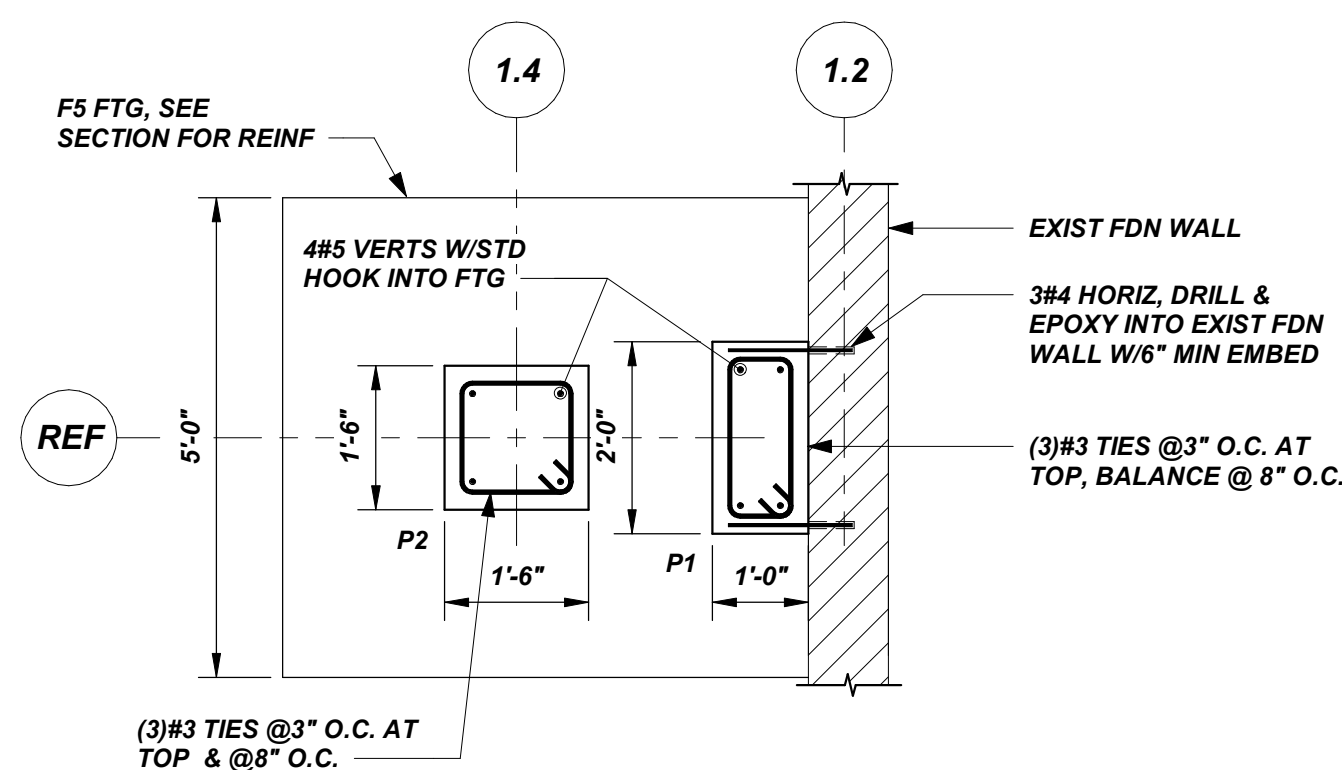
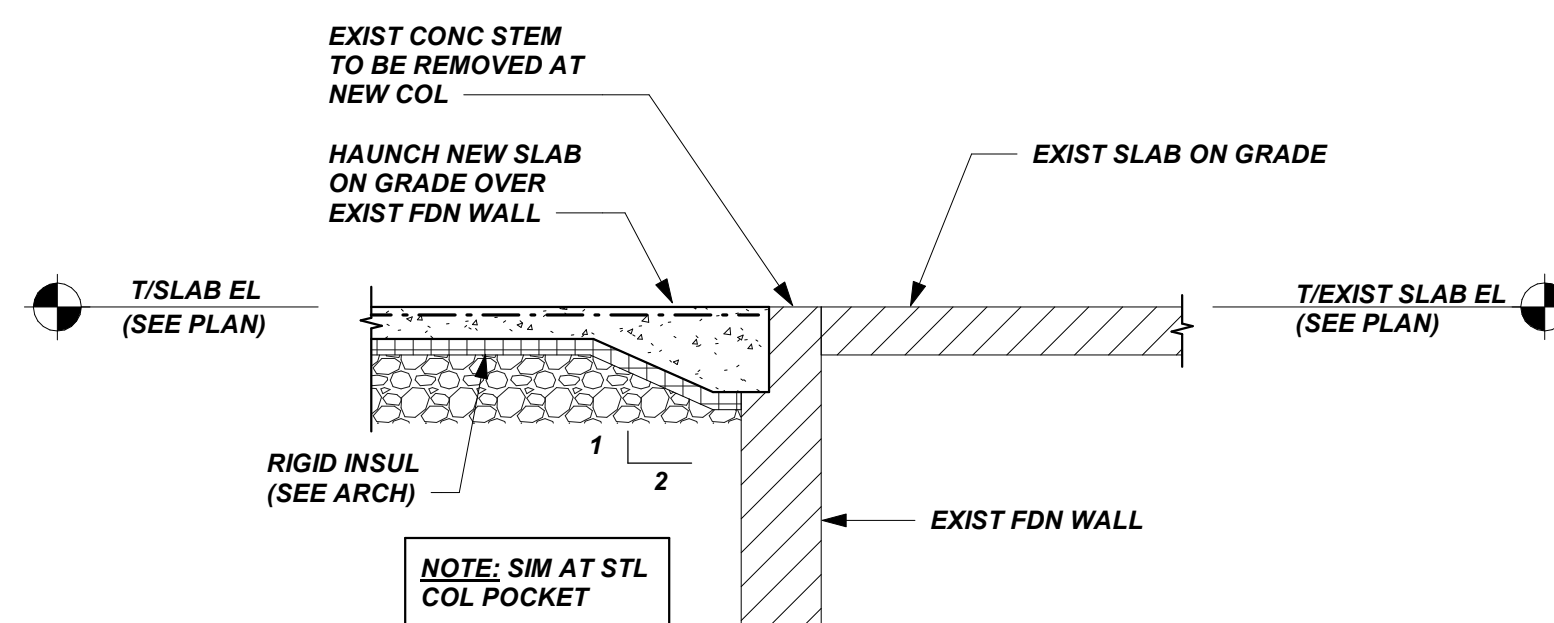
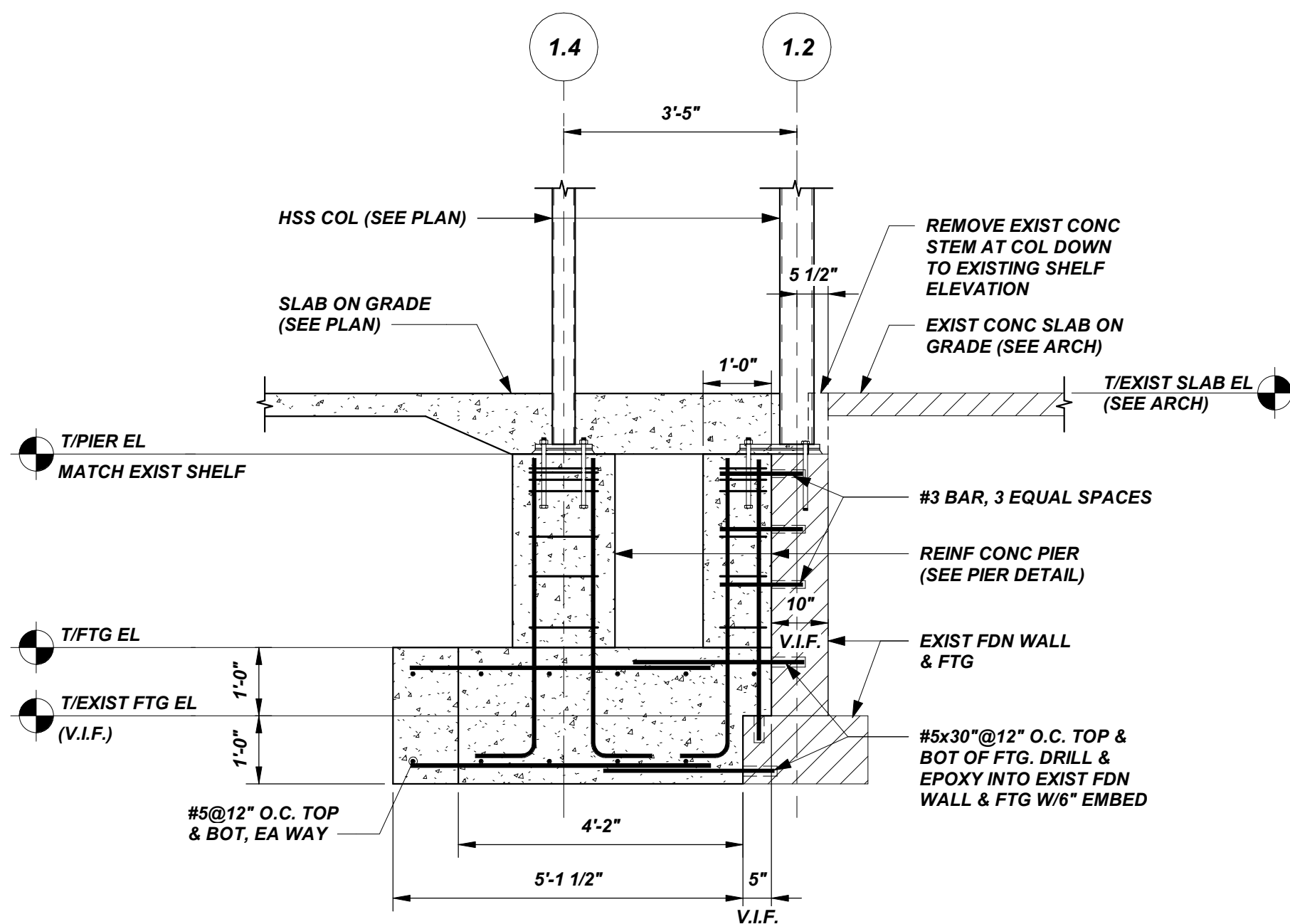
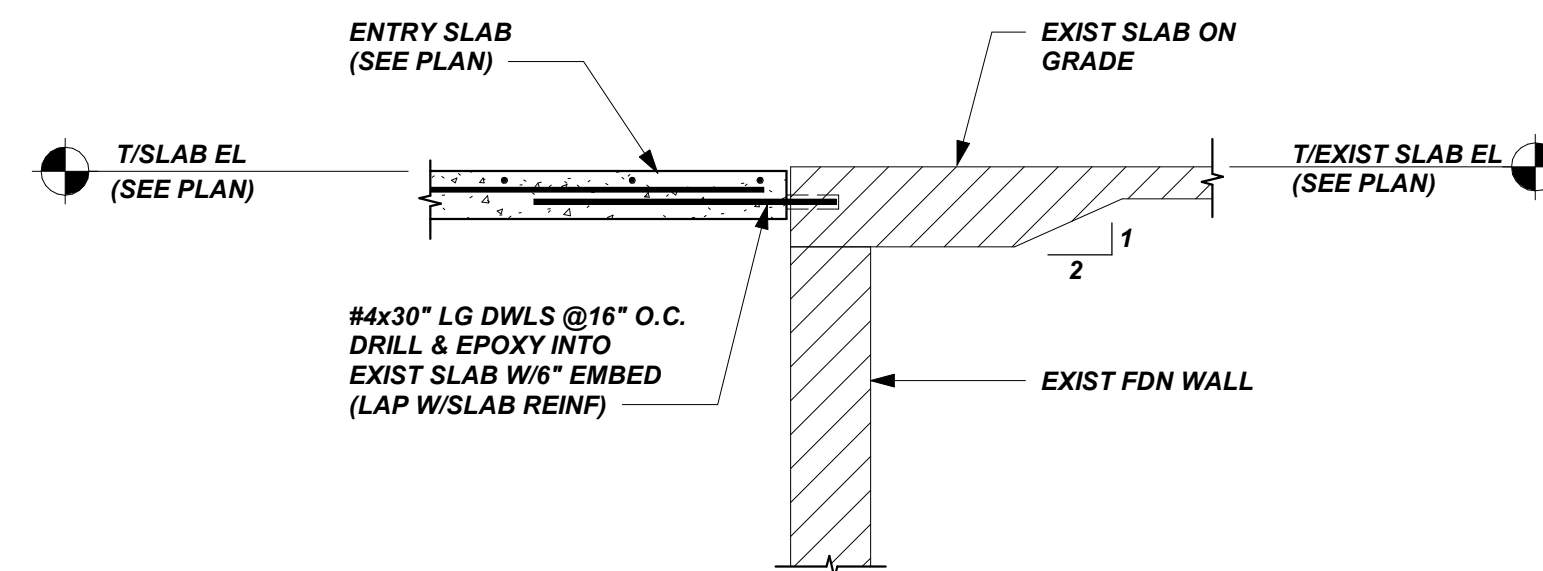
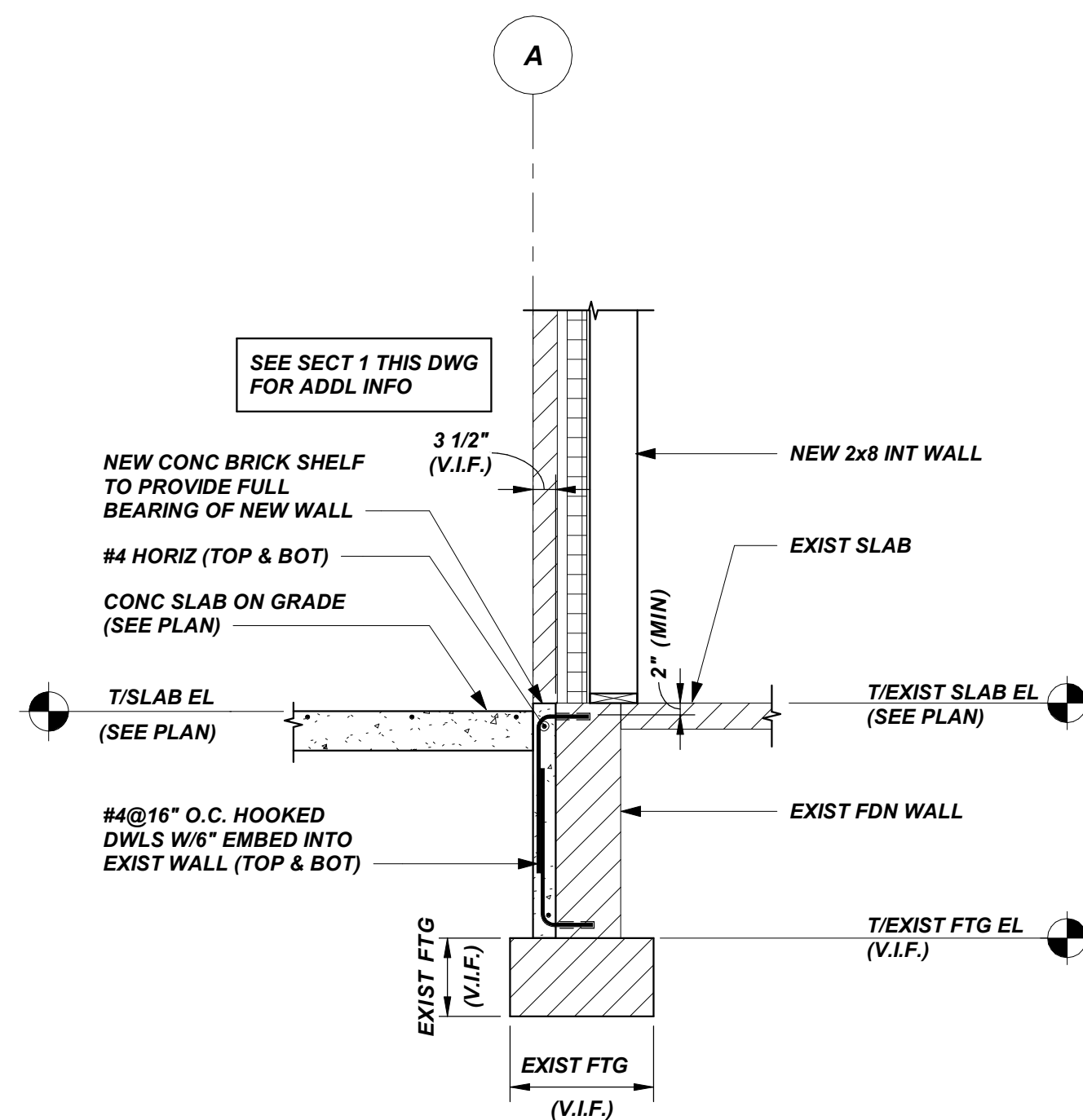
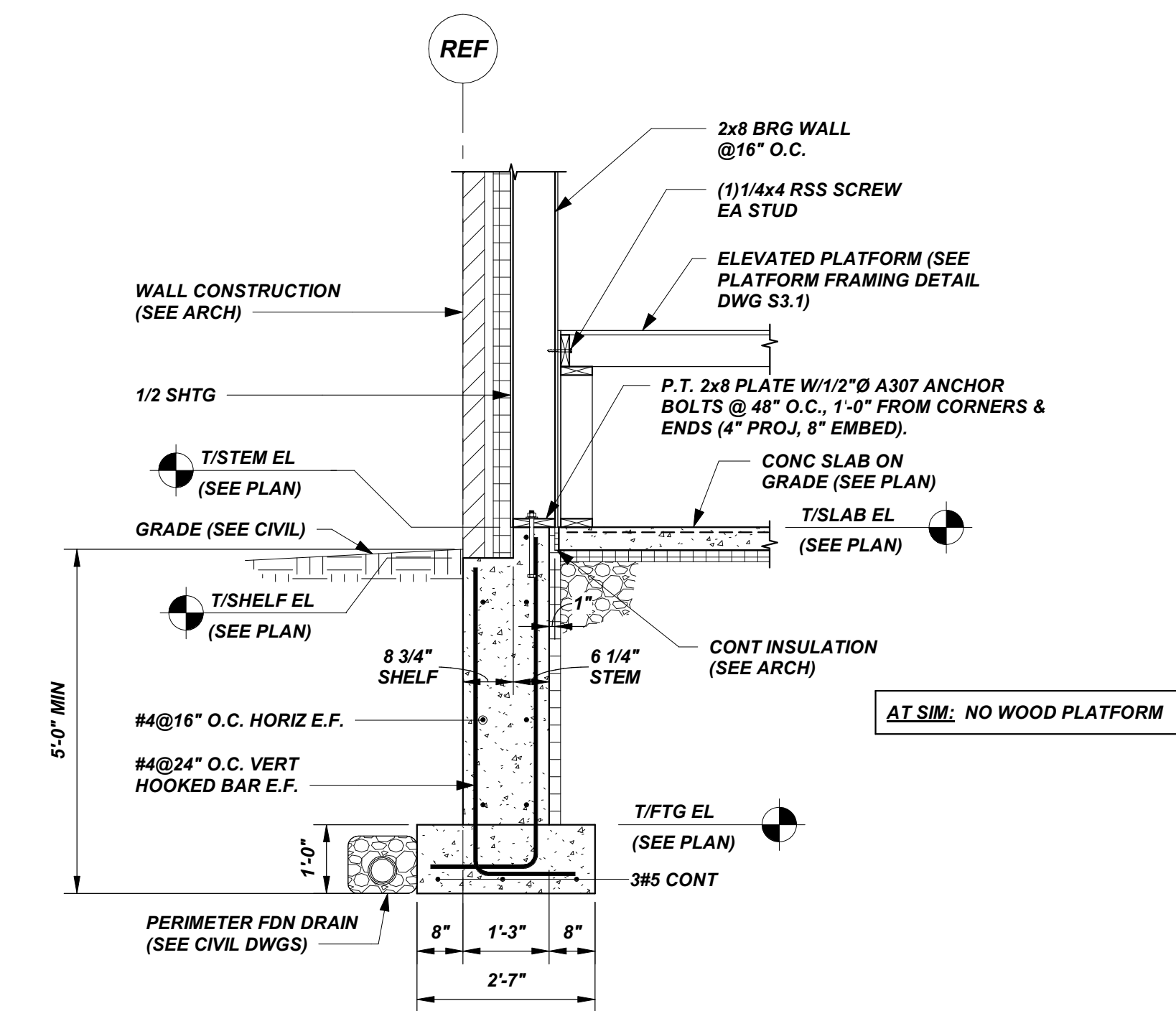
TYP OPENING IN WALL OR SLAB DETAIL

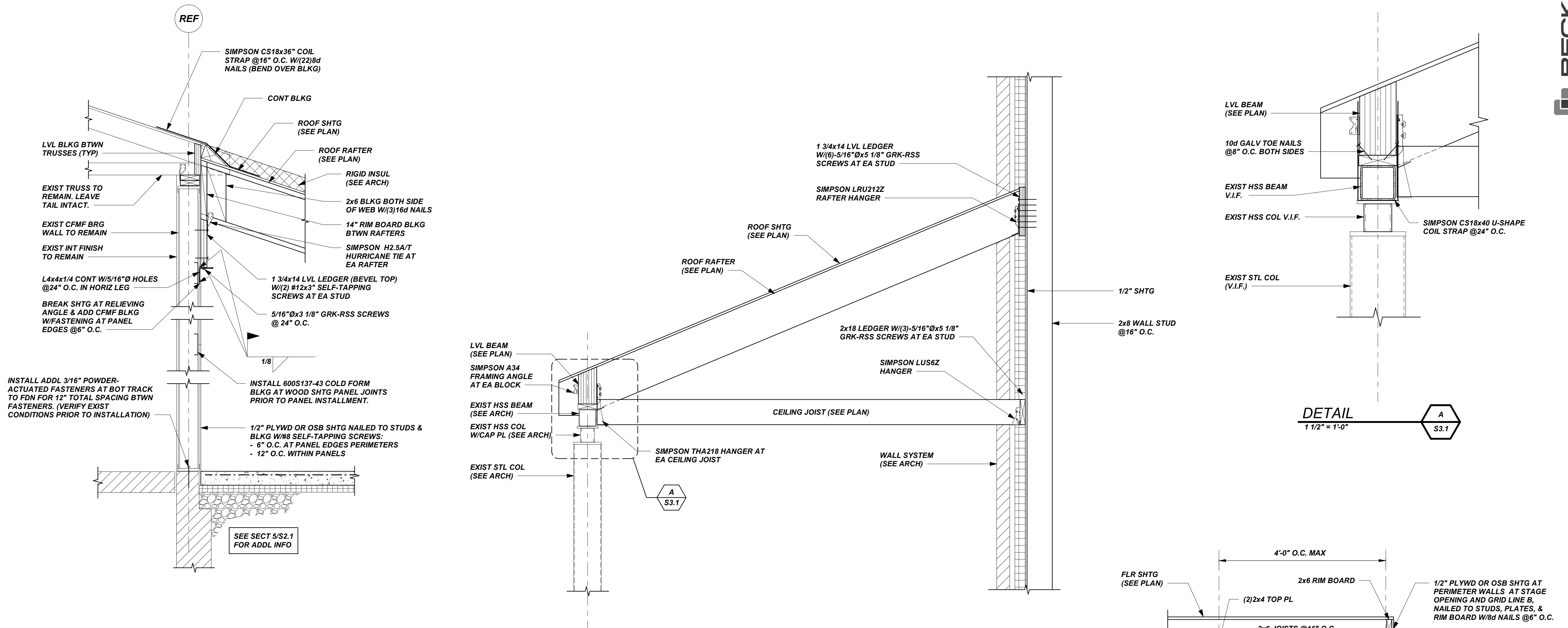
N.T.S.

- NOTES:
- ALL OPENINGS TO BE SLEEVED
 - WHERE 40bd CAN'T BE ACHIEVED HOOK BAR.
 - AT WALL BONDOUT LARGER THEN 12" USE #6 BARS

REBAR LAP SPLICE TABLE		
BAR SIZE	LAP LENGTH	
	3,500/4,000 PSI	5,000 PSI
#4	36"	32"
#5	48"	42"

THIS IS A 24 X 36 SHEET.



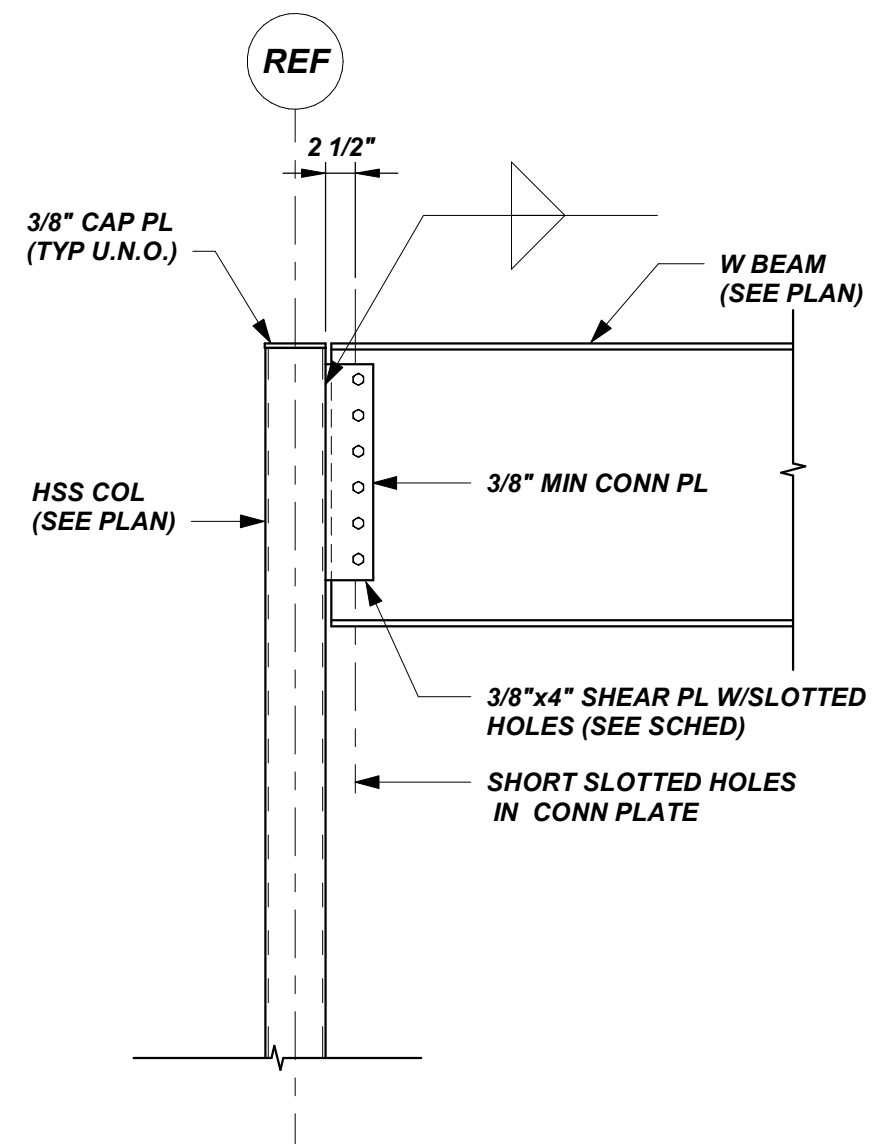


SECTION 1
3/4" = 1'-0"

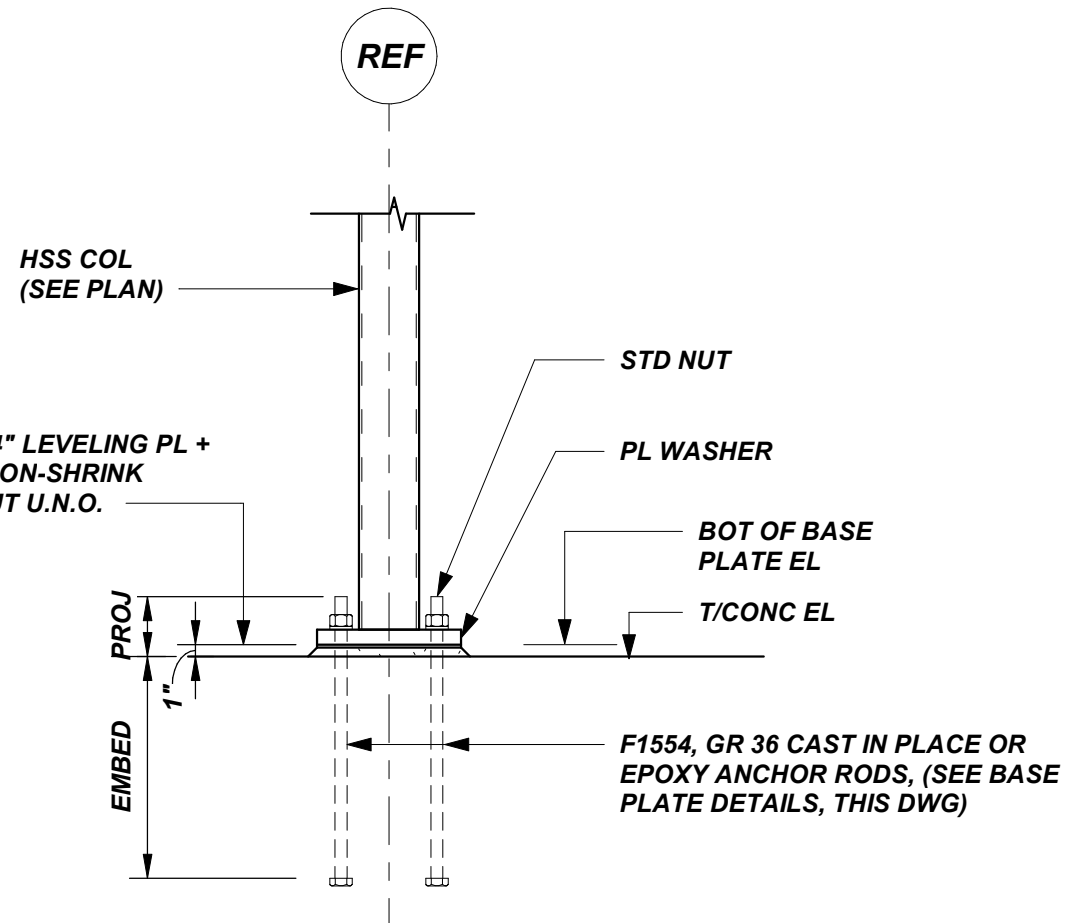
SECTION 3
3/4" = 1'-0"

PLATFORM FRAMING DETAIL
3/4"=1'-0"

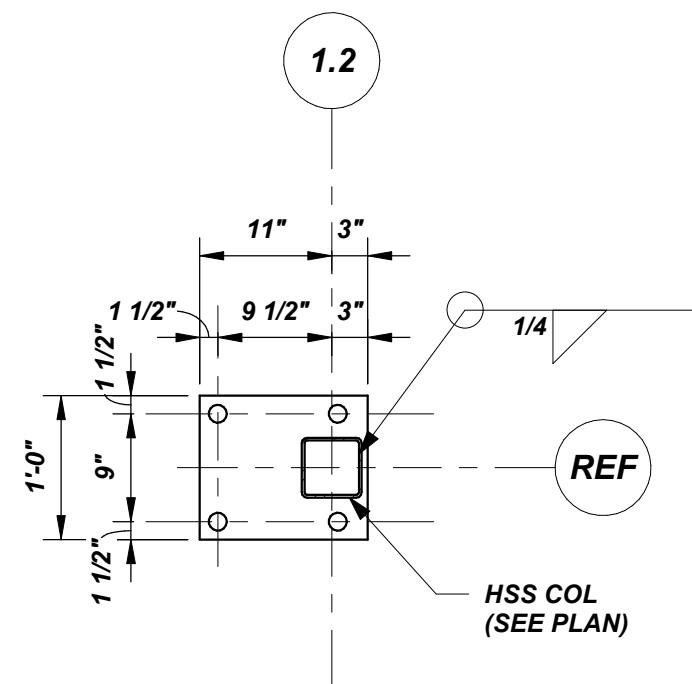
SHEAR PLATE SCHEDULE		
BEAM SIZE	PLATE LENGTH	BOLTS
W8	5 1/2"	(2)-3/4"Ø A325 BOLTS
W12	8 1/2"	(3)-3/4"Ø A325 BOLTS
W16	11 1/2"	(4)-3/4"Ø A325 BOLTS
W27	20 1/2"	(7)-3/4"Ø A325 BOLTS



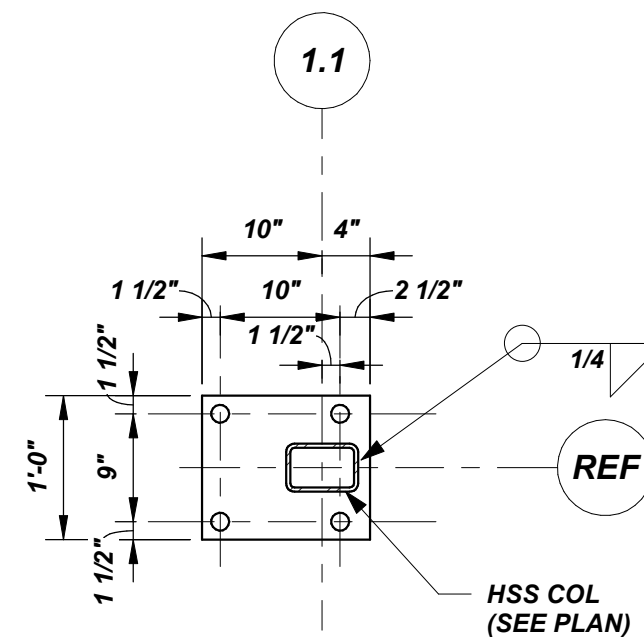
TYP BEAM TO HSS COL CONN U.N.O.
N.T.S.



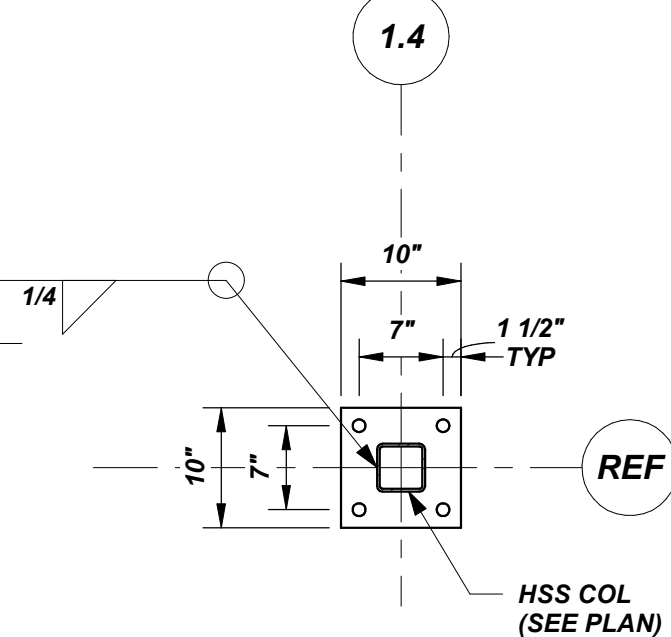
TYP COL BASE DETAIL U.N.O.
N.T.S.



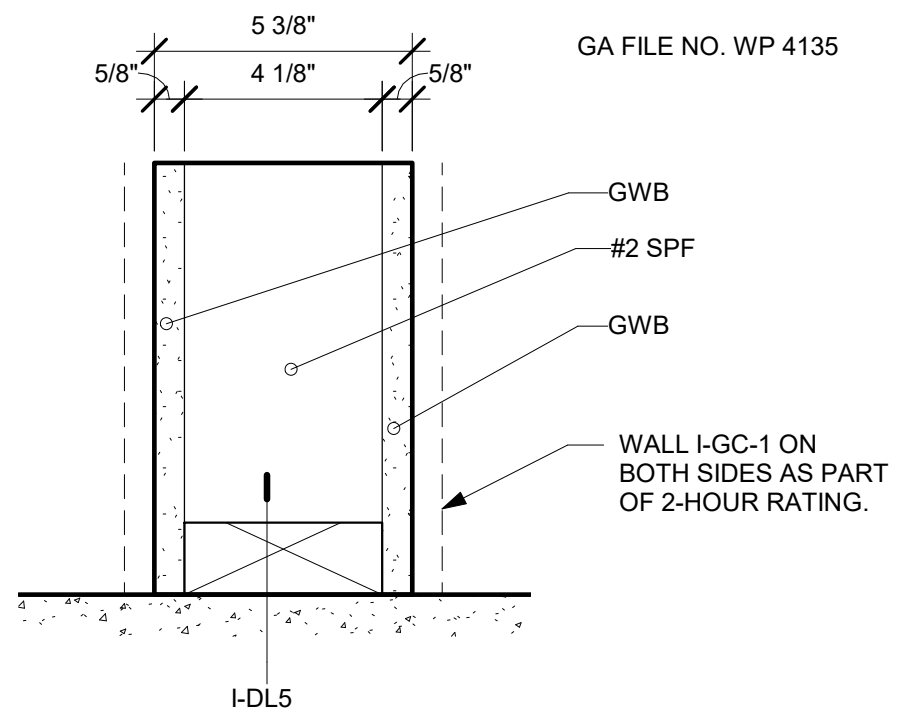
BP-A
PL 1x12x1'-2" W/(4)-1 5/16"Ø HOLES FOR
(4)-3/4"Ø x12" LG F1554 GR 36 ANCHOR RODS
- (2) AT NEW PIER: HEADED ANCHOR RODS
CAST IN PLACE W/8" EMBED, 4" PROJ.
- (2) AT EXIST FDN WALL: THIRD ANCHOR ROD
W/HILTI HIT-200 EPOXY W/8" EMBED, 4" PROJ



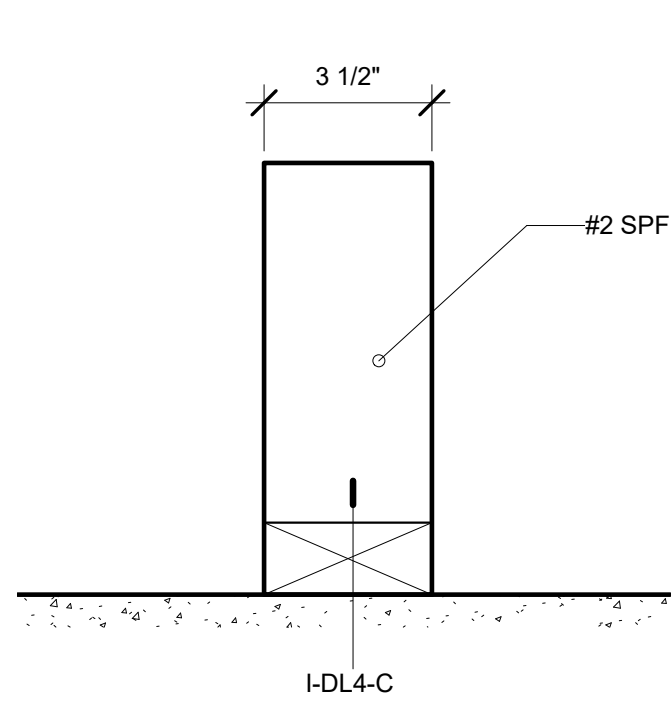
BP-B
PL 1x12x1'-2" W/(4)-1 5/16"Ø HOLES FOR
(4)-3/4"Ø x12" LG F1554 GR 36 ANCHOR RODS
- (2) AT NEW PIER: HEADED ANCHOR RODS
CAST IN PLACE W/8" EMBED, 4" PROJ.
- (2) AT EXIST FDN WALL: THIRD ANCHOR ROD
W/HILTI HIT-200 EPOXY W/8" EMBED, 4" PROJ



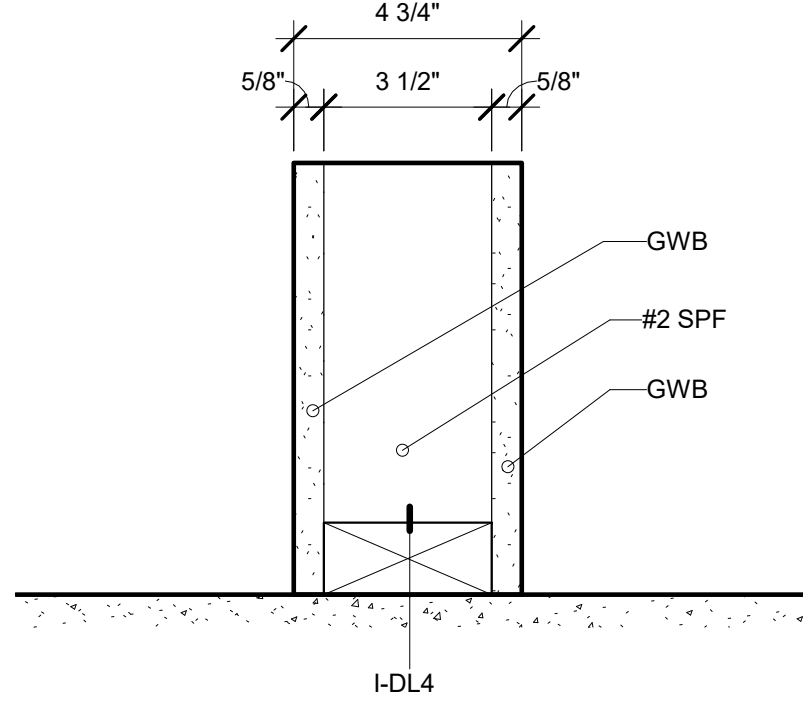
BP-C
PL 3/4x10x0'-10" W/(4)-1 5/16"Ø HOLES FOR
(4)-3/4"Ø x12" LG F1554 GR 36 ANCHOR RODS
W/8" EMBED, 4" PROJ



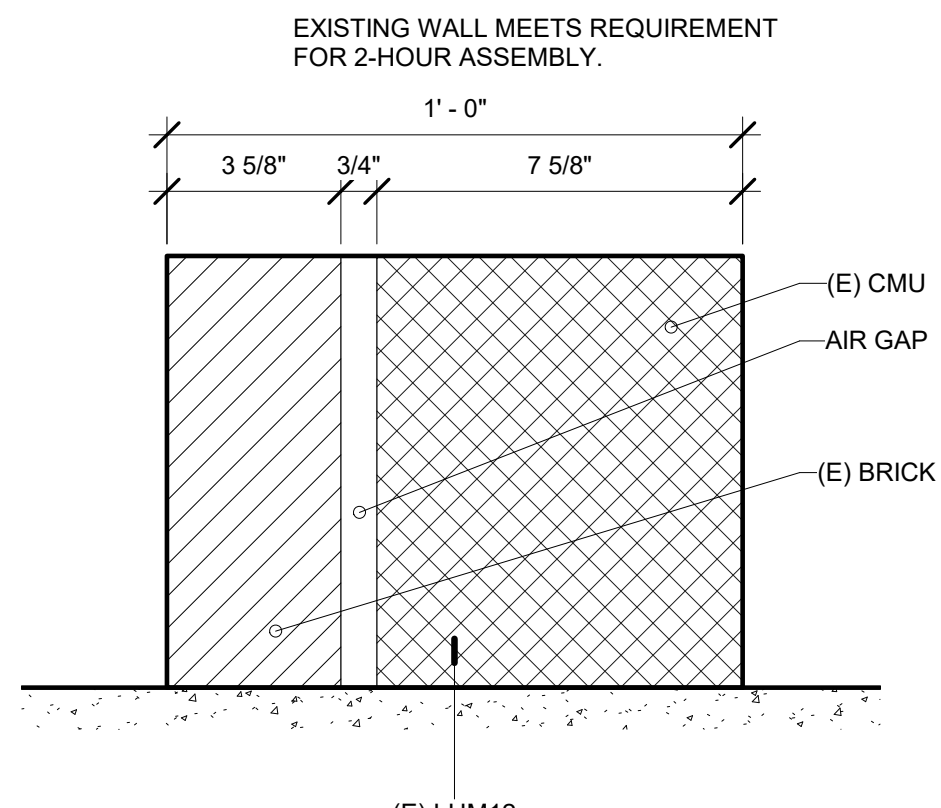
4 WALL I-DL5
3" = 1'-0"



3 WALL I-DL4-C
3" = 1'-0"



2 WALL I-DL4
3" = 1'-0"



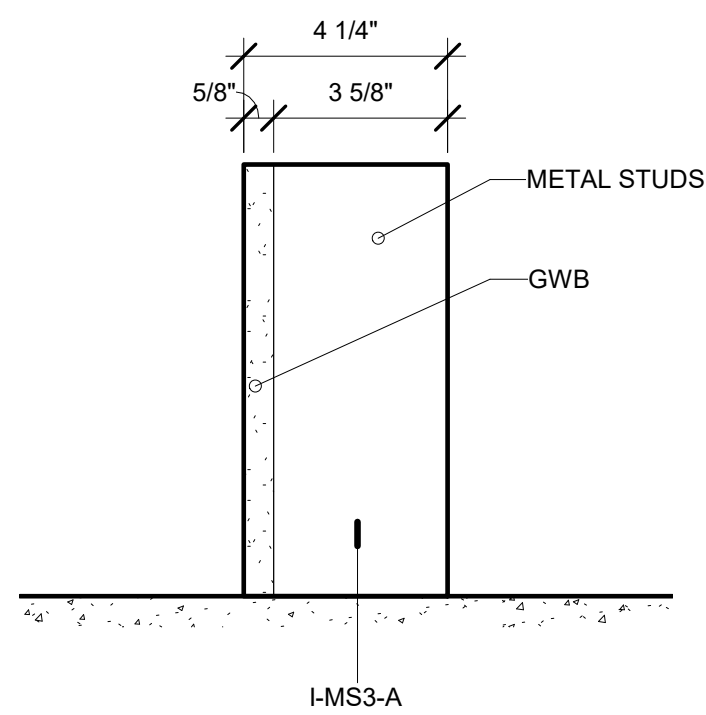
1 WALL (E) I-UM12
3" = 1'-0"

C10 INTERIOR PARTITIONS			
TYPE MARK	FUNCTION	AREA	DESCRIPTION
(E) I-UM12	Interior	0 SF	EXISTING MASONRY
I-DL4	Interior	2 SF	RAMP CURB
I-DL4-C	Interior	426 SF	STAGE FRAMING
I-DL5	Interior	47 SF	INFILL AT (R) DOORS
I-DL6-A	Interior	234 SF	WOOD STUD PARTITION
I-DL6-C	Interior	50 SF	STAGE FRAMING
I-GC1	Interior	943 SF	GWB
I-MS3	Interior	125 SF	METAL STUD PARTITION
I-MS3-A	Interior	31 SF	METAL STUD PARTITION
I-MS3-B	Interior	73 SF	120-MIN PARTITION
I-MS3-C	Interior	5 SF	METAL STUD PARTITION
I-MS6	Interior	2960 SF	METAL STUD PARTITION
I-MS6-A	Interior	178 SF	METAL STUD PARTITION
I-PW-1	Interior	745 SF	SHEET VINYL
I-PW-2	Interior	212 SF	REINSTALLED TECTUM
I-PW-3	Interior	224 SF	REINSTALLED MASONITE
Grand total: 104		6255 SF	

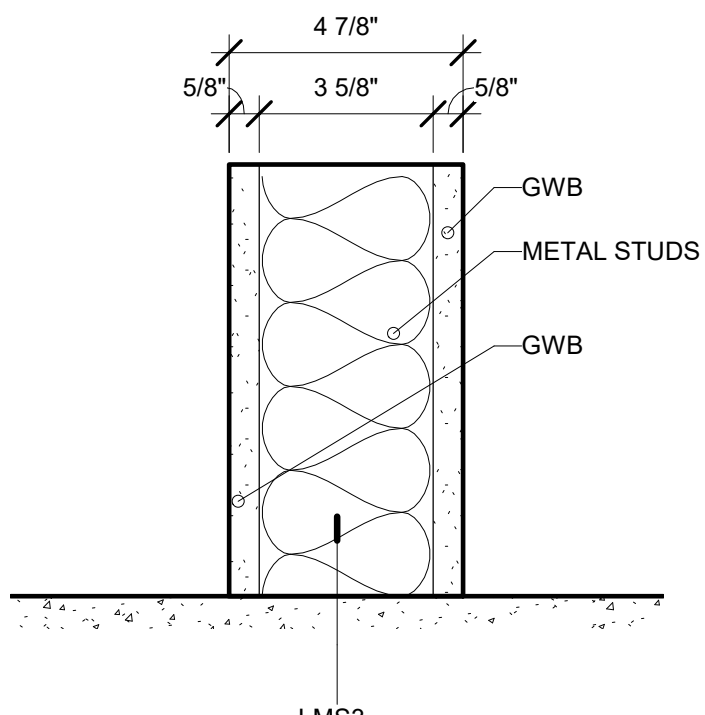
SEE G-001 FOR EXPLANATION OF ASSEMBLY NAMING

ASSEMBLY NAMING

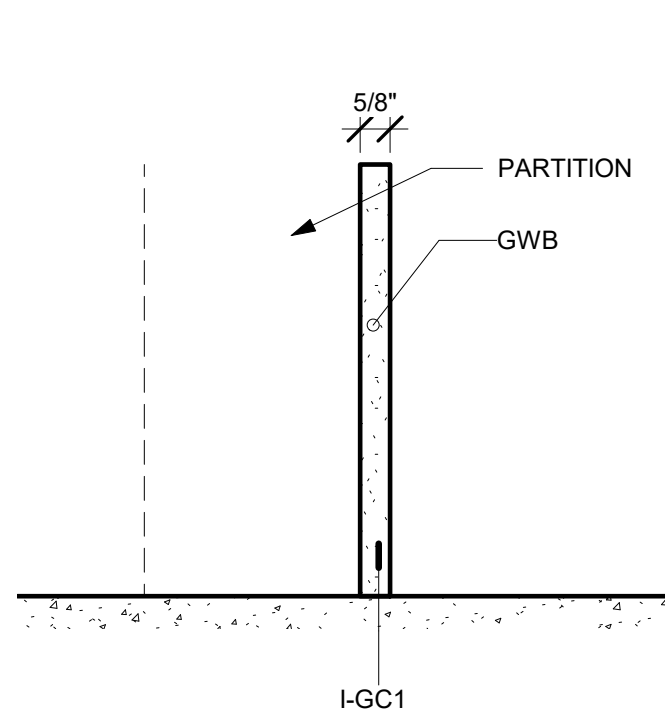
12" = 1'-0"



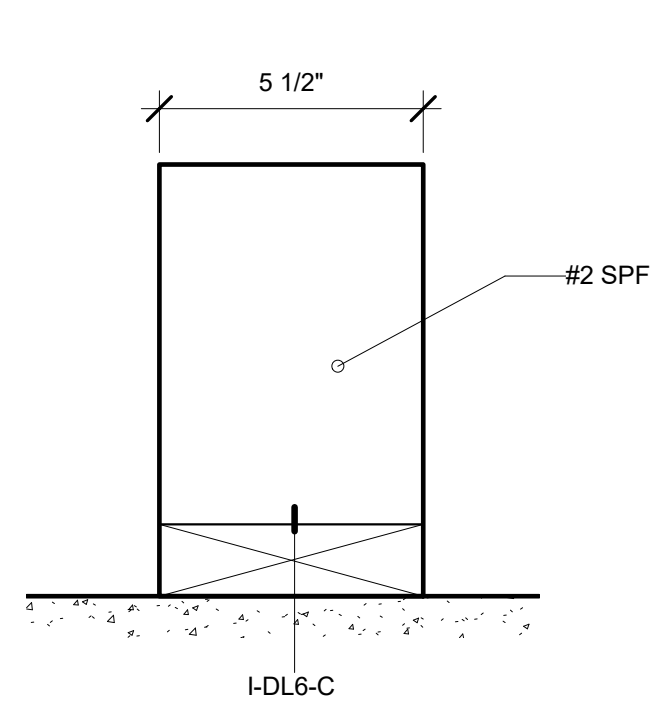
9 WALL I-MS3-A
3" = 1'-0"



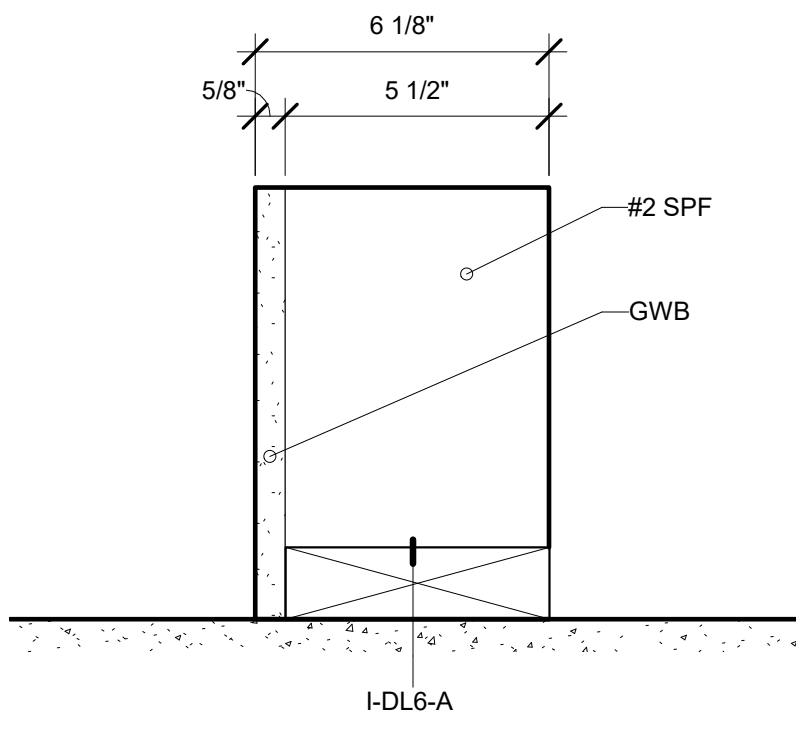
8 WALL I-MS3
3" = 1'-0"



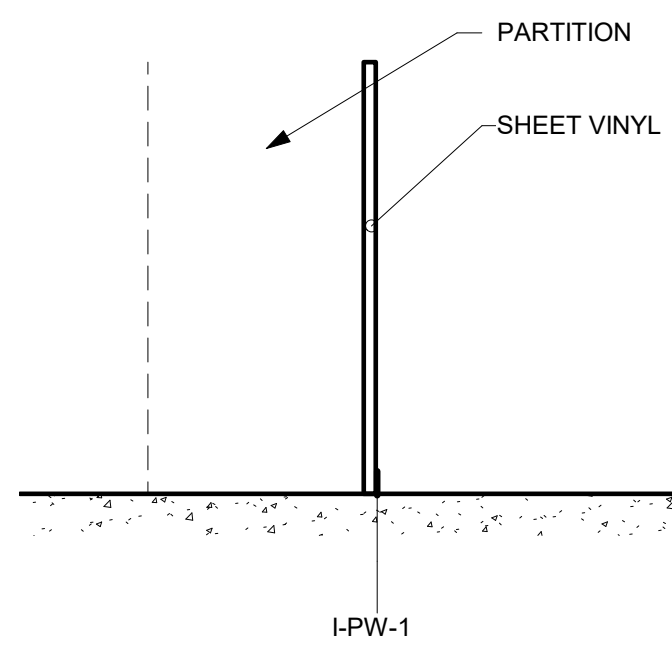
7 WALL I-GC1
3" = 1'-0"



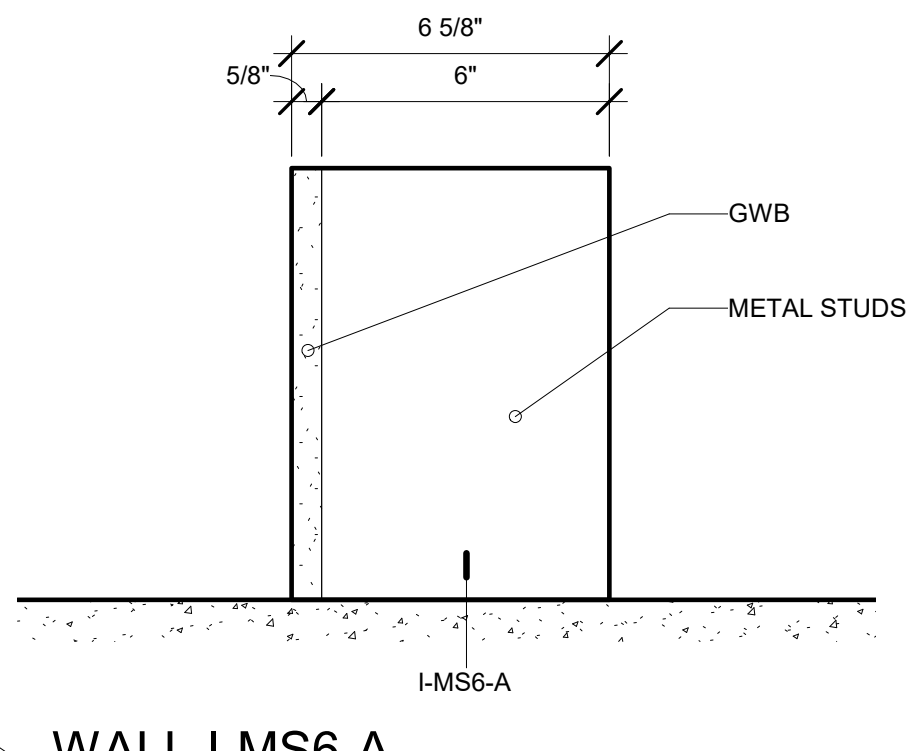
6 WALL I-DL6-C
3" = 1'-0"



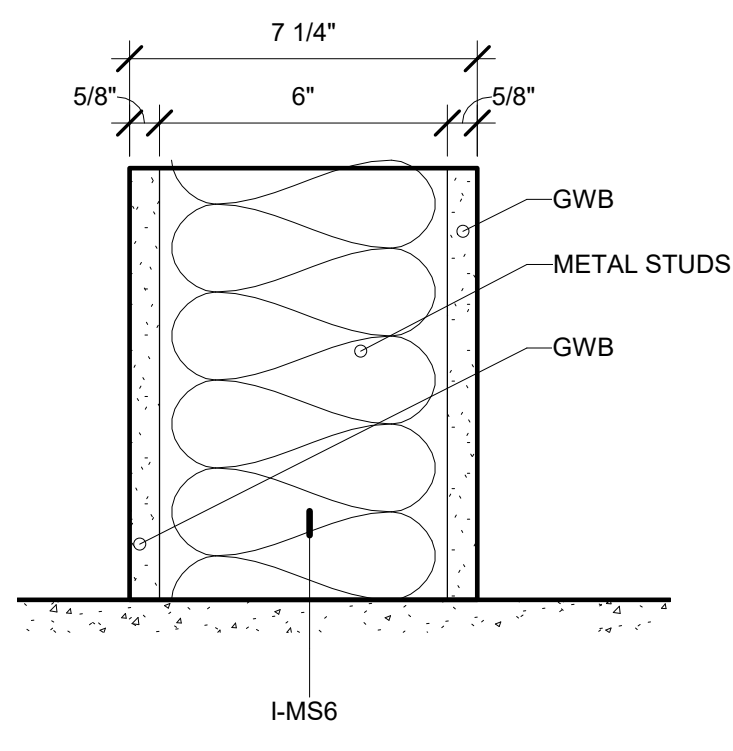
5 WALL I-DL6-A
3" = 1'-0"



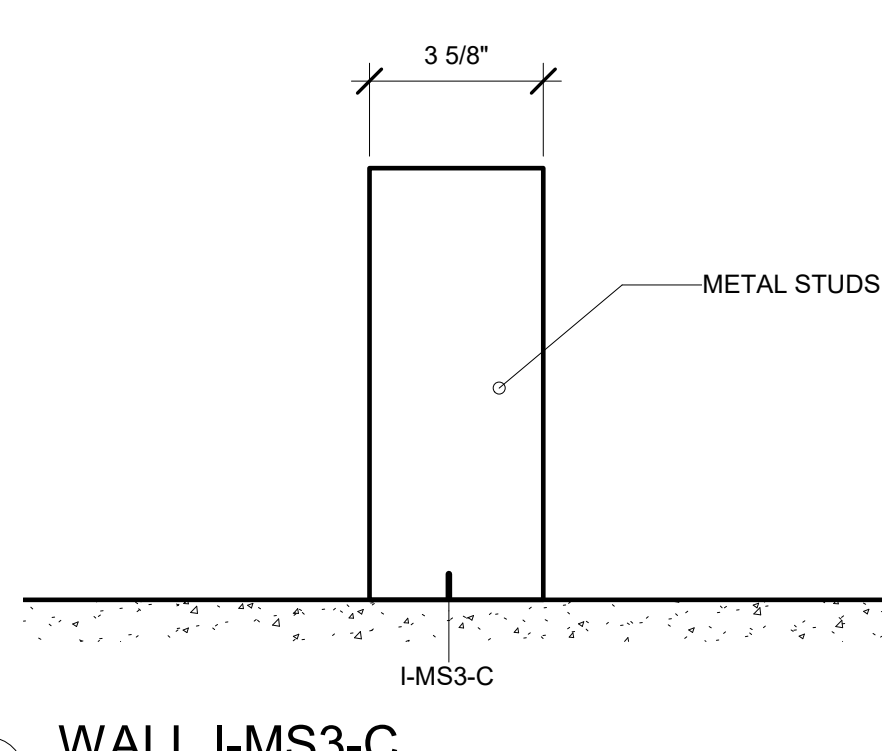
14 WALL I-PW1
3" = 1'-0"



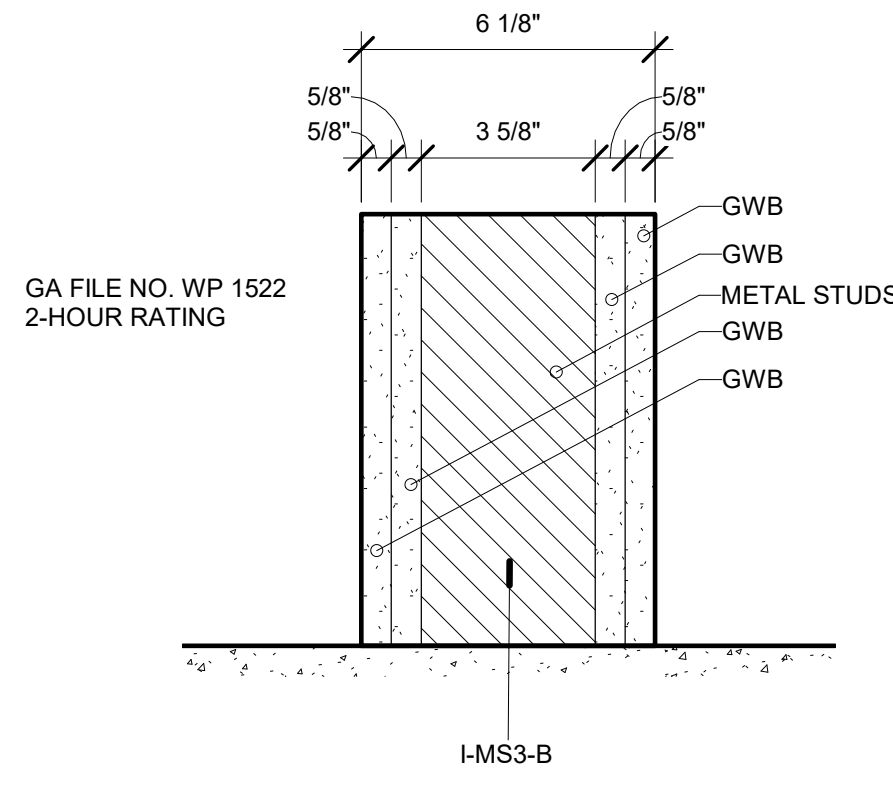
13 WALL I-MS6-A
3" = 1'-0"



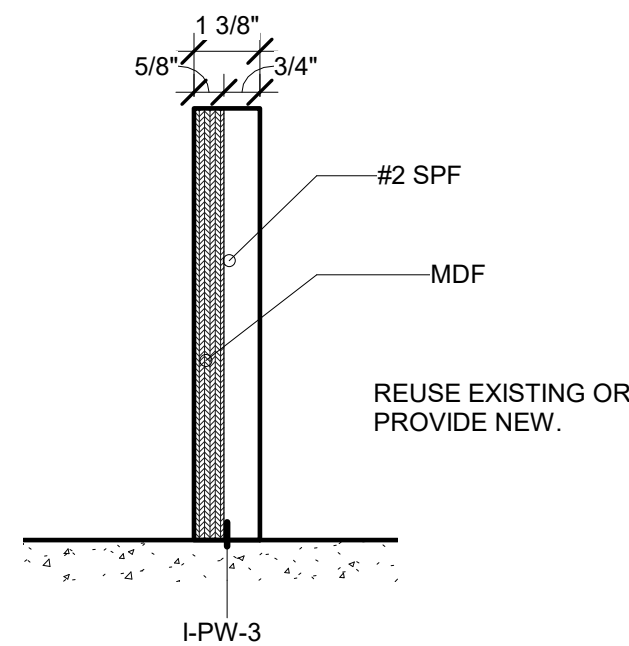
12 WALL I-MS6
3" = 1'-0"



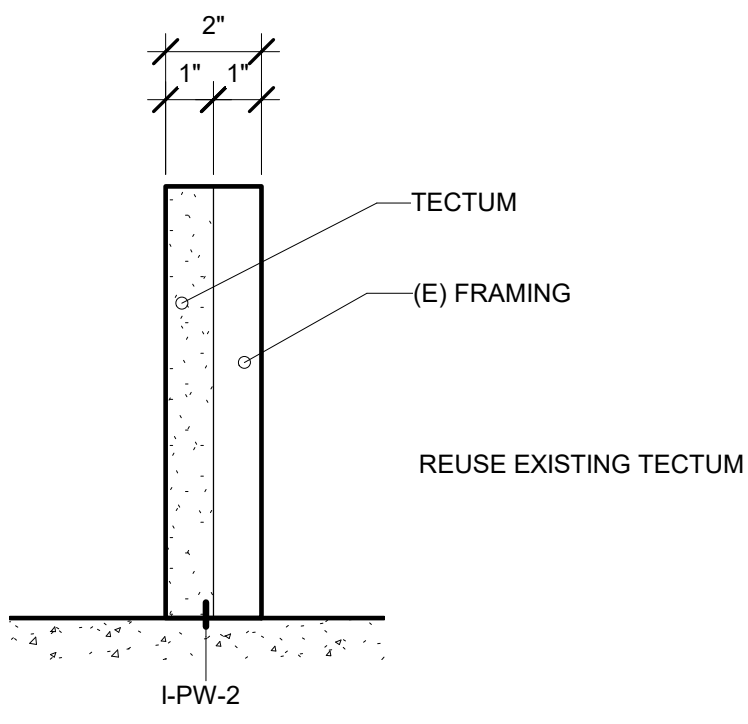
11 WALL I-MS3-C
3" = 1'-0"



10 WALL I-MS3-B
3" = 1'-0"

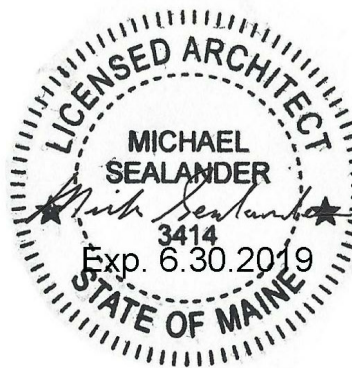


16 WALL I-PW-3
3" = 1'-0"



15 WALL I-PW-2
3" = 1'-0"

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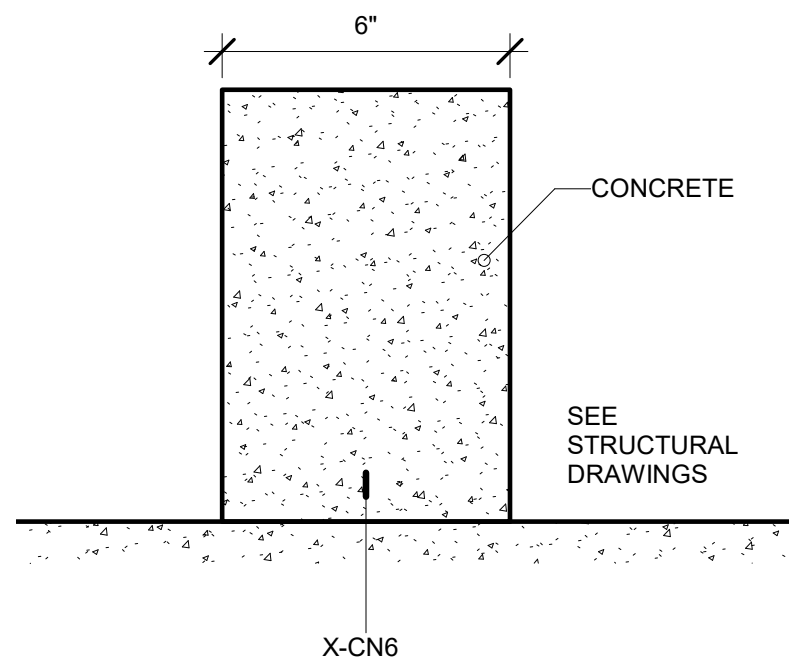


RSU 18
CHINA MIDDLE SCHOOL ADDITION

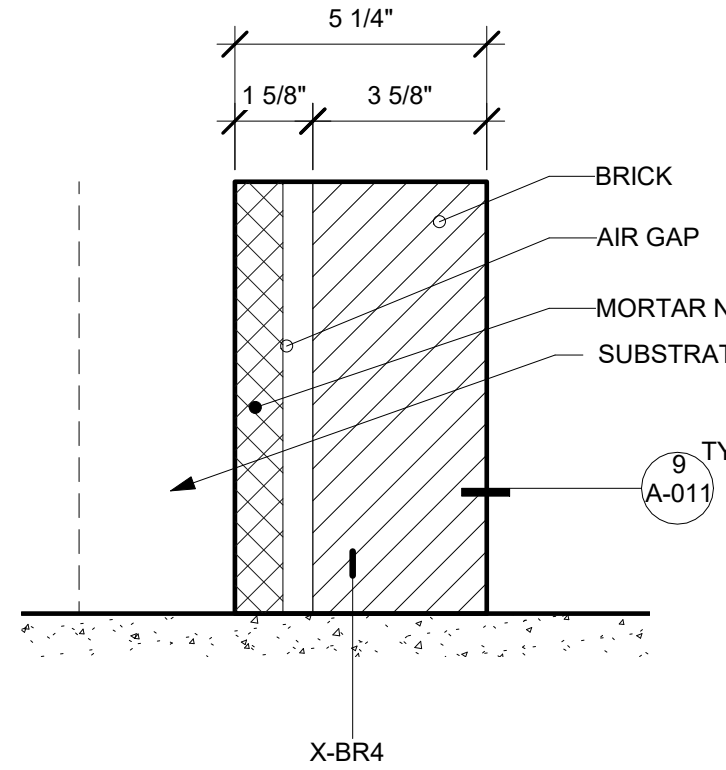
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INTERIOR
WALLS

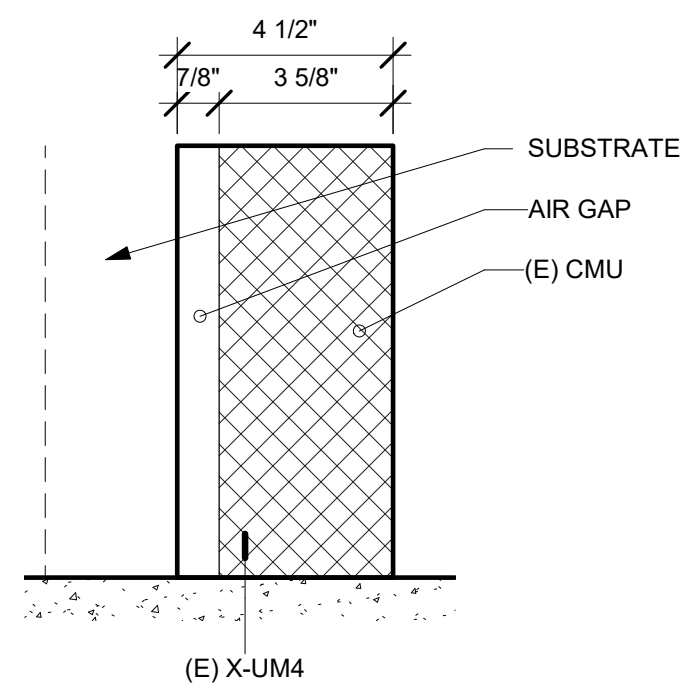
A-010



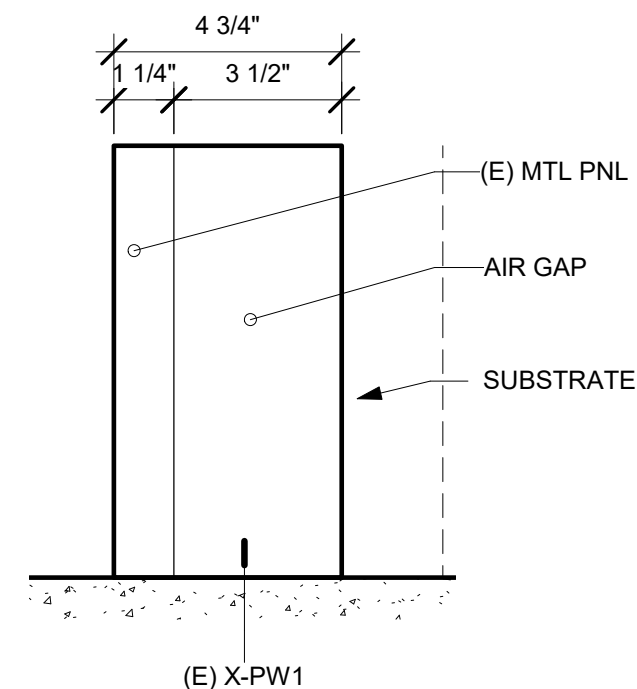
4 WALL X-CN6
3" = 1'-0"



3 WALL X-BR4
3" = 1'-0"



2 WALL (E) X-UM4
3" = 1'-0"

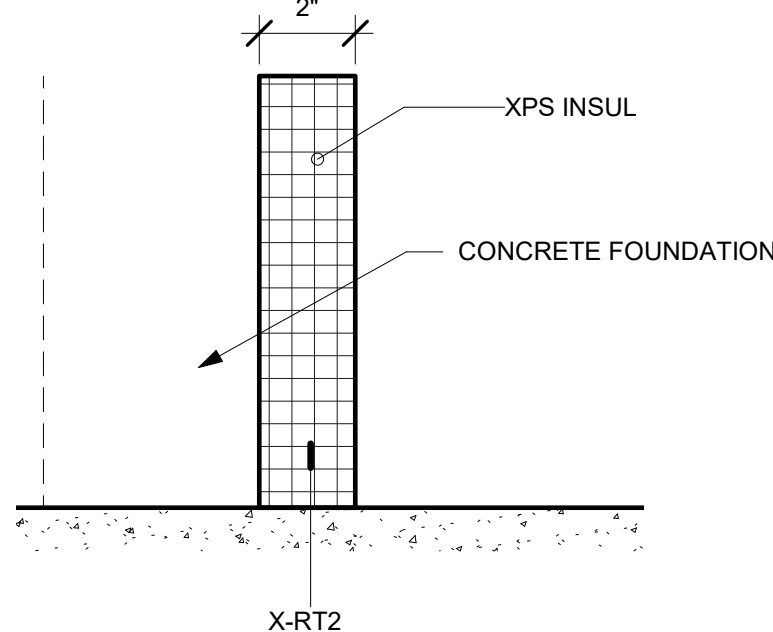


1 WALL (E) X-PW-1
3" = 1'-0"

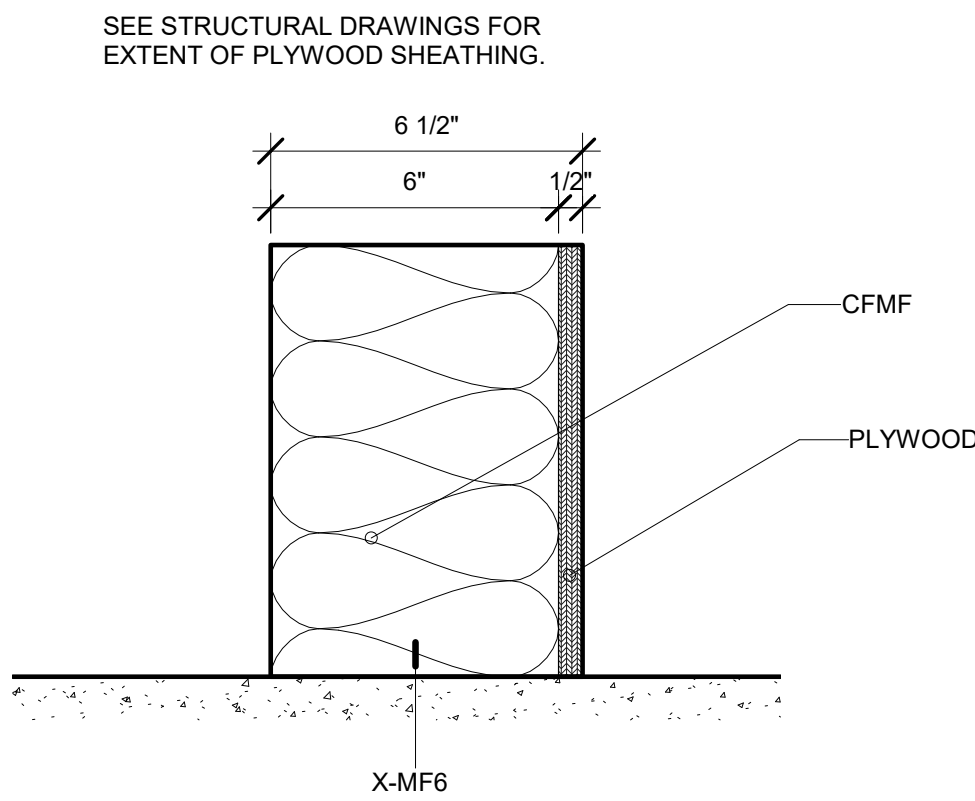
B20 EXTERIOR WALLS			
TYPE MARK	FUNCTION	AREA	DESCRIPTION
(E) I-GC1	Exterior	24 SF	
(E) X-MF6	Exterior	8 SF	
(E) X-PW1	Exterior	7 SF	REINSTALLED METAL PANEL
(E) X-UM4	Exterior	34 SF	REINSTALLED MASONRY
X-BR4	Exterior	673 SF	BRICK
X-CN6	Exterior	59 SF	CONCRETE
X-CN15	Exterior	648 SF	CONCRETE
X-DL4	Exterior	111 SF	EXTERIOR KITCHEN
X-DL8	Exterior	1796 SF	EXTERIOR WALL
X-MF6	Exterior	403 SF	COLD FORMED FRAMING
X-RT2	Exterior	635 SF	RIGID INSULATION
X-WP1	Exterior	1127 SF	METAL WALL PANEL
Grand total: 33		5525 SF	

SEE G-001 FOR EXPLANATION OF ASSEMBLY NAMING

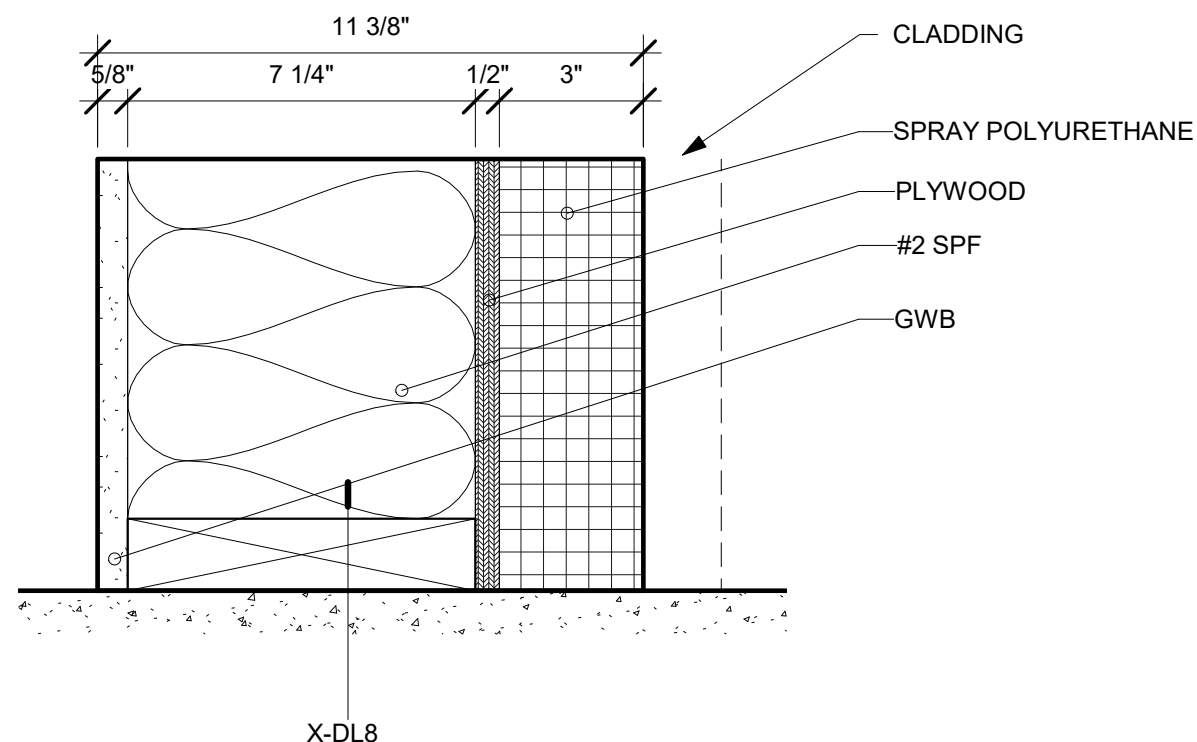
ASSEMBLY NAMING
12" = 1'-0"



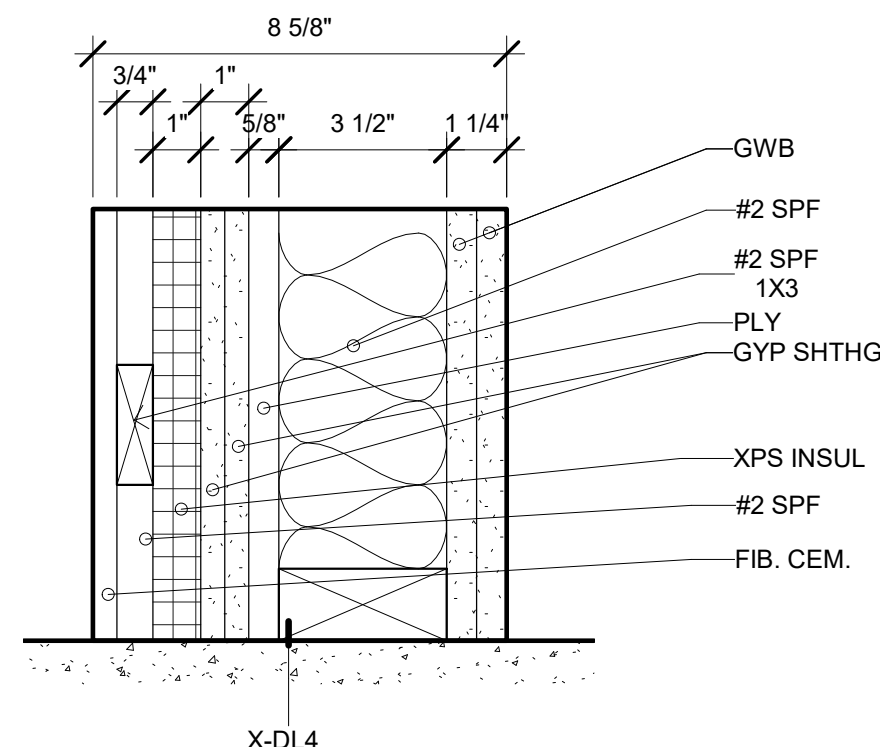
11 WALL X-RT2
3" = 1'-0"



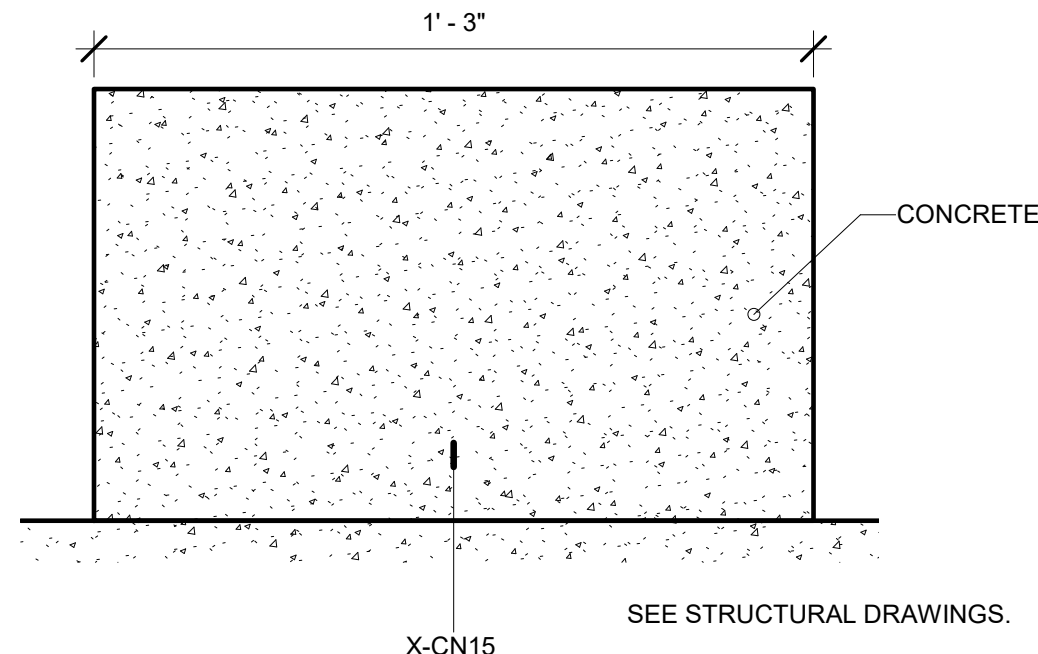
8 WALL X-MF6
3" = 1'-0"



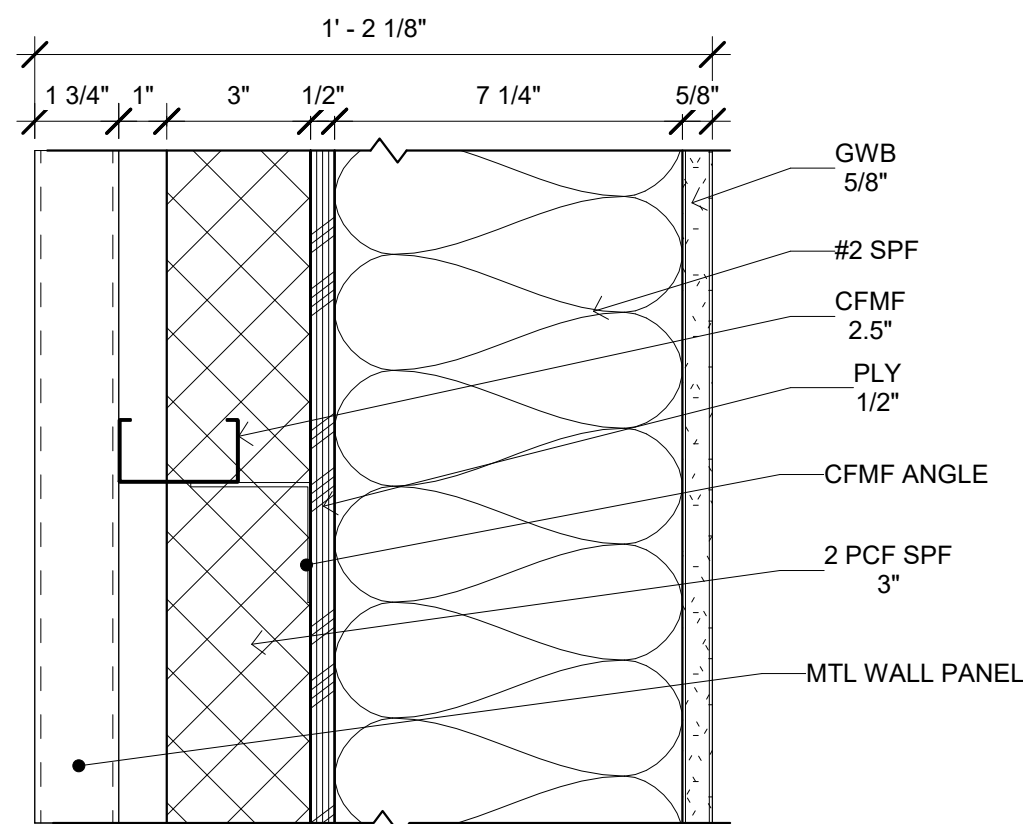
7 WALL X-DL8
3" = 1'-0"



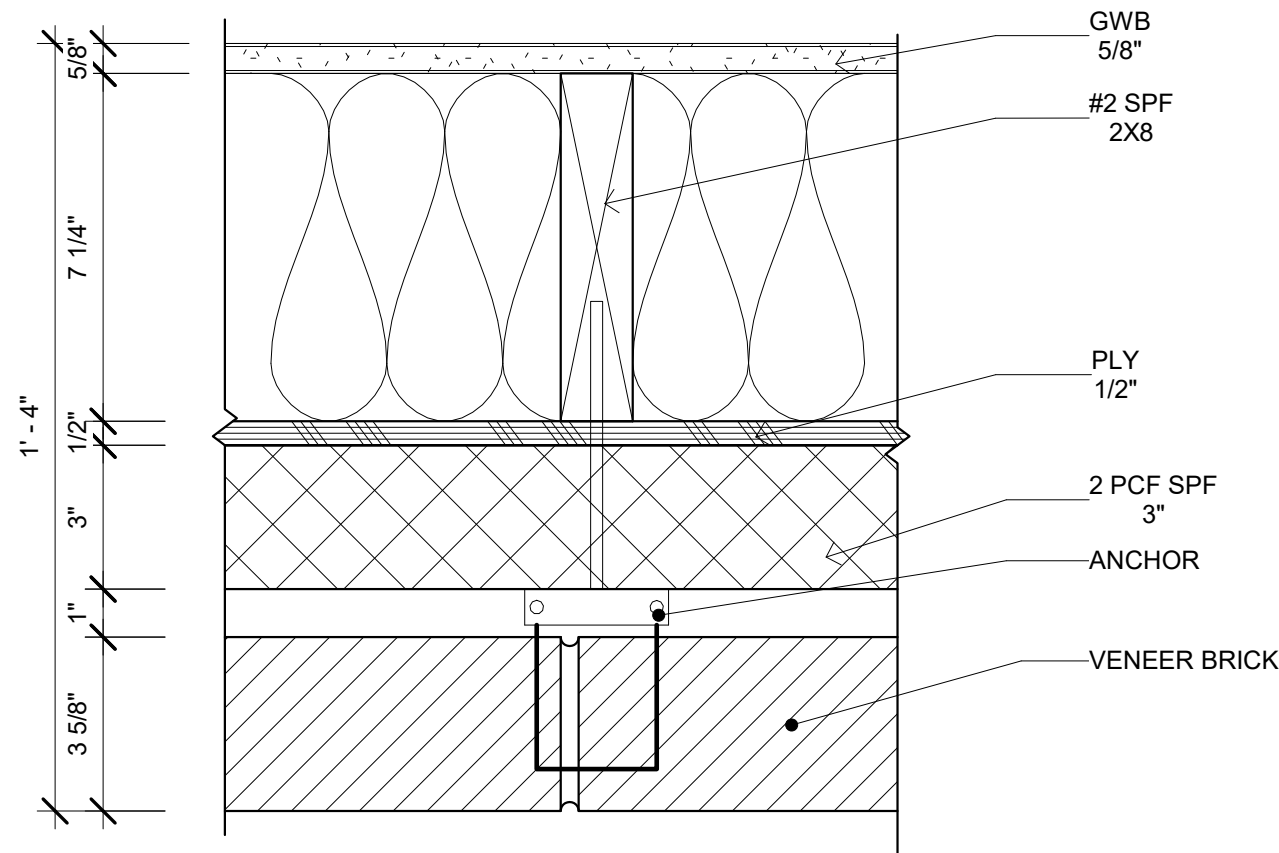
6 WALL X-DL4
3" = 1'-0"



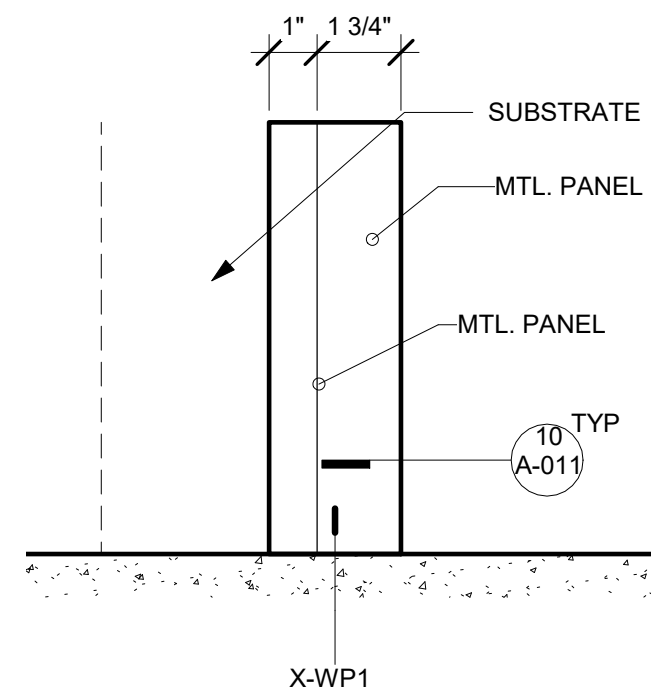
5 WALL X-CN15
3" = 1'-0"



10 EXTERIOR WALL AT METAL PANEL
A-011 3" = 1'-0"

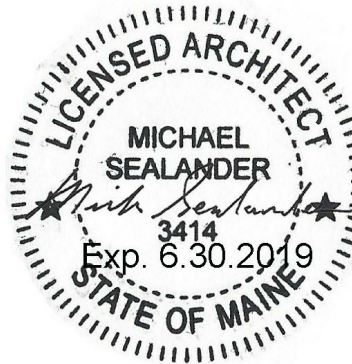


9 EXTERIOR WALL AT BRICK
A-011 3" = 1'-0"



12 WALL X-WP1
3" = 1'-0"

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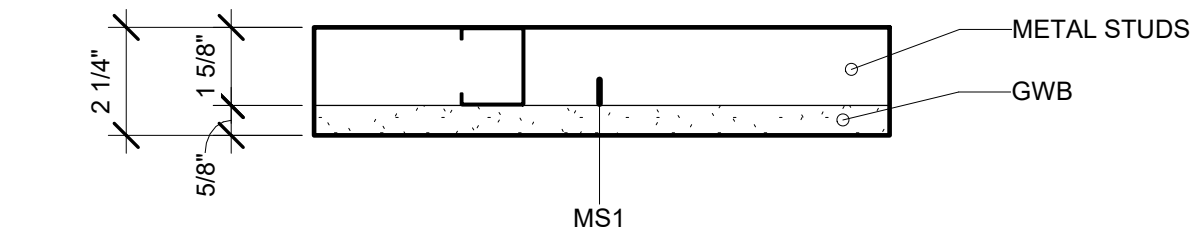


RSU 18
CHINA MIDDLE SCHOOL ADDITION

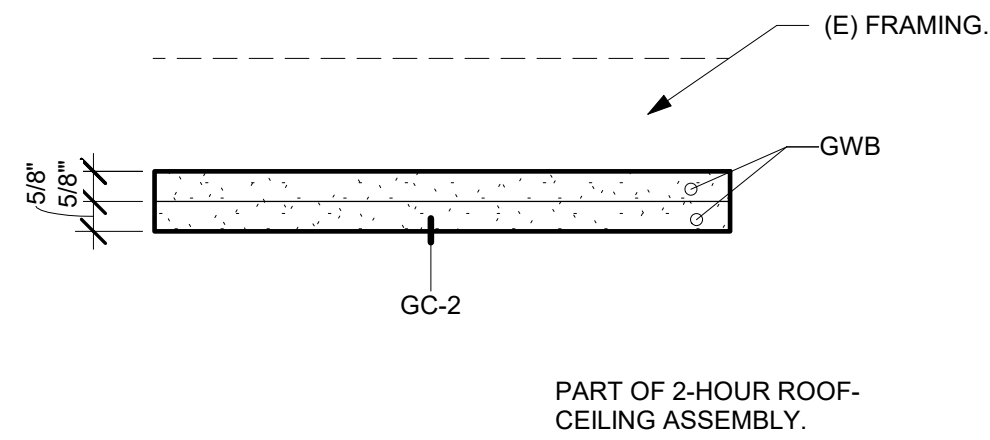
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4/8/2019 9:13:18 AM

EXTERIOR
WALLS

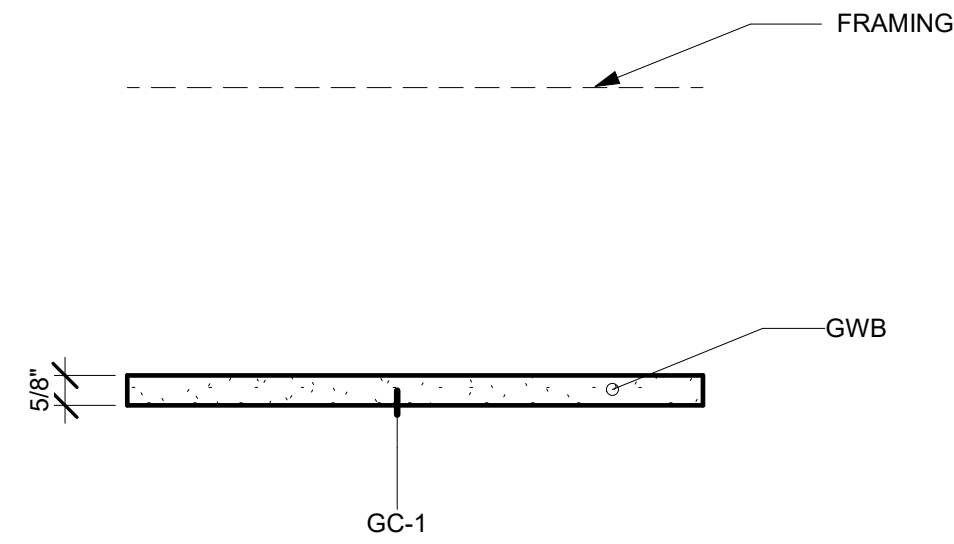
A-011



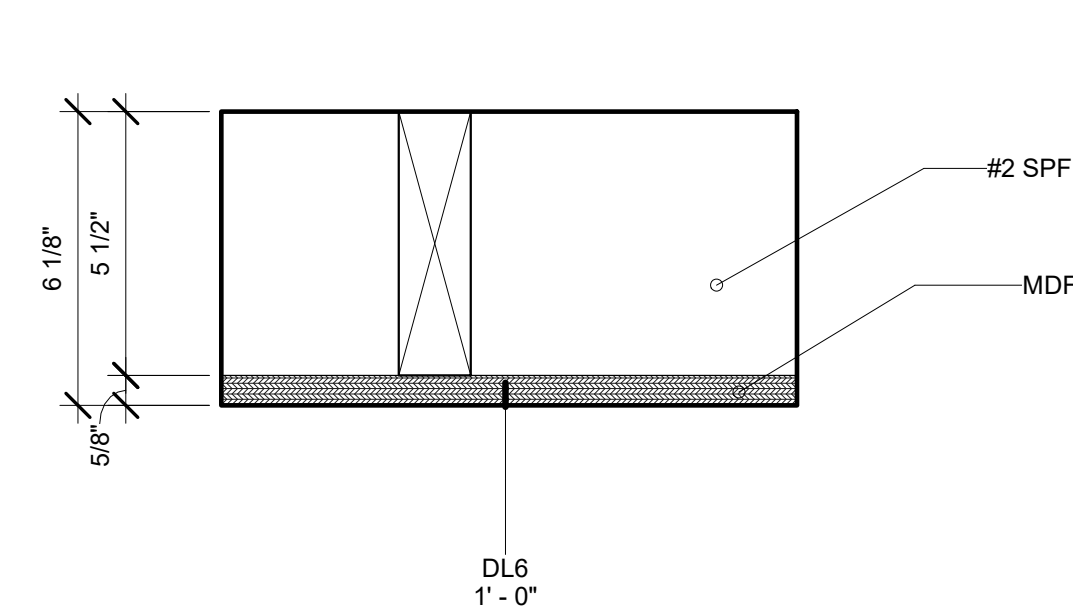
4 CEILING MS1
3" = 1'-0"



3 CEILING GC-2
3" = 1'-0"



2 CEILING GC-1
3" = 1'-0"



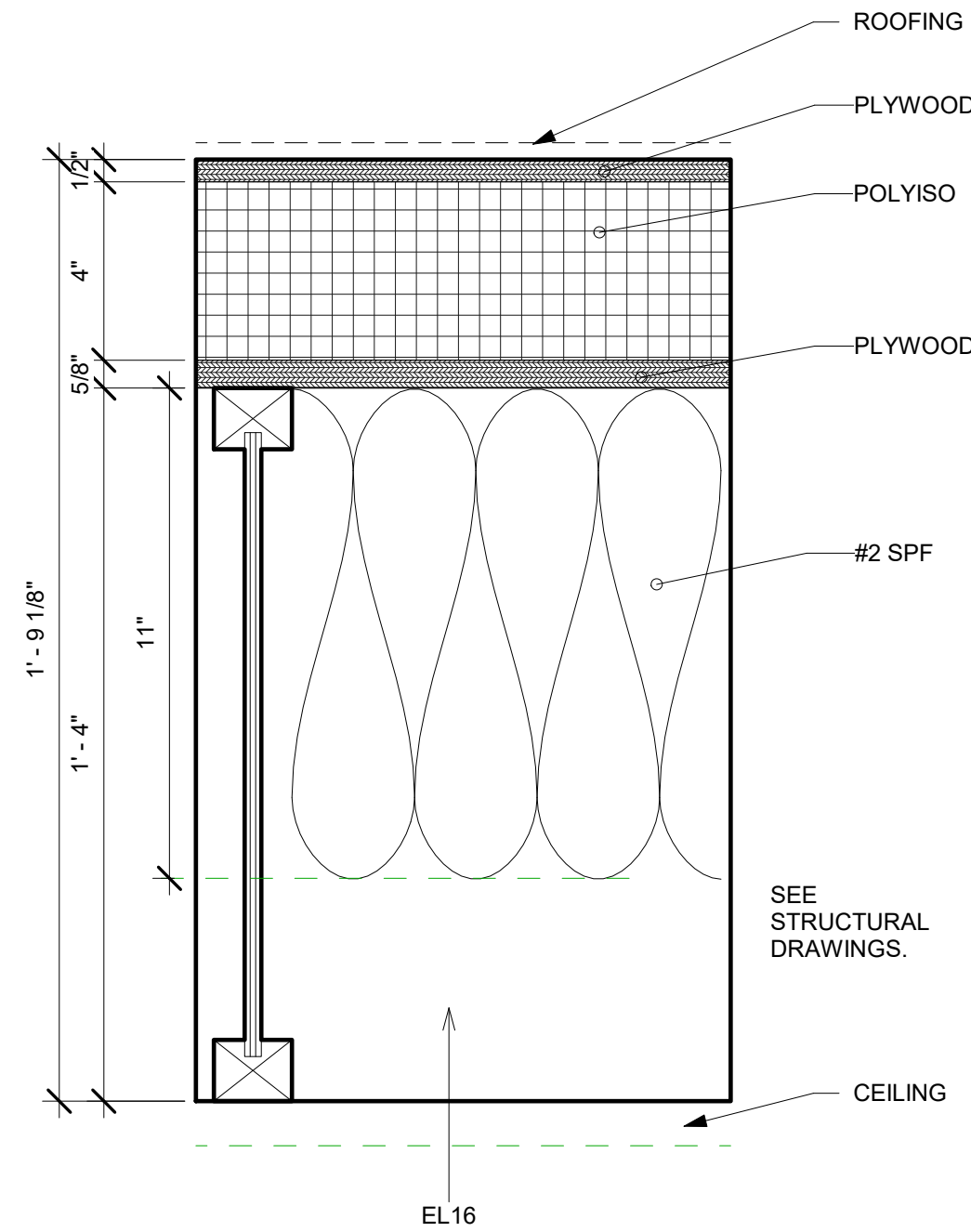
1 CEILING DL6
3" = 1'-0"

C30 CEILINGS			
	ASSEMBLY CODE	AREA	DESCRIPTION
DL6	C3030220	132 SF	ACCORDION DOOR SOFFIT
GC-1	C3030310	1205 SF	GYP SUM BOARD
GC-2	C3030220	540 SF	GYP SUM BOARD
MS1	C3030220	87 SF	GWB ON MTL STUD
MS2	C3030220	47 SF	GWB ON MTL STUD ON GWB
MS6	C3030220	178 SF	GWB ON MTL STUD
SC1	C3030210	2055 SF	ACOUSTICAL CEILING TILES
Grand total: 23		4245 SF	

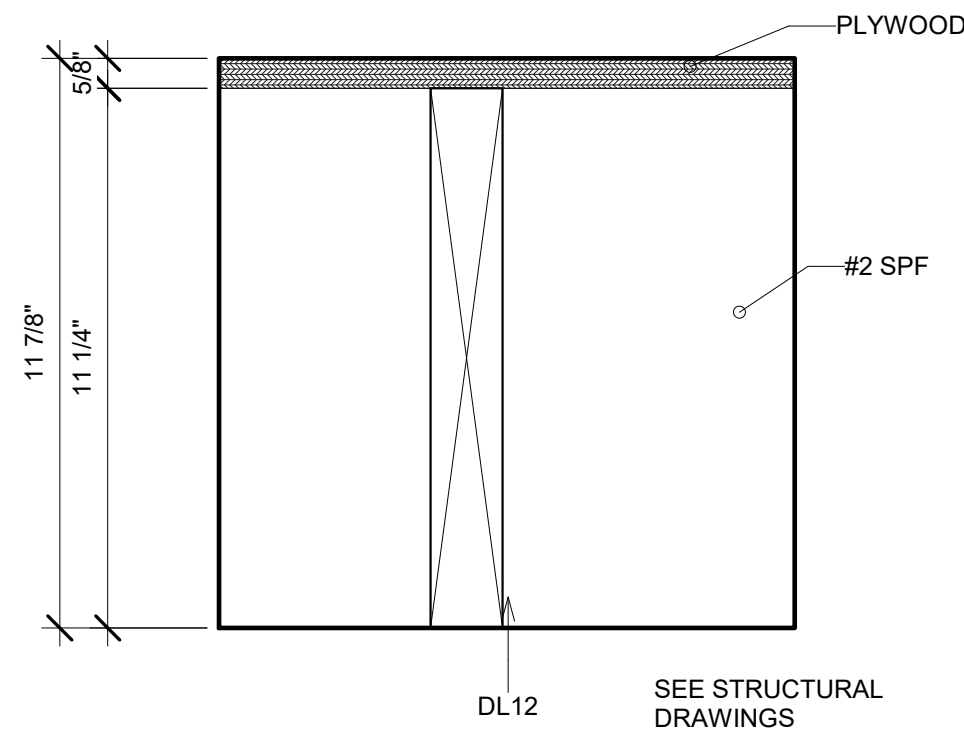
B30 ROOFS			
TYPE MARK	ASSEMBLY CODE	AREA	DESCRIPTION
DL8	B1020400	184 SF	BRACING
DL12	B1020400	159 SF	2X12 FRAMING
EL16	B1020400	2250 SF	TRUSS JOIST FRAMING
MR1	B1020	607 SF	ROOF RATING ASSEMBLY
TR1	B3010150	9909 SF	ASPHALT SHINGLES
Grand total: 8		13109 SF	

SEE G-001 FOR EXPLANATION OF ASSEMBLY NAMING

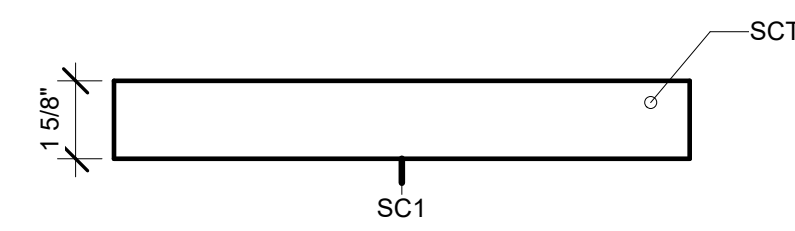
ASSEMBLY NAMING
12" = 1'-0"



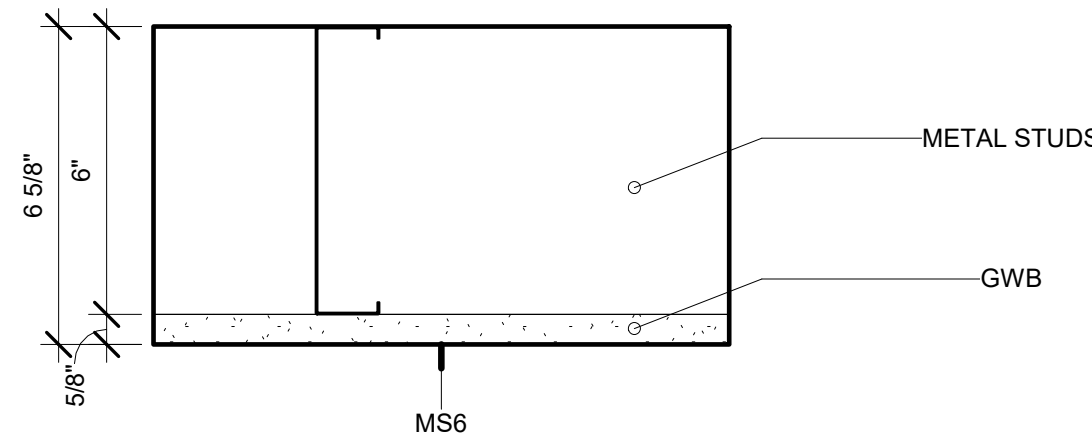
9 ROOF EL16
3" = 1'-0"



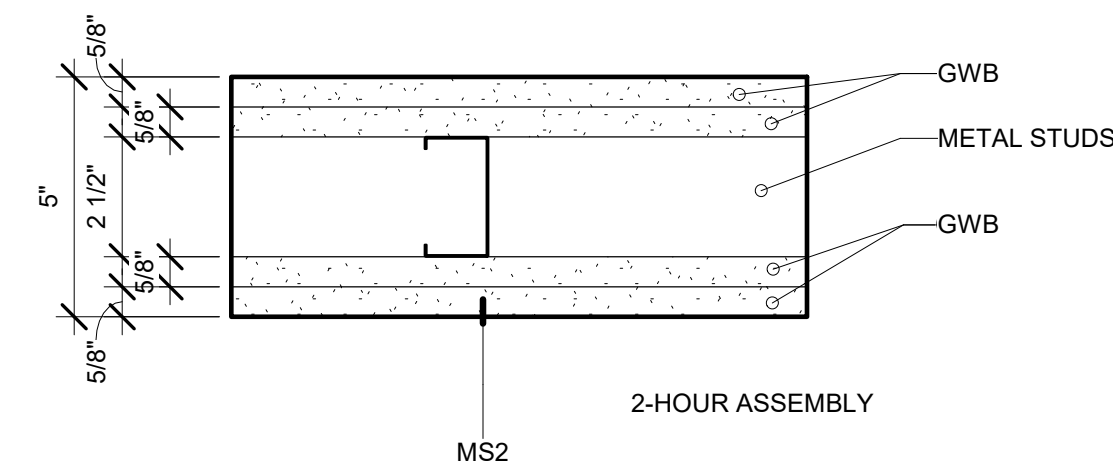
8 ROOF DL12
3" = 1'-0"



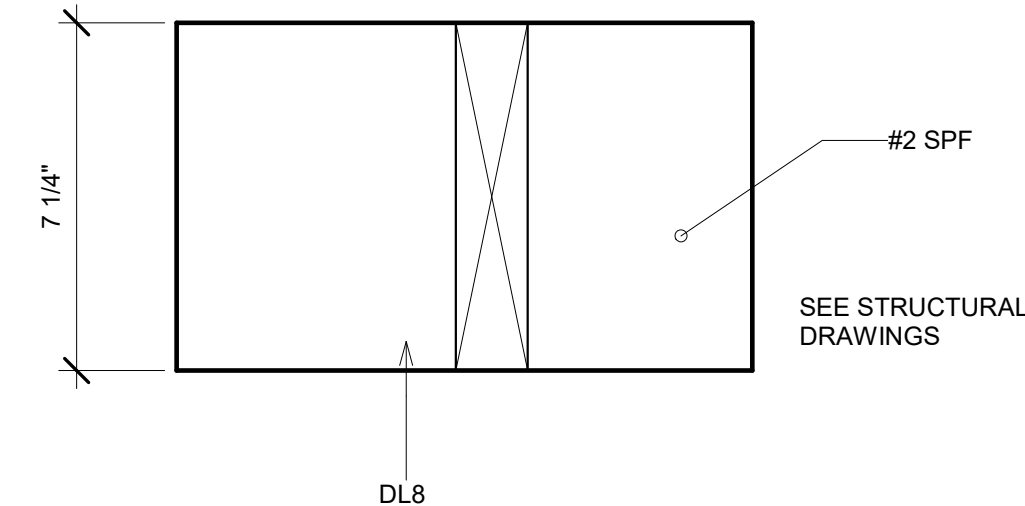
7 CEILING SC1
3" = 1'-0"



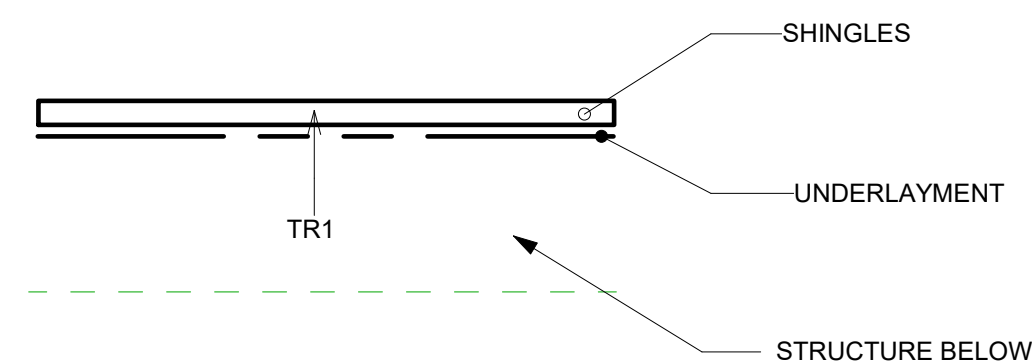
6 CEILING MS6
3" = 1'-0"



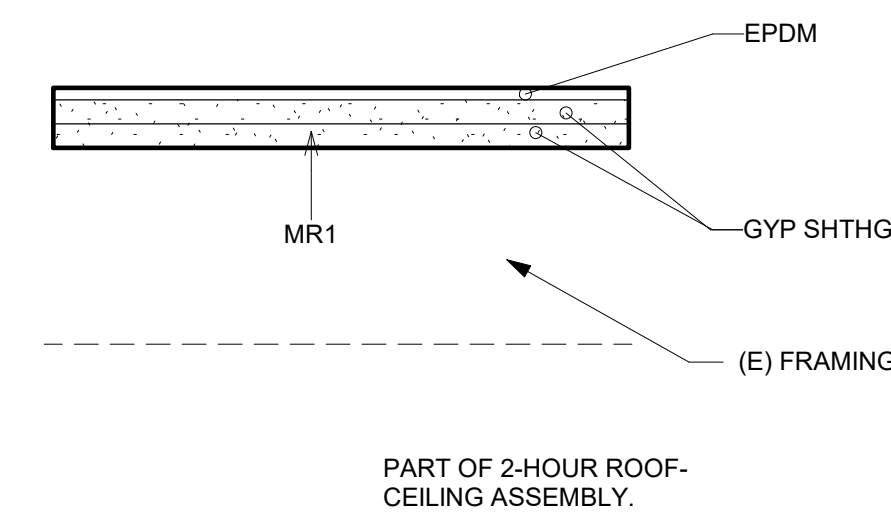
5 CEILING MS2
3" = 1'-0"



12 ROOF DL8
3" = 1'-0"

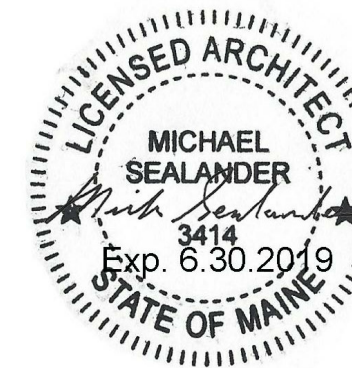


11 ROOF TR-1
3" = 1'-0"



10 ROOF MR-1
3" = 1'-0"

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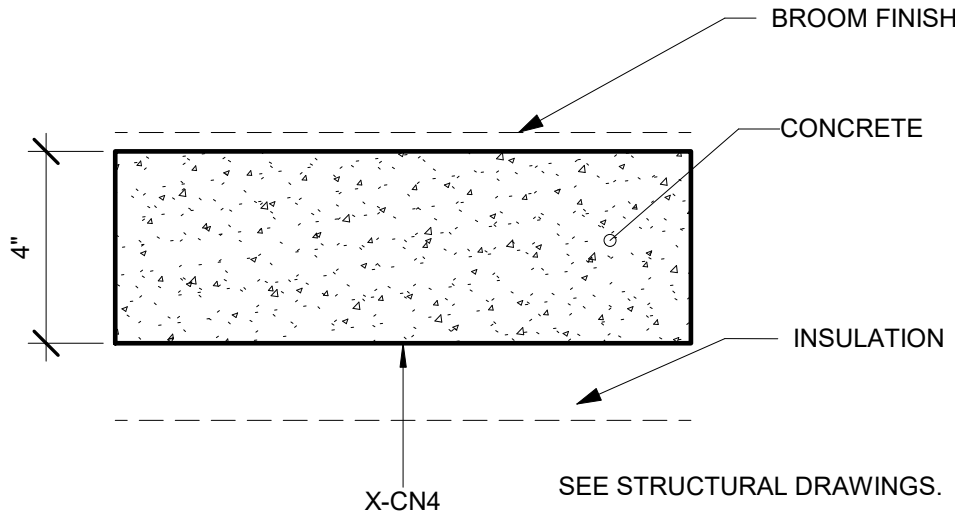
RSU 18 CHINA MIDDLE SCHOOL ADDITION

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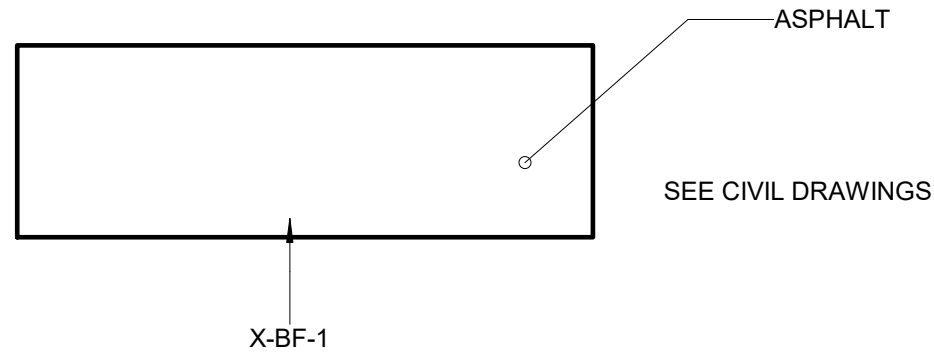
ROOF AND
CEILING
ASSEMBLIES

A-020

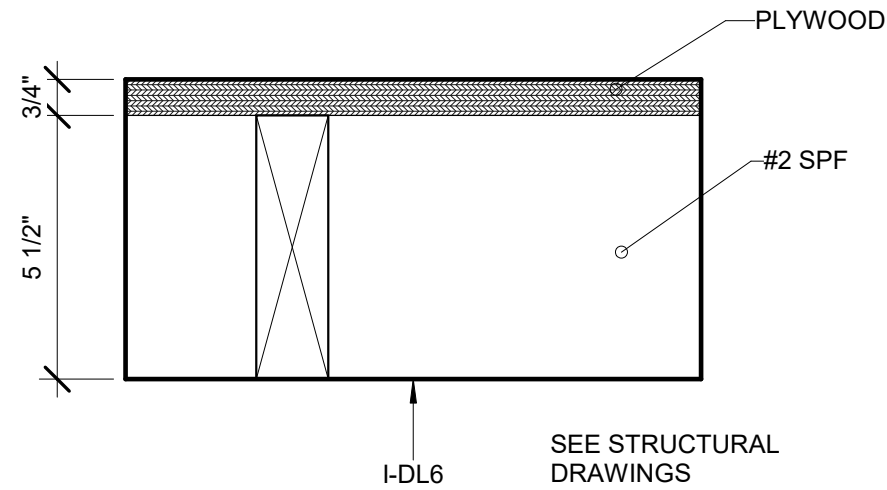
4 FLOOR X-CN4
3" = 1'-0"



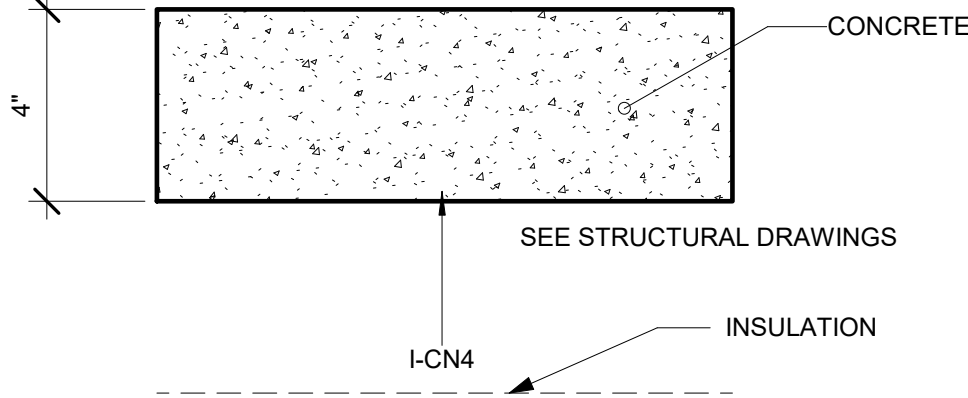
3 FLOOR X-BF-1
3" = 1'-0"



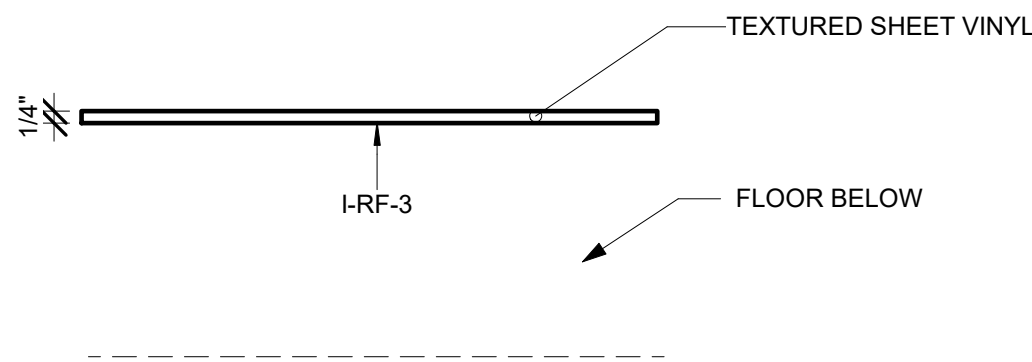
2 FLOOR I-DL6
3" = 1'-0"



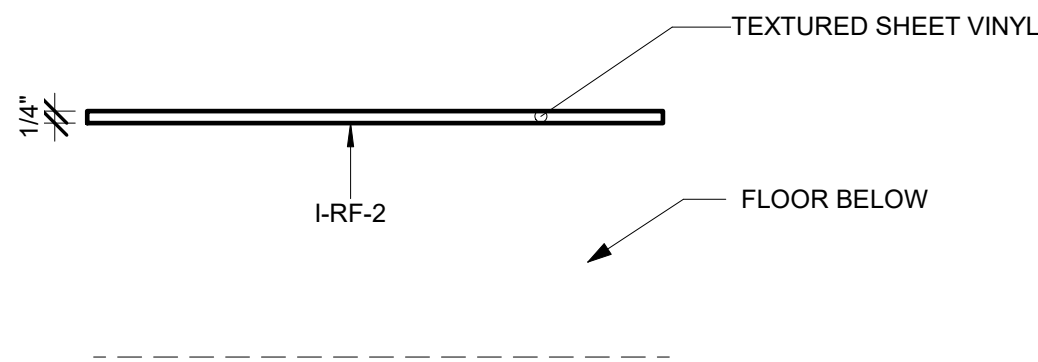
1 FLOOR I-CN4
3" = 1'-0"



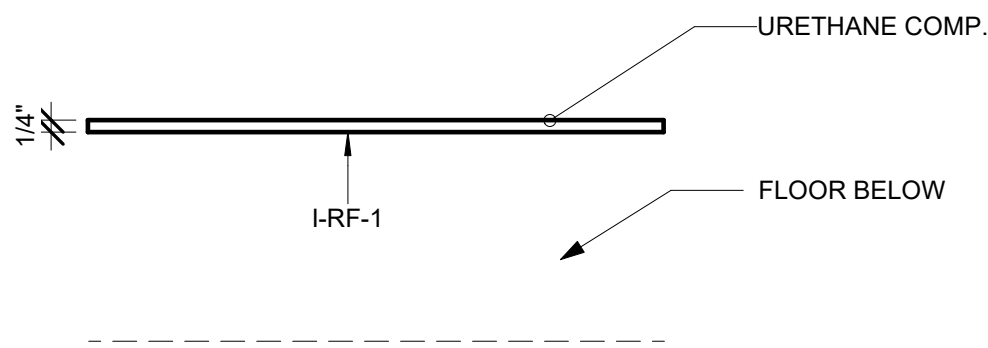
11 FLOOR I-RF-3
3" = 1'-0"



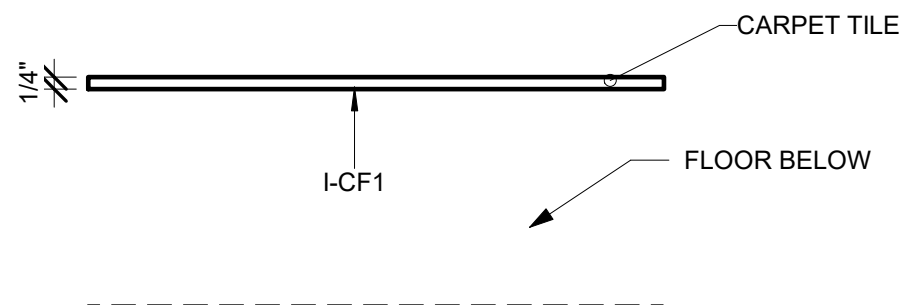
8 FLOOR I-RF-2
3" = 1'-0"



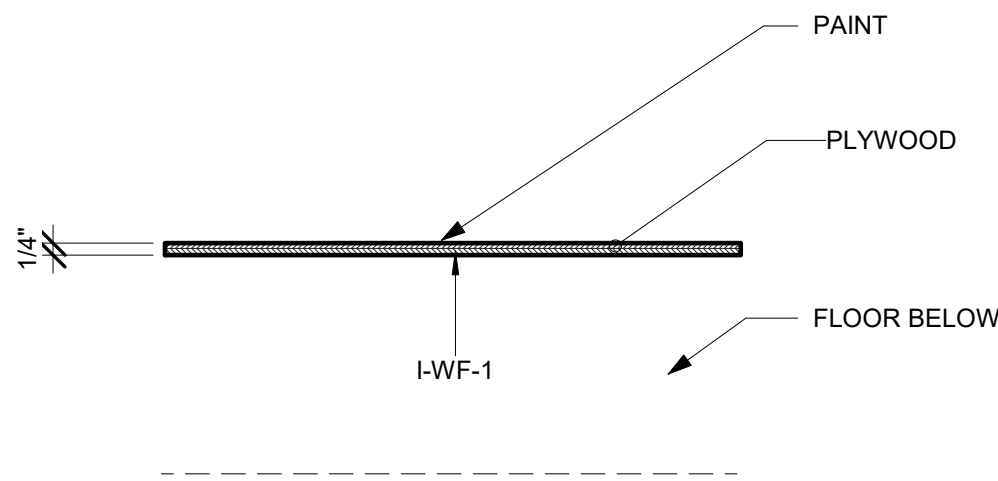
7 FLOOR I-RF-1
3" = 1'-0"



6 FLOOR I-CF1
3" = 1'-0"



10 FLOOR I-WF-1
3" = 1'-0"



B10 STRUCTURAL FLOORS				
TYPE MARK	FUNCTION	ASSEMBLY CODE	AREA	DESCRIPTION
I-CN4	Interior	A1030110	2229 SF	CONCRETE SLAB
I-DL6	Interior	B1010	1473 SF	RAMP FRAMING
X-BF-1	Exterior	G2030200	253 SF	ASPHALT. SEE CIVIL DWGS
X-CN4	Exterior	A1030110	52 SF	LANDING
X-RT2	Exterior	A1030100	2074 SF	UNDERSLAB INSULATION
Grand total: 11			6080 SF	

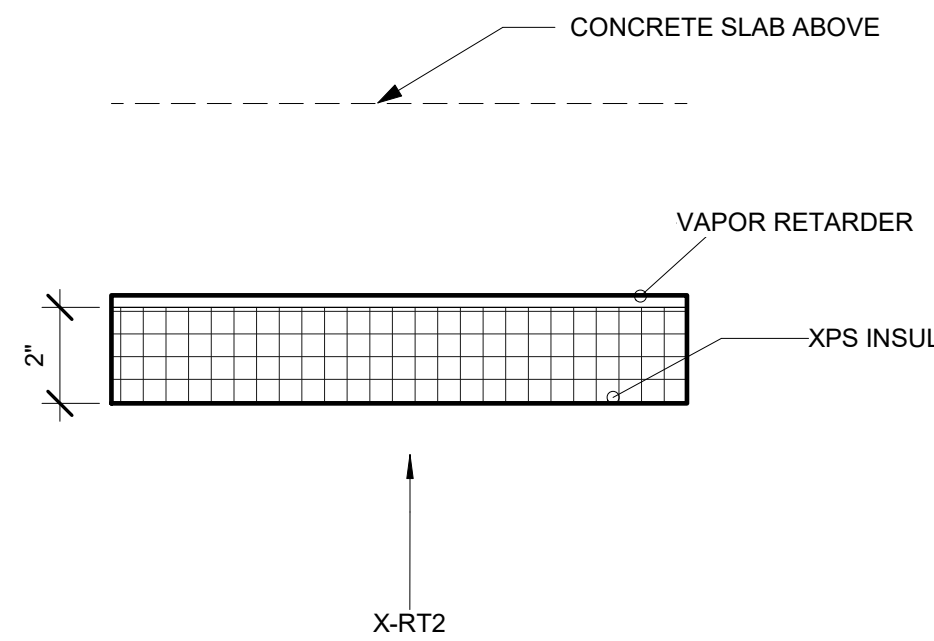
C30 FLOOR FINISHES				
TYPE MARK	FUNCTION	ASSEMBLY CODE	AREA	DESCRIPTION
I-CF1	Interior	C3020510	577 SF	CARPET TILE
I-RF-1	Interior	C3020440	4656 SF	URETHANE ATHLETIC FLOOR
I-RF-2	Interior	C3020440	172 SF	SHEET VINYL
I-RF-3	Interior	C3020440	113 SF	SHEET VINYL
I-TF-1	Interior	C3020520	1100 SF	VINYL TILE
I-WF-1	Interior	C3020810	743 SF	HARDBOARD

SEE G-001 FOR EXPLANATION OF ASSEMBLY NAMING

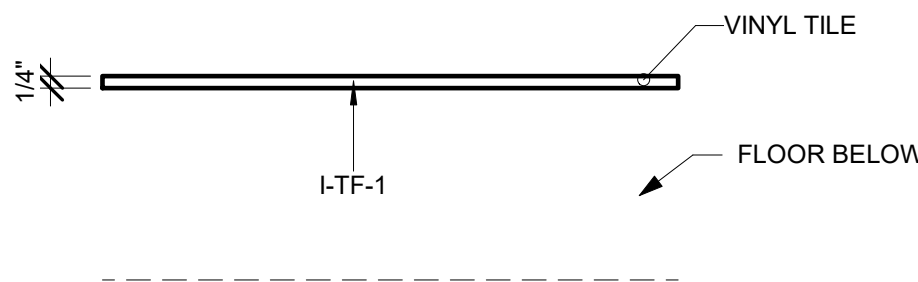
ASSEMBLY NAMING

12" = 1'-0"

5 FLOOR X-RT2
3" = 1'-0"



9 FLOOR I-TF-1
3" = 1'-0"



RSU 18

CHINA MIDDLE SCHOOL ADDITION

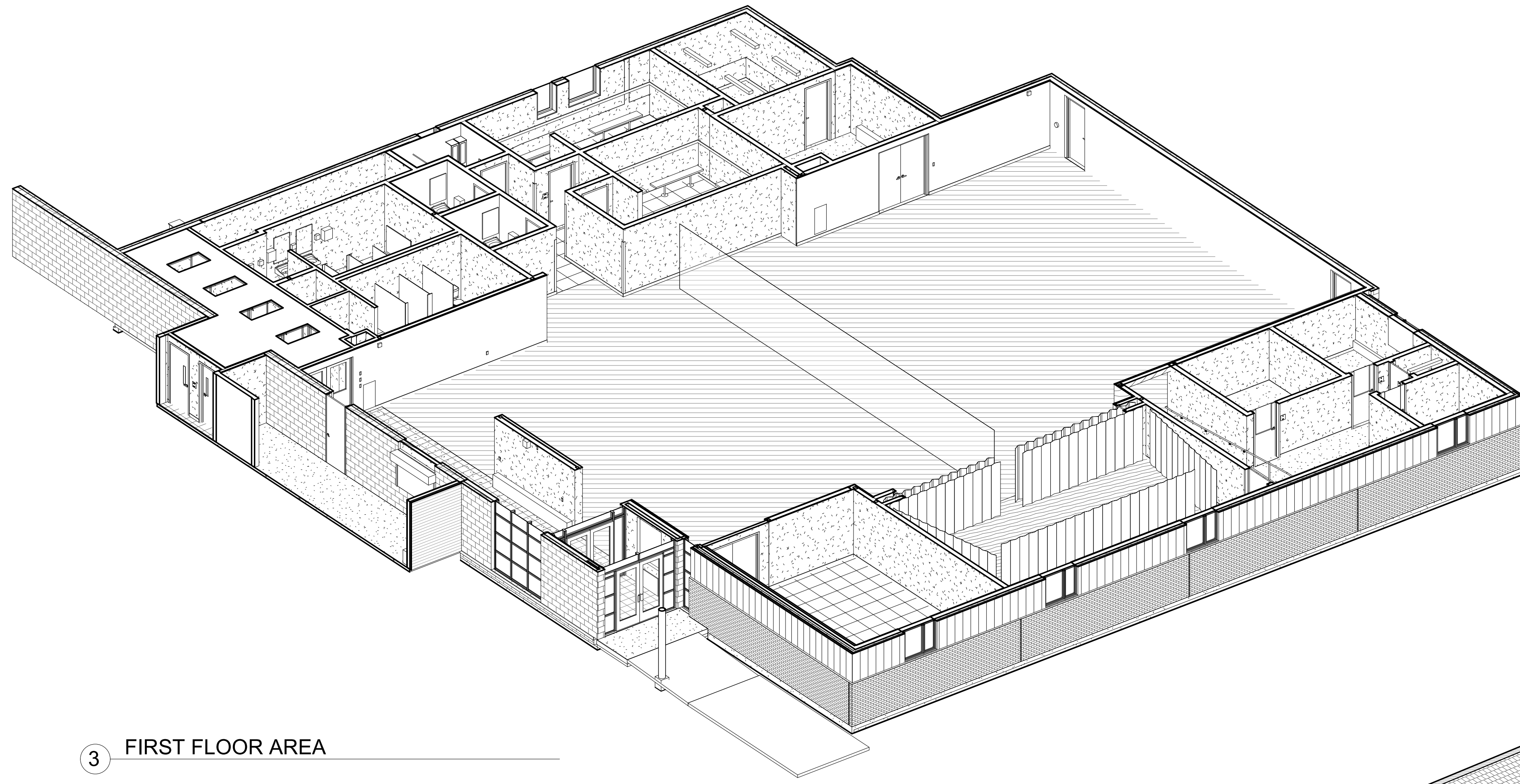
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4/8/2019 9:13:21 AM

FLOOR
ASSEMBLIES

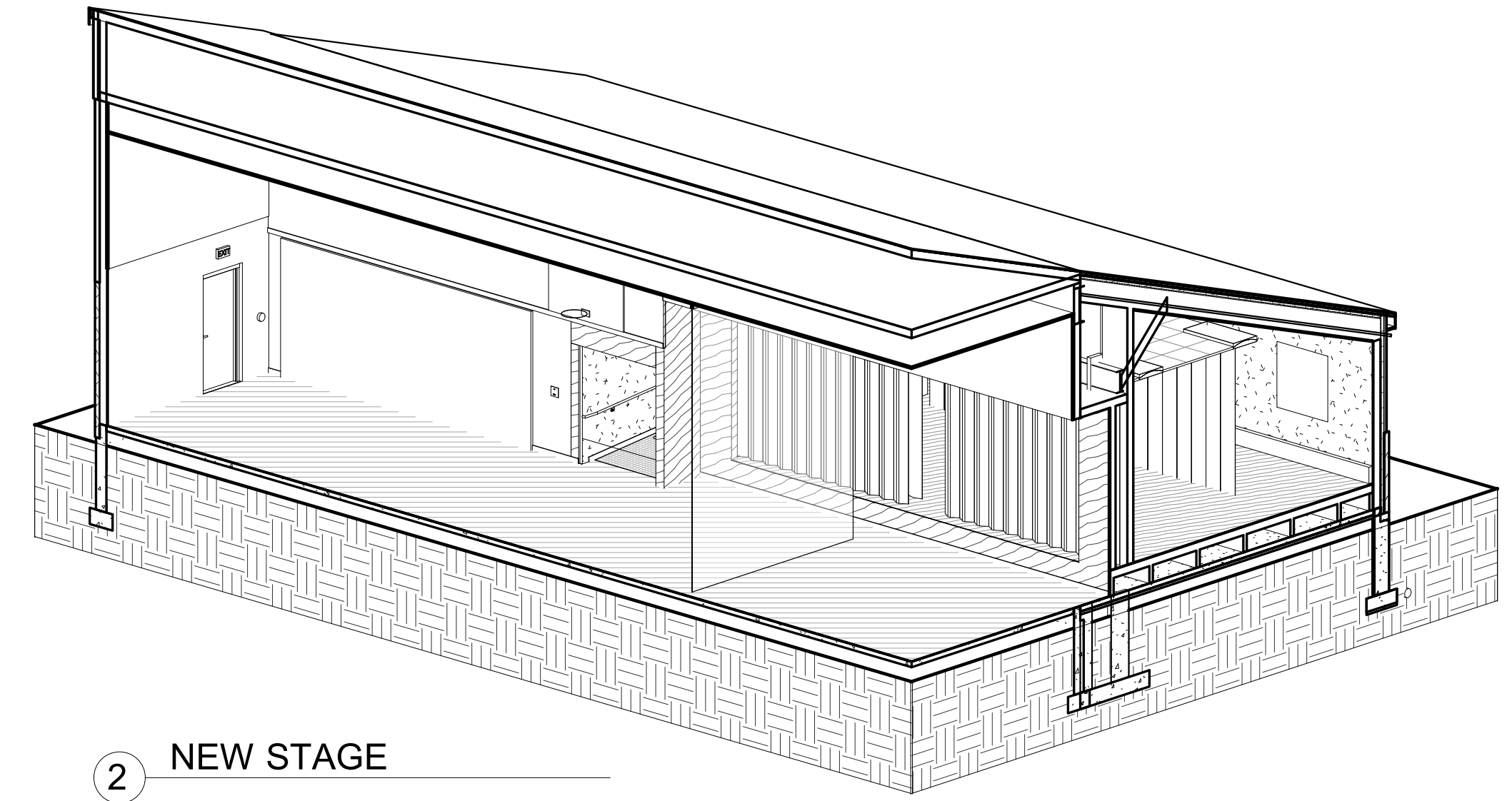
A-021



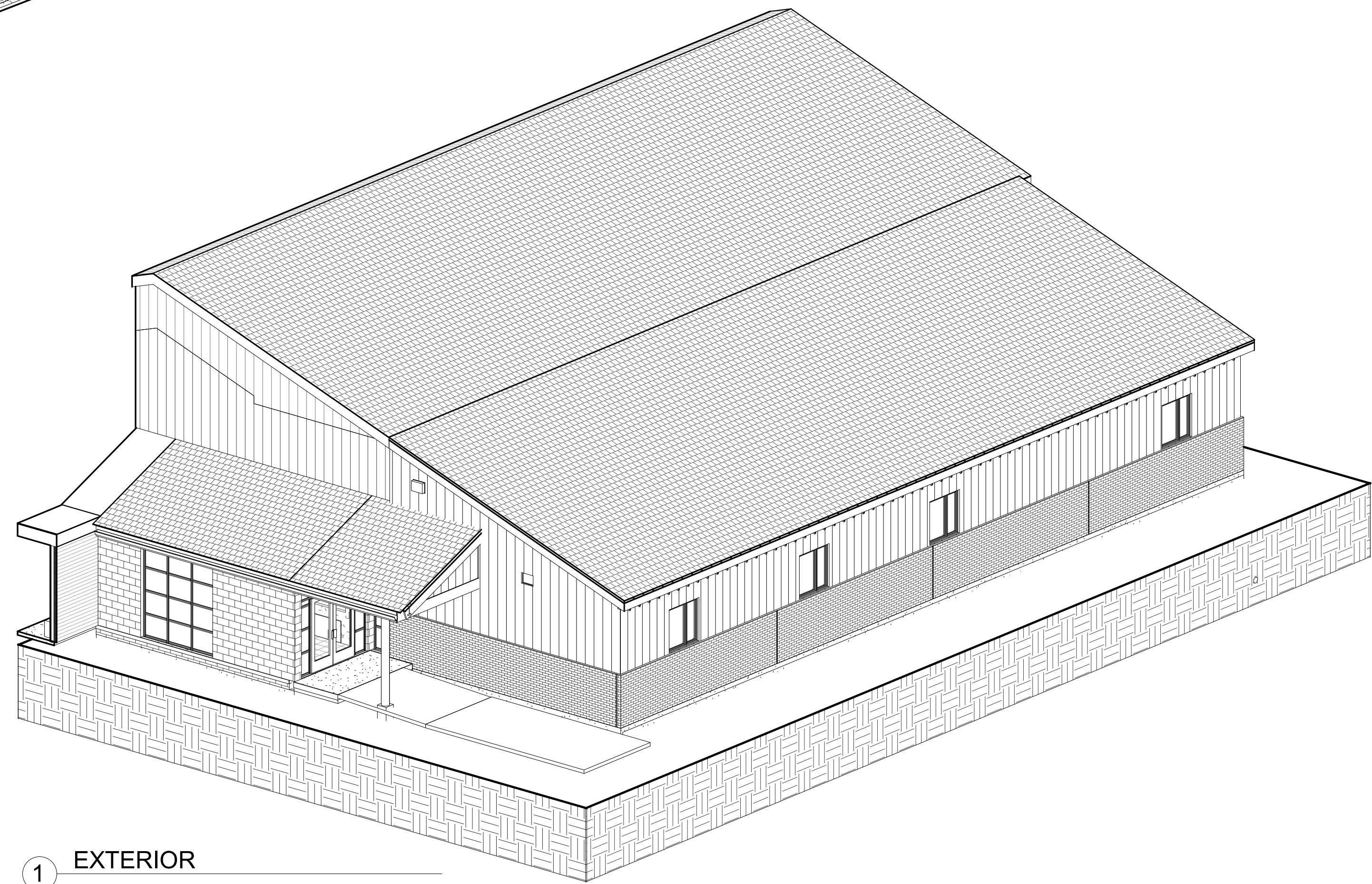
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3 FIRST FLOOR AREA



2 NEW STAGE



1 EXTERIOR

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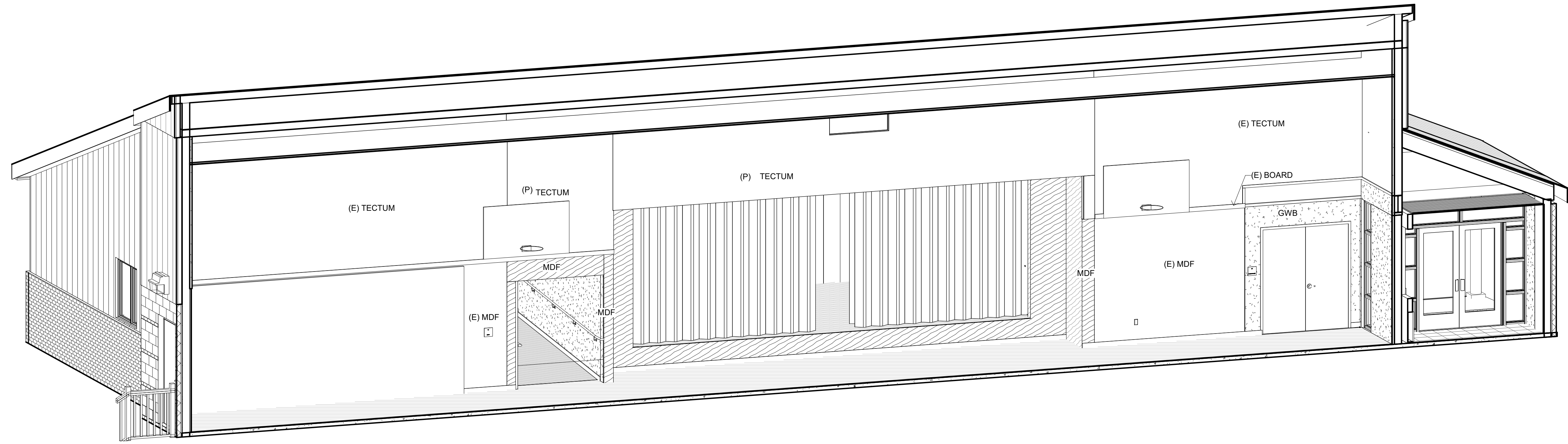


RSU 18
CHINA MIDDLE SCHOOL ADDITION

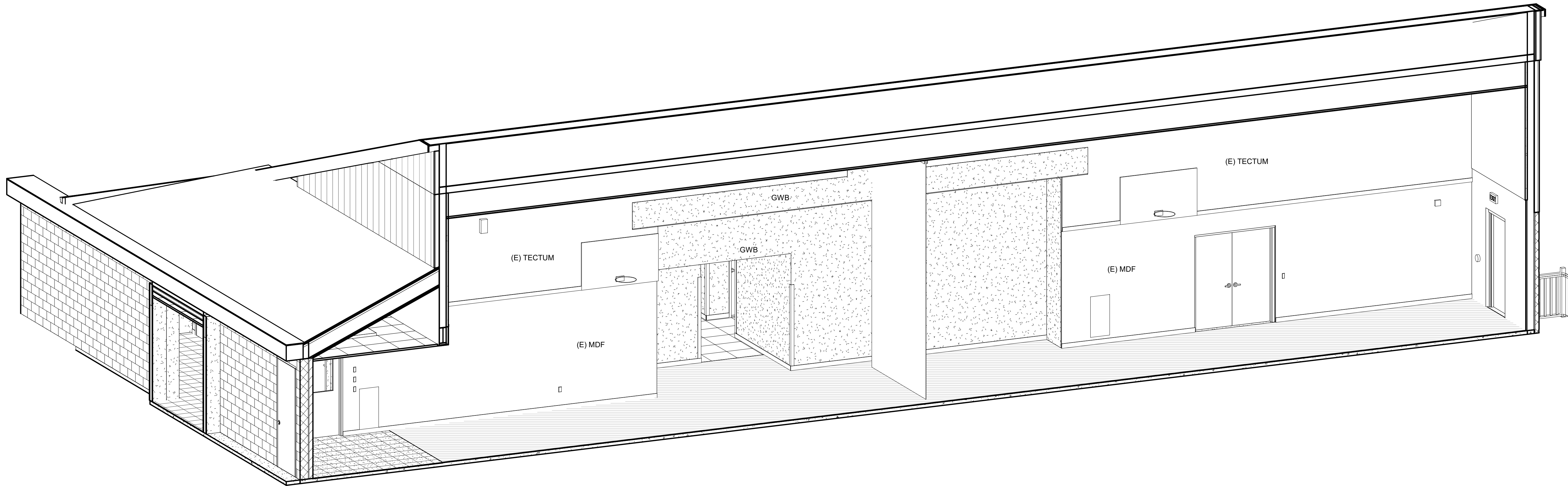
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AXONOMETRICS

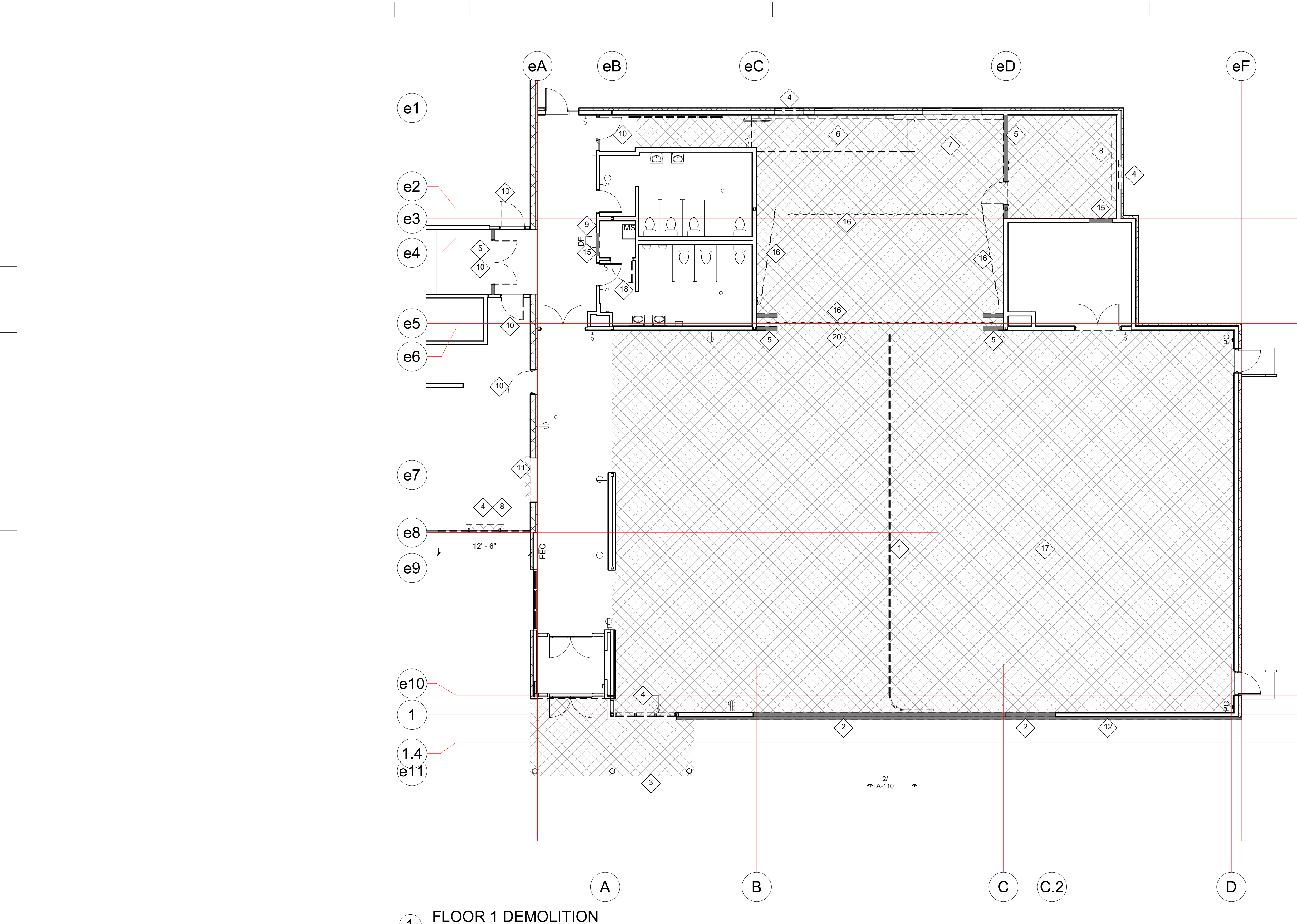
A-040



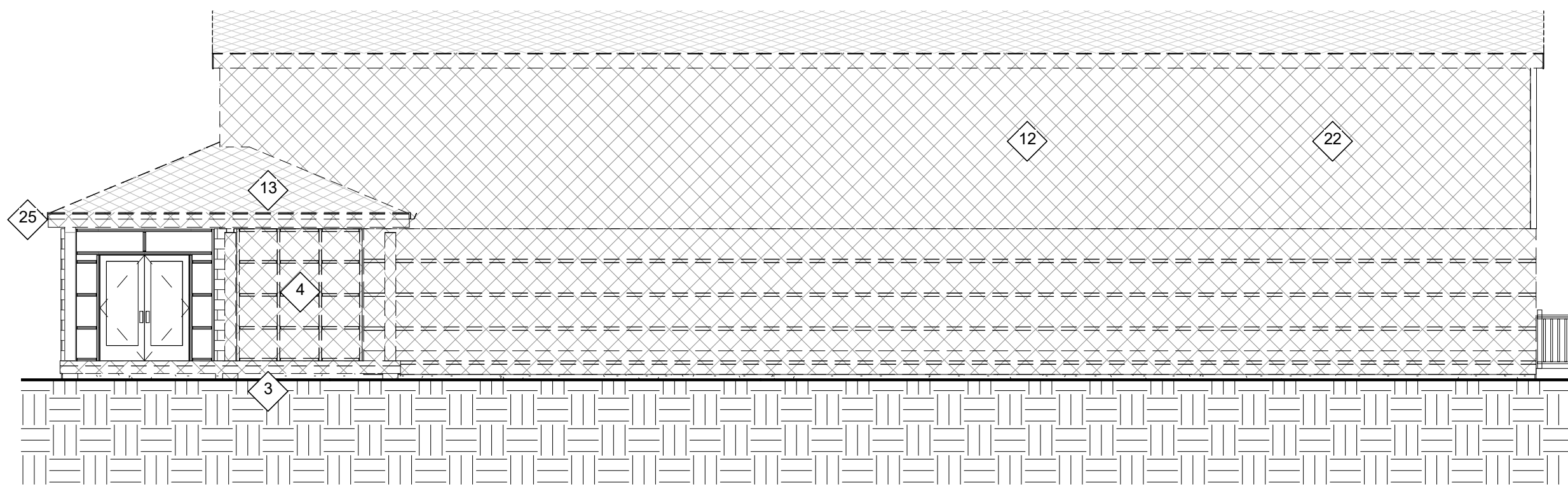
1 100 GYMNASIUM WEST



2 100 GYMNASIUM EAST



1 FLOOR 1 DEMOLITION
A-401 1/8" = 1'-0"



2 EXTERIOR DEMOLITION
A-110 1/8" = 1'-0"

1. SEE STRUCTURAL, MECHANICAL, ELECTRICAL AND PIPING SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
2. SEE DEMOLITION ELEVATIONS.
3. THE WORK REQUIRES MISCELLANEOUS REMOVAL OF FINISH PANELS, DEMOLITION AND PATCHING NOT SHOWN ON DEMOLITION DRAWINGS IN ORDER TO COMPLETE THE WORK. THIS DEMOLITION WORK IS A PART OF THE PROJECT.
4. NOTE TAGS IN ROOMS INDICATED REQUIREMENTS TYPICAL FOR THAT ROOM.
5. SEE SPECIFICATION SECTION 01 23 00 FOR A FULL DESCRIPTION OF ALTERNATES.
6. (P) TECTUM PANELS FOR RE-USE.

DEMOLITION NOTES

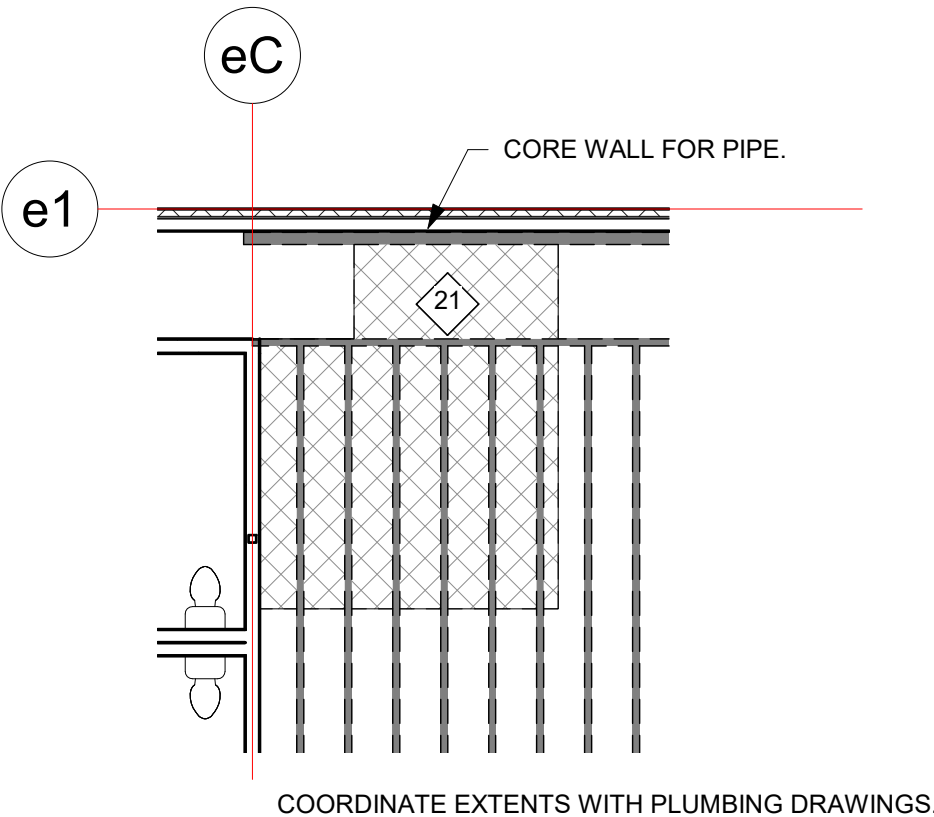
12" = 1'-0"

TAGGED NOTES- DEMOLITION	
Demo note	Description
1	(R) GYM CURTAIN
2	(R) EXTERIOR WALL FOR NEW OPENING
3	(R) APRON AND FOUNDATION
4	(R) WINDOW
5	(R) WALL
6	(R) RAMP AND RAILS
7	(R) RAISED FLOOR AND SUPPORTS
8	(R) HEATER
9	(R) DRINKING FOUNTAIN
10	(R) DOOR
11	(R) SHUTTER
12	(R) EXTERIOR SIDING
13	(R) PORTION OF ROOF AND FRAMING
15	(R) PORTION OF WALL FOR NEW OPENING
16	(P) CURTAIN AT NEW LOCATION
17	(R) GYM FLOORING ADD ALT
18	(P) DOOR AND RELOCATE
19	(R) CEILING
20	(R) ACCORDION PARTITION
21	(R) SLAB FOR PLUMBING
22	SEE STRUCTURAL DRAWINGS FOR EXTENT OF GYPSUM SHEATHING REMOVAL
23	(R) REMOVE ROOF SHINGLES ADD ALT.
24	(R) REMOVE EPDM ROOFING
25	(R) GUTTER

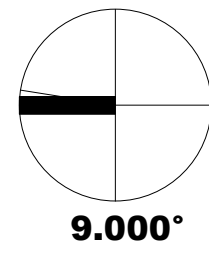
- ALTERNATES
1. RESHINGLE EXISTING GYM ROOF
2. REPLACE EXISTING GYM FLOORING AND BASE
3. CHANGE IN DATE OF FINAL COMPLETION

ALTERNATES

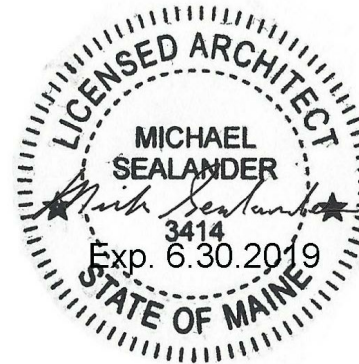
12" = 1'-0"



3 FLOOR 1 SLAB DEMOLITION
A-401 1/8" = 1'-0"



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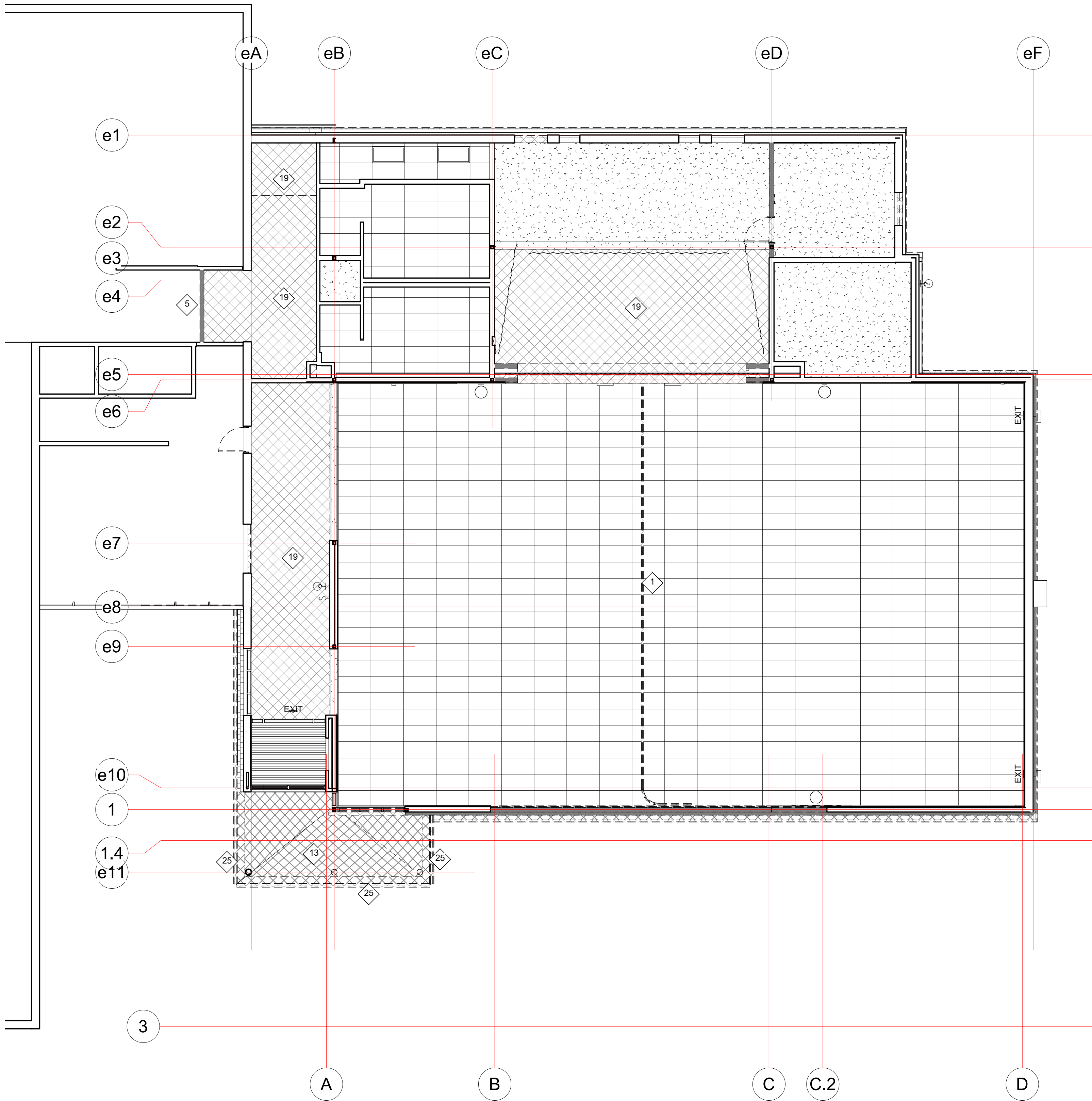


RSU 18
CHINA MIDDLE SCHOOL ADDITION

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DEMOLITION
PLAN AND
ELEVATION

A-110



1. SEE STRUCTURAL, MECHANICAL, ELECTRICAL AND PIPING SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
2. SEE DEMOLITION ELEVATIONS.
3. THE WORK REQUIRES MISCELLANEOUS REMOVAL OF FINISH PANELS, DEMOLITION AND PATCHING NOT SHOWN ON DEMOLITION DRAWINGS IN ORDER TO COMPLETE THE WORK. THIS DEMOLITION WORK IS A PART OF THE PROJECT.
4. NOTE TAGS IN ROOMS INDICATED REQUIREMENTS TYPICAL FOR THAT ROOM.
5. SEE SPECIFICATION SECTION 01 23 00 FOR A FULL DESCRIPTION OF ALTERNATES.
6. (P) TECTUM PANELS FOR RE-USE.

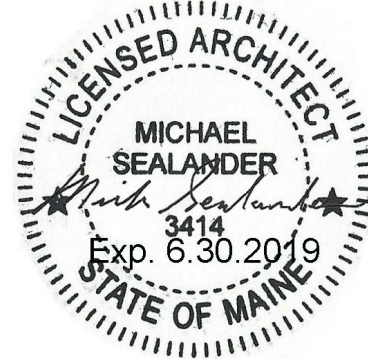
DEMOLITION NOTES

12" = 1'-0"

TAGGED NOTES- DEMOLITION	
Demo note	Description
1	(R) GYM CURTAIN
2	(R) EXTERIOR WALL FOR NEW OPENING
3	(R) APRON AND FOUNDATION
4	(R) WINDOW
5	(R) WALL
6	(R) RAMP AND RAILS
7	(R) RAISED FLOOR AND SUPPORTS
8	(R) HEATER
9	(R) DRINKING FOUNTAIN
10	(R) DOOR
11	(R) SHUTTER
12	(R) EXTERIOR SIDING
13	(R) PORTION OF ROOF AND FRAMING
15	(R) PORTION OF WALL FOR NEW OPENING
16	(P) CURTAIN AT NEW LOCATION
17	(R) GYM FLOORING ADD ALT
18	(P) DOOR AND RELOCATE
19	(R) CEILING
20	(R) ACCORDION PARTITION
21	(R) SLAB FOR PLUMBING
22	SEE STRUCTURAL DRAWINGS FOR EXTENT OF GYPSUM SHEATHING REMOVAL
23	(R) REMOVE ROOF SHINGLES ADD ALT.
24	(R) REMOVE EPDM ROOFING
25	(R) GUTTER

1 FLOOR 1
A-401 1/8" = 1'-0"

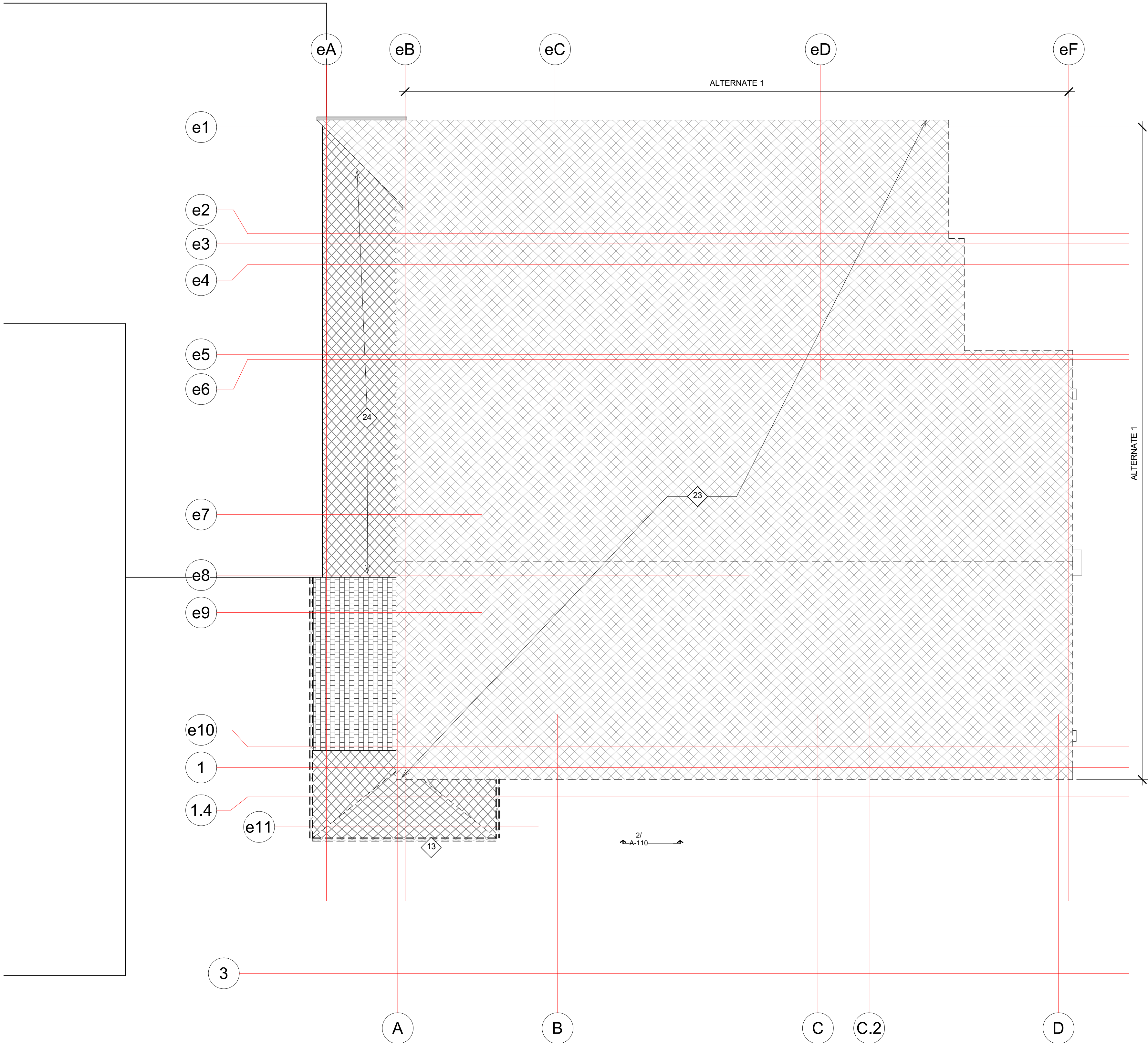
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RSU 18
CHINA MIDDLE SCHOOL ADDITION

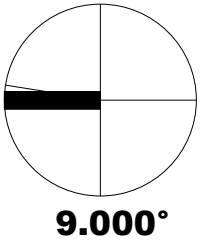
BIDDING
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4/8/2019 9:13:36 AM

REFLECTED
CEILING
DEMOLITION
PLAN
A-111



TAGGED NOTES- DEMOLITION	
Demo note	Description
1	(R) GYM CURTAIN
2	(R) EXTERIOR WALL FOR NEW OPENING
3	(R) APRON AND FOUNDATION
4	(R) WINDOW
5	(R) WALL
6	(R) RAMP AND RAILS
7	(R) RAISED FLOOR AND SUPPORTS
8	(R) HEATER
9	(R) DRINKING FOUNTAIN
10	(R) DOOR
11	(R) SHUTTER
12	(R) EXTERIOR SIDING
13	(R) PORTION OF ROOF AND FRAMING
15	(R) PORTION OF WALL FOR NEW OPENING
16	(P) CURTAIN AT NEW LOCATION
17	(R) GYM FLOORING ADD ALT
18	(P) DOOR AND RELOCATE
19	(R) CEILING
20	(R) ACCORDION PARTITION
21	(R) SLAB FOR PLUMBING
22	SEE STRUCTURAL DRAWINGS FOR EXTENT OF GYPSUM SHEATHING REMOVAL
23	(R) REMOVE ROOF SHINGLES ADD ALT.
24	(R) REMOVE EPDM ROOFING
25	(R) GUTTER

ALTERNATES
1. RESHINGLE EXISTING GYM ROOF
2. REPLACE EXISTING GYM FLOORING AND BASE
3. CHANGE IN DATE OF FINAL COMPLETION



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3414
Exp. 6.30.2019
STATE OF MAINE

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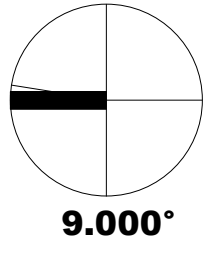
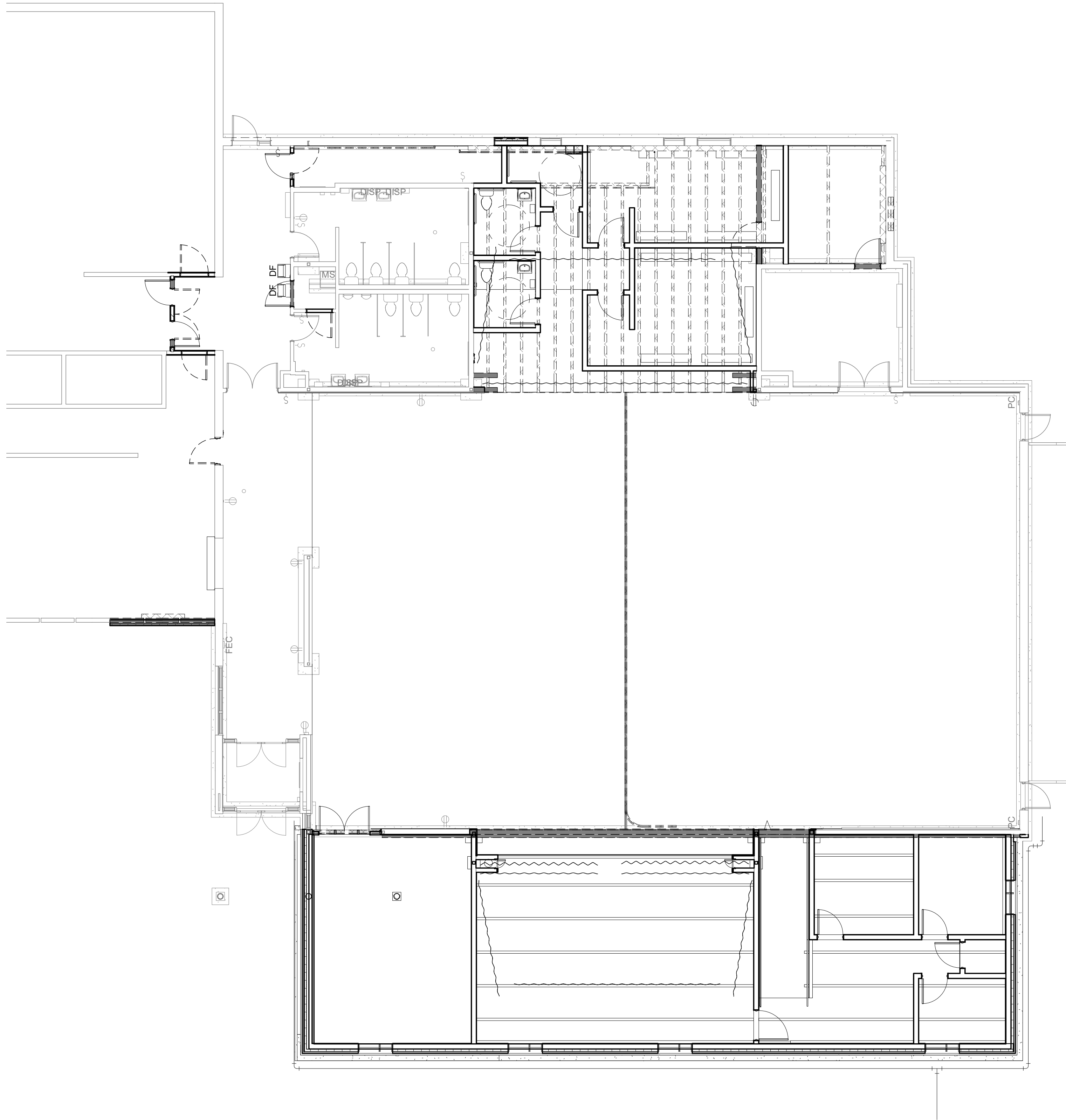
CHINA MIDDLE SCHOOL ADDITION

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ROOF
DEMOLITION

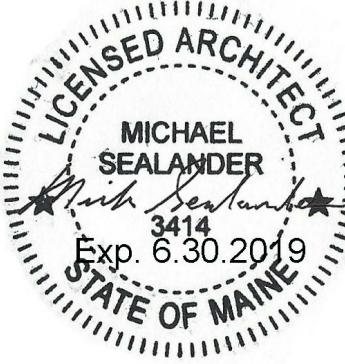
A-120

1 ROOF DEMOLITION
A-401 1/8" = 1'-0"



1 DEMOLITION/NEW OVERLAY
A-401 1/8" = 1'-0"

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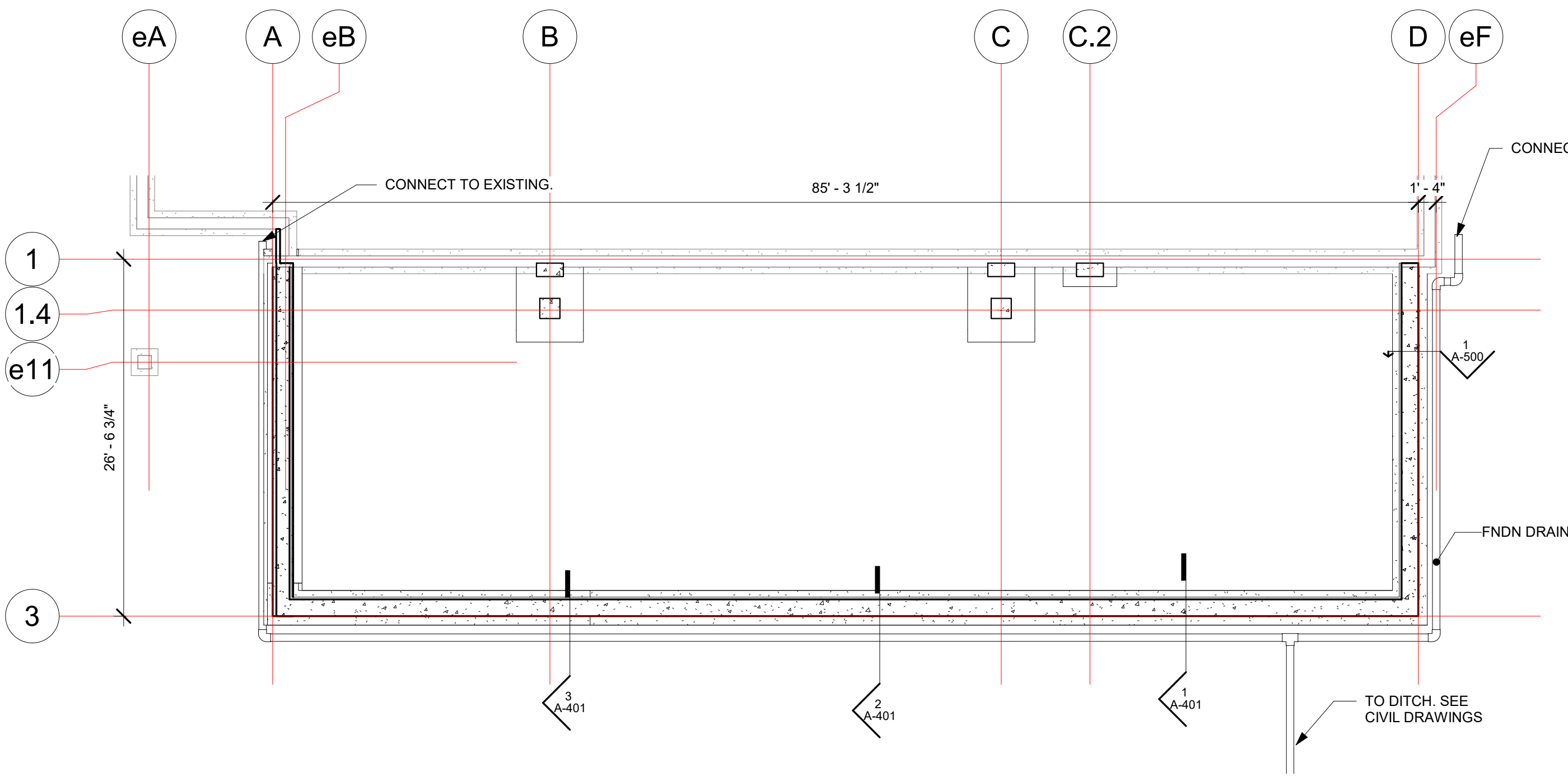
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CHINA MIDDLE SCHOOL ADDITION

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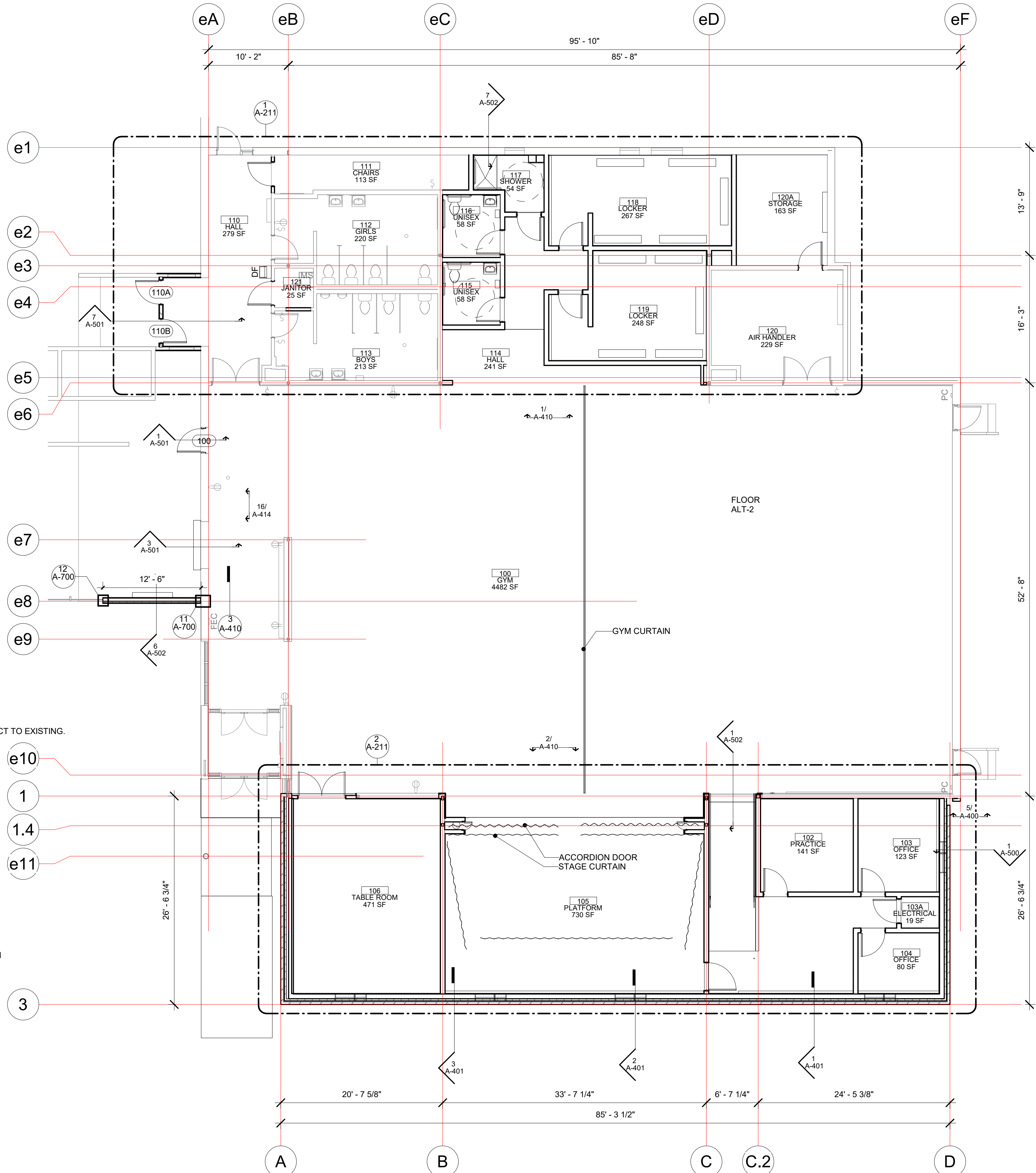
DEMO/NEW
OVERLAY

A-150

00 ROOMS		
NUMBER	NAME	AREA
100	GYM	4482 SF
101	HALL	123 SF
102	PRACTICE	141 SF
103	OFFICE	123 SF
103A	ELECTRICAL	19 SF
104	OFFICE	80 SF
105	PLATFORM	730 SF
106	TABLE ROOM	471 SF
110	HALL	279 SF
111	CHAIRS	113 SF
112	GIRLS	220 SF
113	BOYS	213 SF
114	HALL	241 SF
115	UNISEX	58 SF
116	UNISEX	58 SF
117	SHOWER	54 SF
118	LOCKER	267 SF
119	LOCKER	248 SF
120	AIR HANDLER	229 SF
120A	STORAGE	163 SF
121	JANITOR	25 SF
123	HALL	427 SF
124	KITCHEN	657 SF
136	INSTRUMENTS	205 SF
Grand total: 24		9627 SF

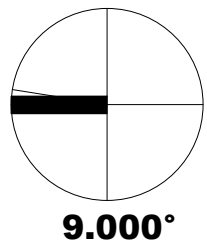


2 FOUNDATION DRAINS
A-500 1/8" = 1'-0"

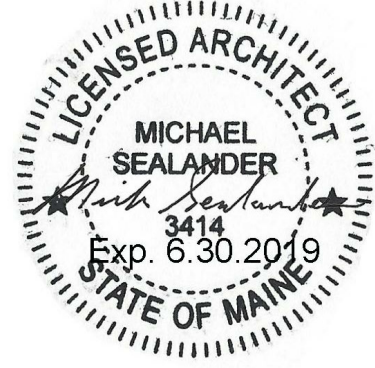


1 FLOOR PLAN
A-401 1/8" = 1'-0"

ALTERNATES
1. RESHINGLE EXISTING GYM ROOF
2. REPLACE EXISTING GYM FLOORING AND BASE
3. CHANGE IN DATE OF FINAL COMPLETION



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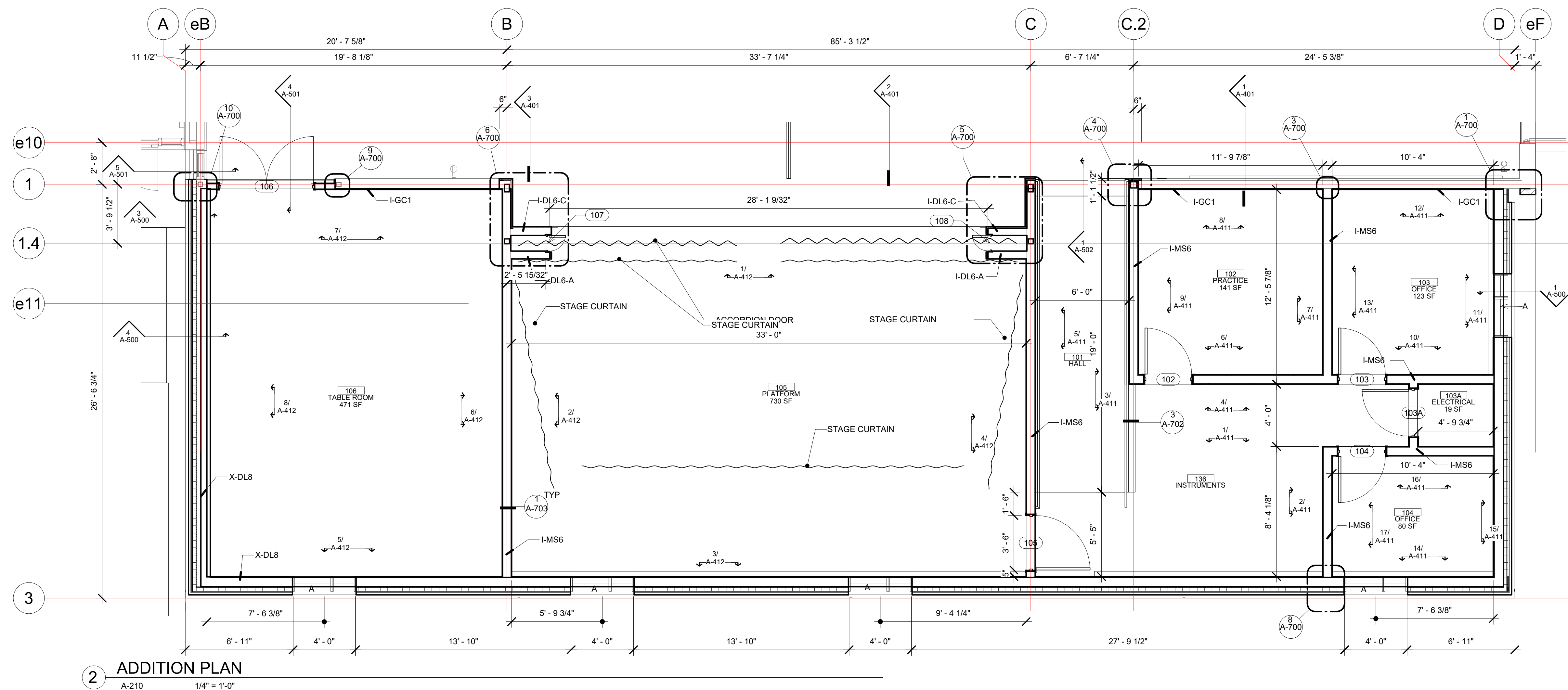
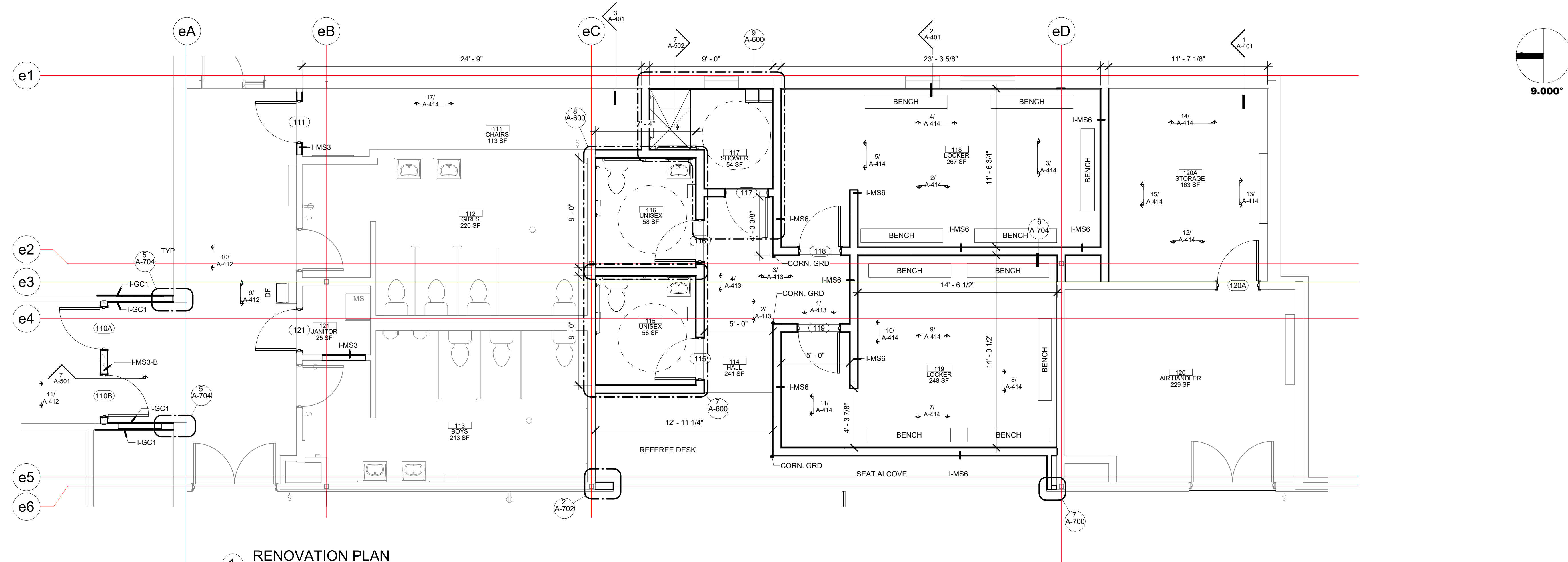


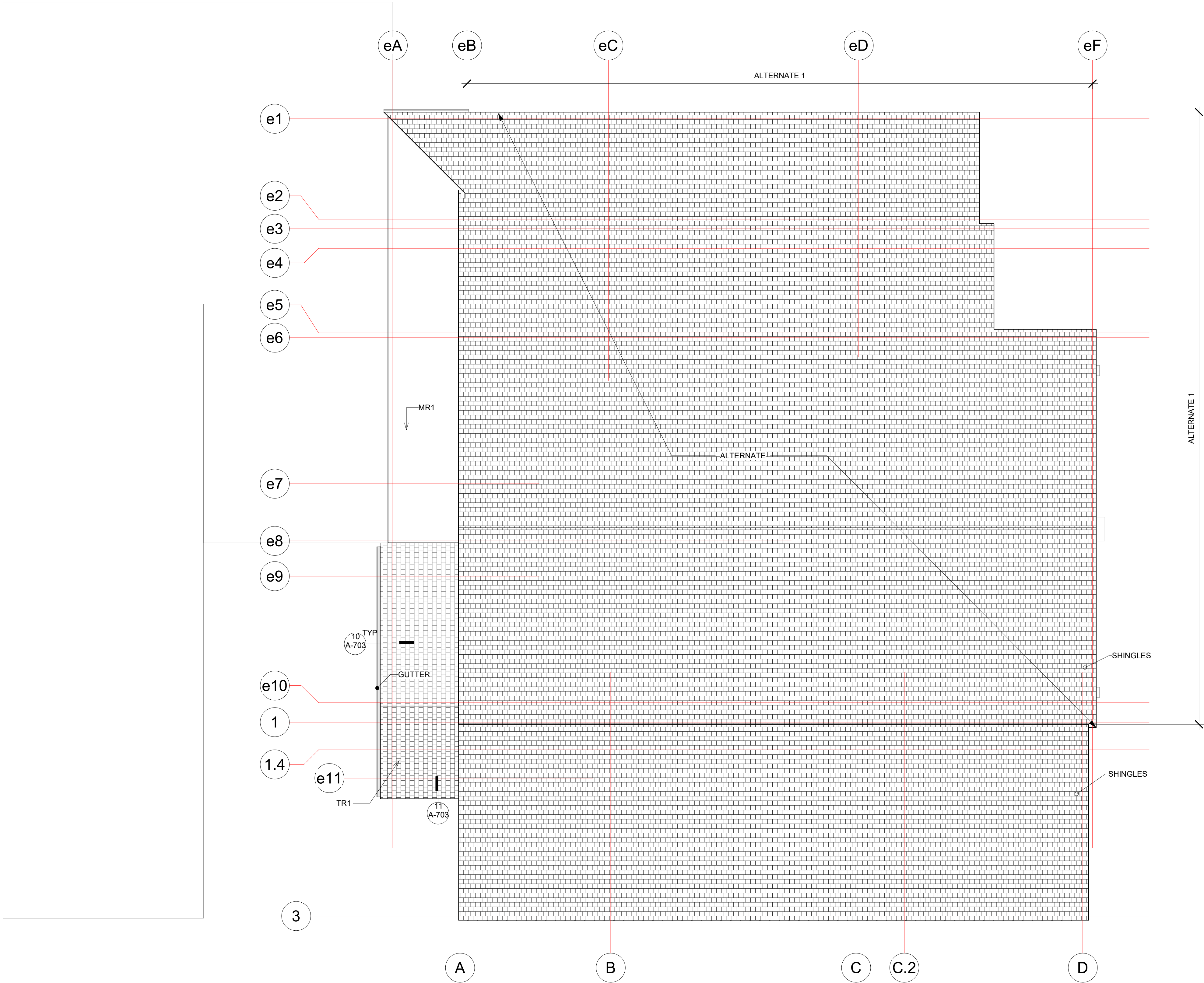
RSU 18
CHINA MIDDLE SCHOOL ADDITION

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KEY PLAN

A-210

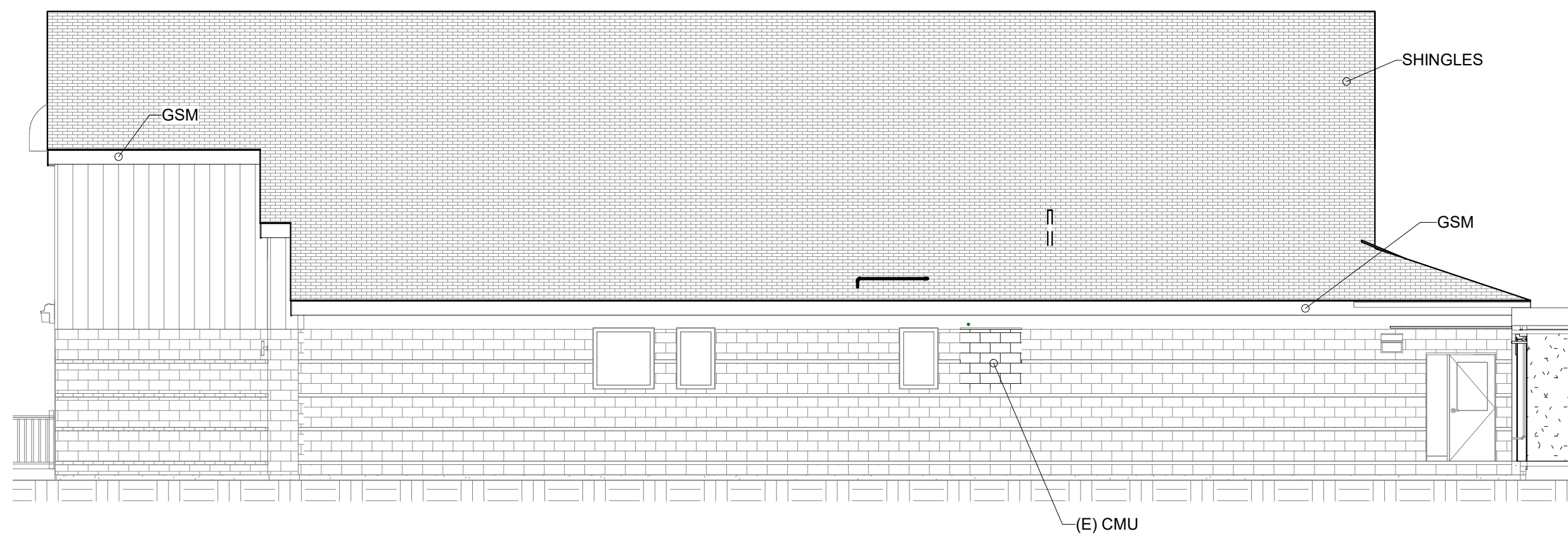




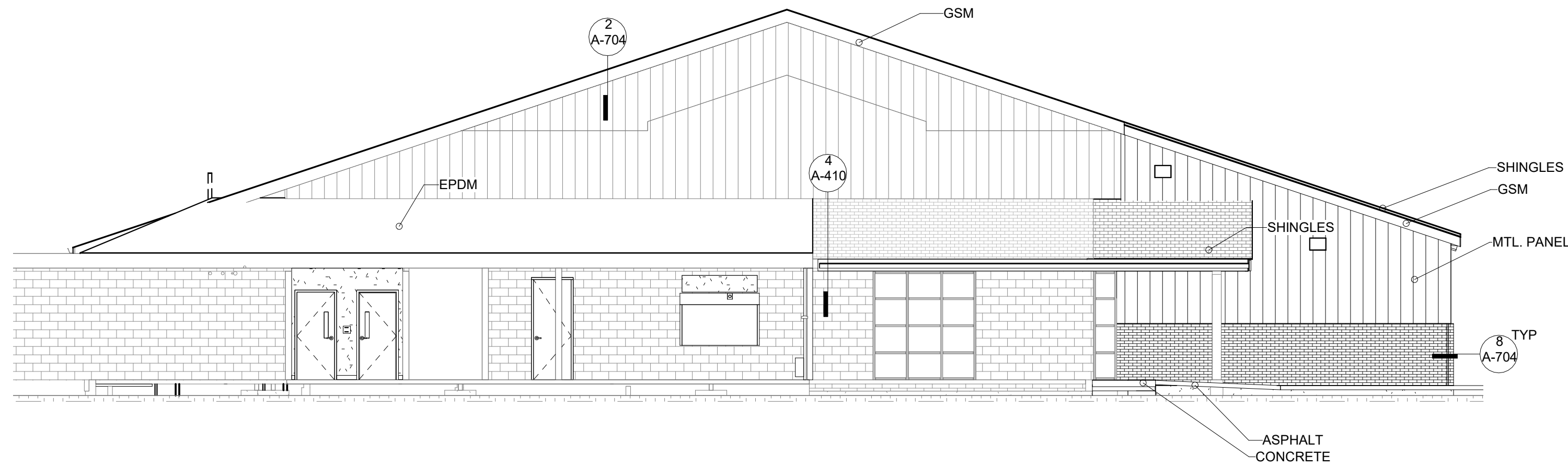
B30 ROOFS ALL			
TYPE MARK	ASSEMBLY CODE	AREA	DESCRIPTION
DL8	B1020400	184 SF	BRACING
DL12	B1020400	159 SF	2X12 FRAMING
EL16	B1020400	2250 SF	TRUSS JOIST FRAMING
MR1	B1020	607 SF	ROOF RATING ASSEMBLY
TR1	B3010150	9909 SF	ASPHALT SHINGLES

- ALTERNATES
1. RESHINGLE EXISTING GYM ROOF
2. REPLACE EXISTING GYM FLOORING AND BASE
3. CHANGE IN DATE OF FINAL COMPLETION

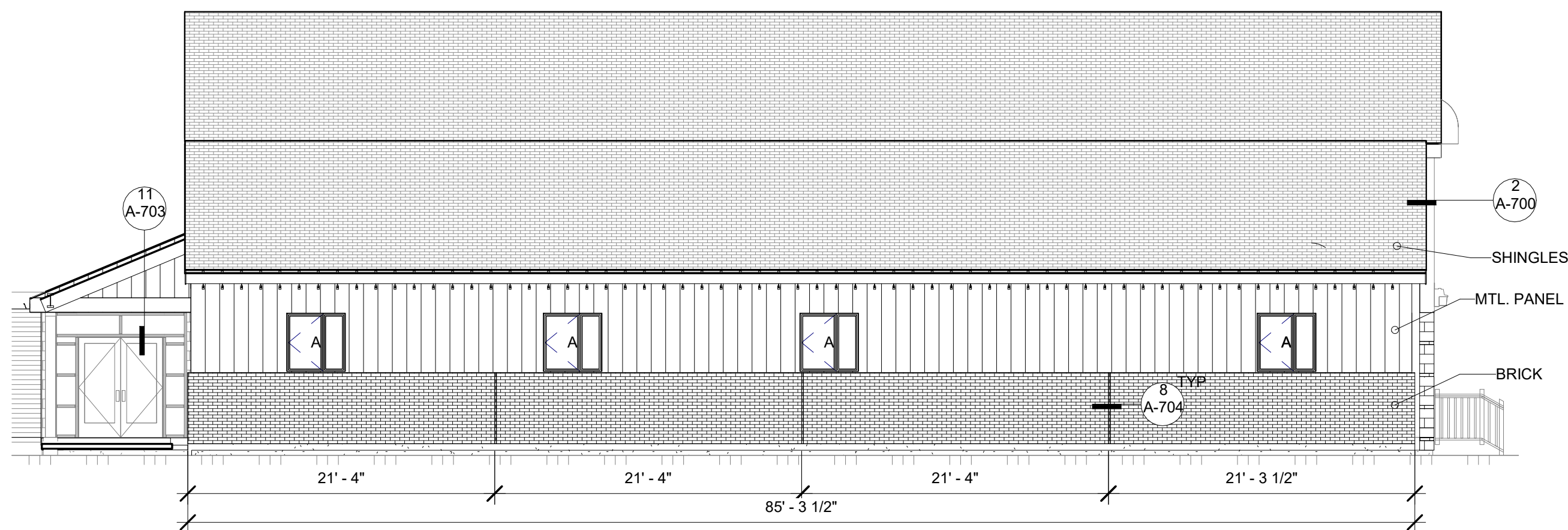
1 ROOF
A-401 1/8" = 1'-0"



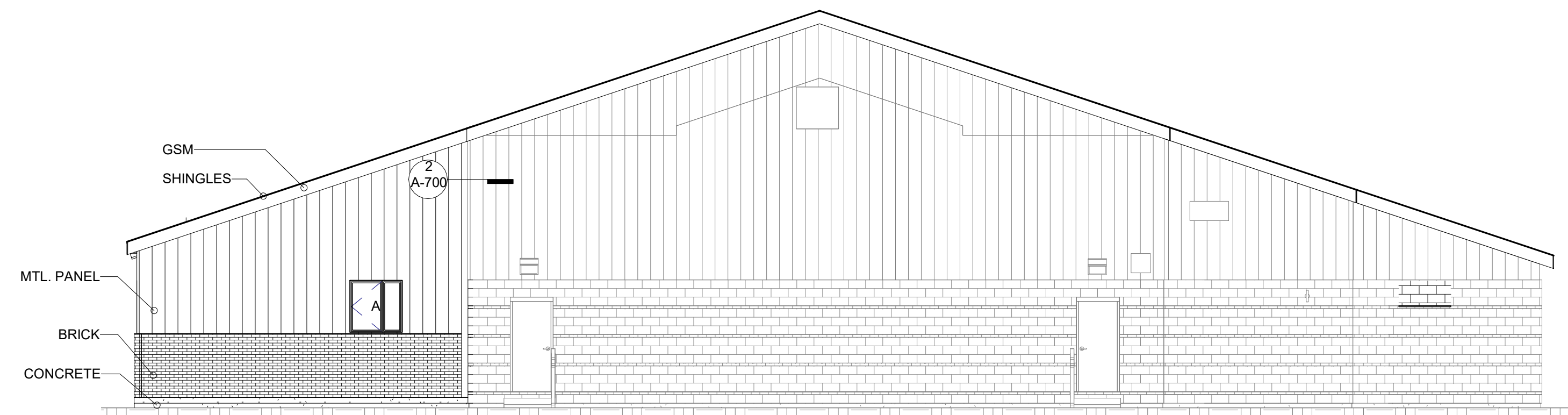
2 BUILDING EAST
PB-001 1/8" = 1'-0"



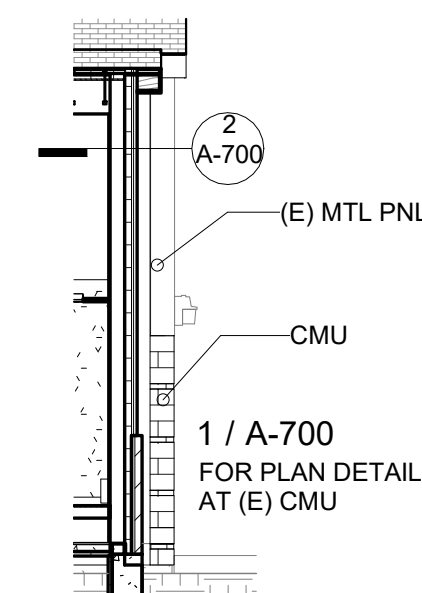
1 BUILDING NORTH
PB-001 1/8" = 1'-0"



4 BUILDING WEST
PB-001 1/8" = 1'-0"



3 BUILDING SOUTH
PB-001 1/8" = 1'-0"



5 GRID D NOTCH EAST
A-210 1/8" = 1'-0"

ALTERNATES
1. RESHINGLE EXISTING GYM ROOF
2. REPLACE EXISTING GYM FLOORING AND BASE
3. CHANGE IN DATE OF FINAL COMPLETION

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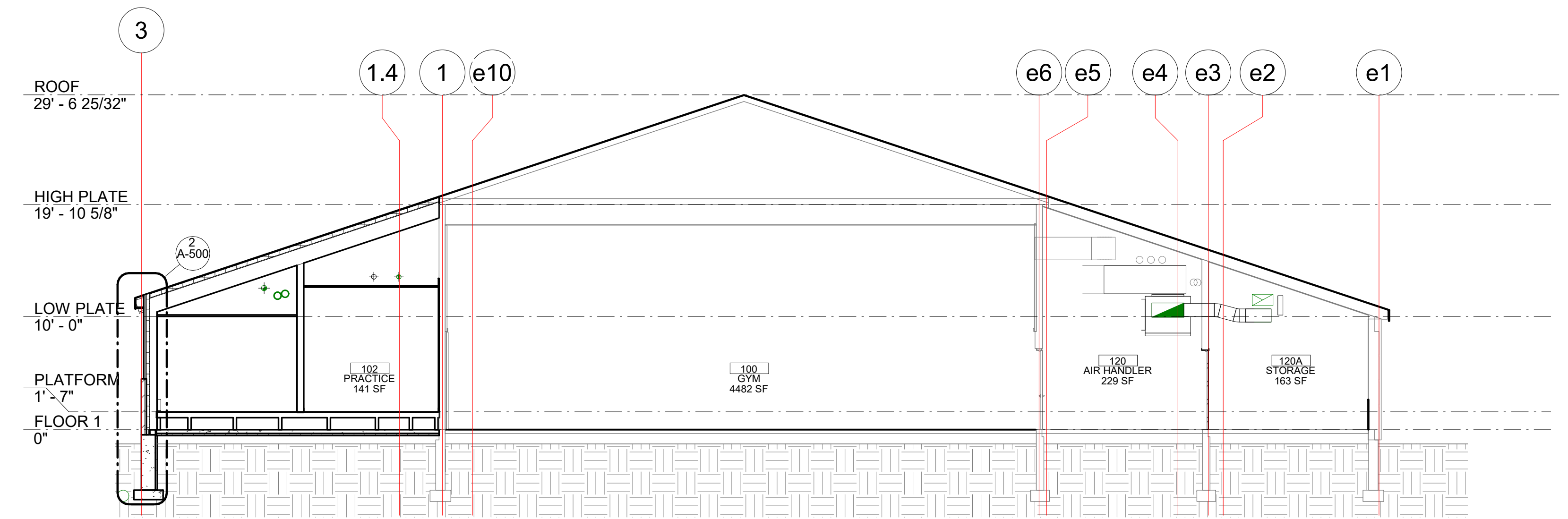


RSU 18
CHINA MIDDLE SCHOOL ADDITION

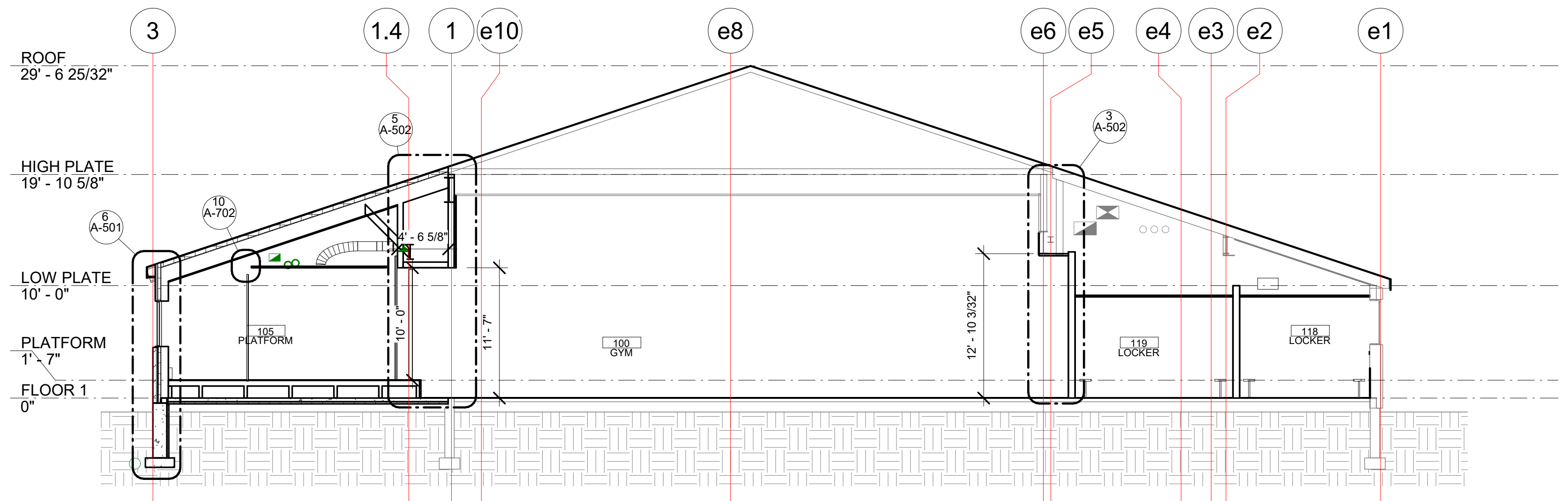
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ELEVATIONS

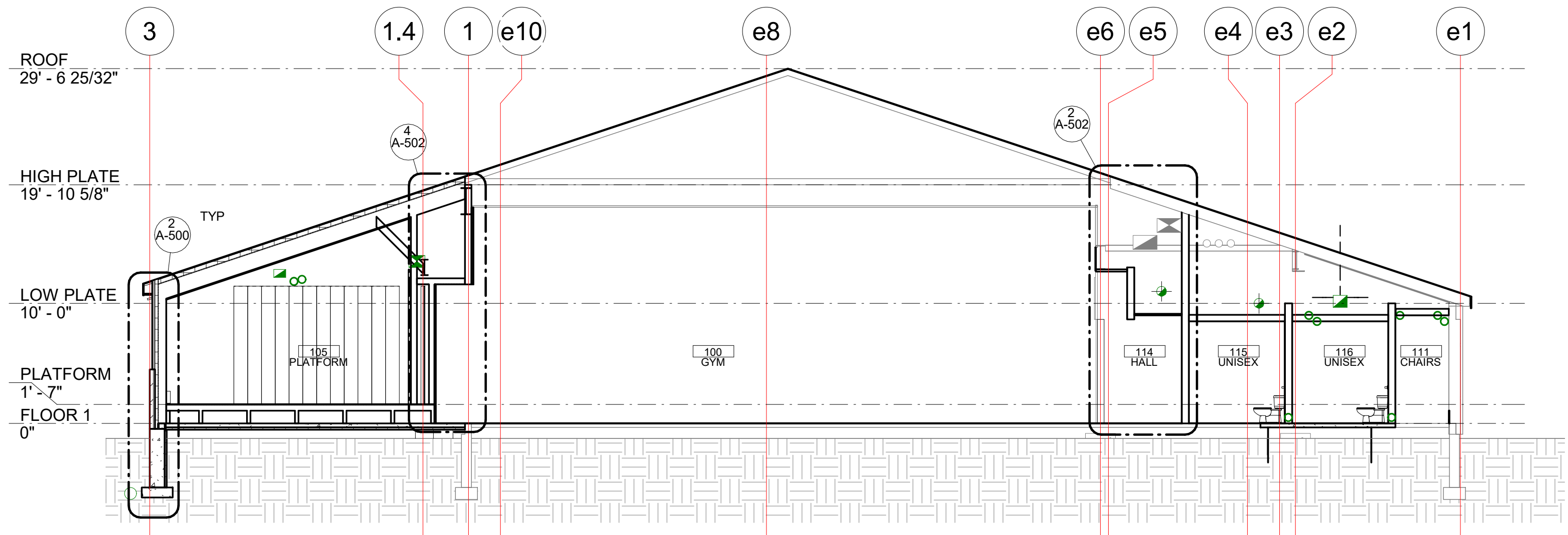
A-400



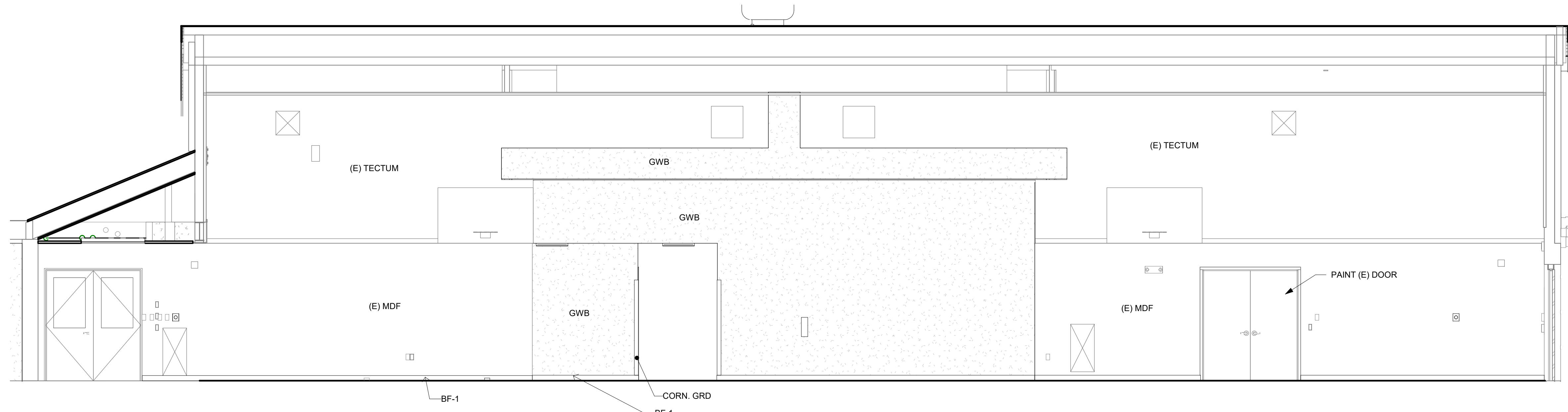
1 BUILDING NORTH AT INSTRUMENTS
A-210 1/8" = 1'-0"



2 BUILDING NORTH AT PLATFORM
A-210 1/8" = 1'-0"

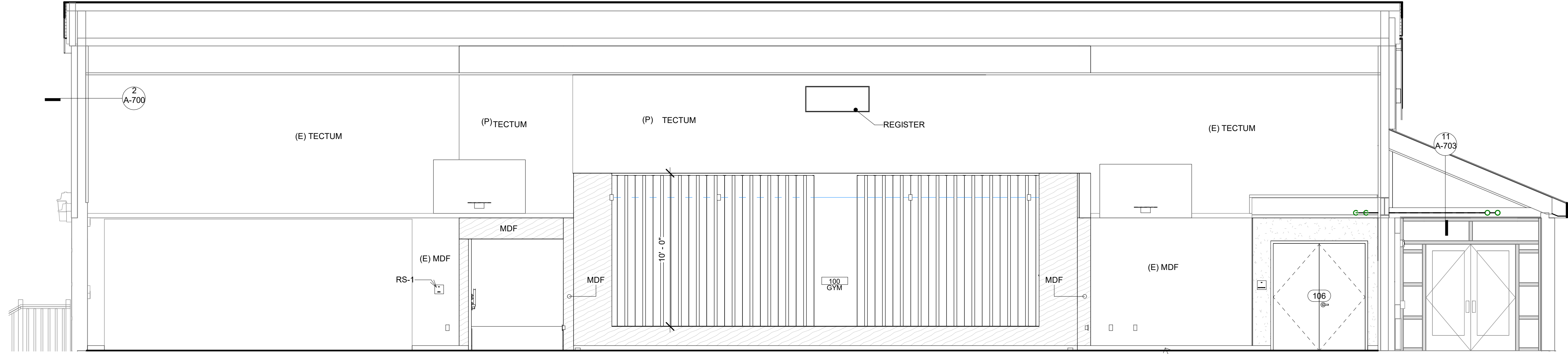


3 BUILDING NORTH AT BATHROOMS
A-210 1/8" = 1'-0"



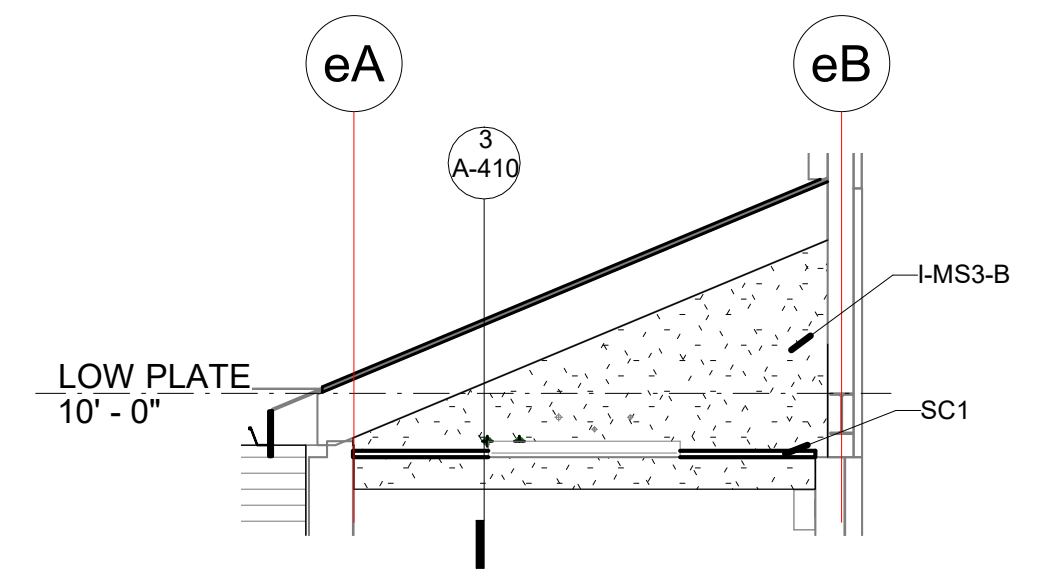
1 100 GYMNASIUM EAST

A-210 1/4" = 1'-0"



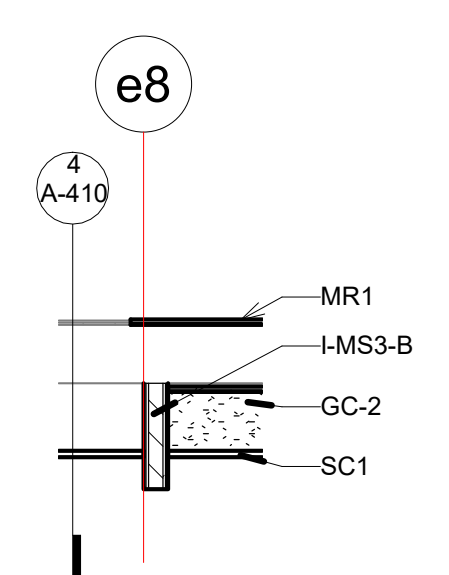
2 100 GYMNASIUM WEST

A-210 1/4" = 1'-0"



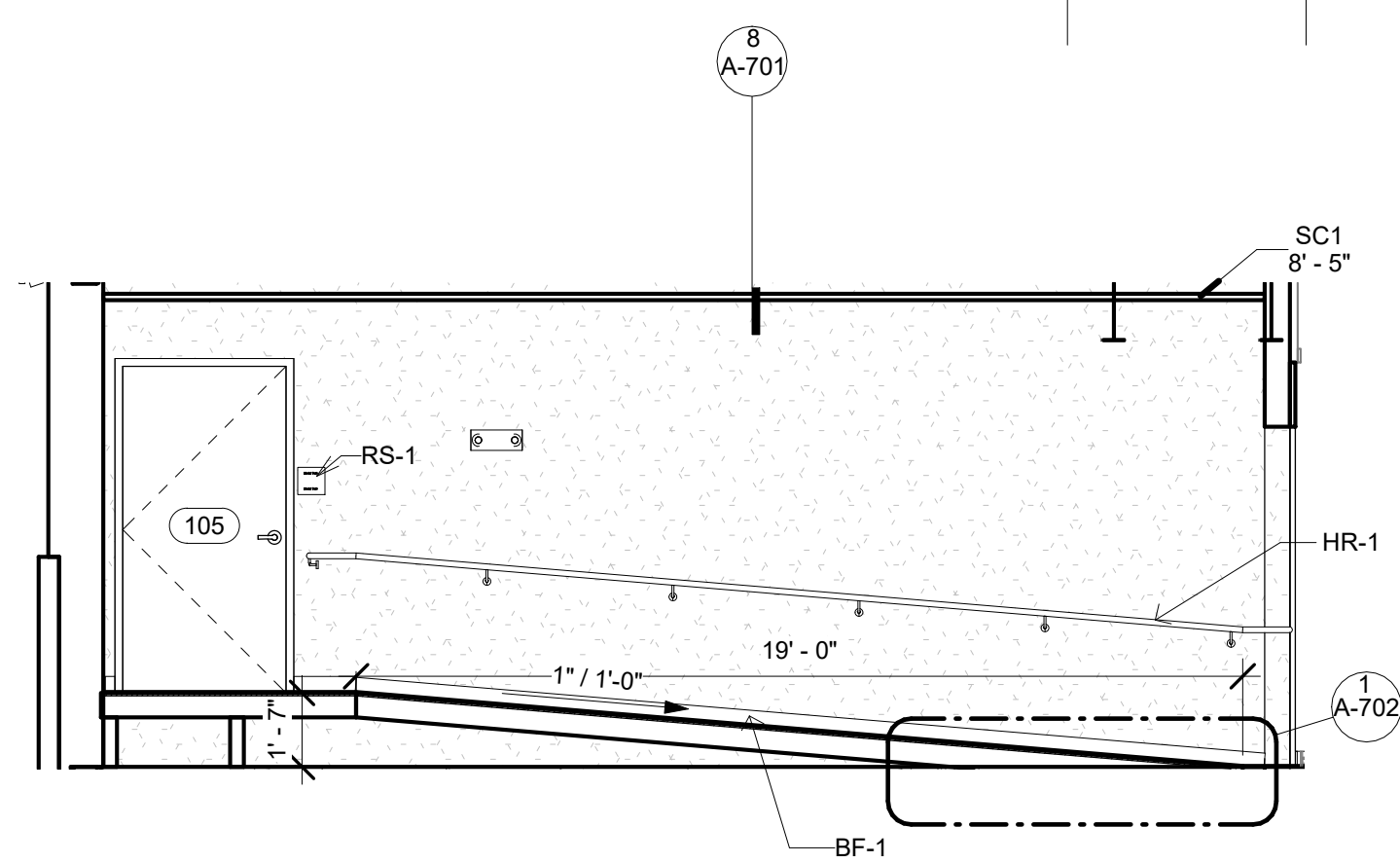
4 FASCIA AT GRID e8

A-300 1/4" = 1'-0"

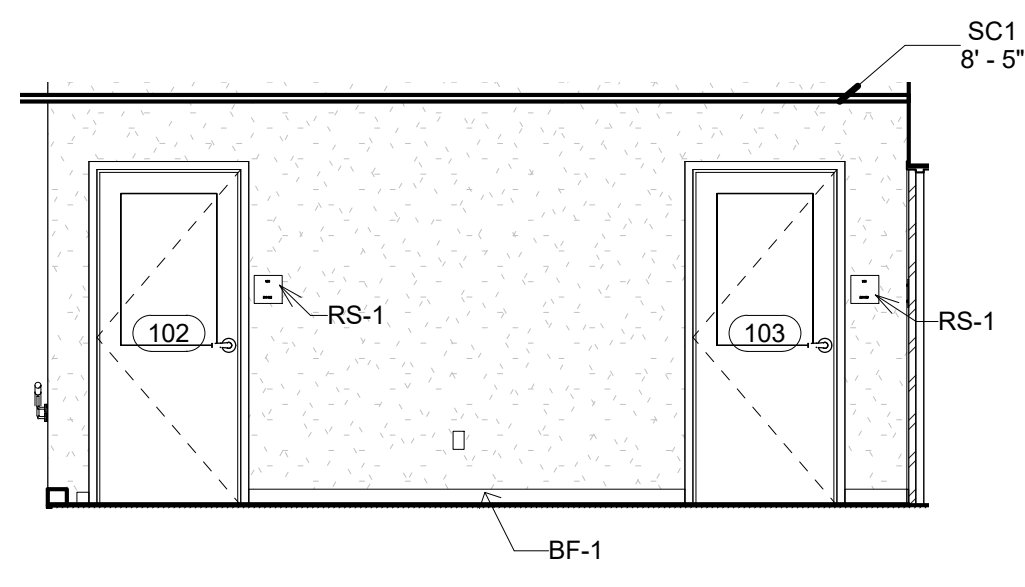


3 CEILINGS AT GRID e8

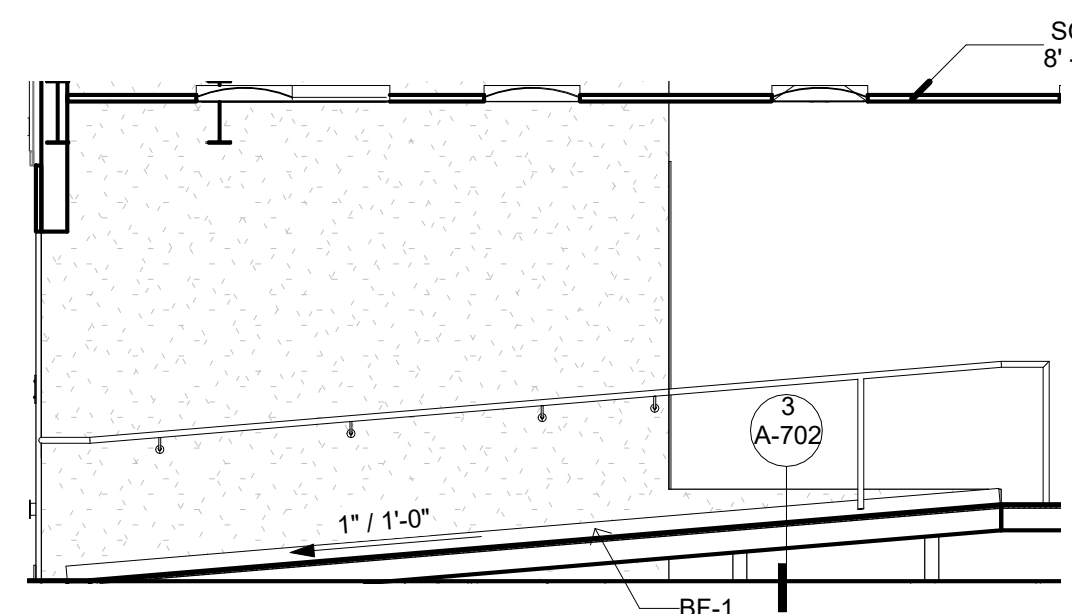
A-210 1/4" = 1'-0"



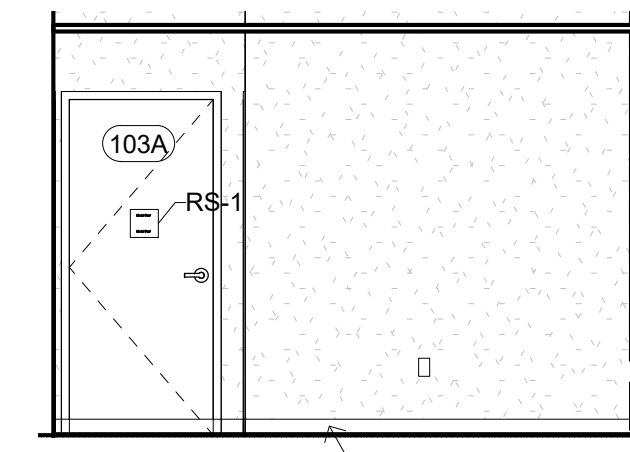
5 101 INSTRUMENTS NORTH
A-211 1/4" = 1'-0"



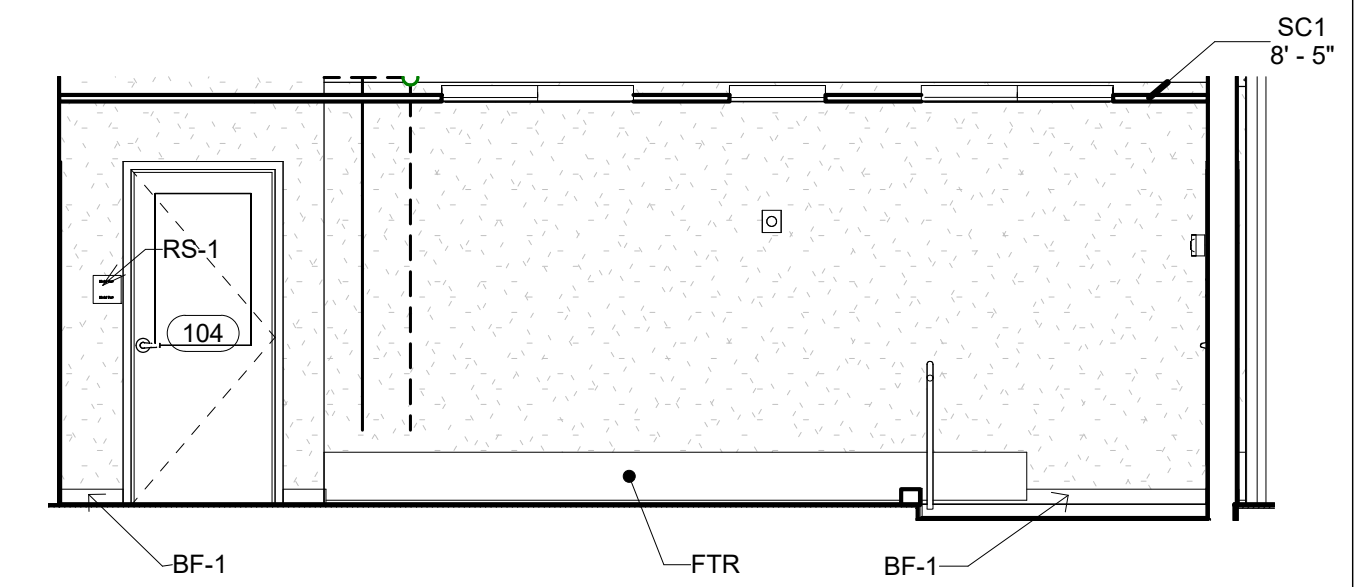
4 101 INSTRUMENTS EAST
A-211 1/4" = 1'-0"



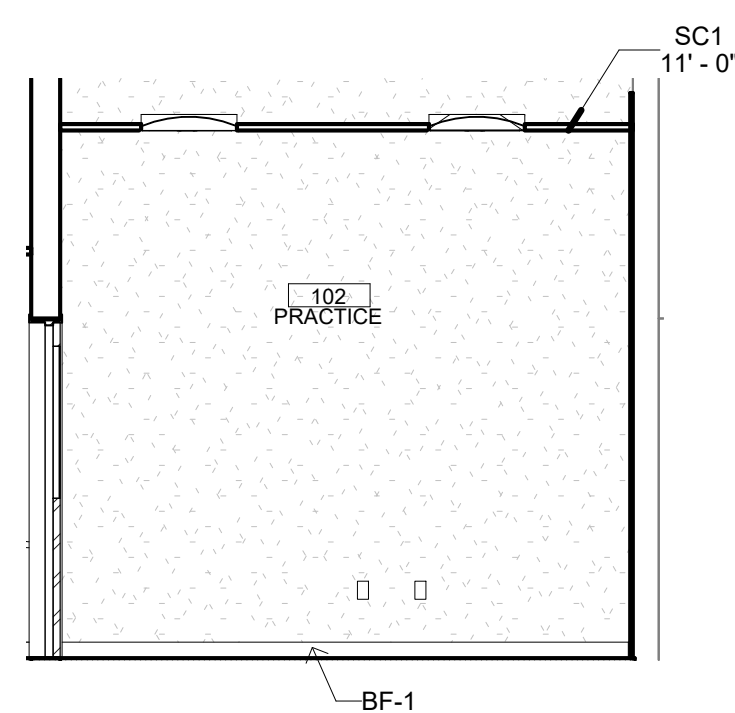
3 101 RAMP SOUTH
A-211 1/4" = 1'-0"



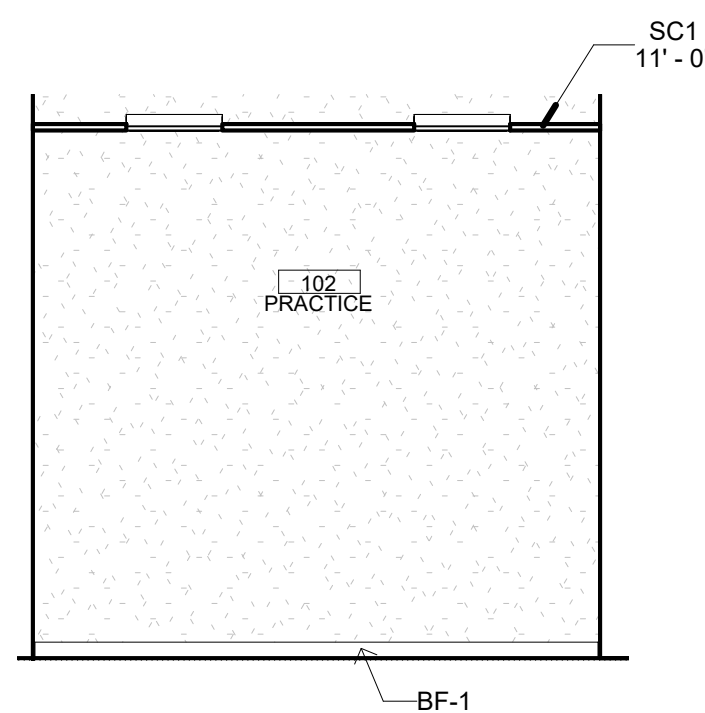
2 101 INSTRUMENTS SOUTH
A-211 1/4" = 1'-0"



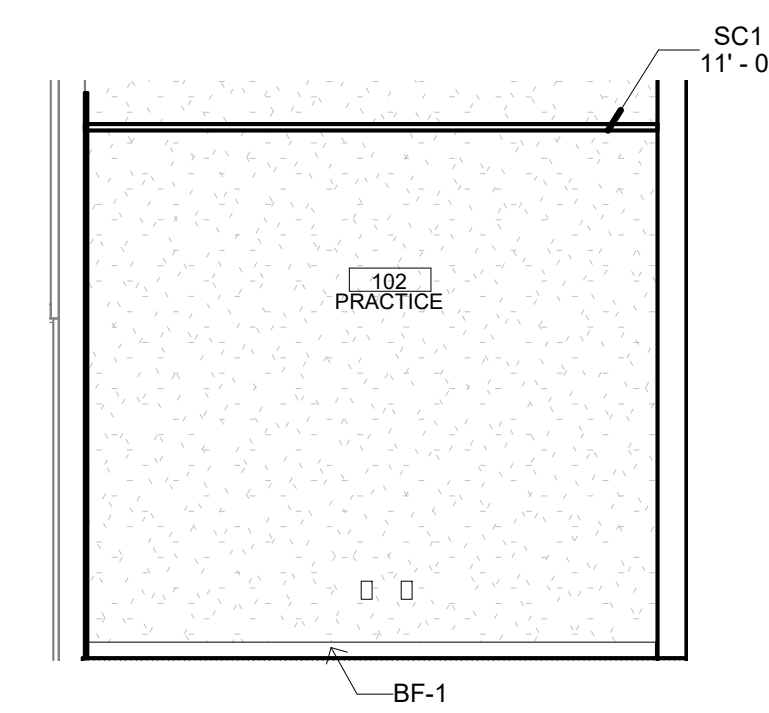
1 101 INSTRUMENTS WEST
A-211 1/4" = 1'-0"



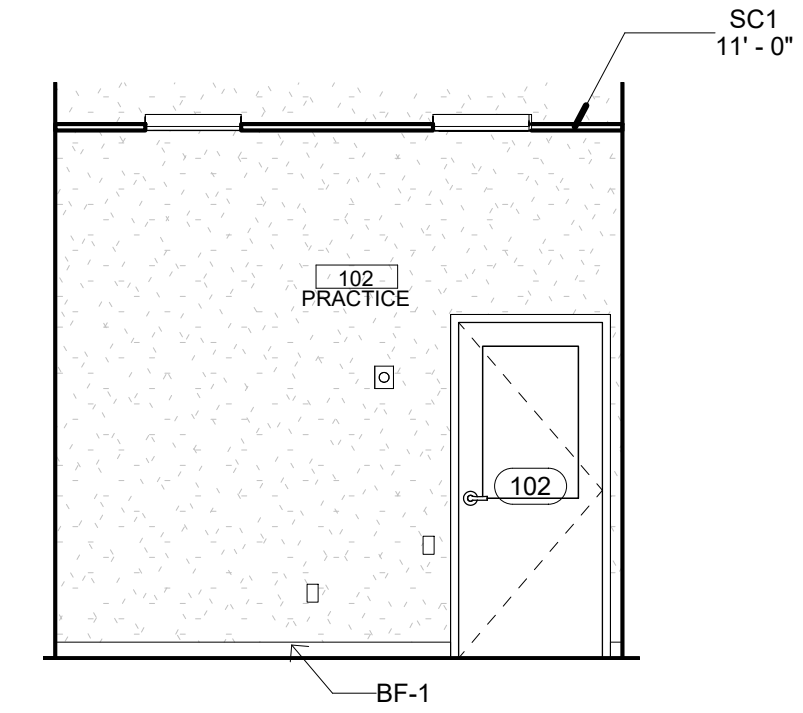
9 102 PRACTICE NORTH
A-211 1/4" = 1'-0"



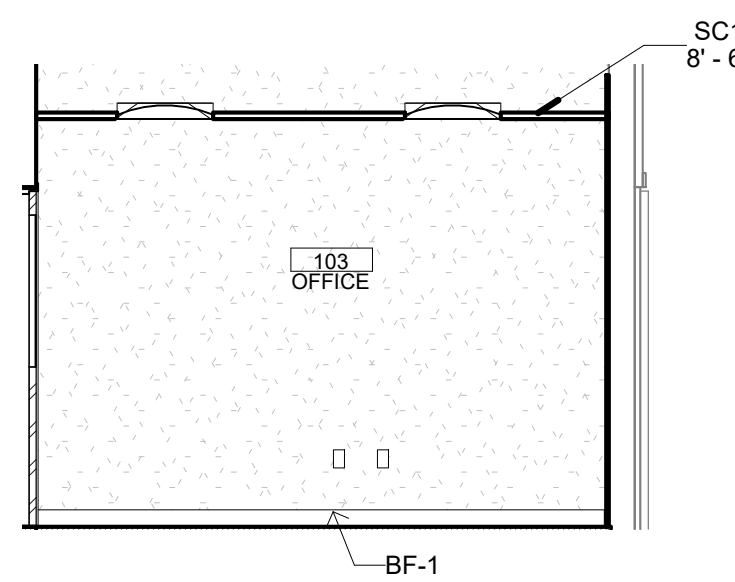
8 102 PRACTICE EAST
A-211 1/4" = 1'-0"



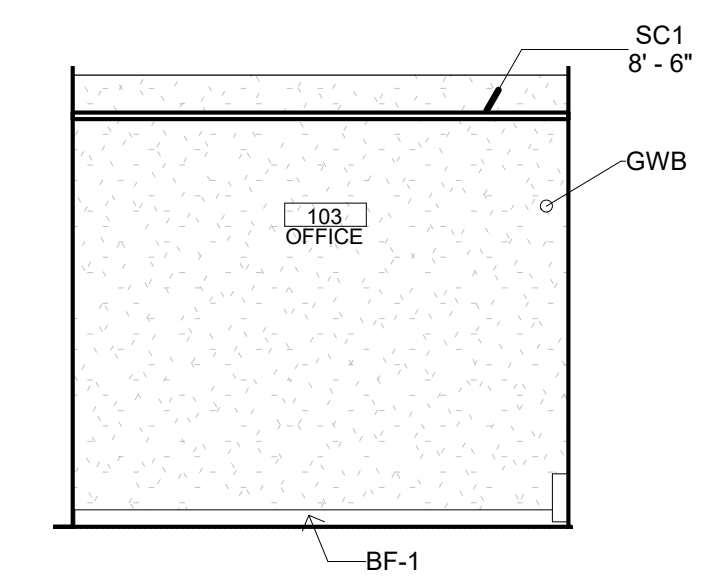
7 102 PRACTICE SOUTH
A-211 1/4" = 1'-0"



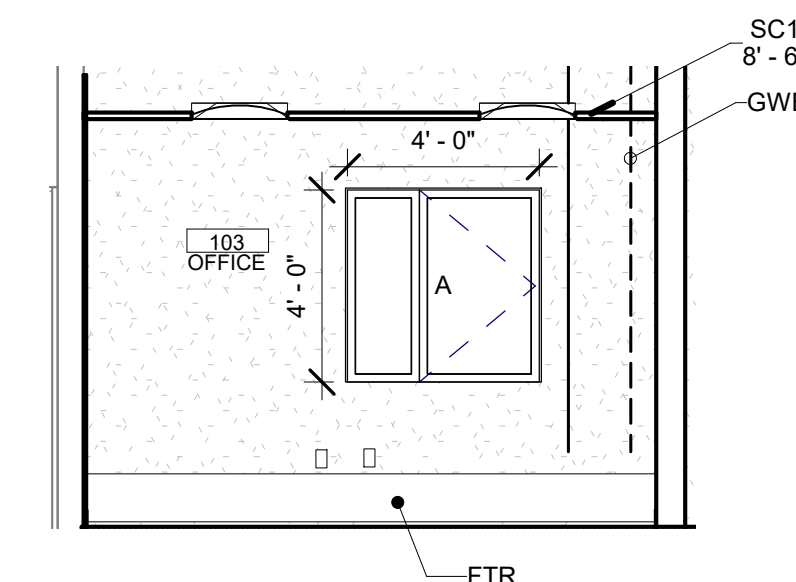
6 102 PRACTICE WEST
A-211 1/4" = 1'-0"



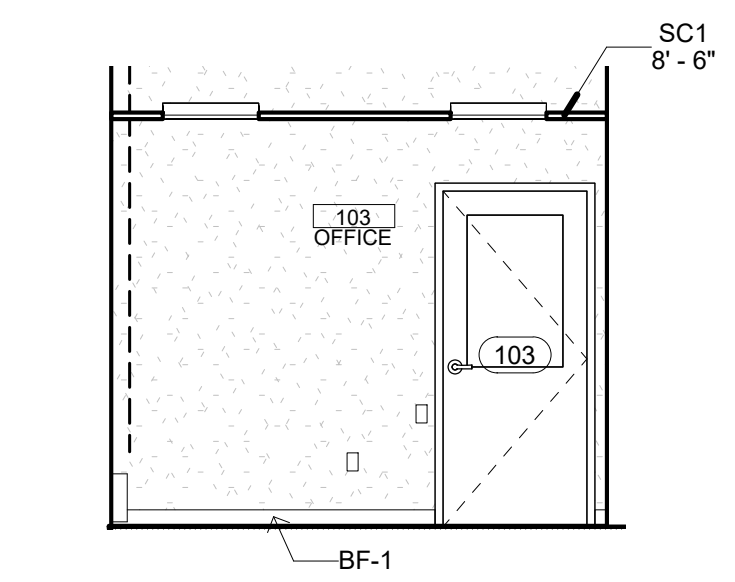
13 103 OFFICE NORTH
A-211 1/4" = 1'-0"



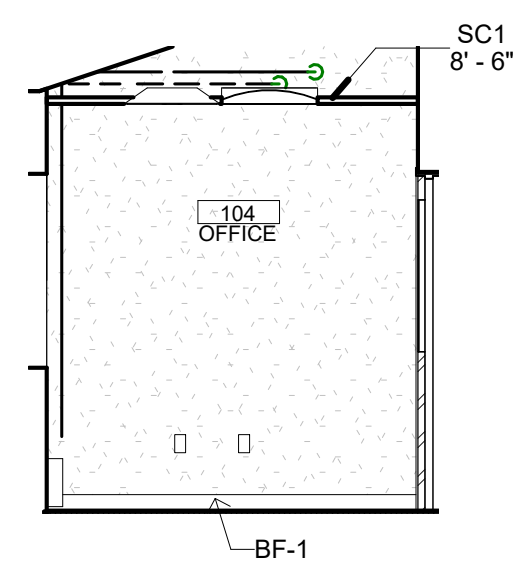
12 103 OFFICE EAST
A-211 1/4" = 1'-0"



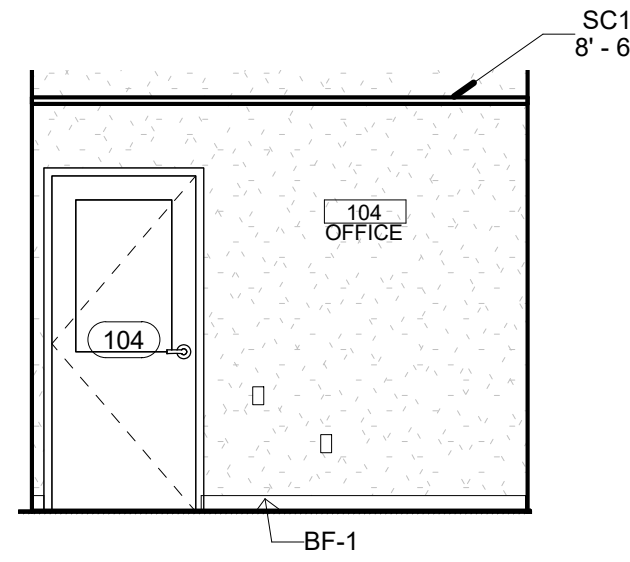
11 103 OFFICE SOUTH
A-211 1/4" = 1'-0"



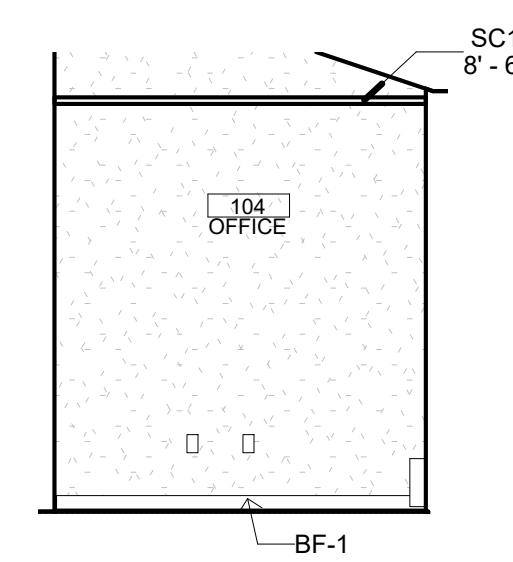
10 103 OFFICE WEST
A-211 1/4" = 1'-0"



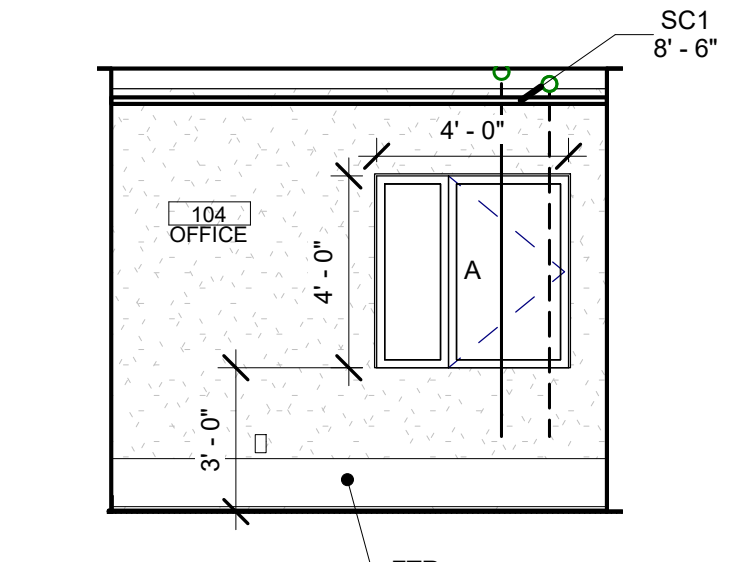
17 104 OFFICE NORTH
A-211 1/4" = 1'-0"



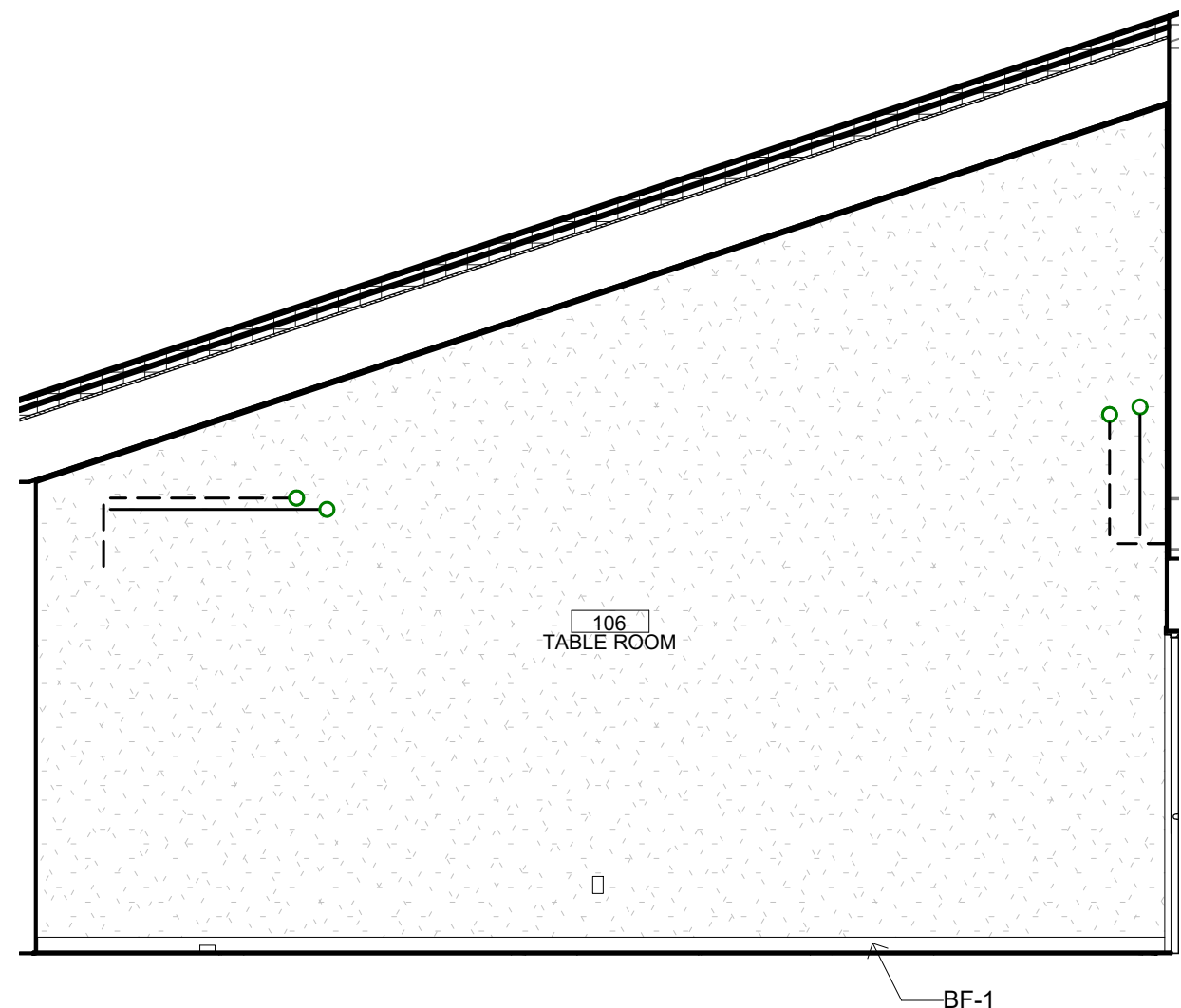
16 104 OFFICE EAST
A-211 1/4" = 1'-0"



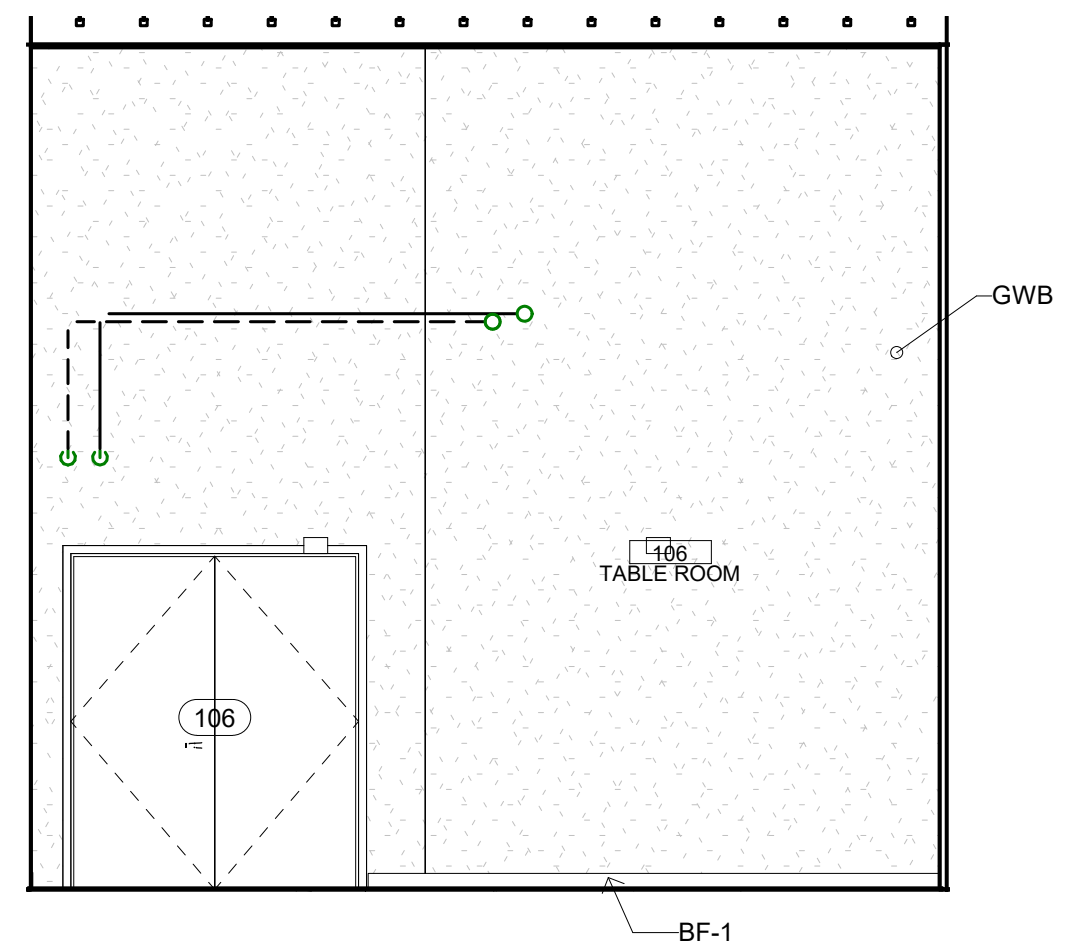
15 104 OFFICE SOUTH
A-211 1/4" = 1'-0"



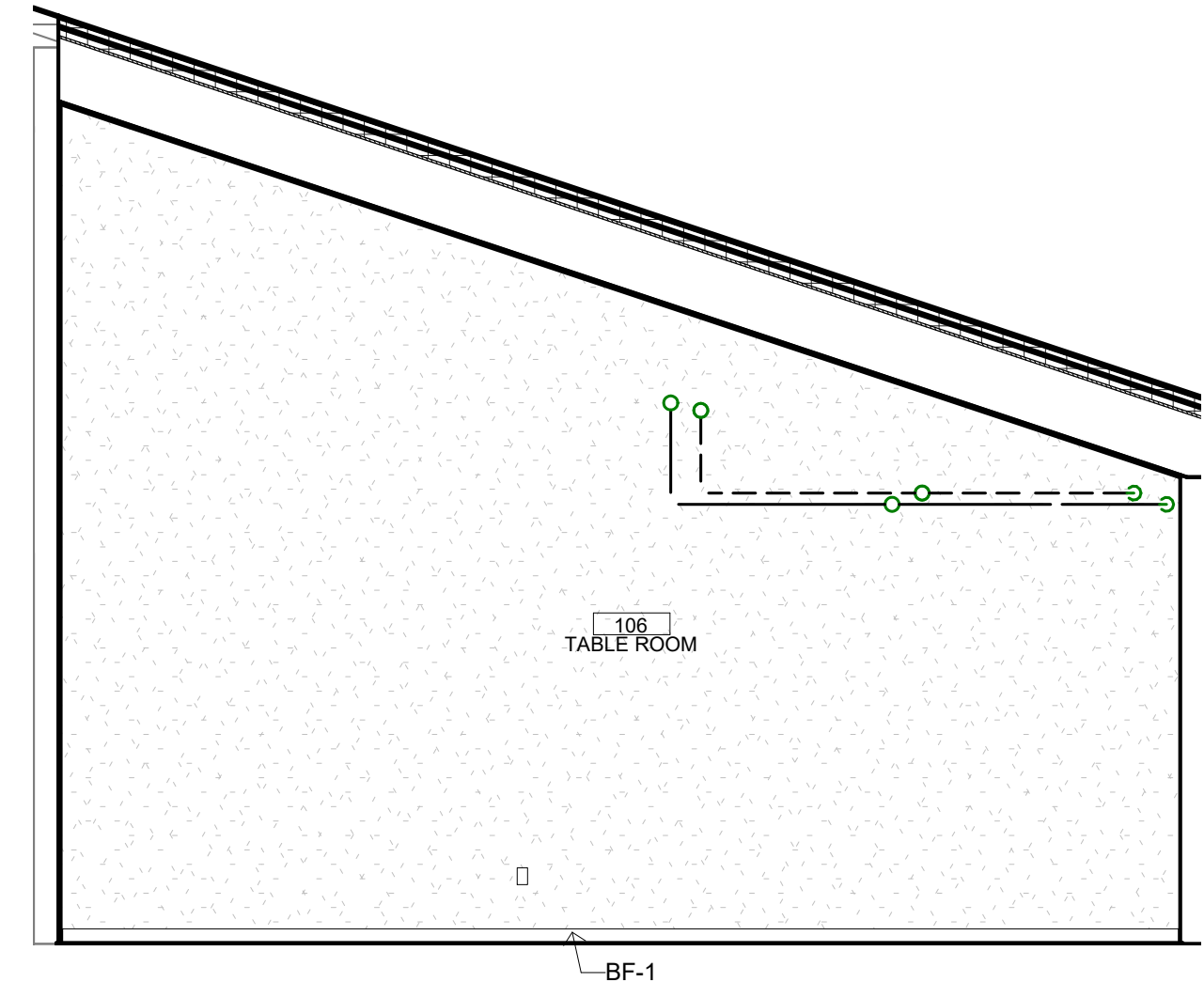
14 104 OFFICE WEST
A-211 1/4" = 1'-0"



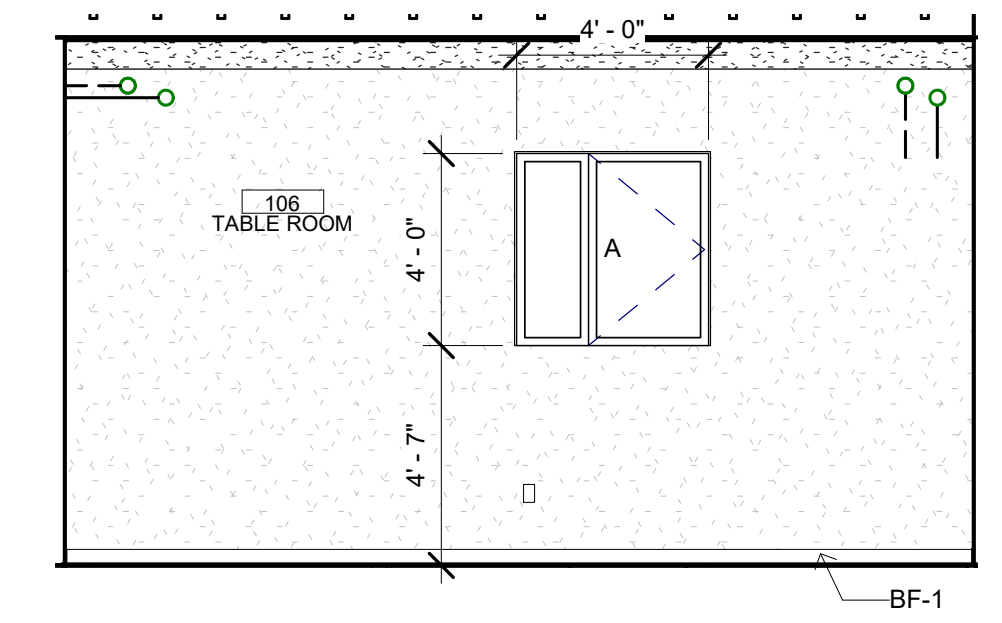
8 106 TABLE STORAGE NORTH
A-211 1/4" = 1'-0"



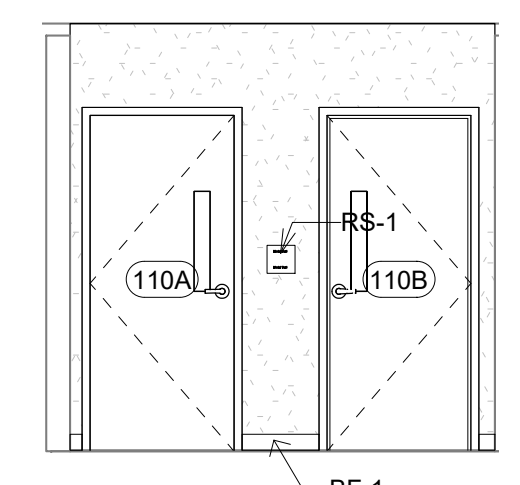
7 106 TABLE STORAGE EAST
A-211 1/4" = 1'-0"



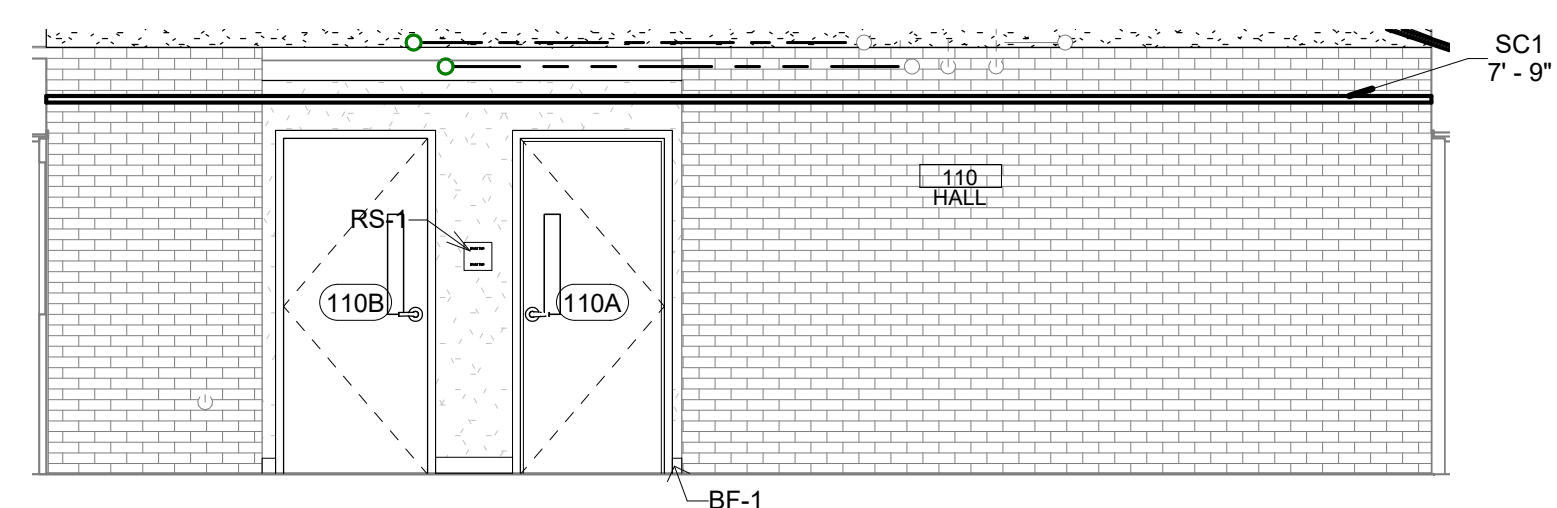
6 106 TABLE STORAGE SOUTH
A-211 1/4" = 1'-0"



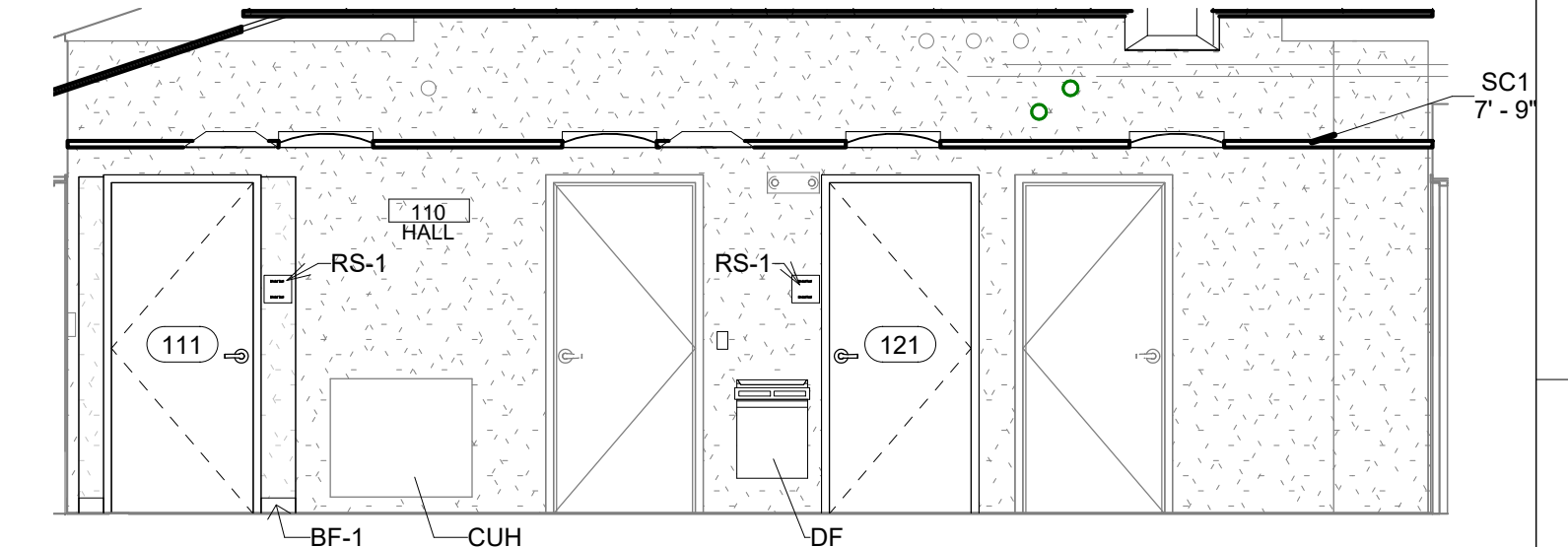
5 106 TABLE STORAGE WEST
A-211 1/4" = 1'-0"



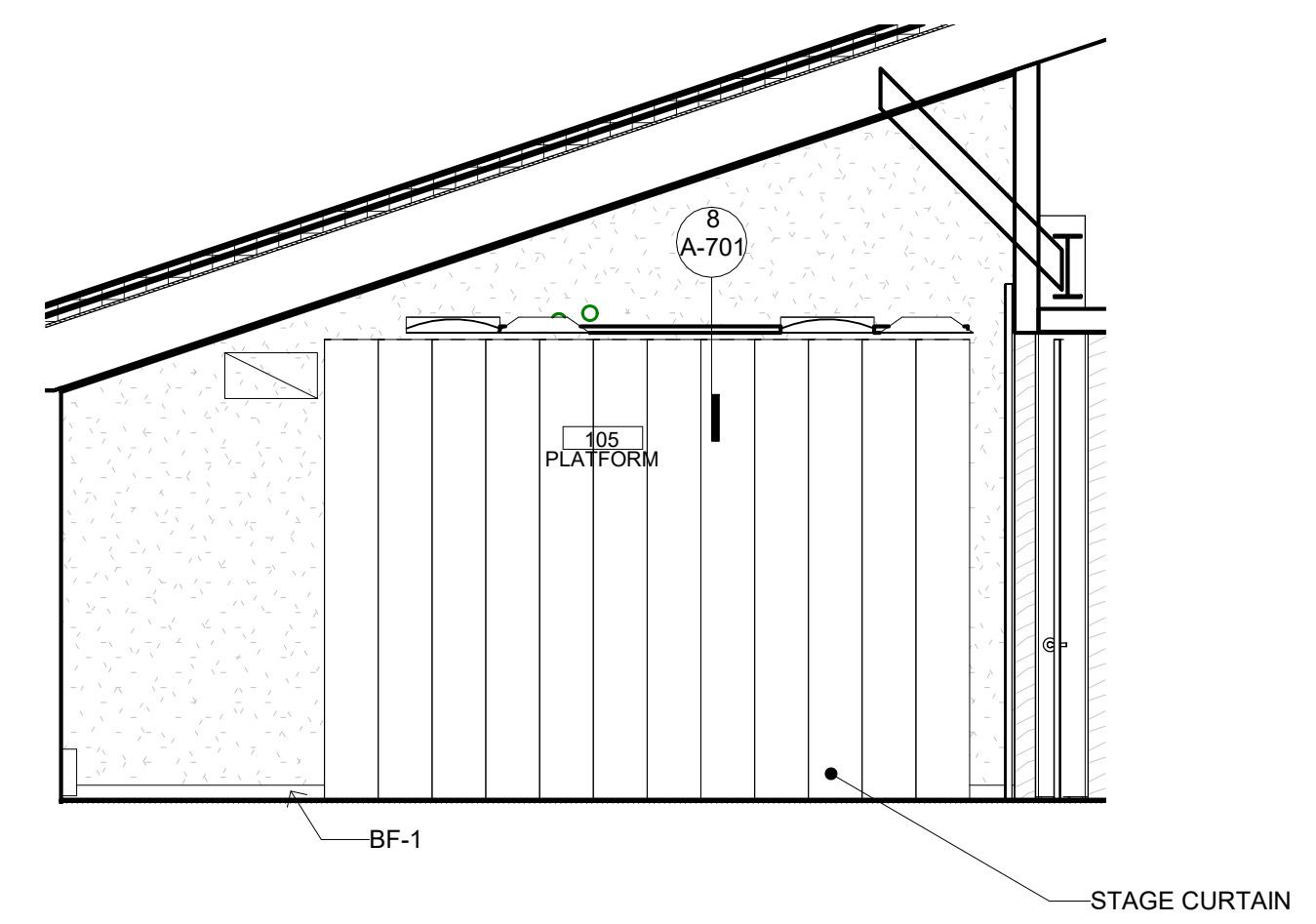
11 HALL SOUTH
A-211 1/4" = 1'-0"



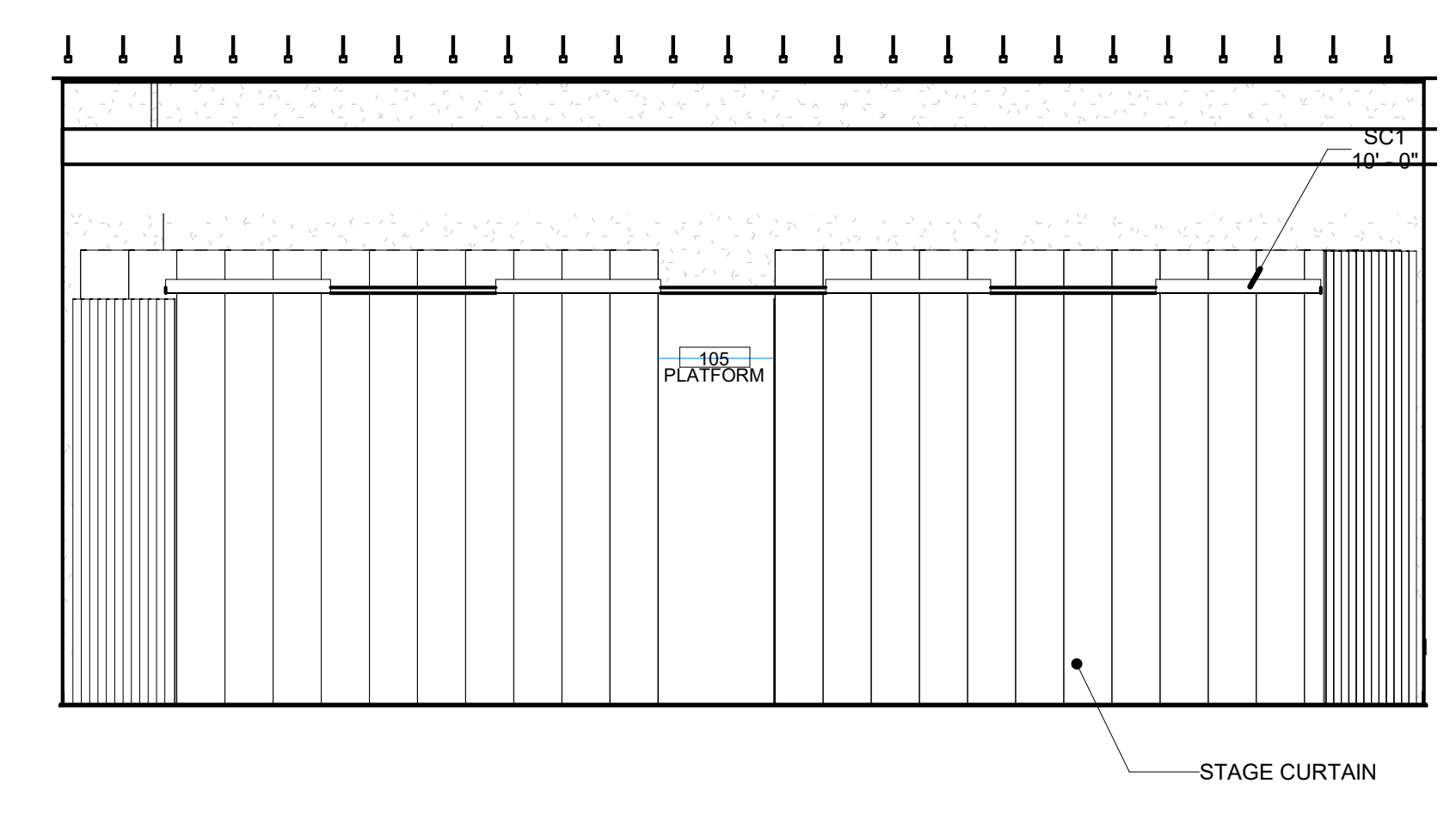
10 110 HALL NORTH
A-211 1/4" = 1'-0"



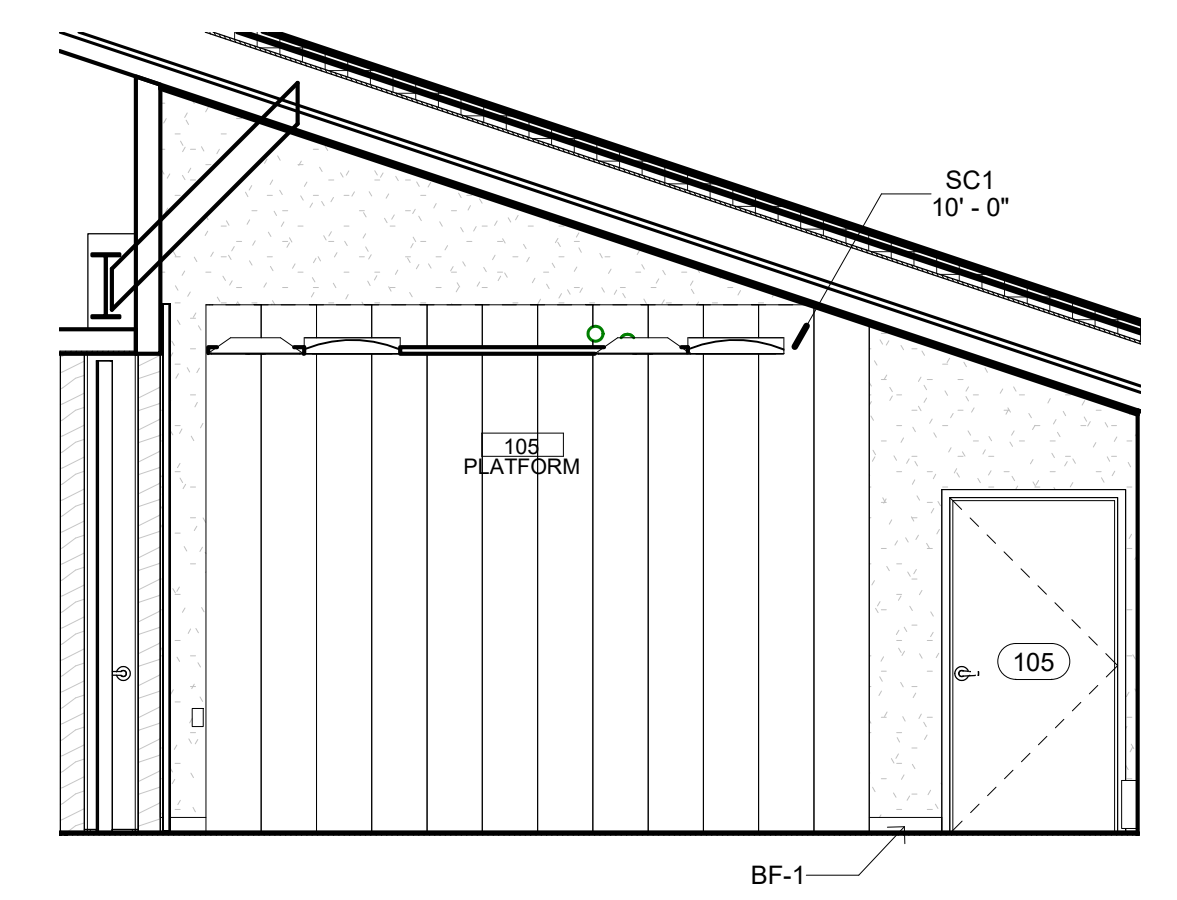
9 110 HALL SOUTH
A-211 1/4" = 1'-0"



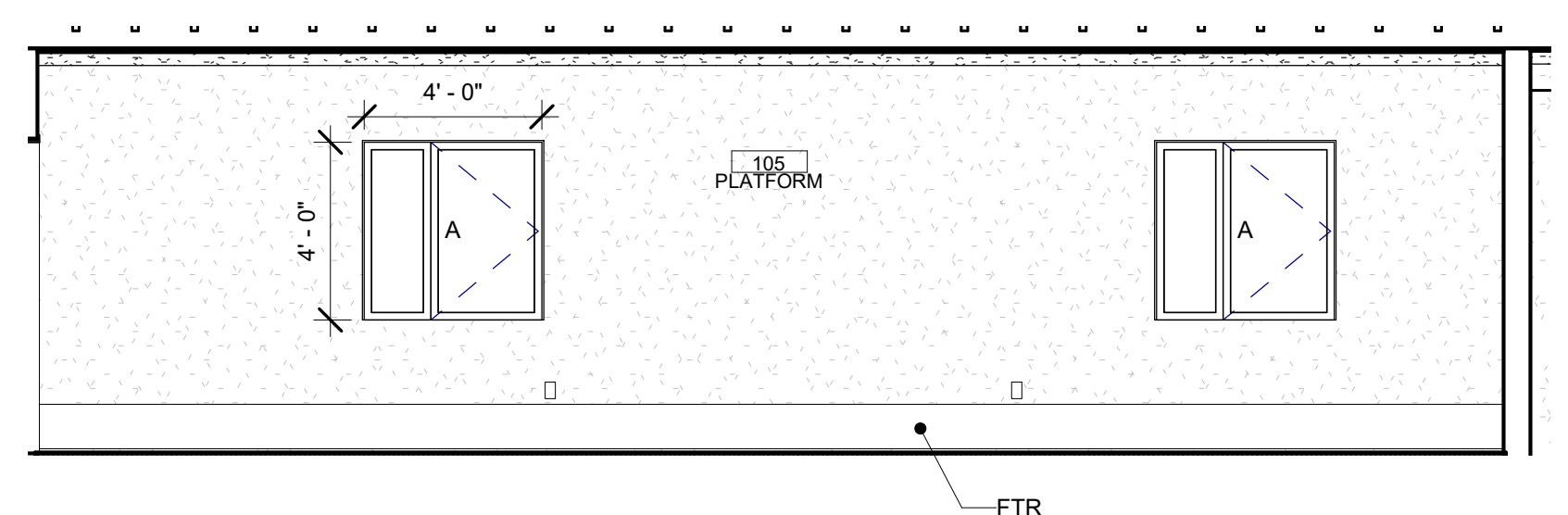
2 105 STAGE NORTH
A-211 1/4" = 1'-0"



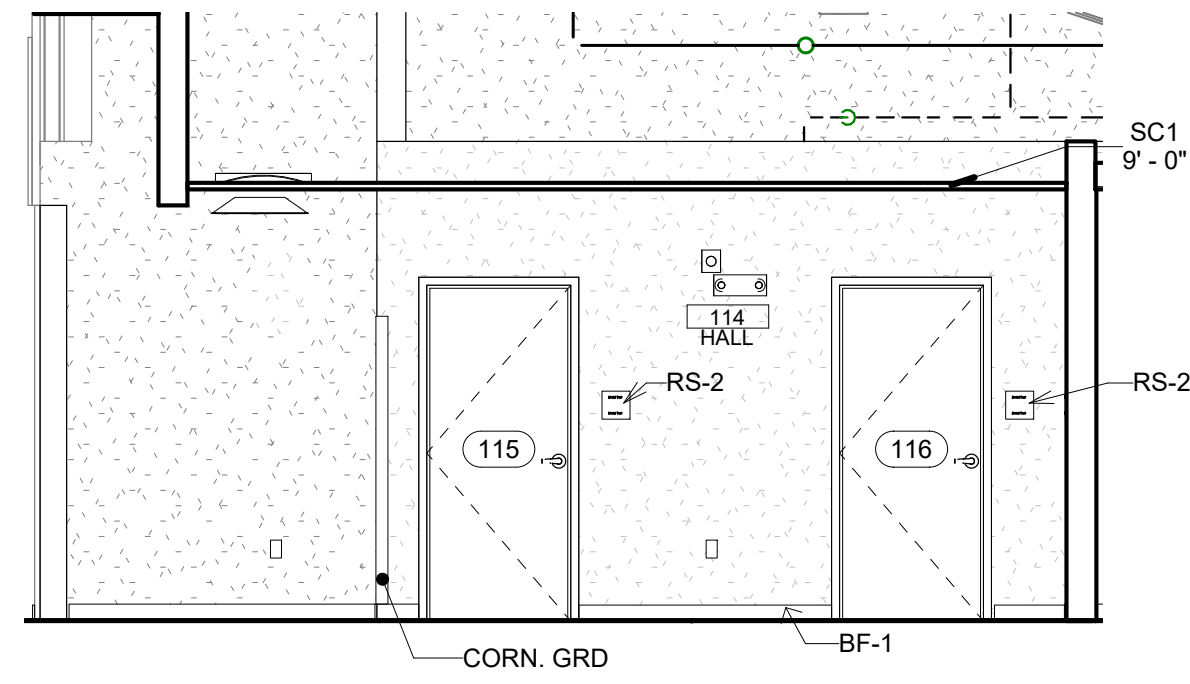
1 105 STAGE EAST
A-211 1/4" = 1'-0"



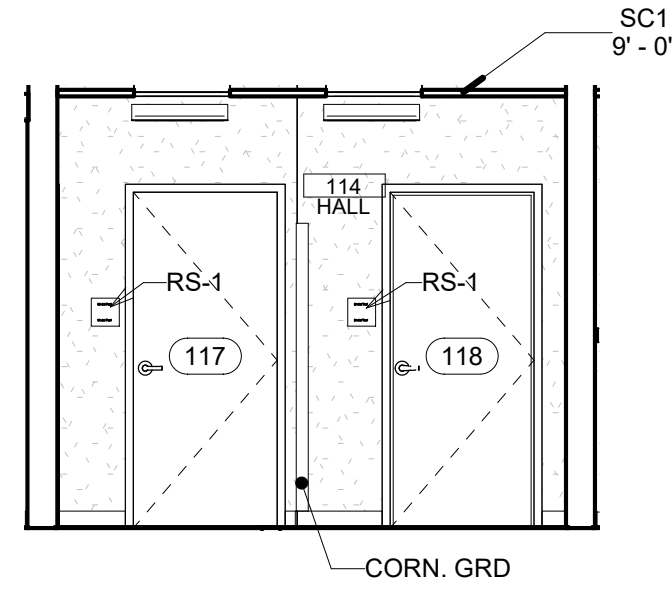
4 105 STAGE SOUTH
A-211 1/4" = 1'-0"



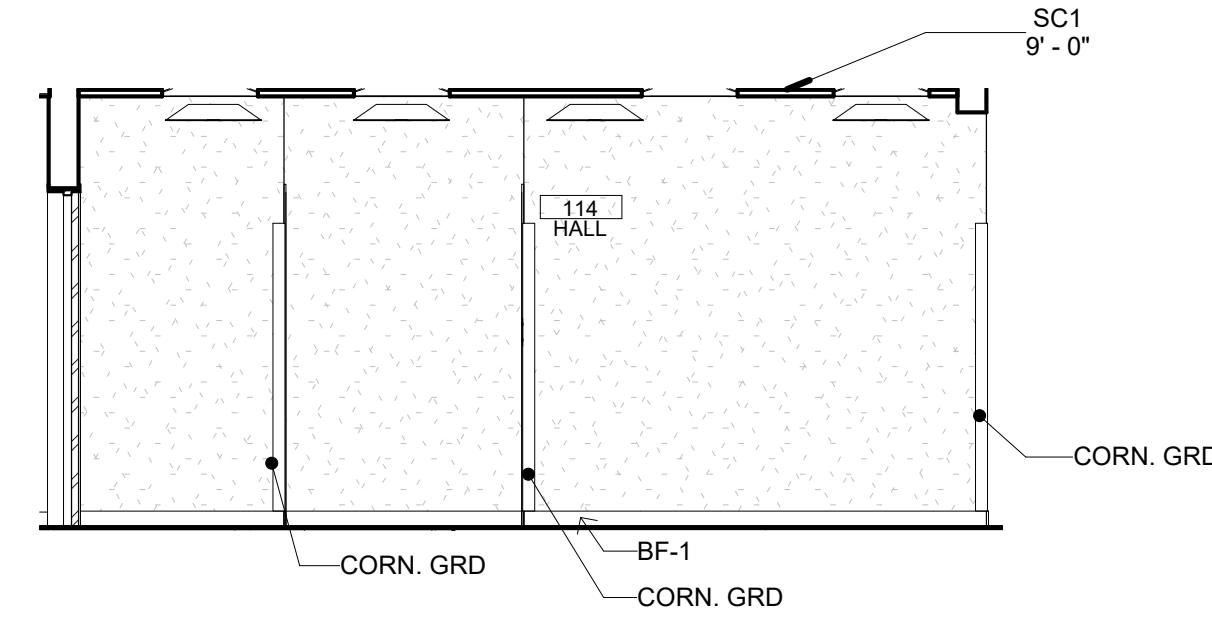
3 105 STAGE WEST
A-211 1/4" = 1'-0"



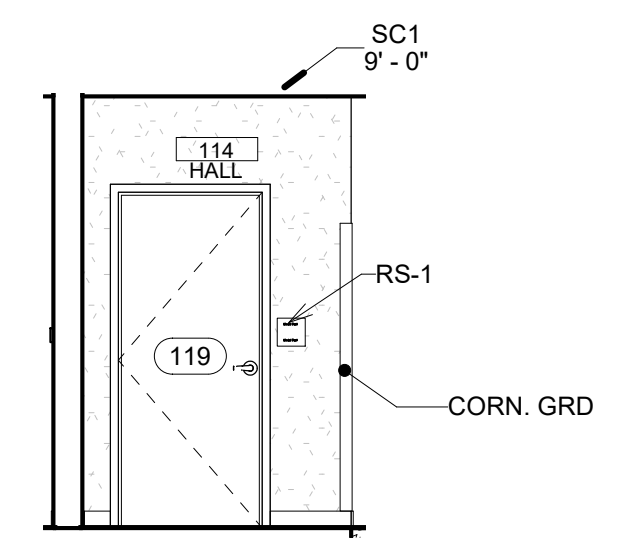
4 114 HALL NORTH
A-211 1/4" = 1'-0"



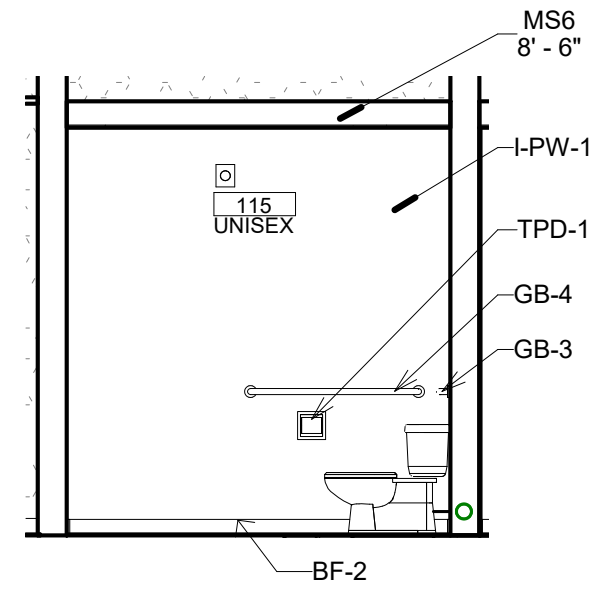
3 114 HALL EAST
A-211 1/4" = 1'-0"



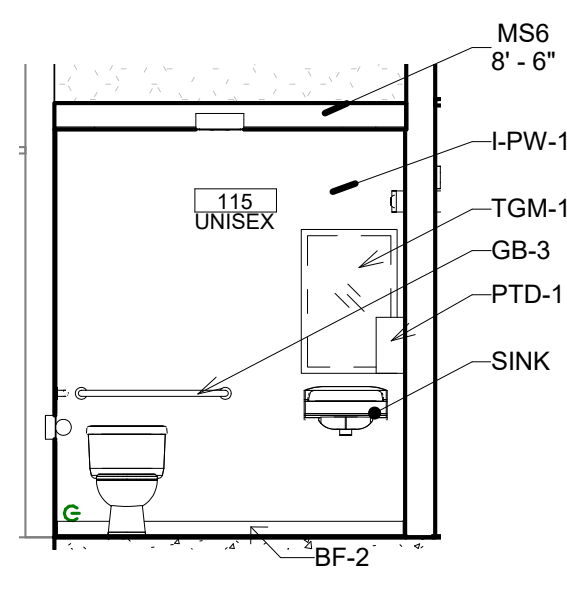
2 114 HALL SOUTH
A-211 1/4" = 1'-0"



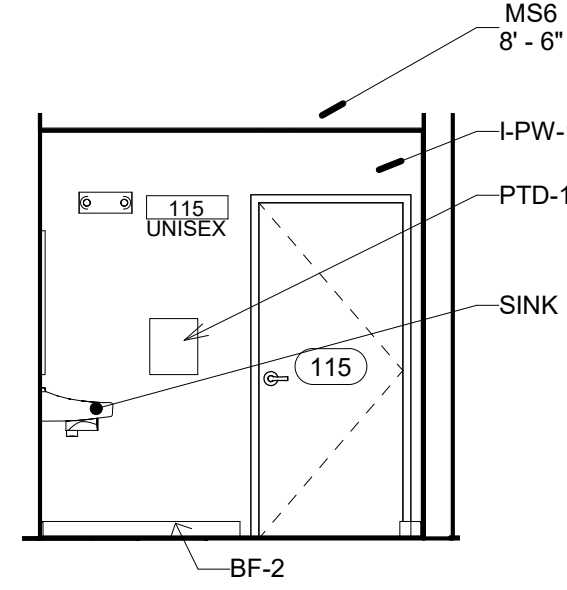
1 114 HALL WEST
A-211 1/4" = 1'-0"



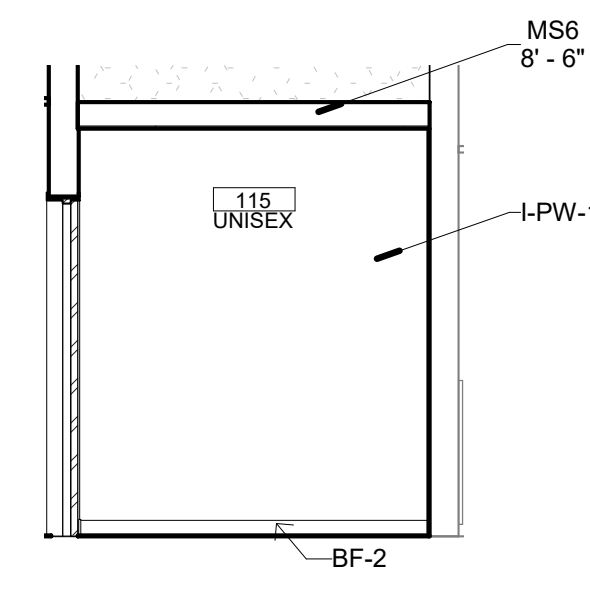
9 115 UNISEX NORTH
A-600 1/4" = 1'-0"



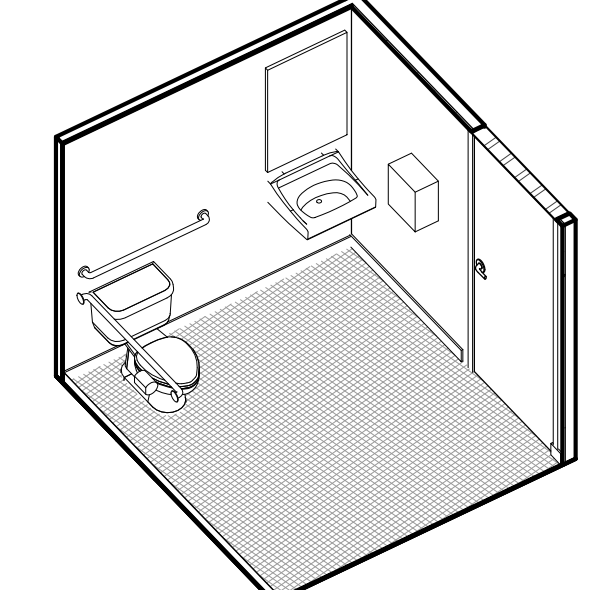
8 115 UNISEX EAST
A-600 1/4" = 1'-0"



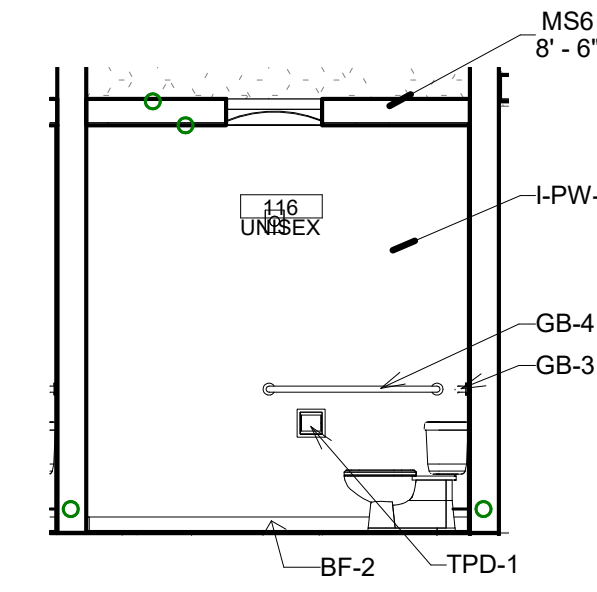
7 115 UNISEX SOUTH
A-600 1/4" = 1'-0"



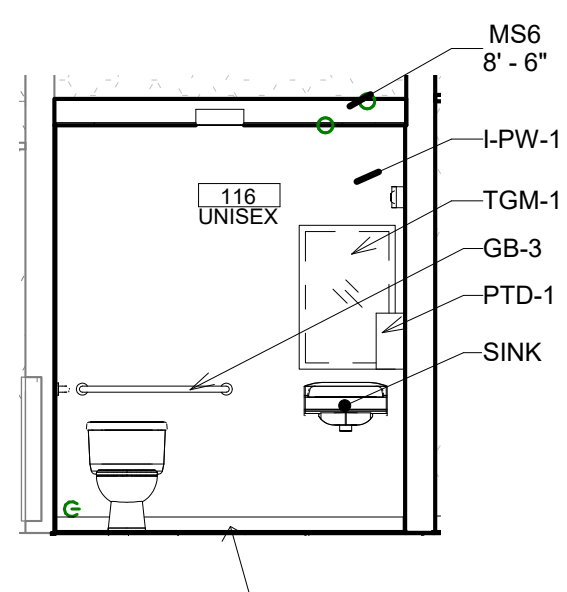
6 115 UNISEX WEST
A-600 1/4" = 1'-0"



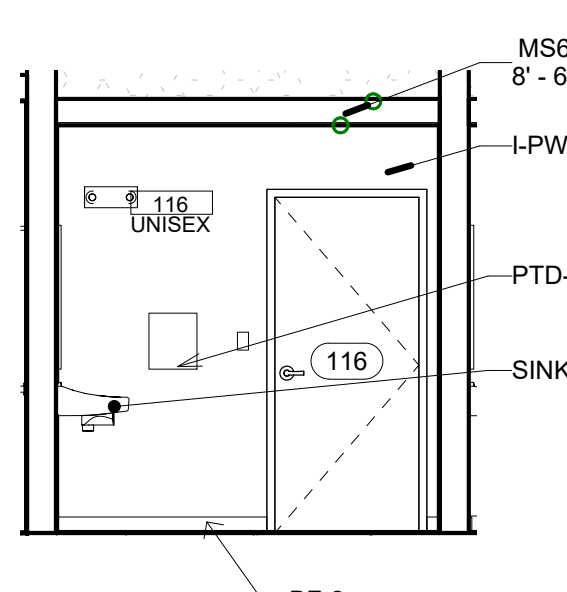
5 115 UNISEX



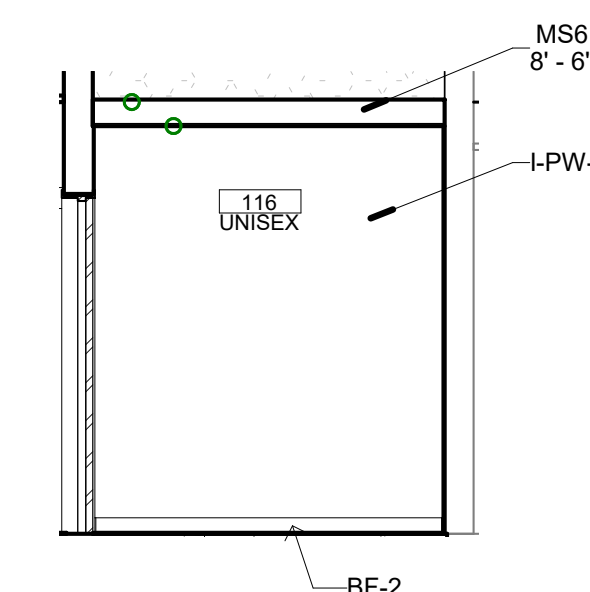
14 116 UNISEX NORTH
A-600 1/4" = 1'-0"



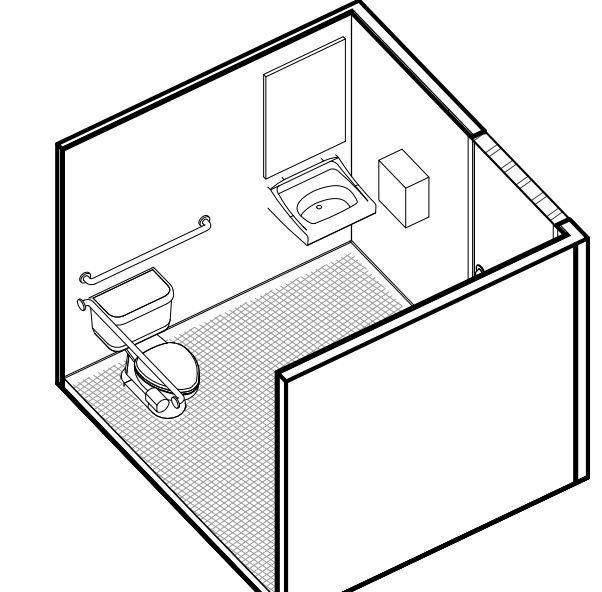
13 116 UNISEX EAST
A-600 1/4" = 1'-0"



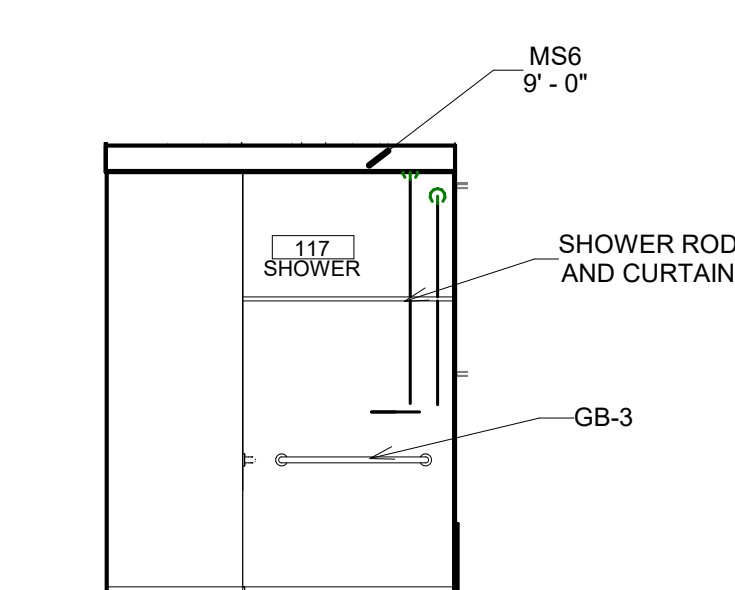
12 116 UNISEX SOUTH
A-600 1/4" = 1'-0"



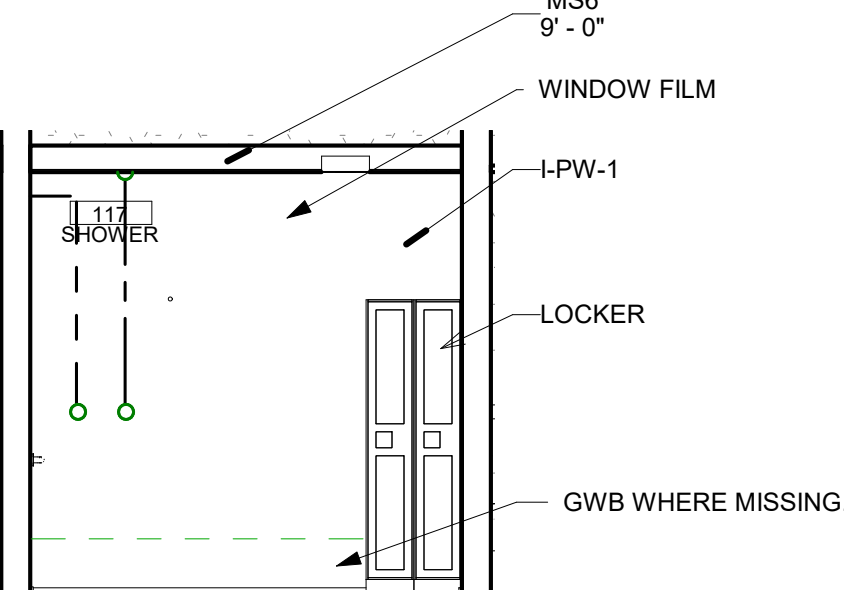
11 116 UNISEX WEST
A-600 1/4" = 1'-0"



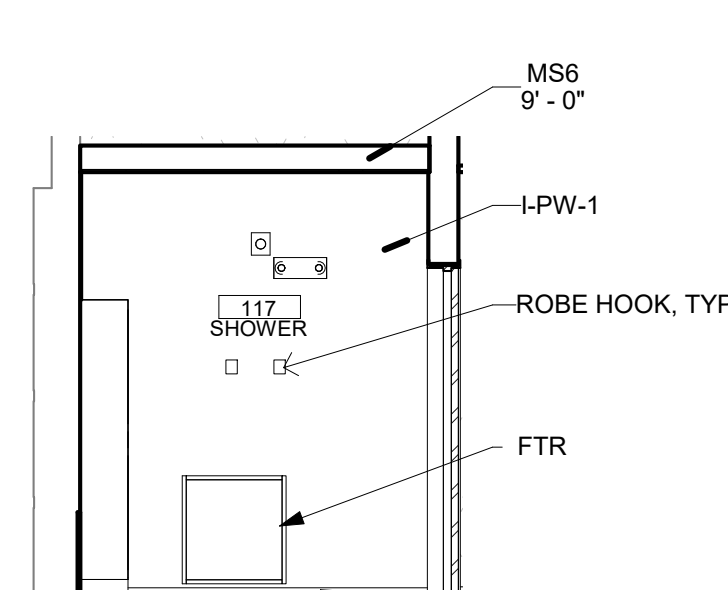
10 116 UNISEX



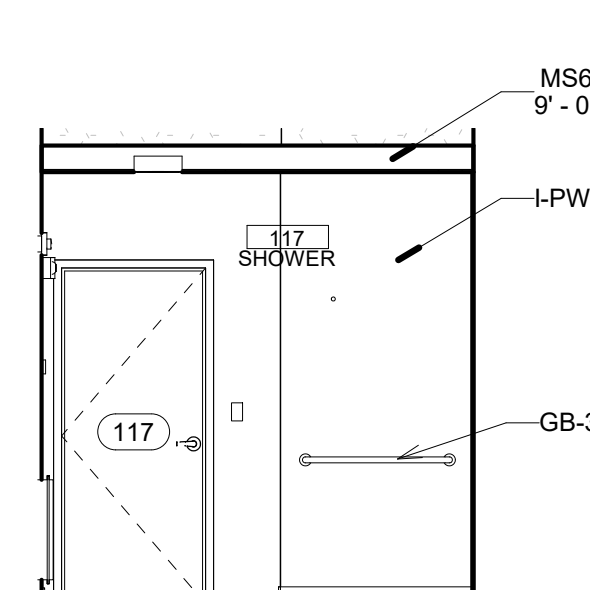
19 117 SHOWER NORTH
A-600 1/4" = 1'-0"



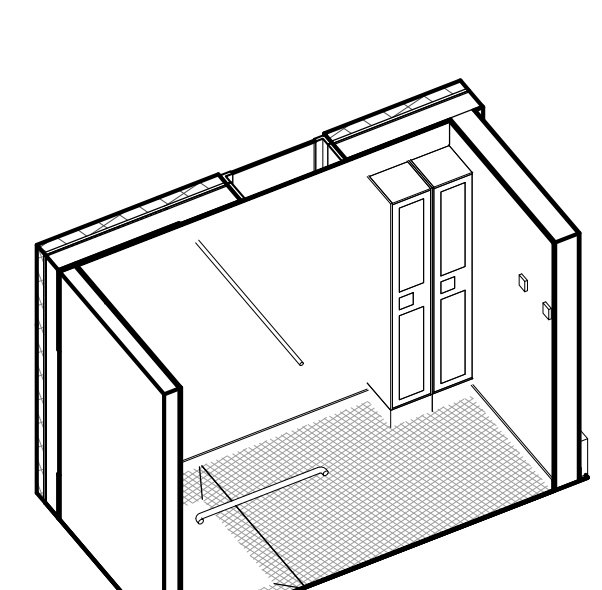
18 117 SHOWER EAST
A-600 1/4" = 1'-0"



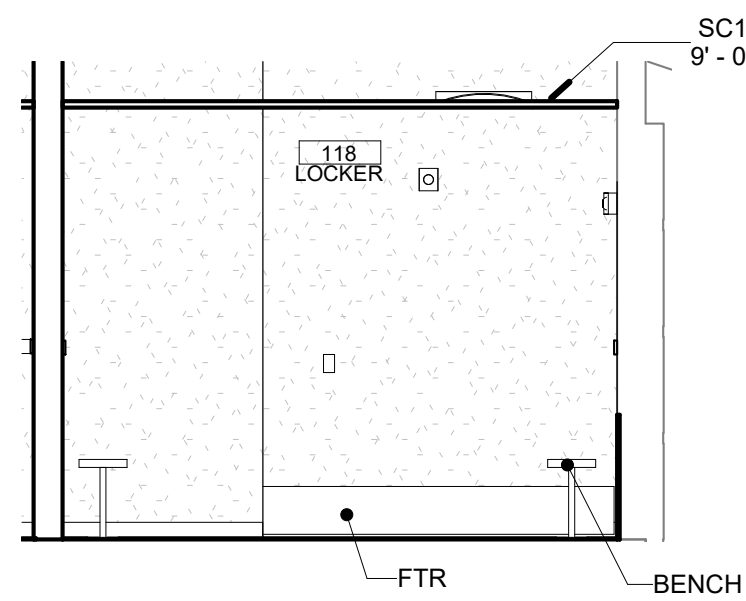
17 117 SHOWER SOUTH
A-600 1/4" = 1'-0"



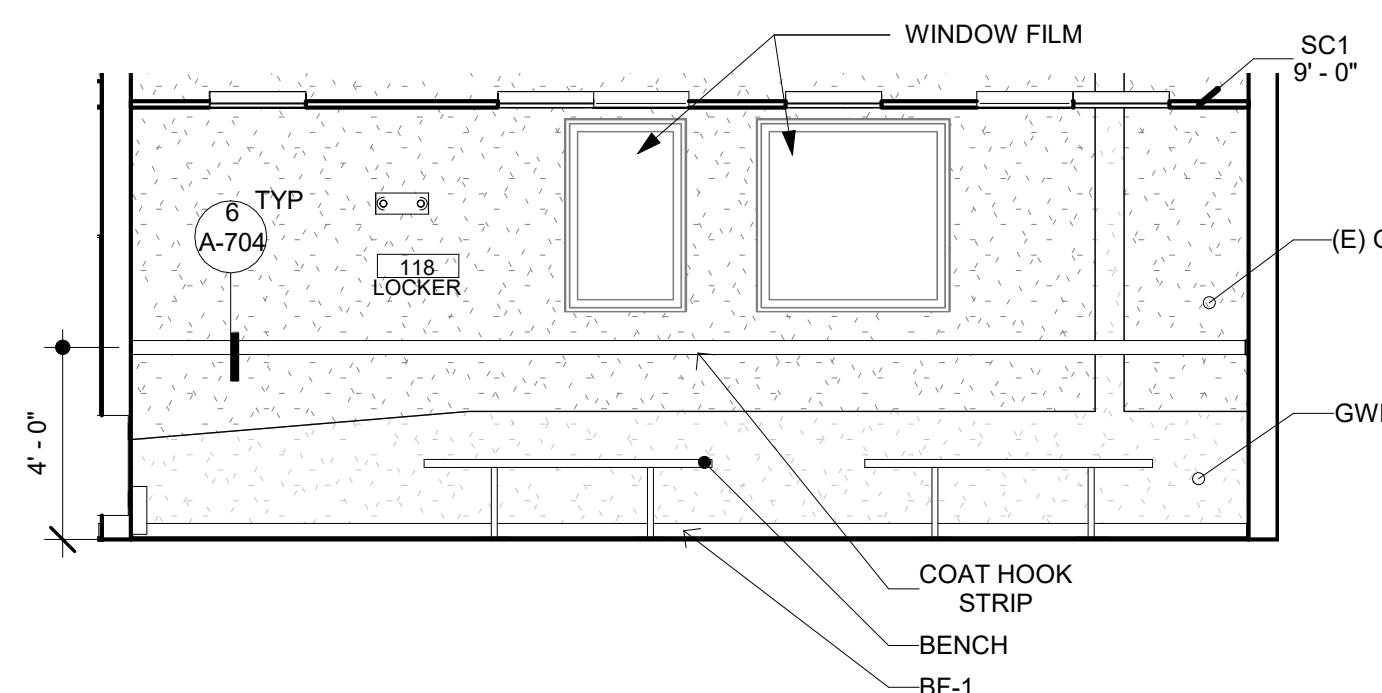
16 117 SHOWER WEST
A-600 1/4" = 1'-0"



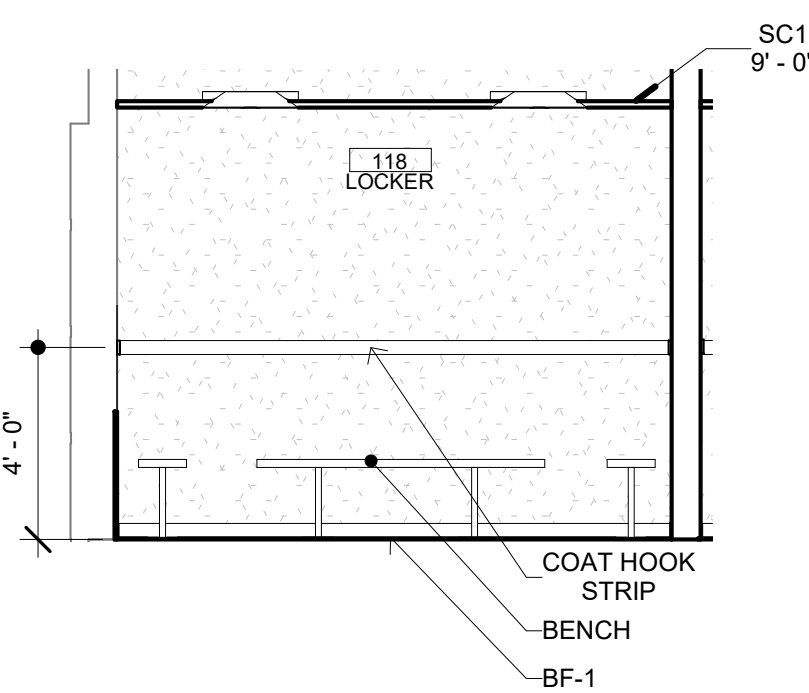
15 117 SHOWER



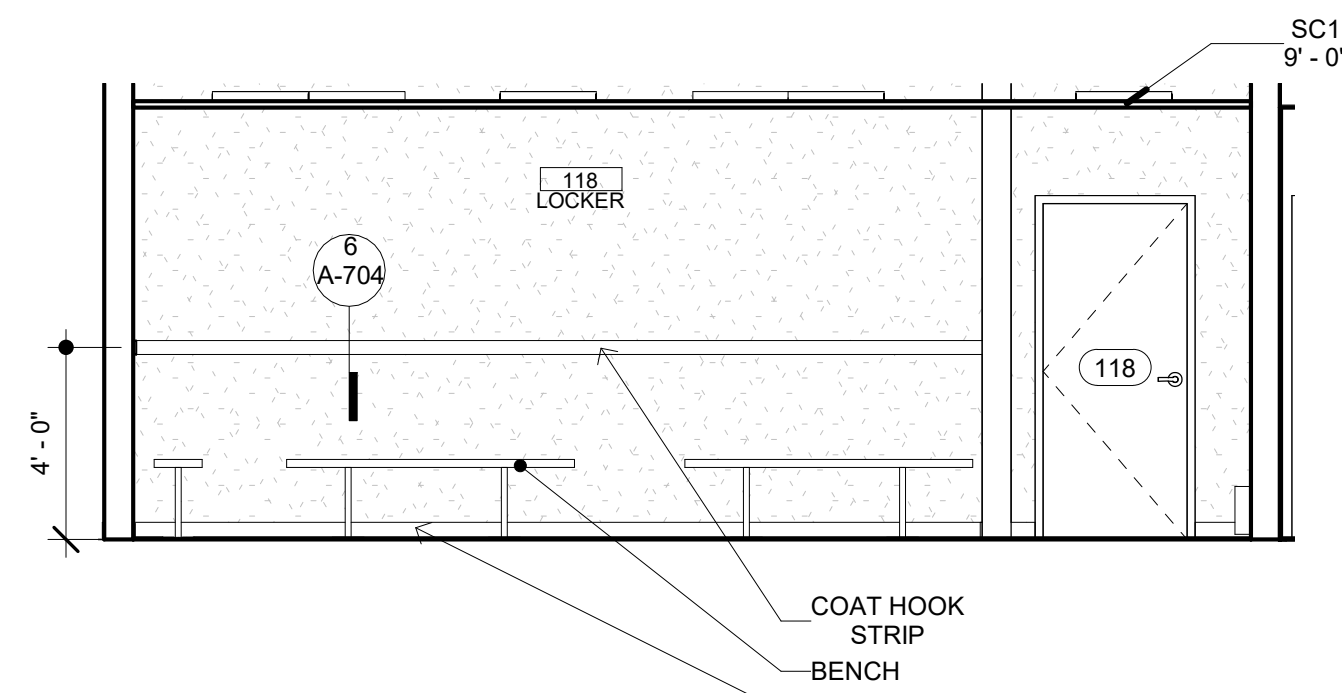
5 118 LOCKER NORTH
A-211 1/4" = 1'-0"



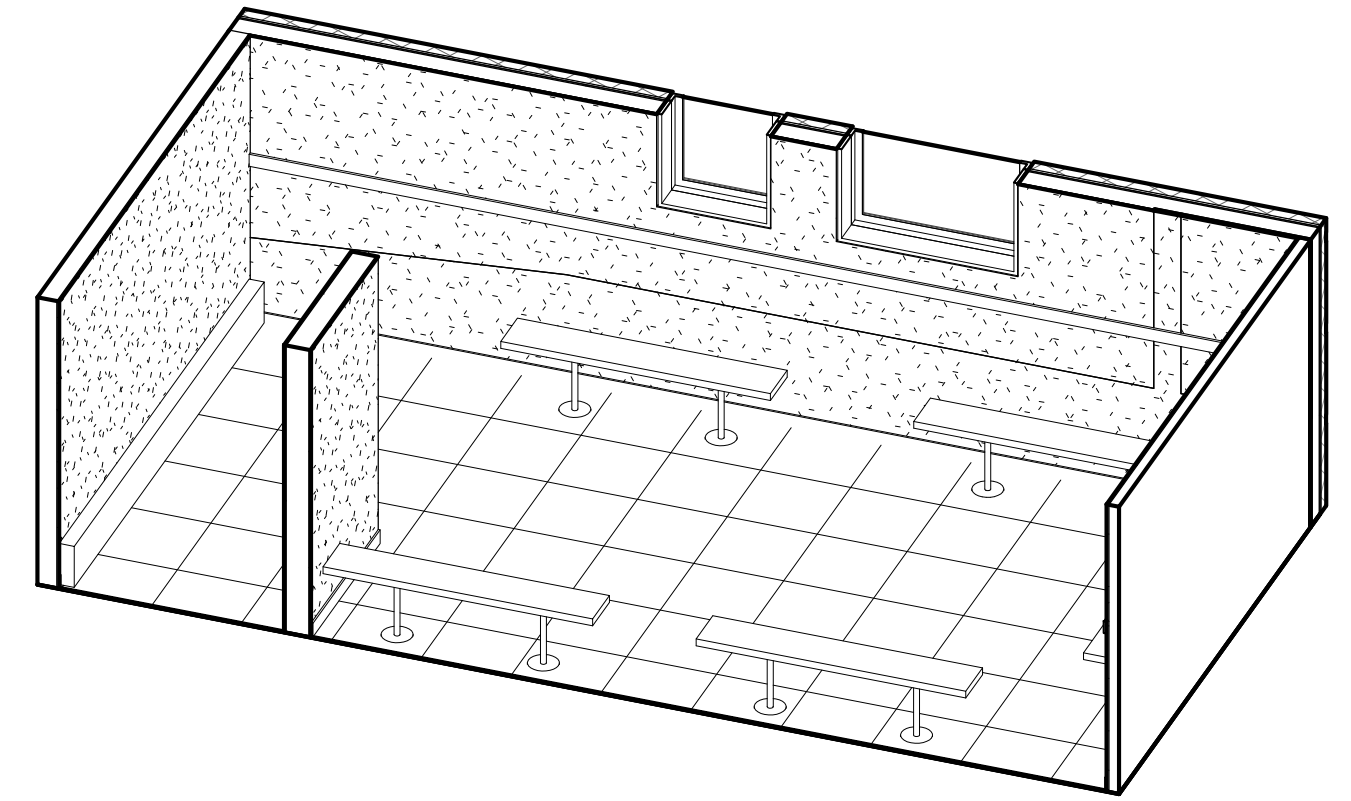
4 118 LOCKER EAST
A-211 1/4" = 1'-0"



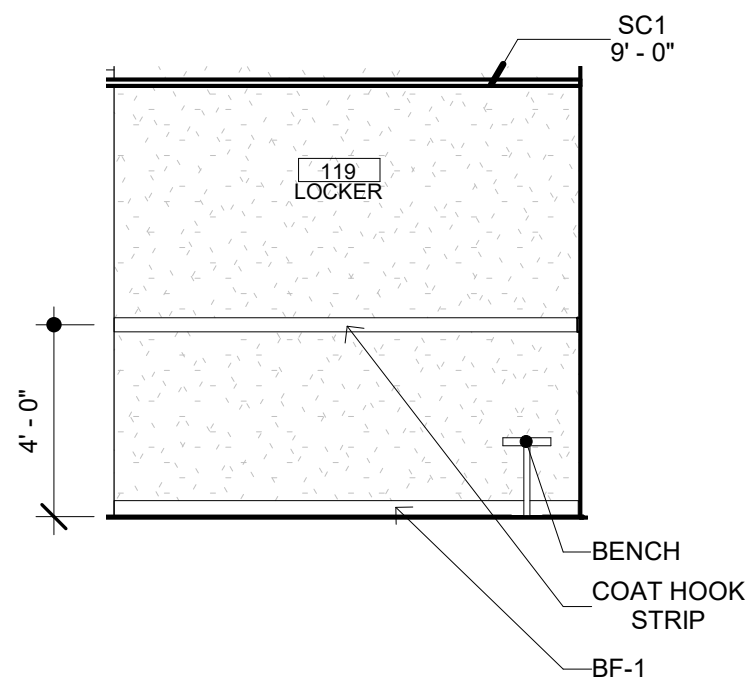
3 118 LOCKER SOUTH
A-211 1/4" = 1'-0"



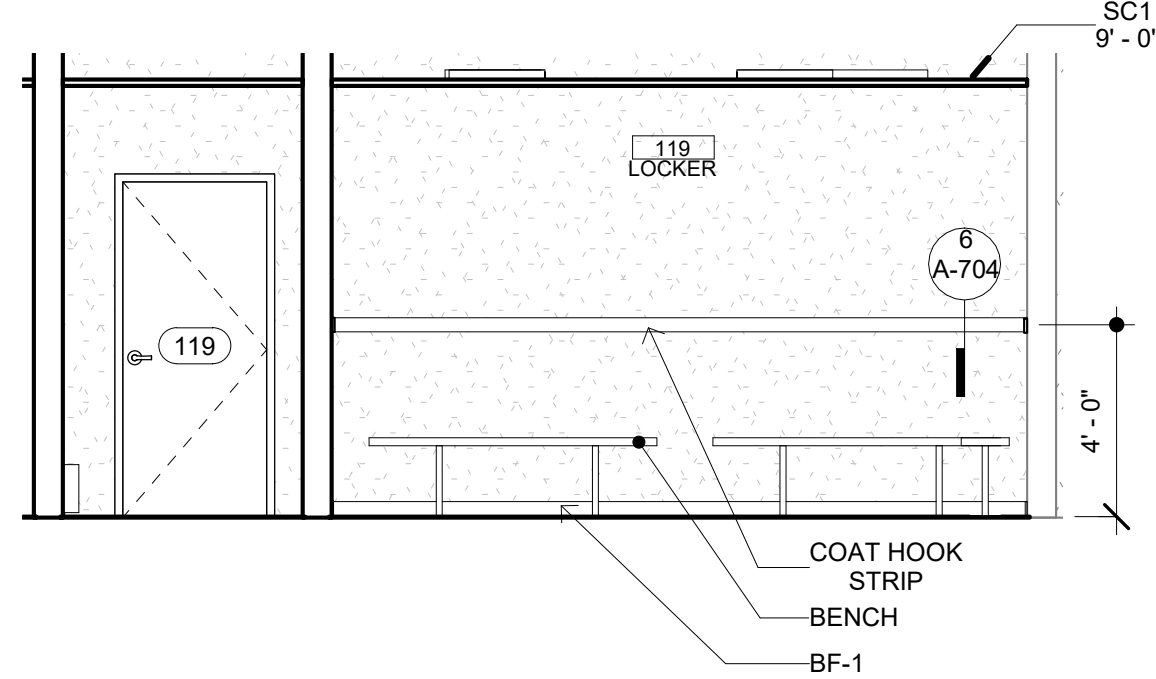
2 118 LOCKER WEST
A-211 1/4" = 1'-0"



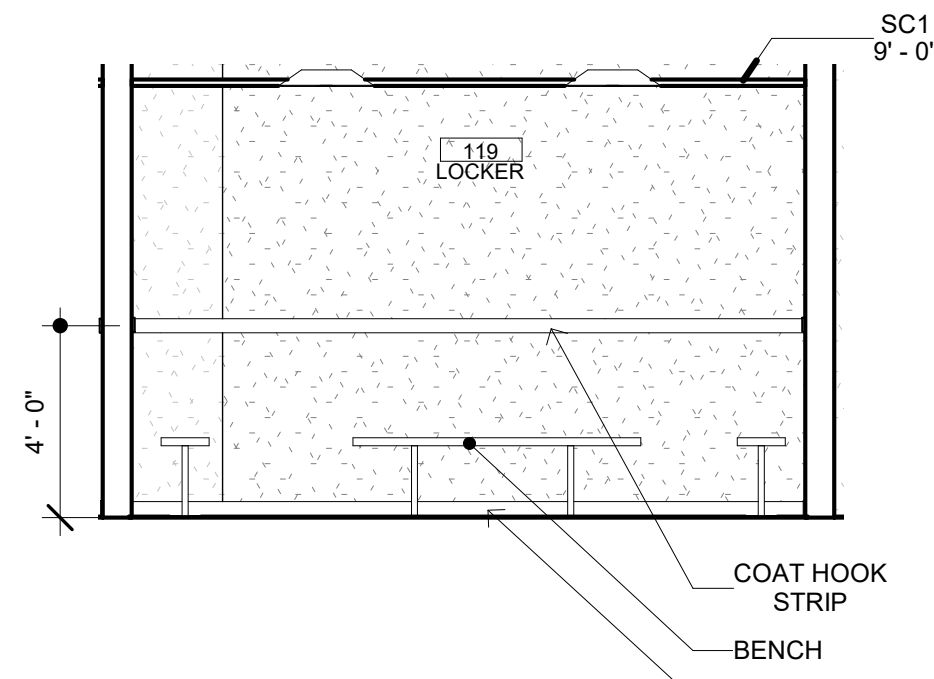
1 118 LOCKER



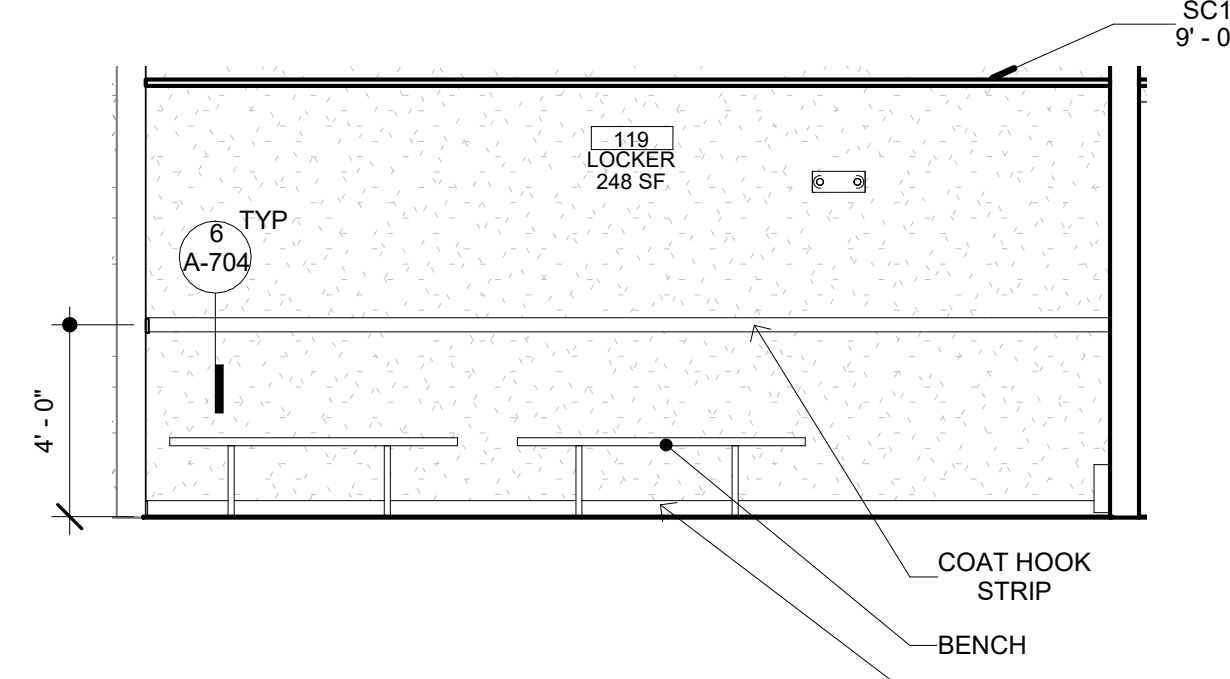
10 119 LOCKER NORTH A
A-211 1/4" = 1'-0"



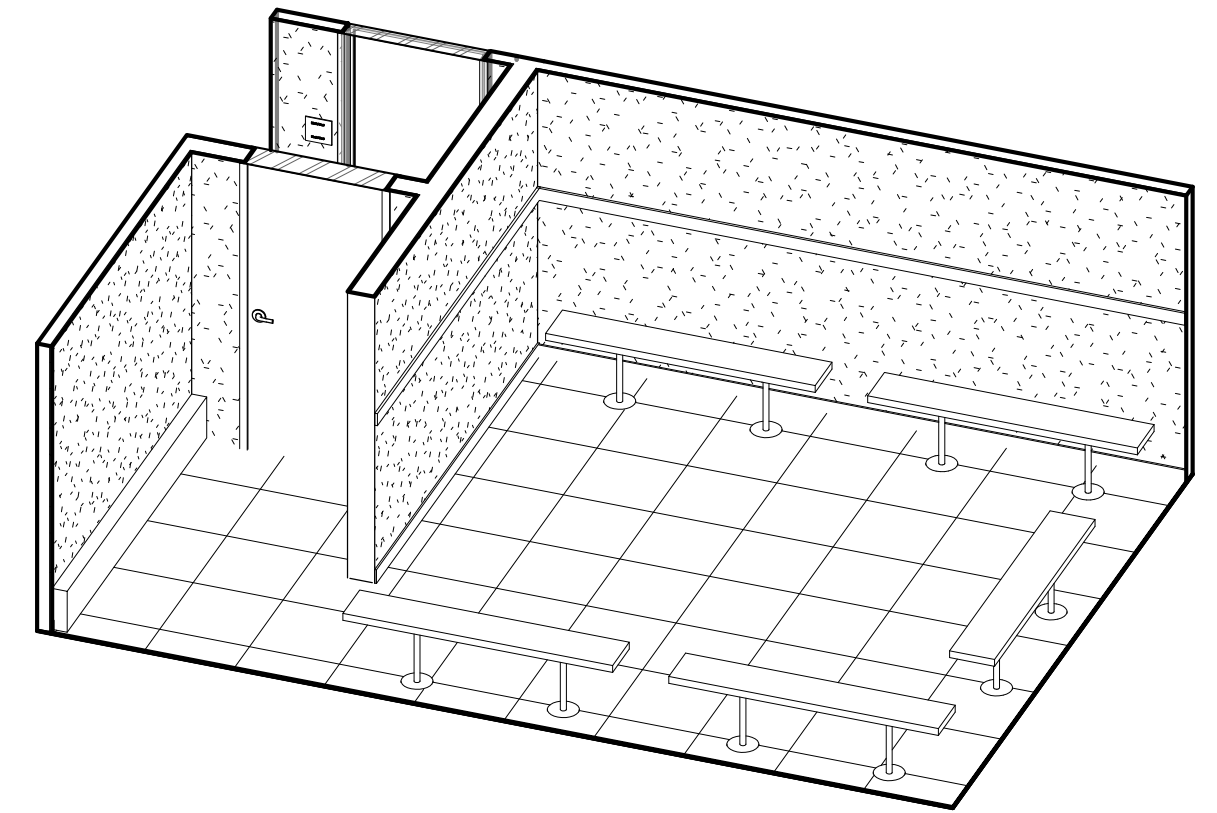
9 119 LOCKER EAST
A-211 1/4" = 1'-0"



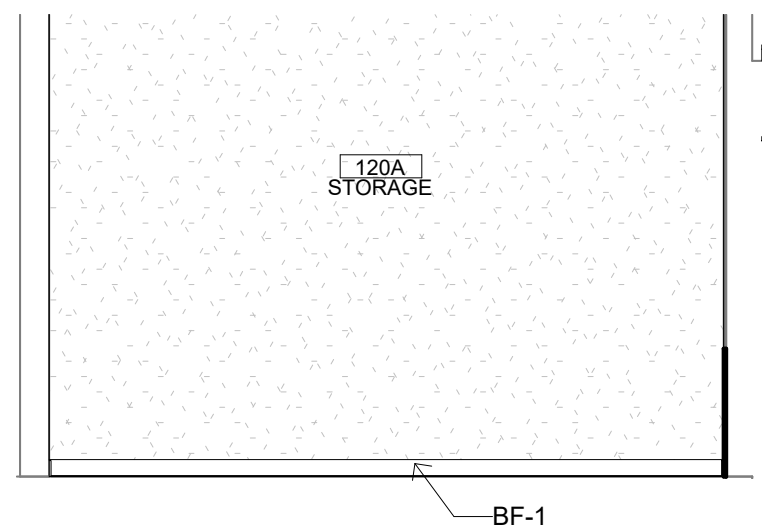
8 119 LOCKER SOUTH
A-211 1/4" = 1'-0"



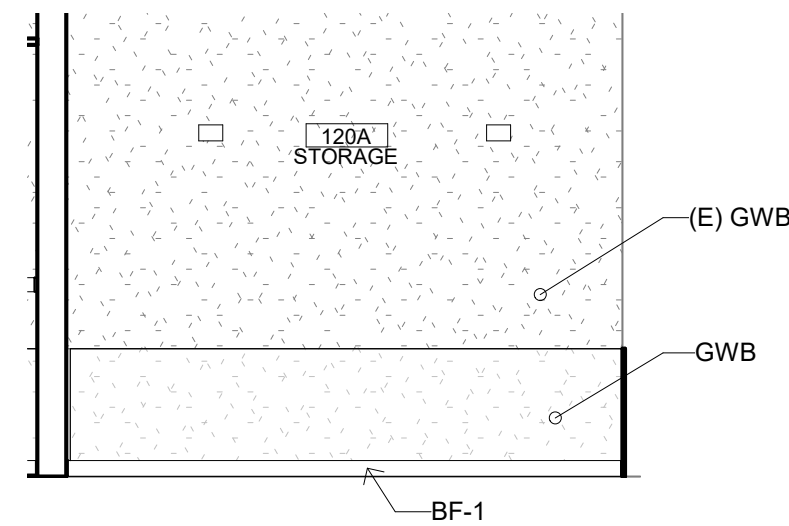
7 119 LOCKER WEST
A-211 1/4" = 1'-0"



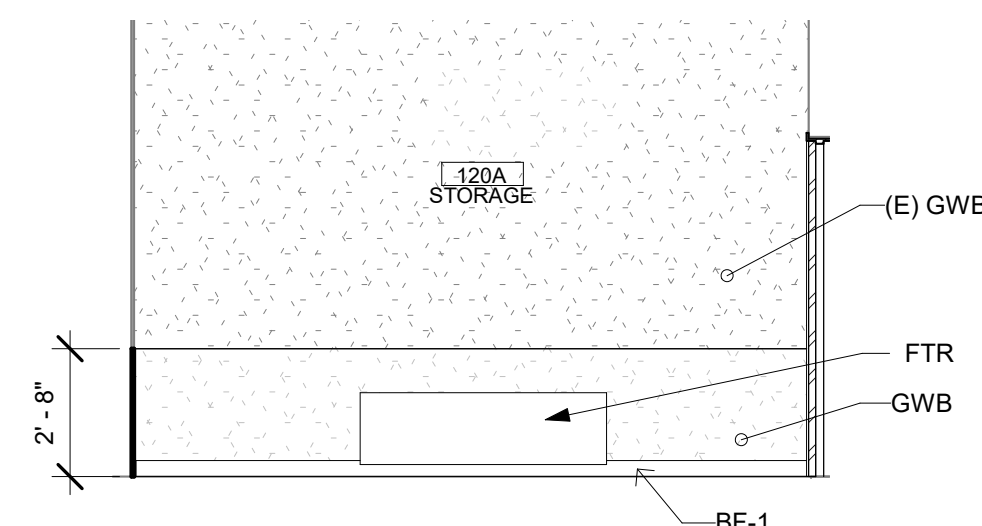
6 119 LOCKER



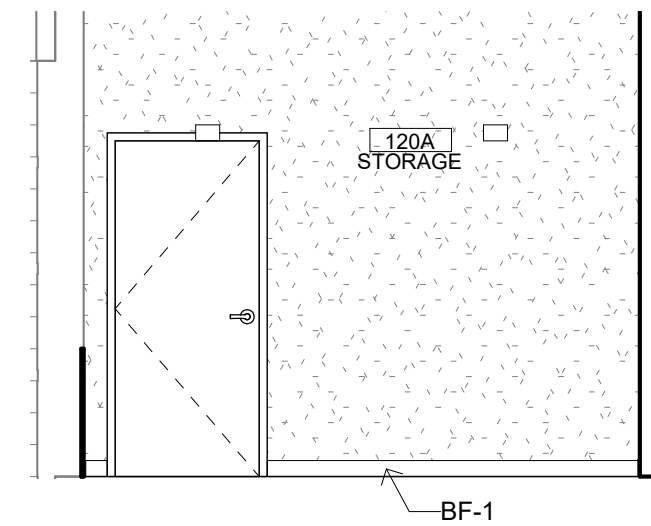
15 120A STORAGE NORTH
A-211 1/4" = 1'-0"



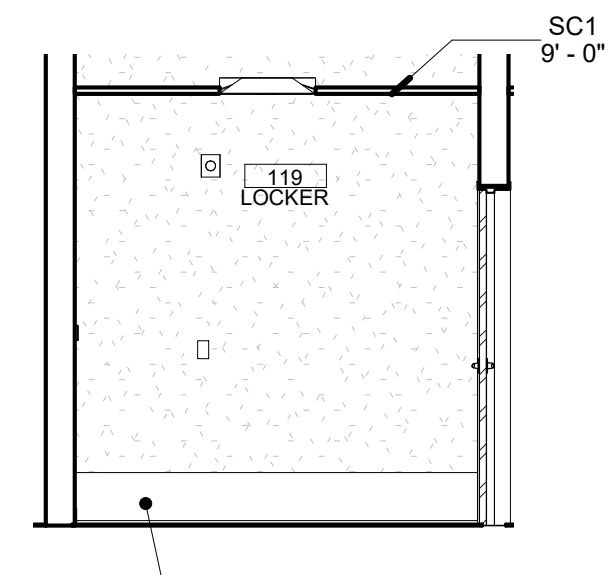
14 120A STORAGE EAST
A-211 1/4" = 1'-0"



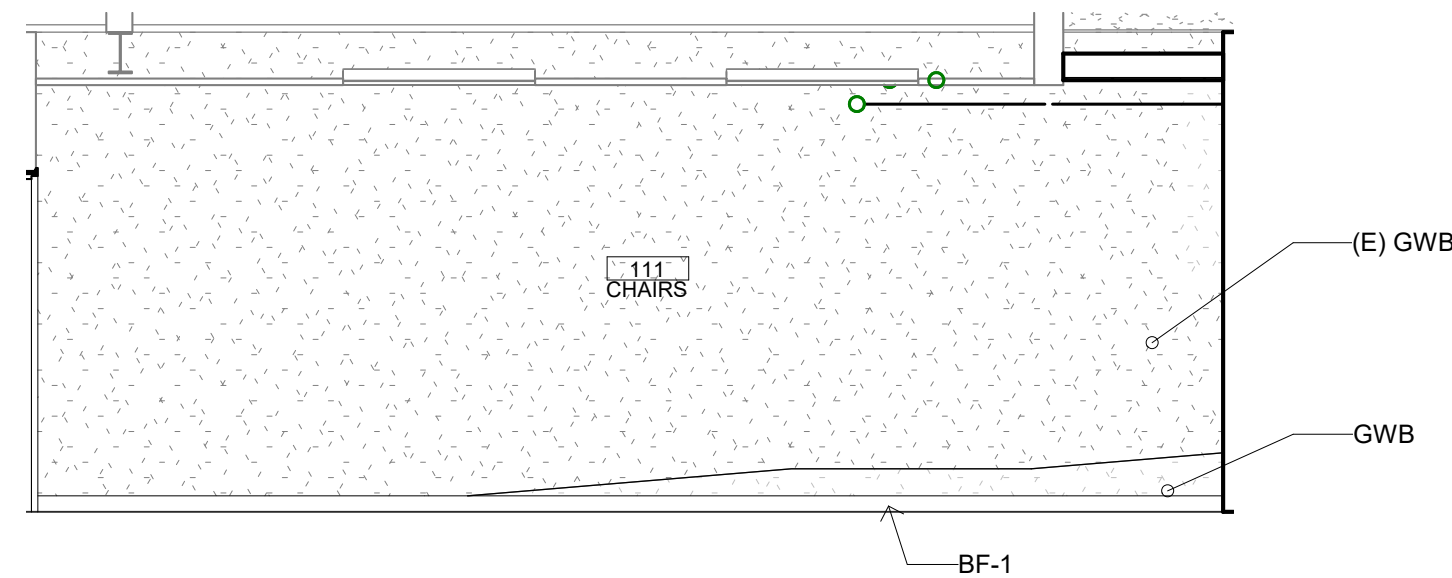
13 120A STORAGE SOUTH
A-211 1/4" = 1'-0"



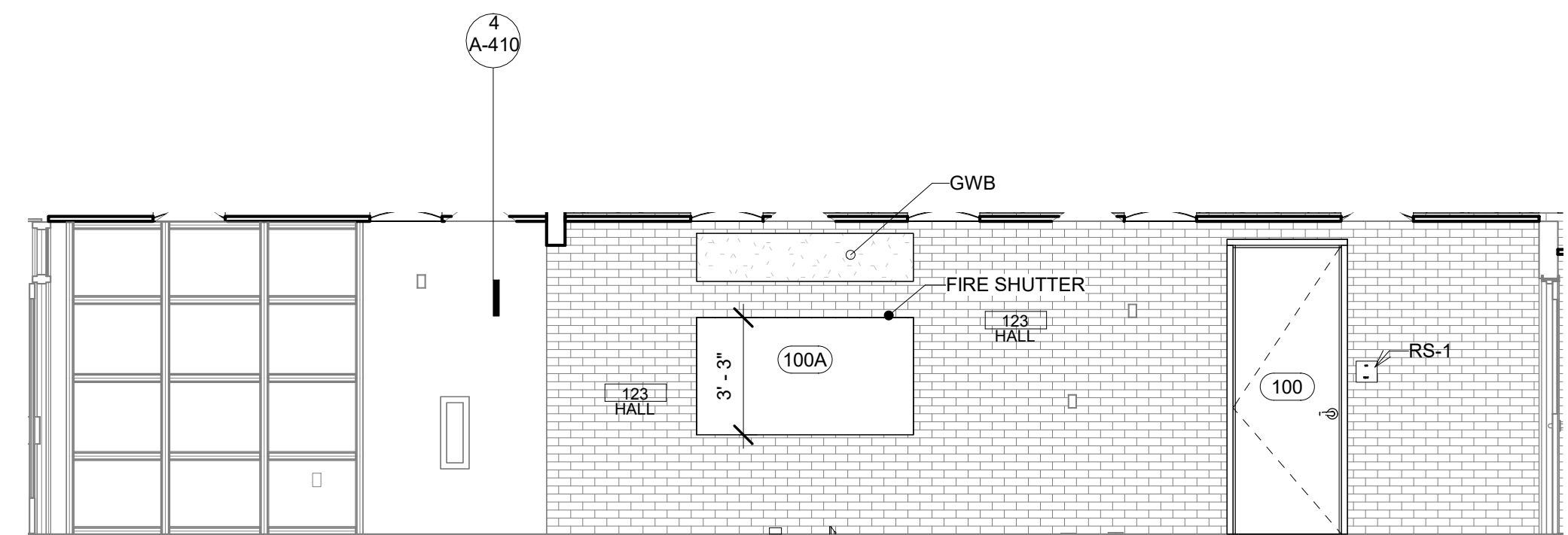
12 120A STORAGE WEST
A-211 1/4" = 1'-0"



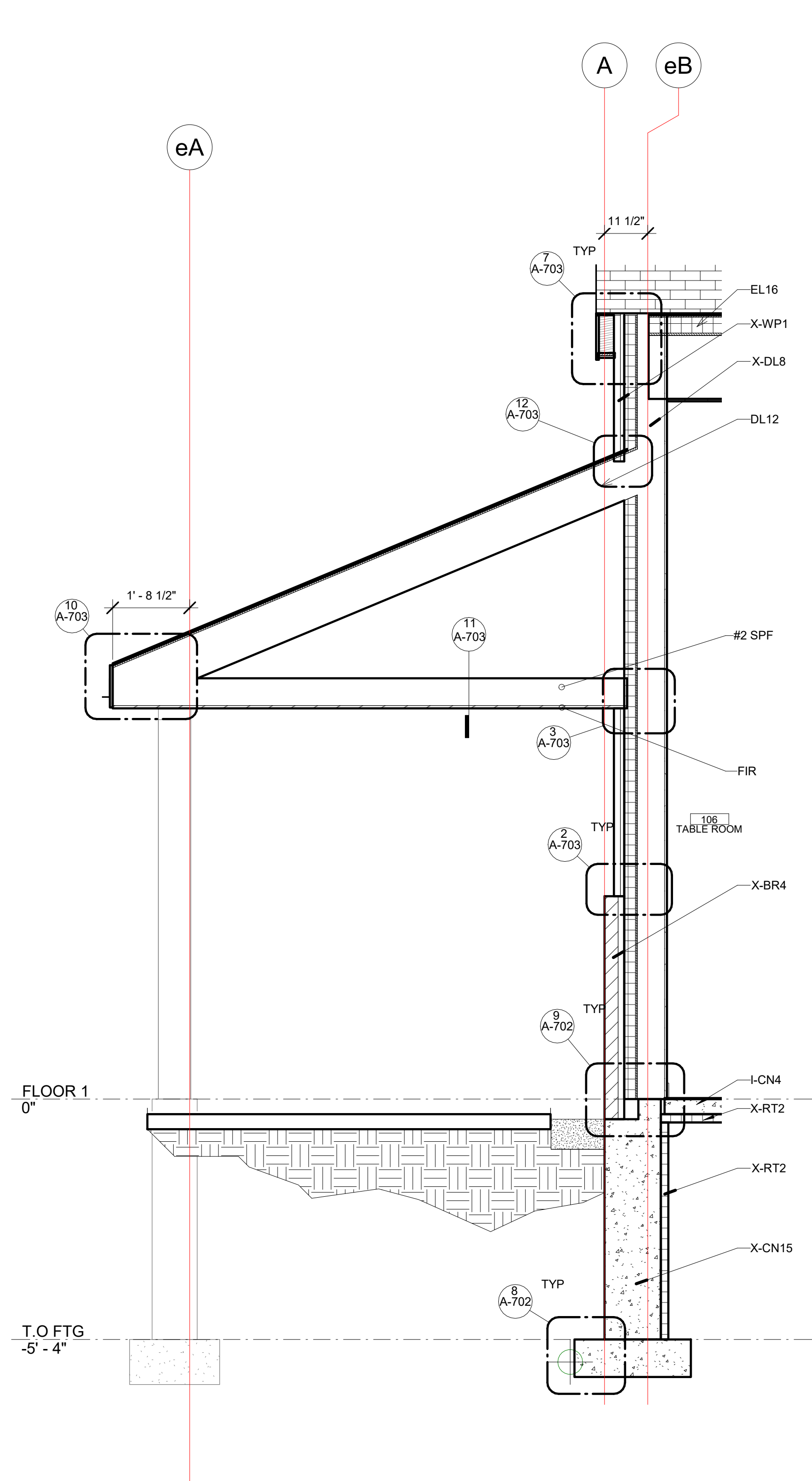
11 119 LOCKER NORTH
A-211 1/4" = 1'-0"



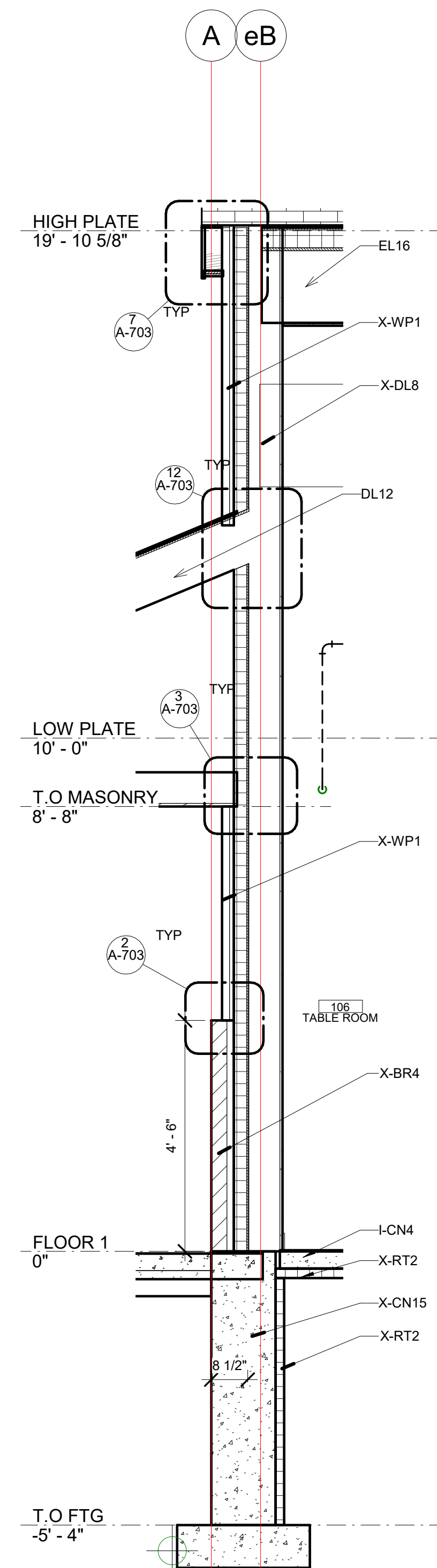
17 113 CHAIRS EAST
A-211 1/4" = 1'-0"



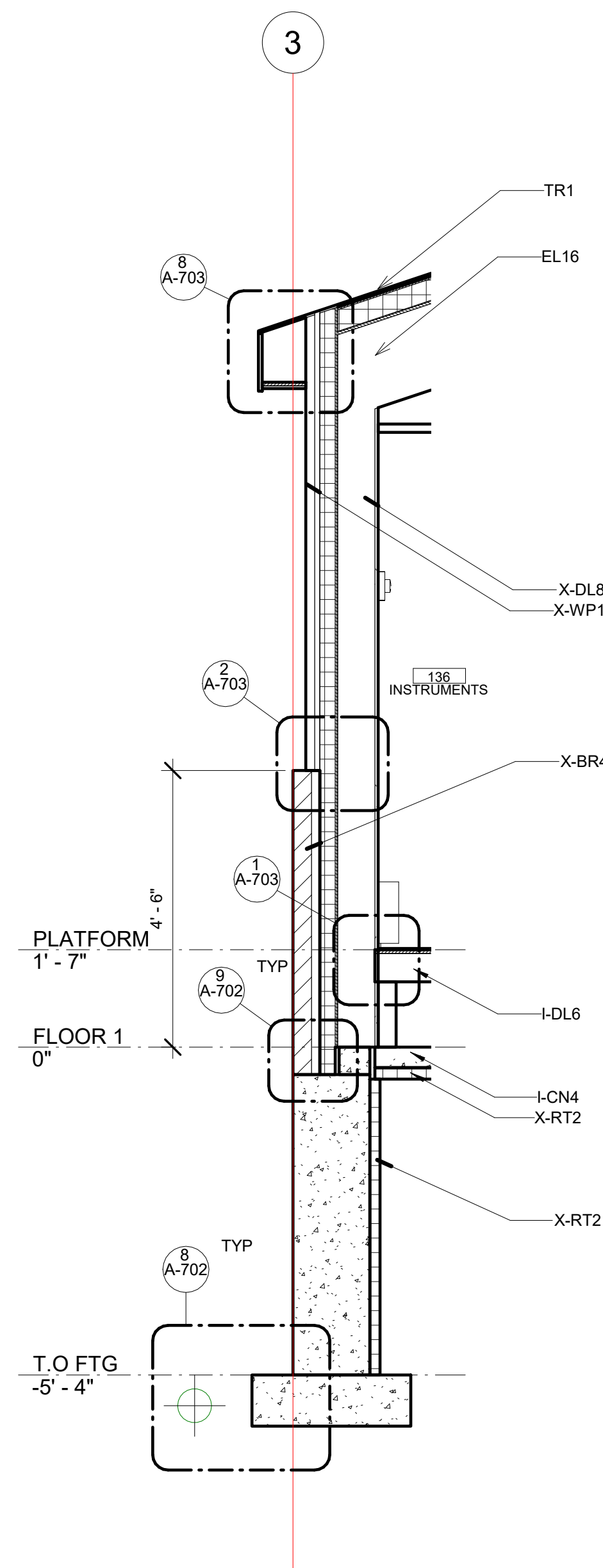
16 123 HALL NORTH
A-210 1/4" = 1'-0"



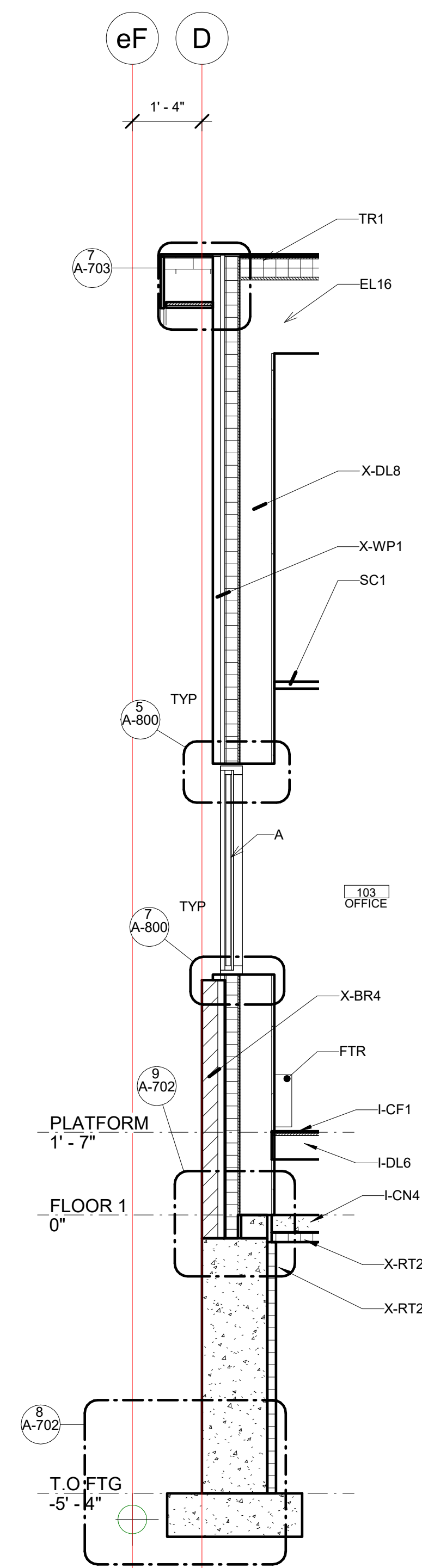
4 GRID A AT WALKWAY
A-211
1/2" = 1'-0"



3 GRID A AT LANDING
A-211
1/2" = 1'-0"



2 GRID 3 AT INSTRUMENTS
A-401
1/2" = 1'-0"



1 GRID D AT OFFICE
A-210
1/2" = 1'-0"

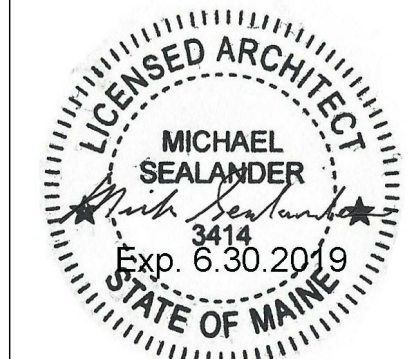
RSU 18

CHINA MIDDLE SCHOOL ADDITION

BIDDING
8 APR 2019
4/8/2019 9:14:08 AM

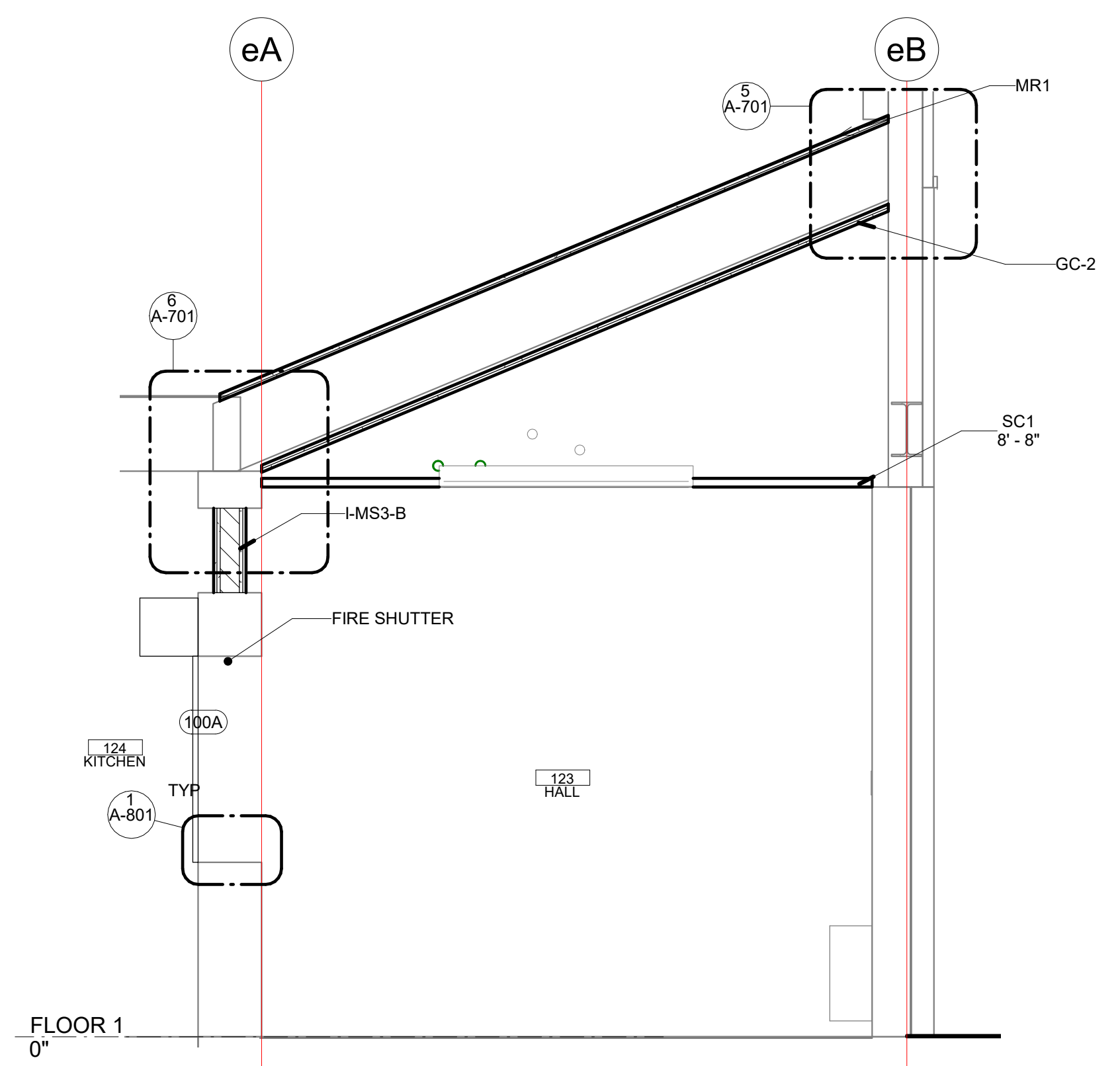
WALL SECTIONS

A-500

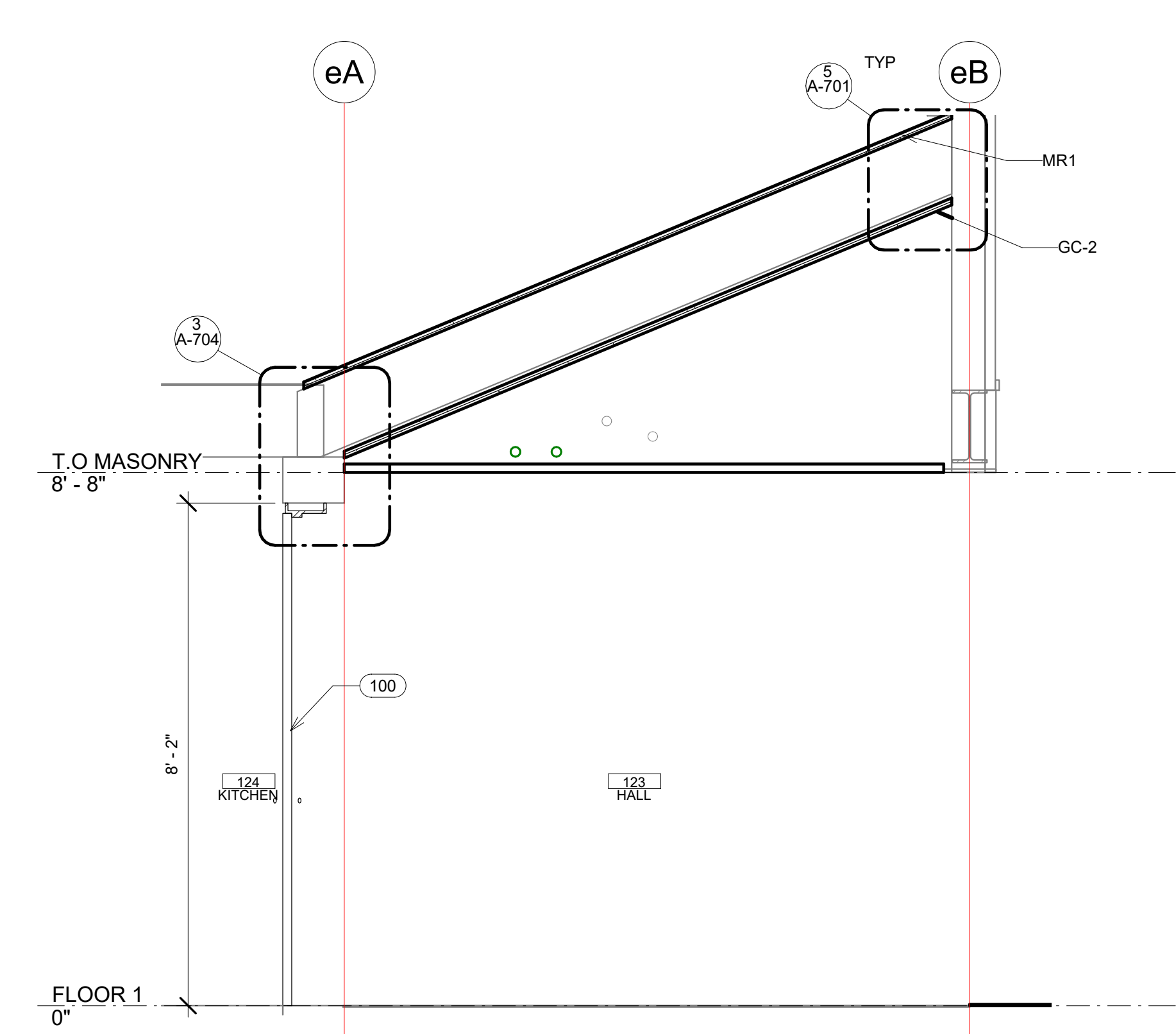


SEALANDER ARCHITECTS
79 Main Street, Suite C
Ellsworth ME 04605
207.266.5822

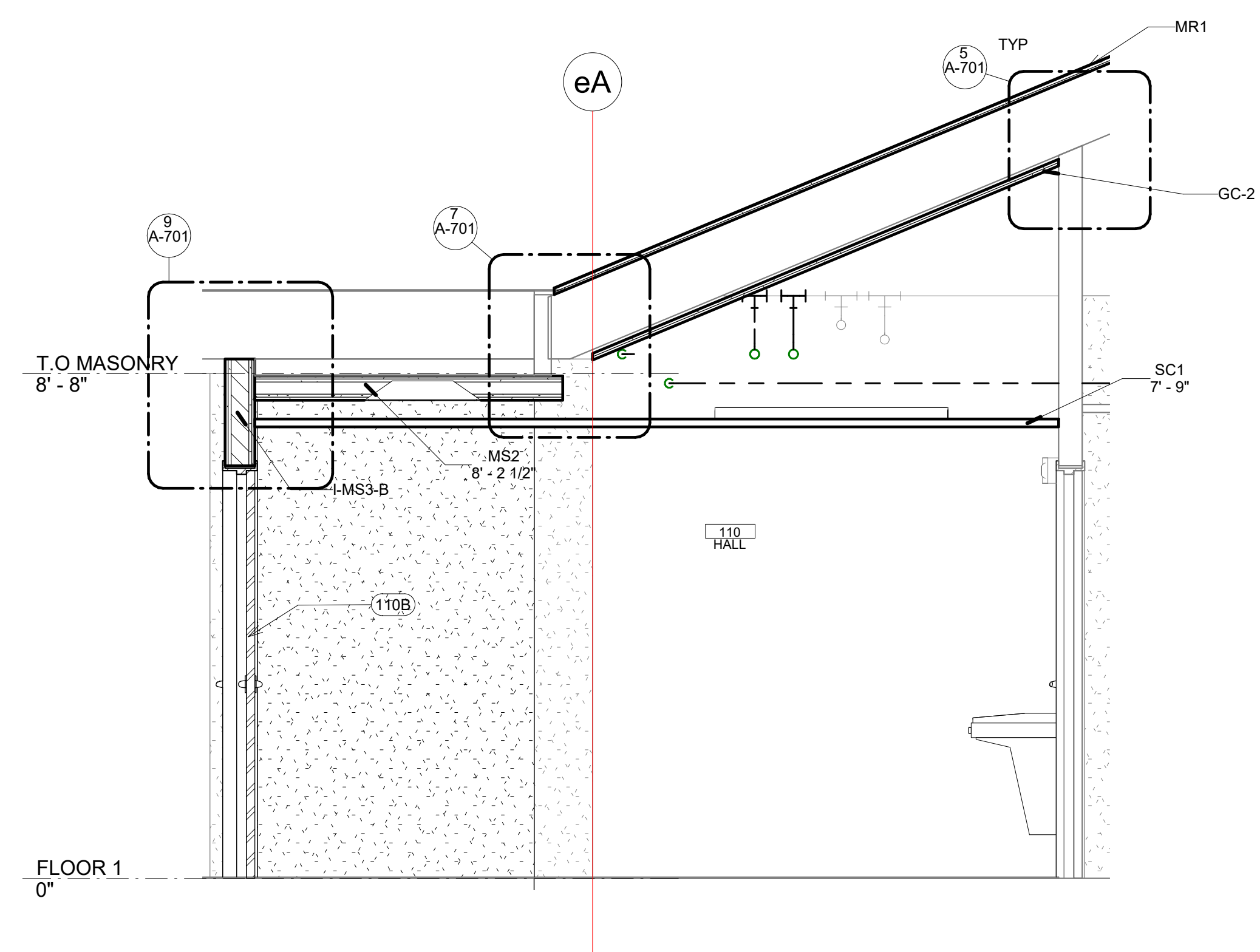
RSU 18
CHINA MIDDLE SCHOOL ADDITION



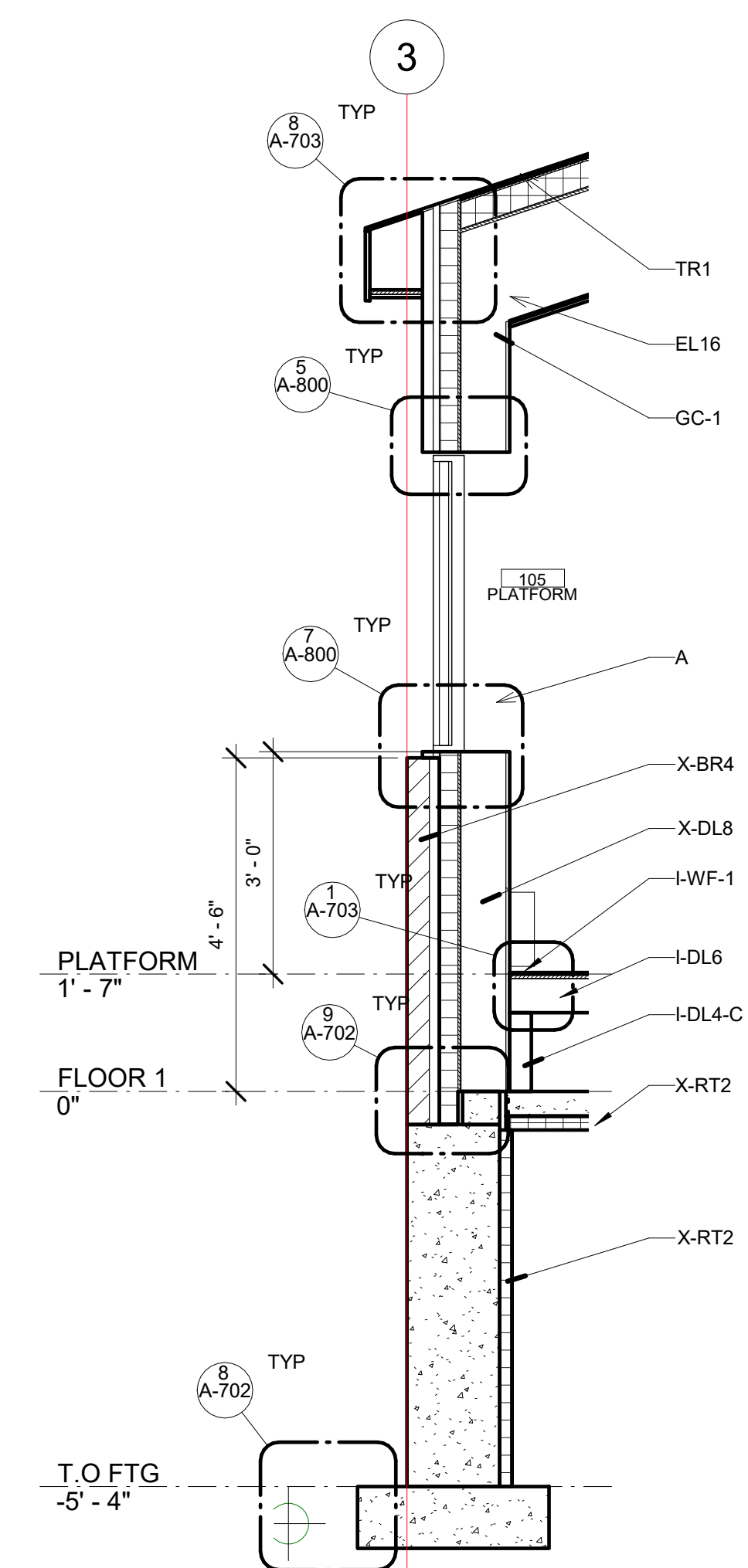
3 FIRE SEPARATION AT FIRE SHUTTER
A-210 1/2" = 1'-0"



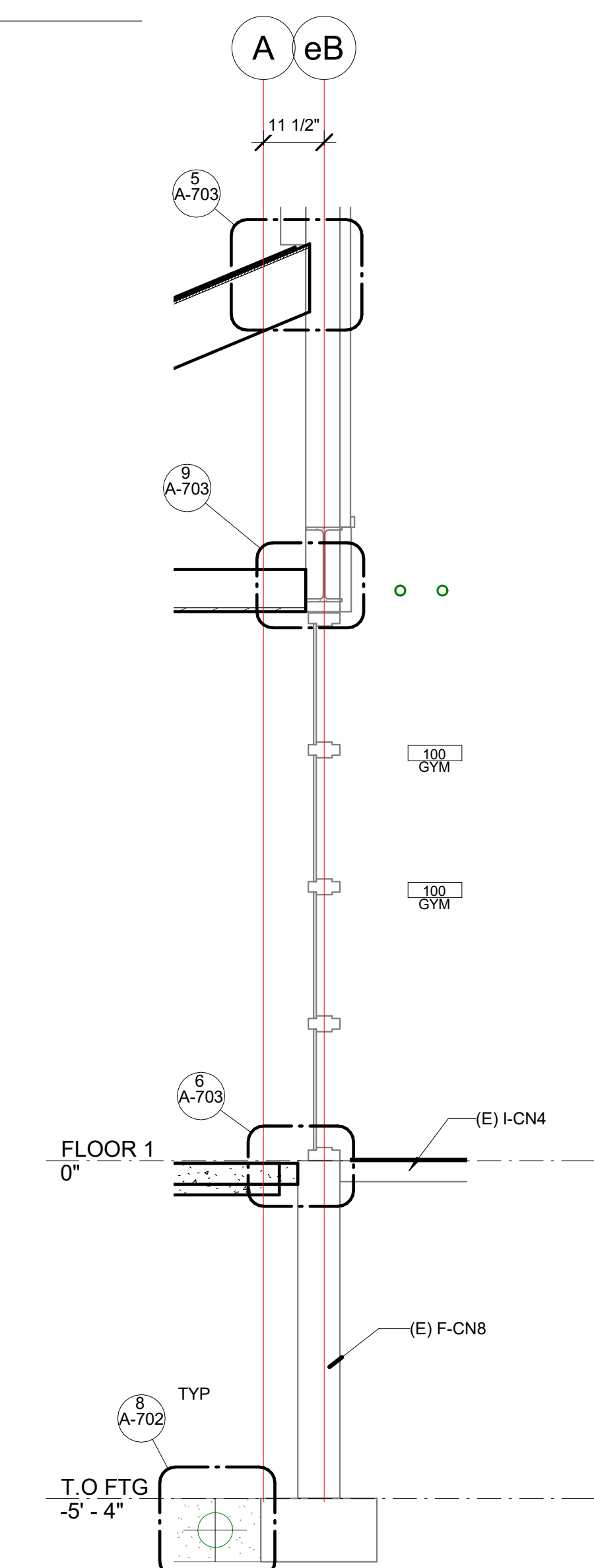
1 FIRE SEPARATION AT DOOR 100
A-210 1/2" = 1'-0"



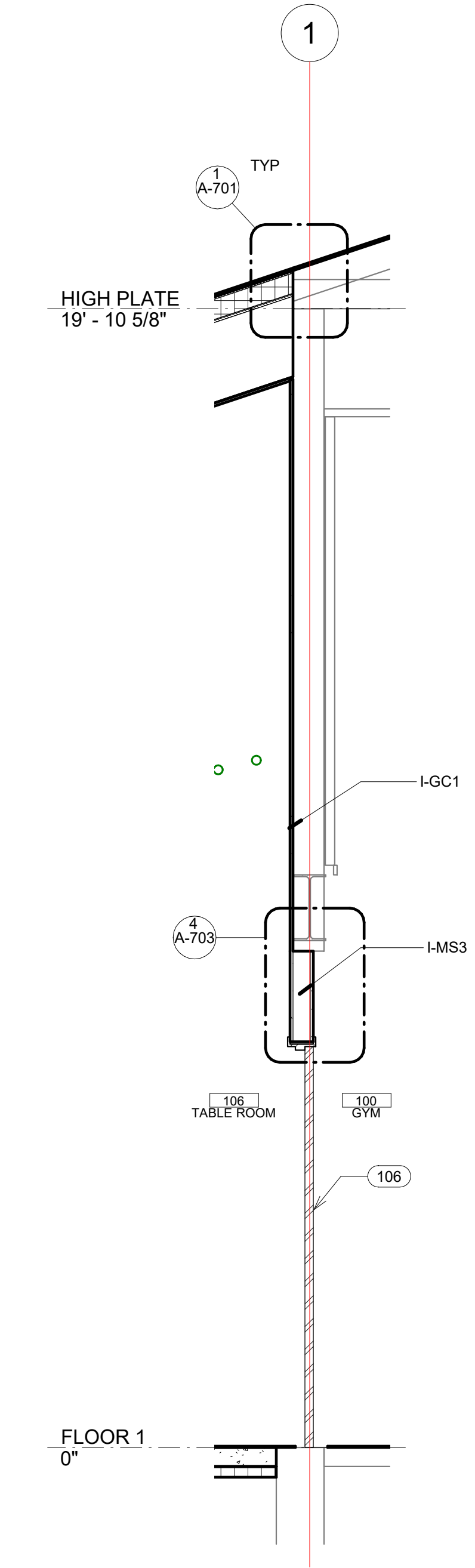
7 FIRE SEPARATION AT DOOR 110B
A-210 1/2" = 1'-0"



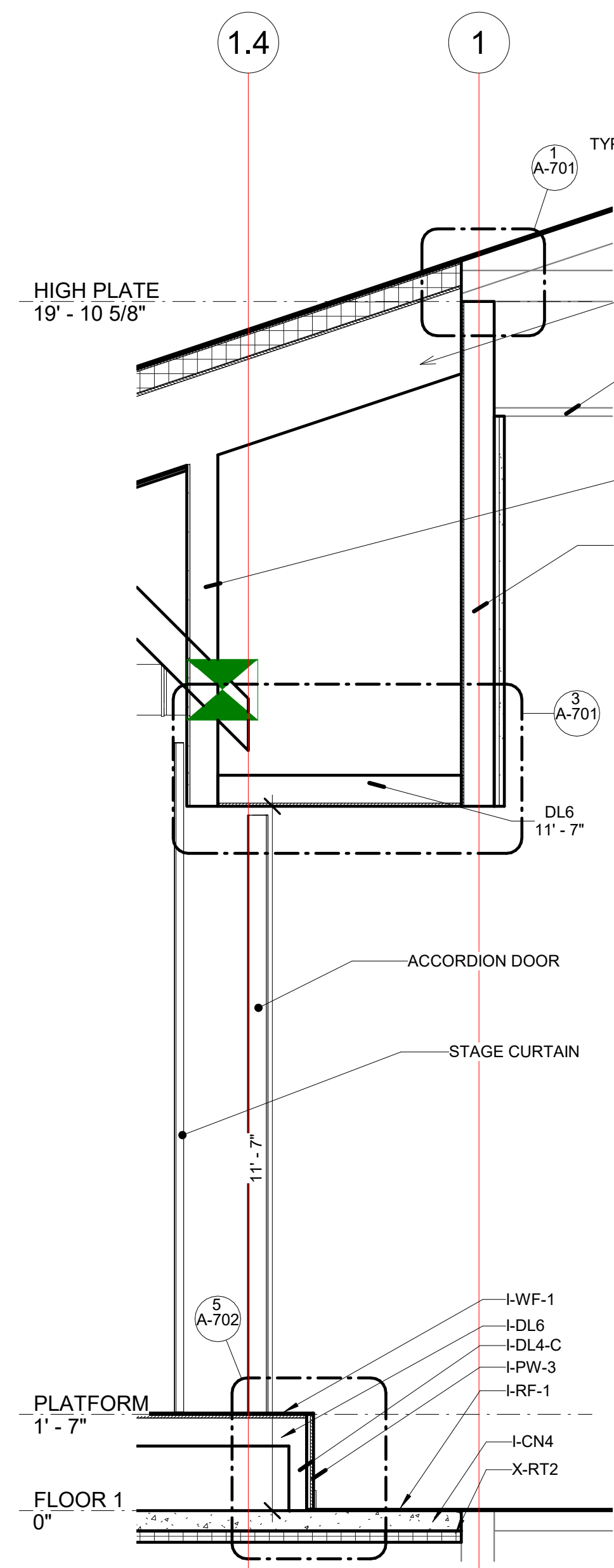
6 GRID 2 AT PLATFORM
A-401 1/2" = 1'-0"



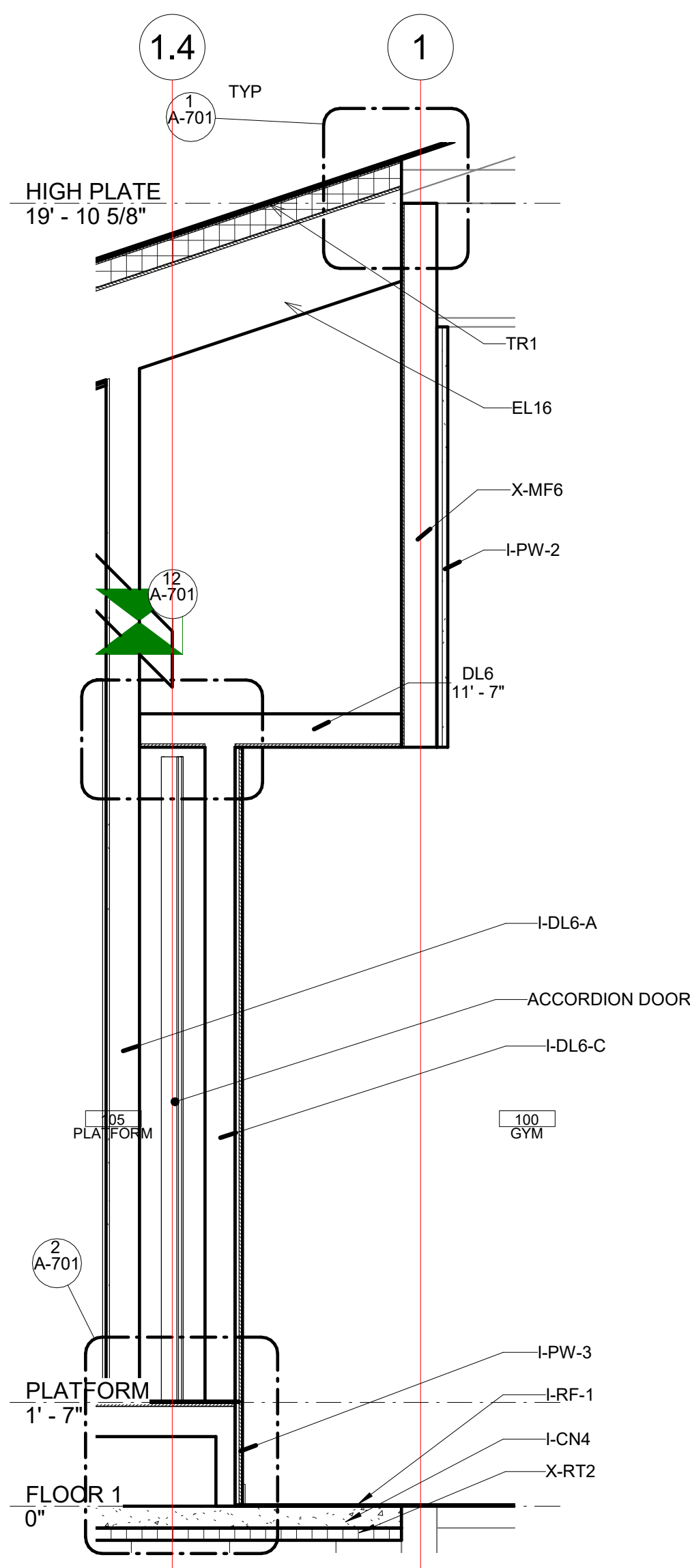
5 GRID A AT (E) FOUNDATION
A-211 1/2" = 1'-0"



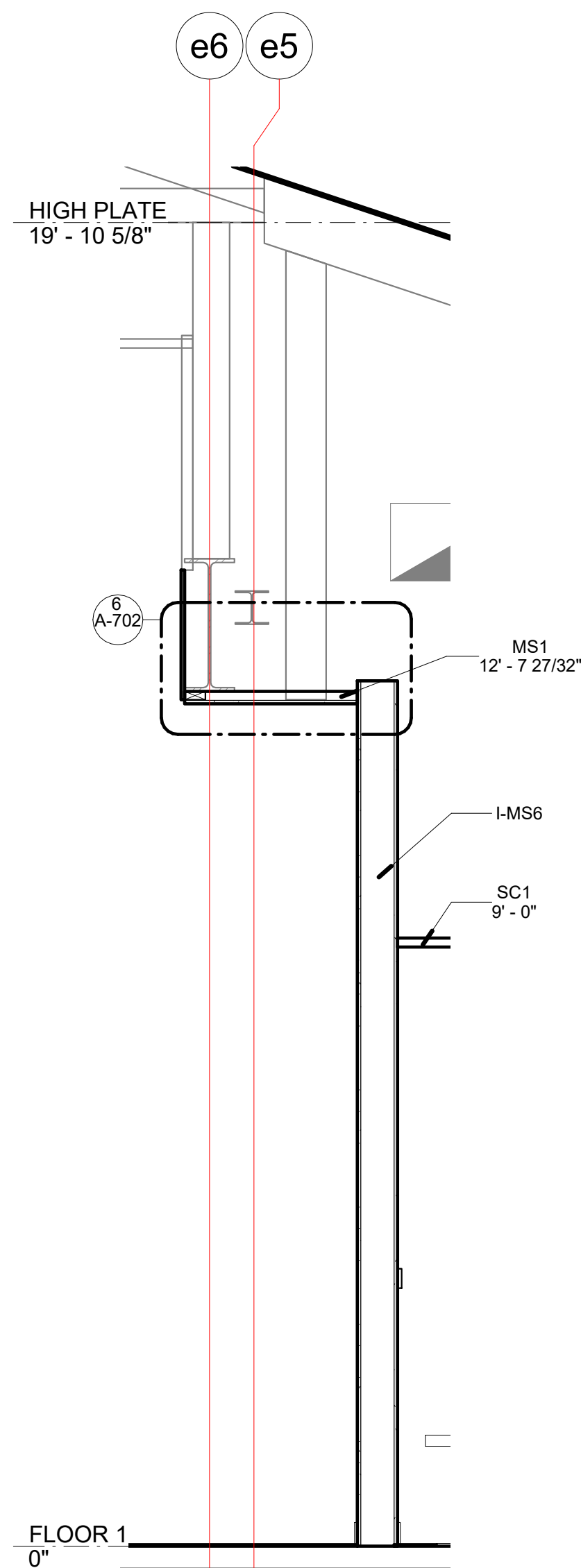
4 GRID 1 AT STORAGE DOORS
A-211 1/2" = 1'-0"



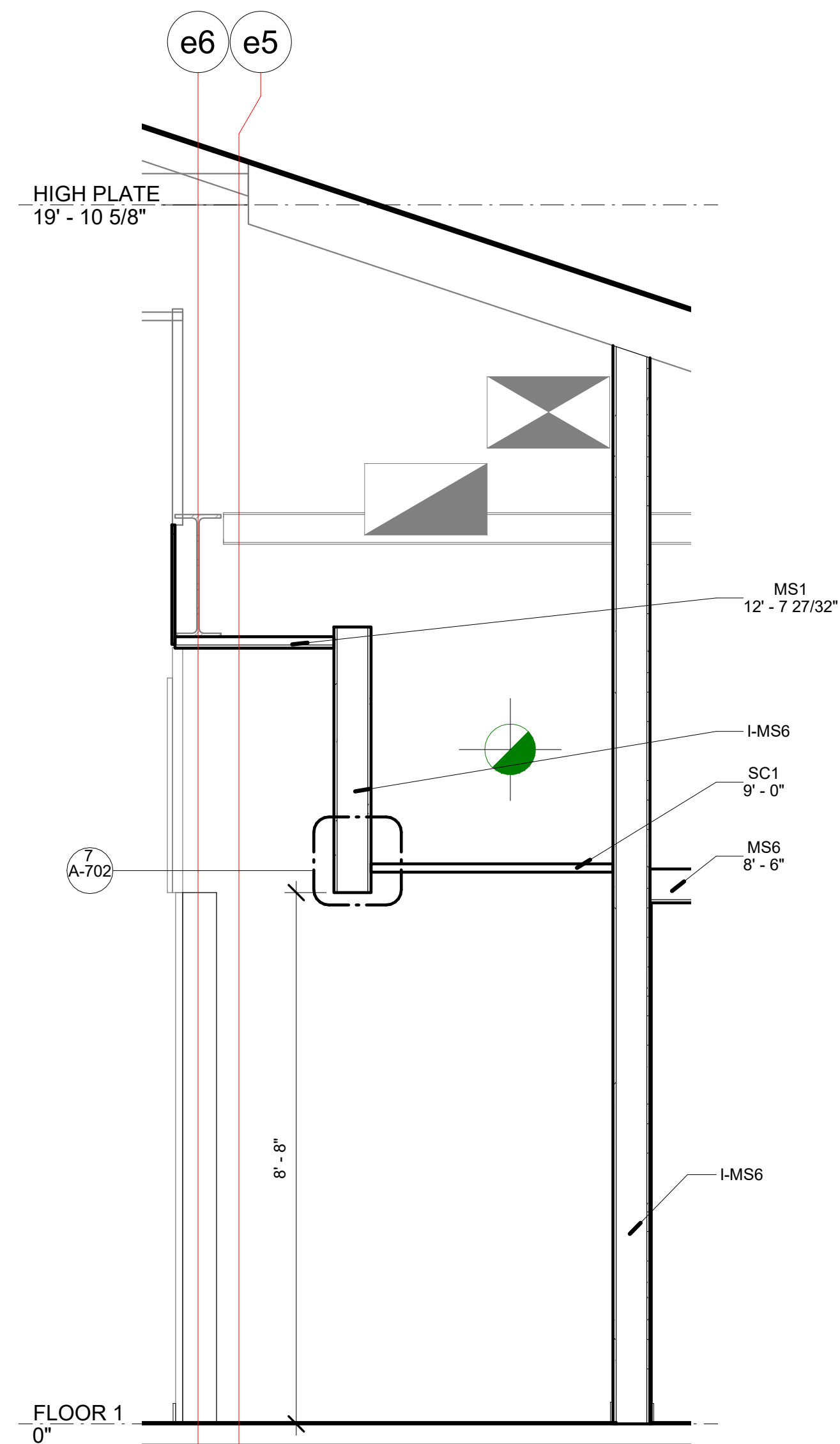
5 GRID 1 AT PLATFORM
A-401 1/2" = 1'-0"



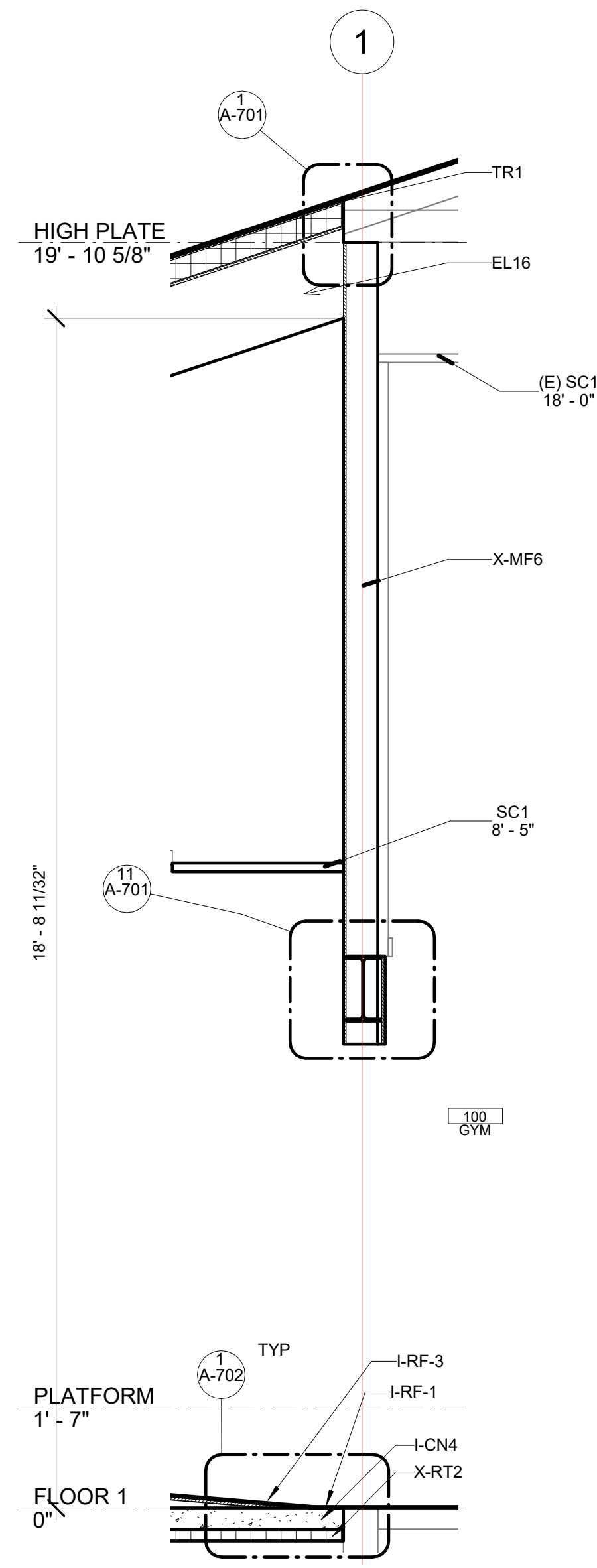
4 GRID 1 AT NORTH POCKET
A-401 1/2" = 1'-0"



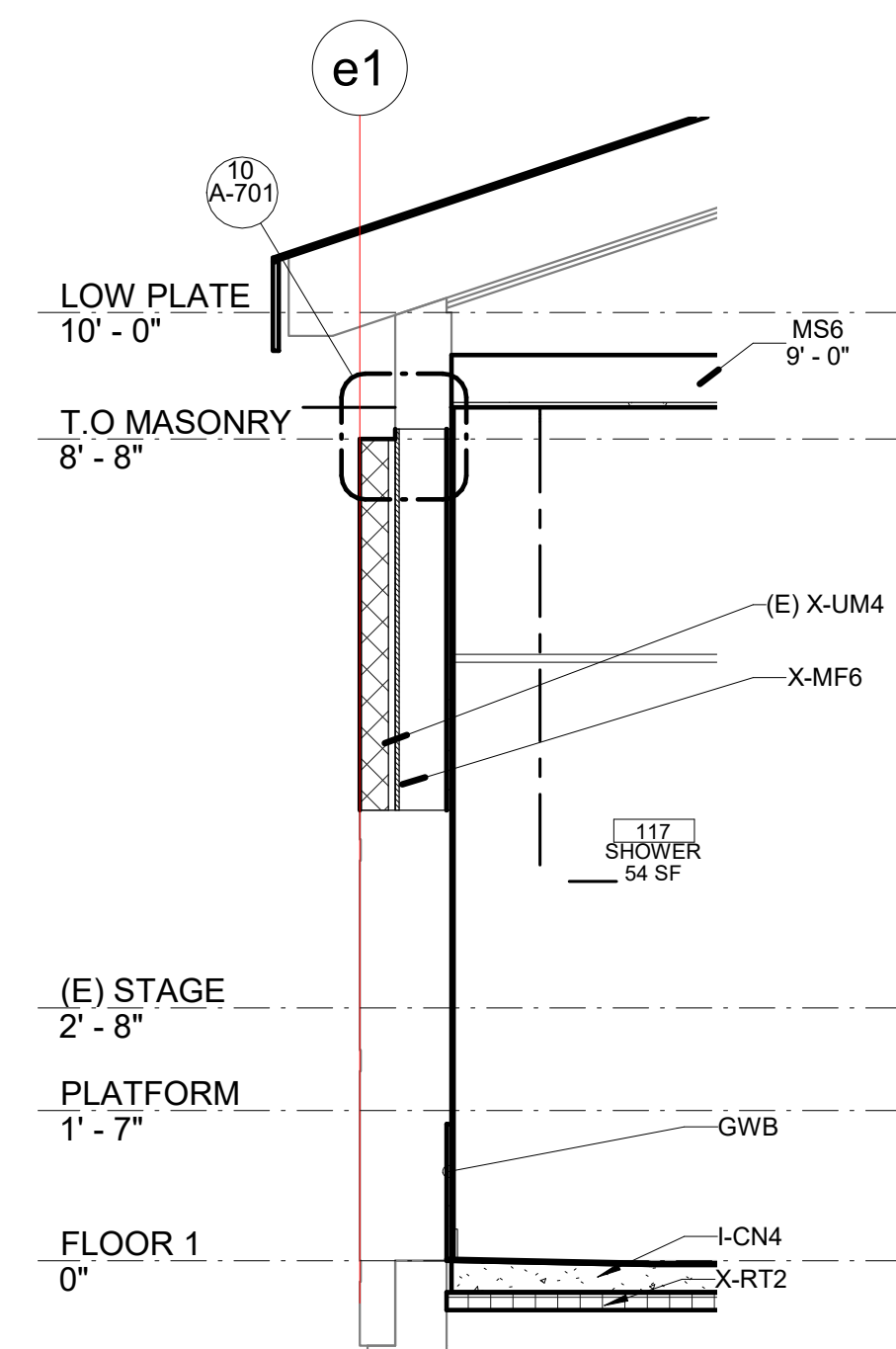
3 GRID e6 AT SEAT ALCOVE
A-401 1/2" = 1'-0"



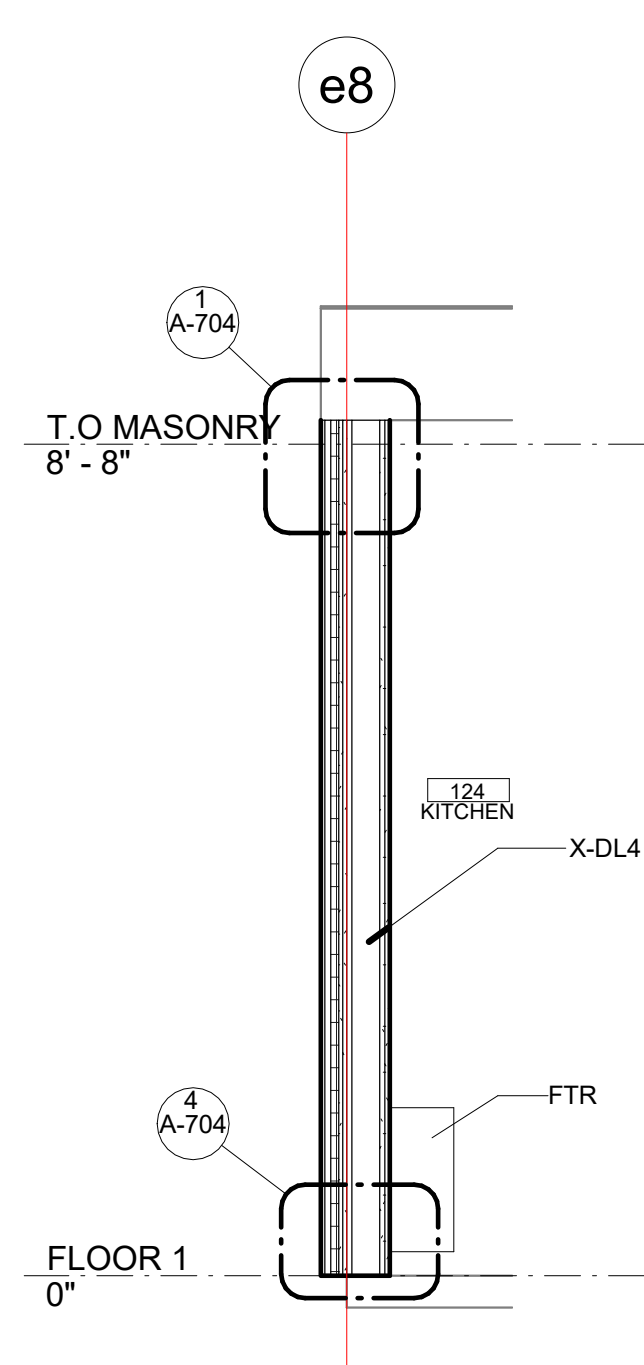
2 GRID e6 AT REFEREE DESK
A-401 1/2" = 1'-0"



1 GRID 1 AT RAMP
A-210 1/2" = 1'-0"



7 SHOWER AT GRID e1
A-210 1/2" = 1'-0"



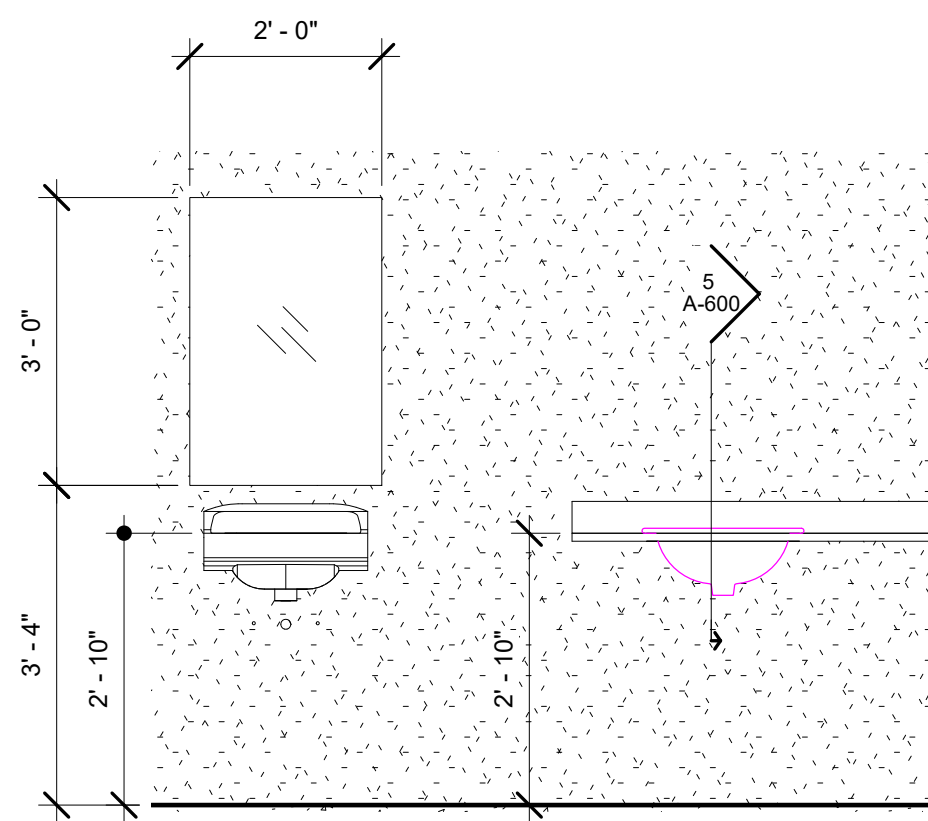
6 GRID e8 AT FIRE WALL
A-210 1/2" = 1'-0"

RSU 18

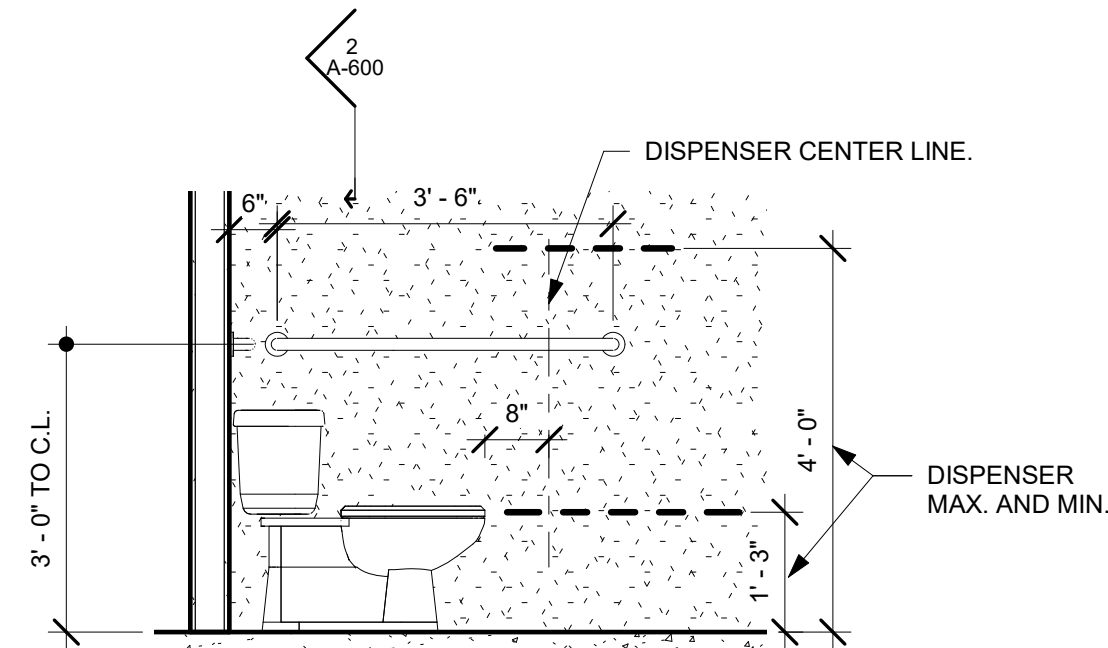
CHINA MIDDLE SCHOOL ADDITION

WALL SECTIONS

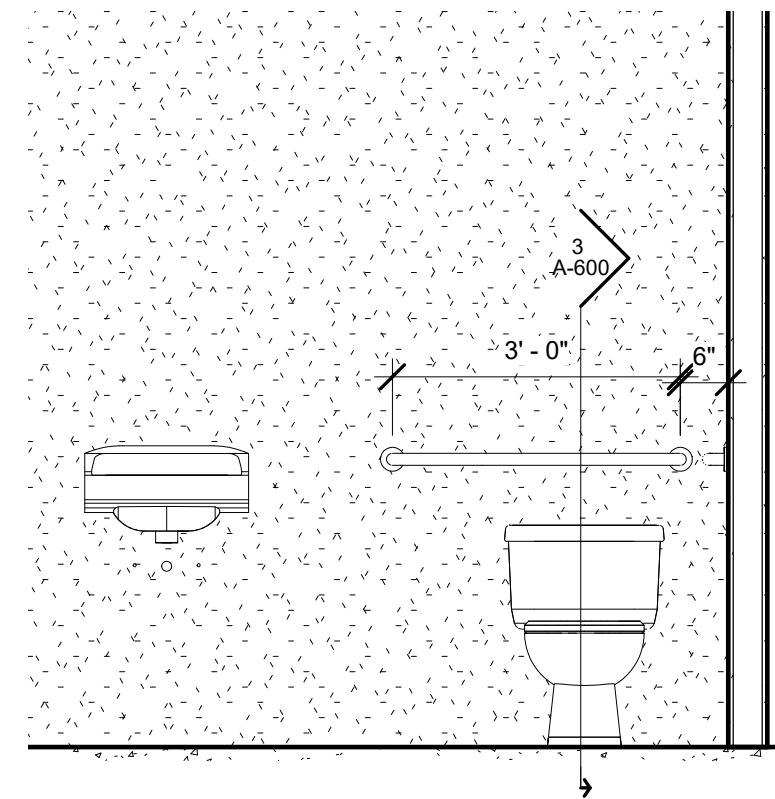
A-502



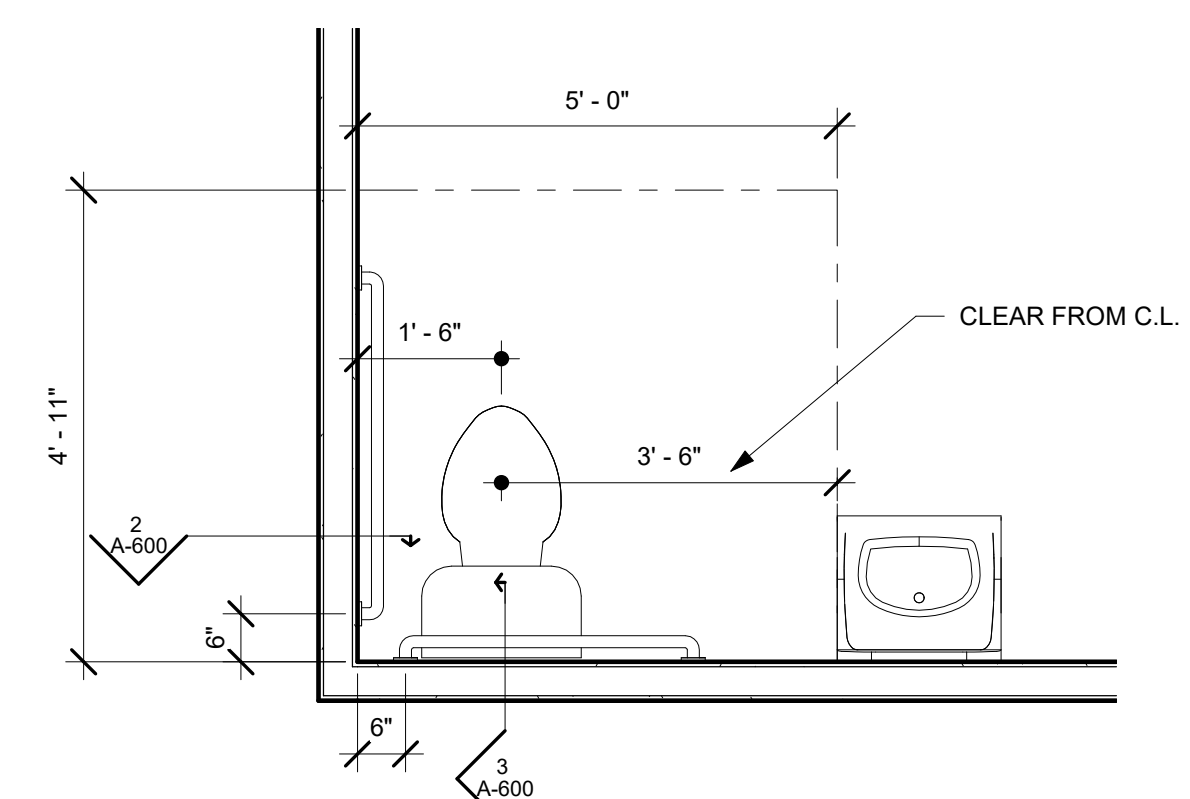
4 LAVATORY HEIGHTS
A-600 1/2" = 1'-0"



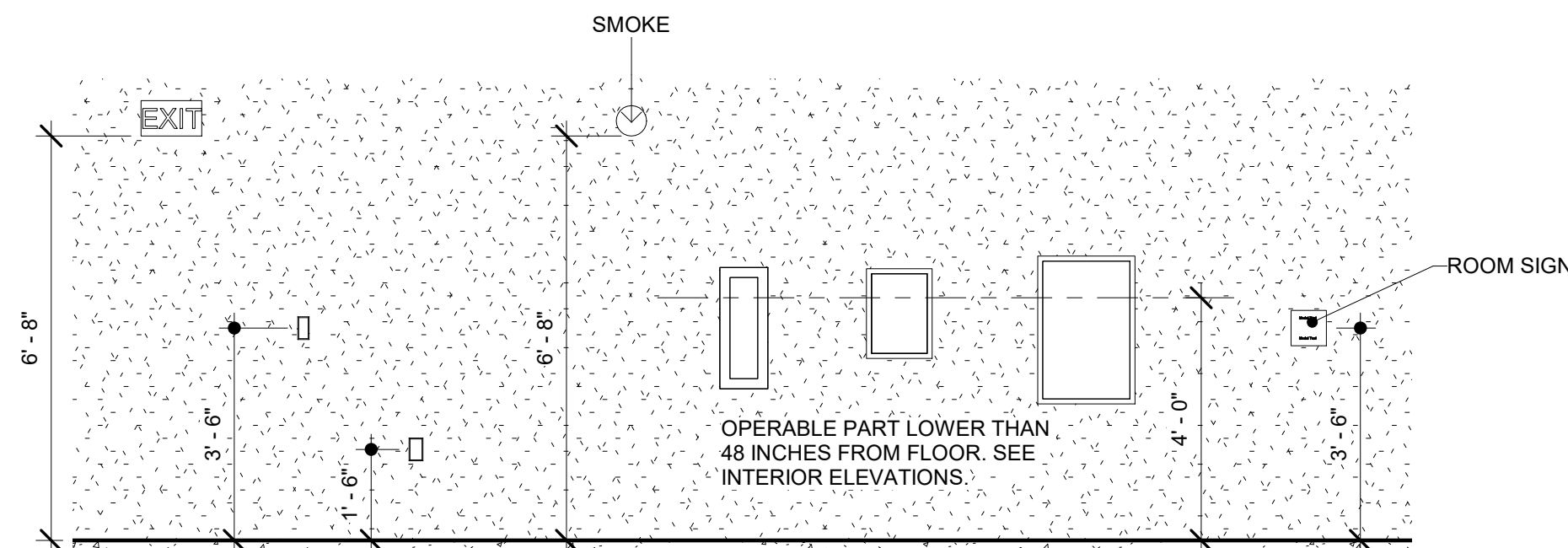
3 ACCESSIBLE STALL SIDE WALL
A-600 1/2" = 1'-0"



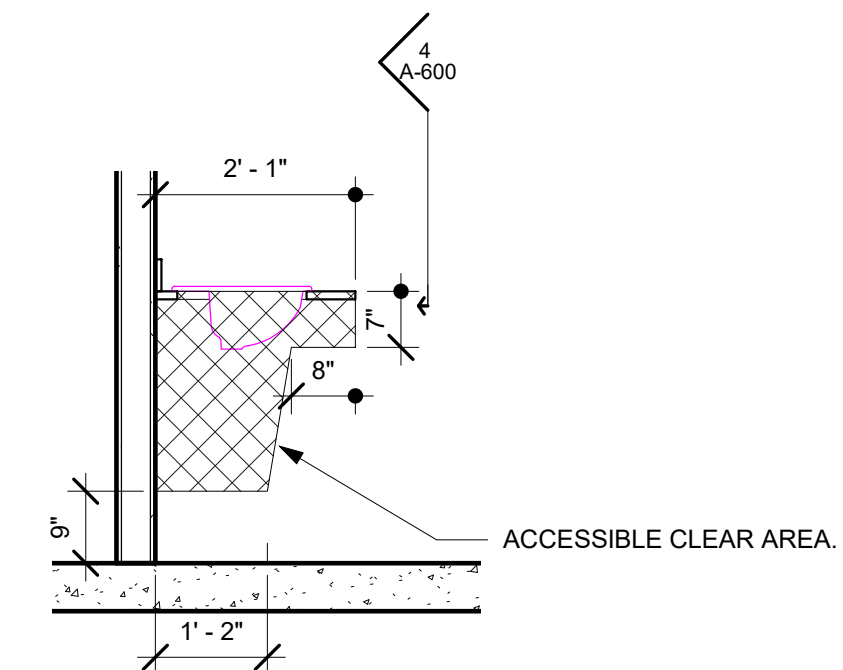
2 ACCESSIBLE STALL BACK WALL
A-600 1/2" = 1'-0"



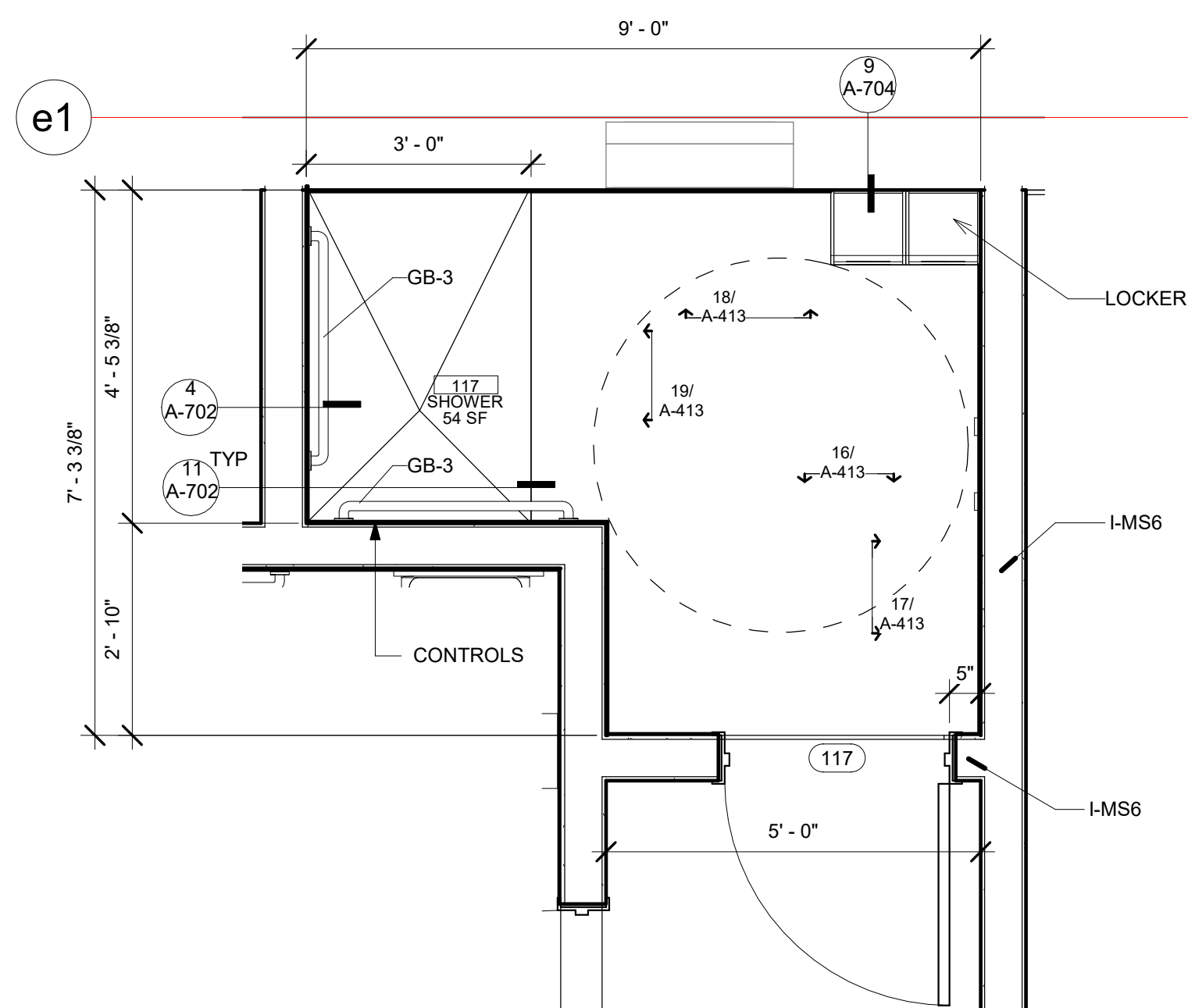
1 TYPICAL BATHROOM STALLS
1/2" = 1'-0"



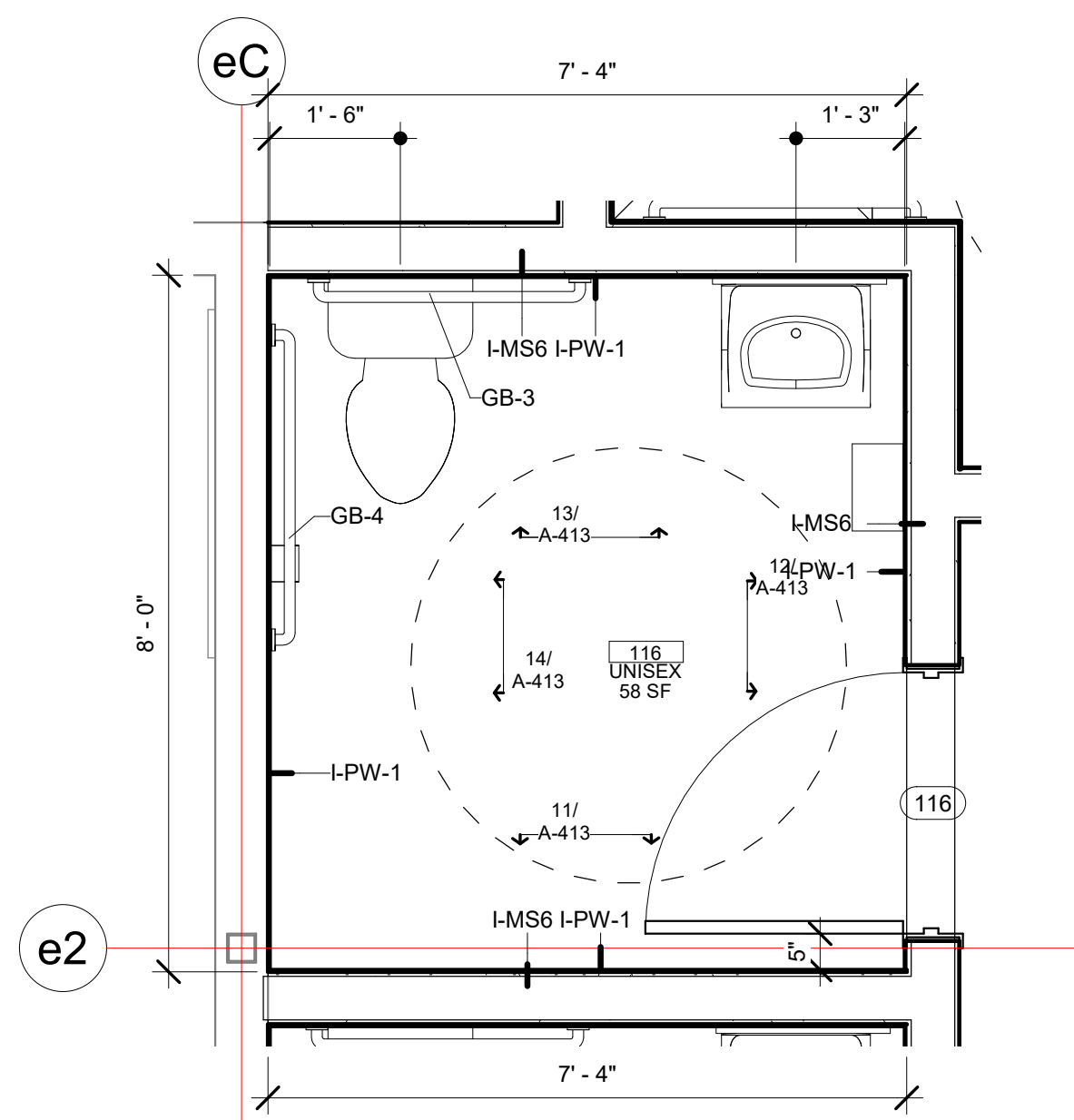
6 FF&E MOUNTING HEIGHTS
3/8" = 1'-0"



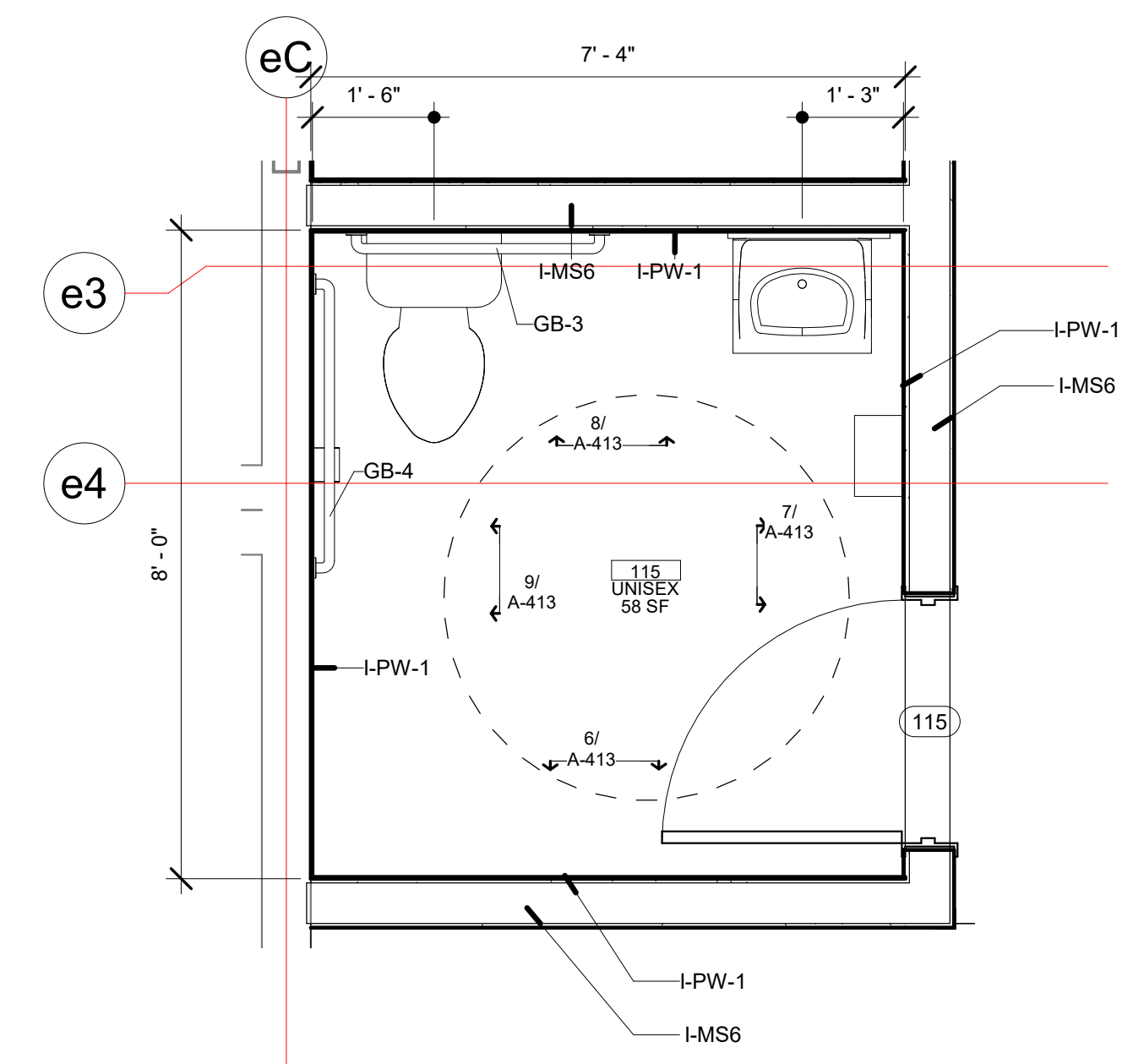
5 CLEAR AREA AT SKIRT PANEL
A-600 1/2" = 1'-0"



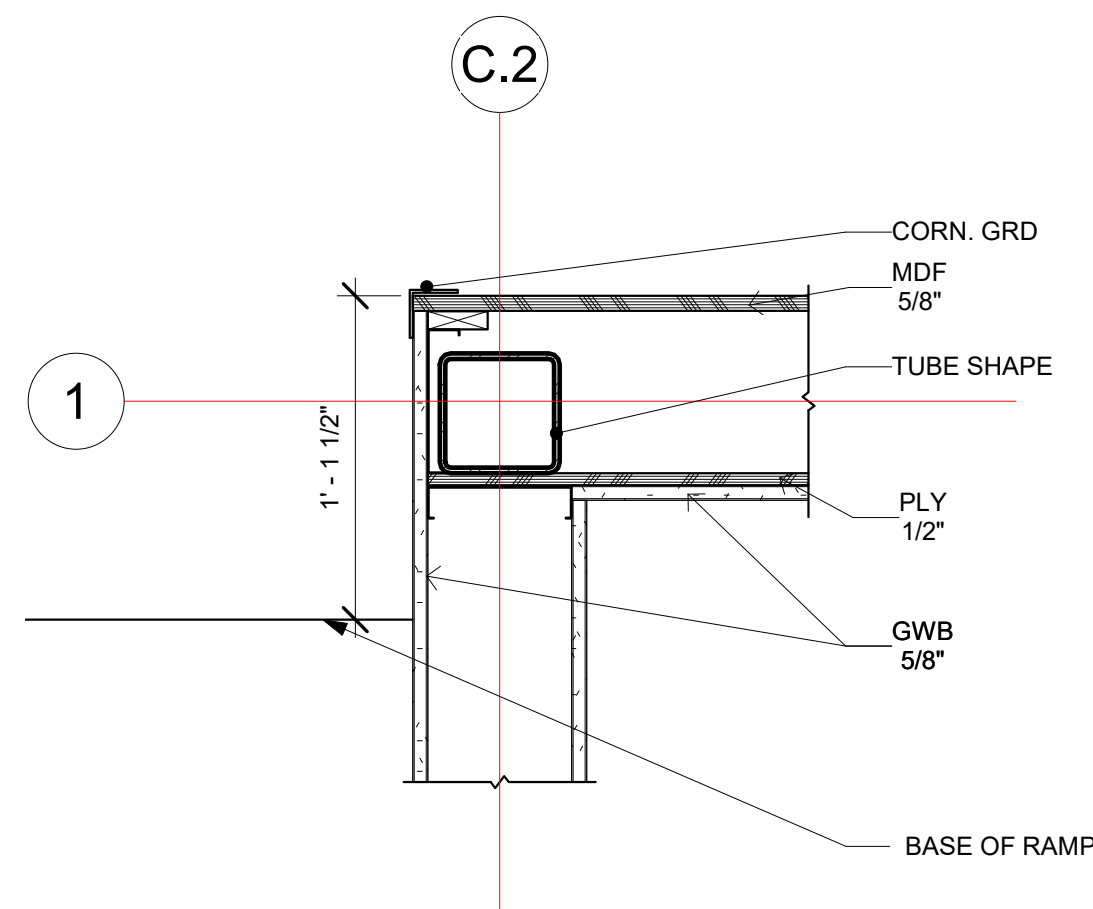
9 117 SHOWER
A-211 1/2" = 1'-0"



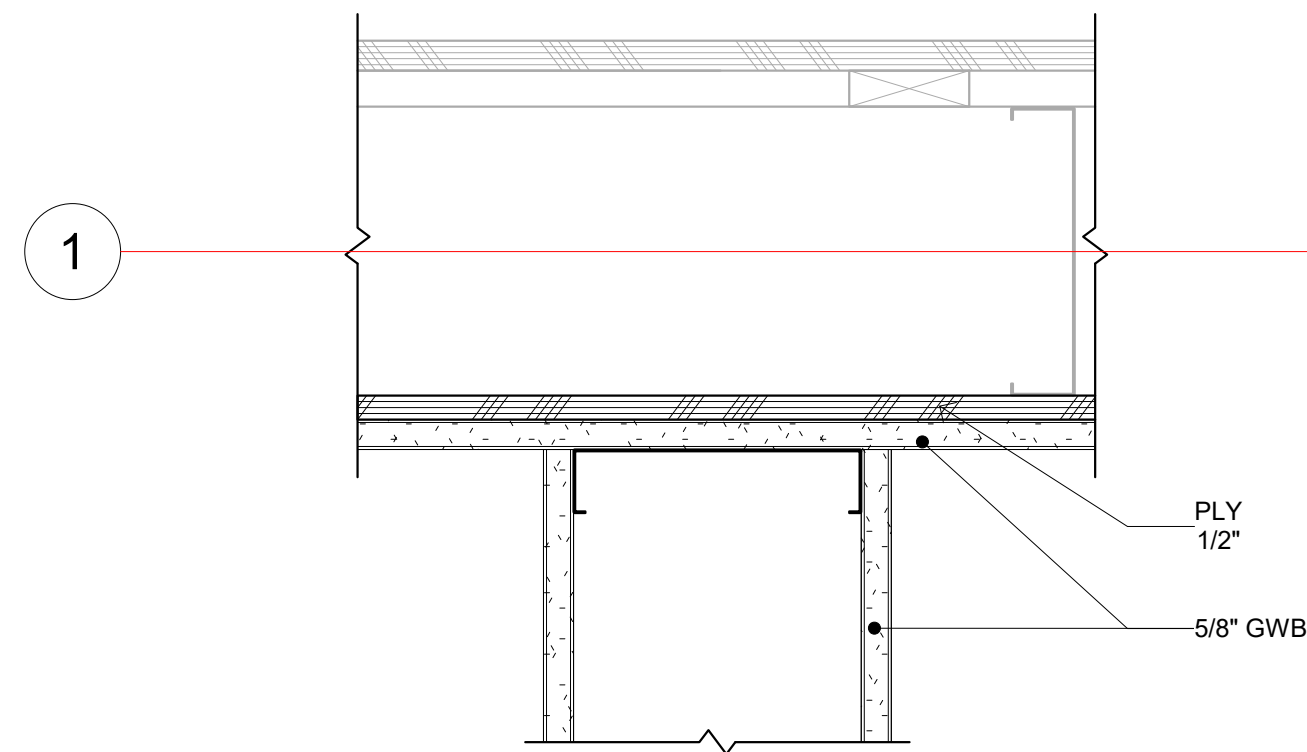
8 116 UNISEX BATHROOM
A-211 1/2" = 1'-0"



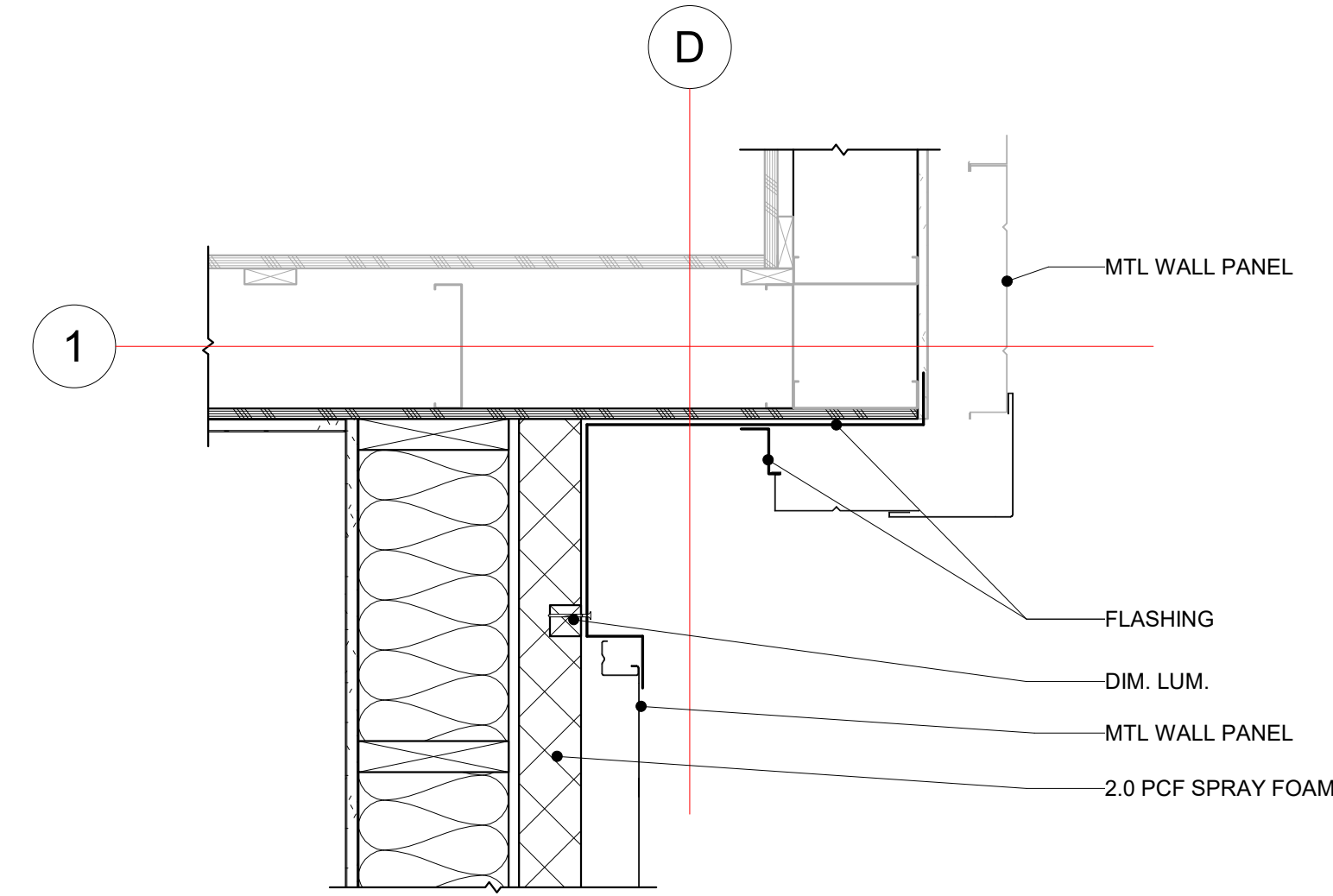
7 115 UNISEX BATHROOM
A-211 1/2" = 1'-0"



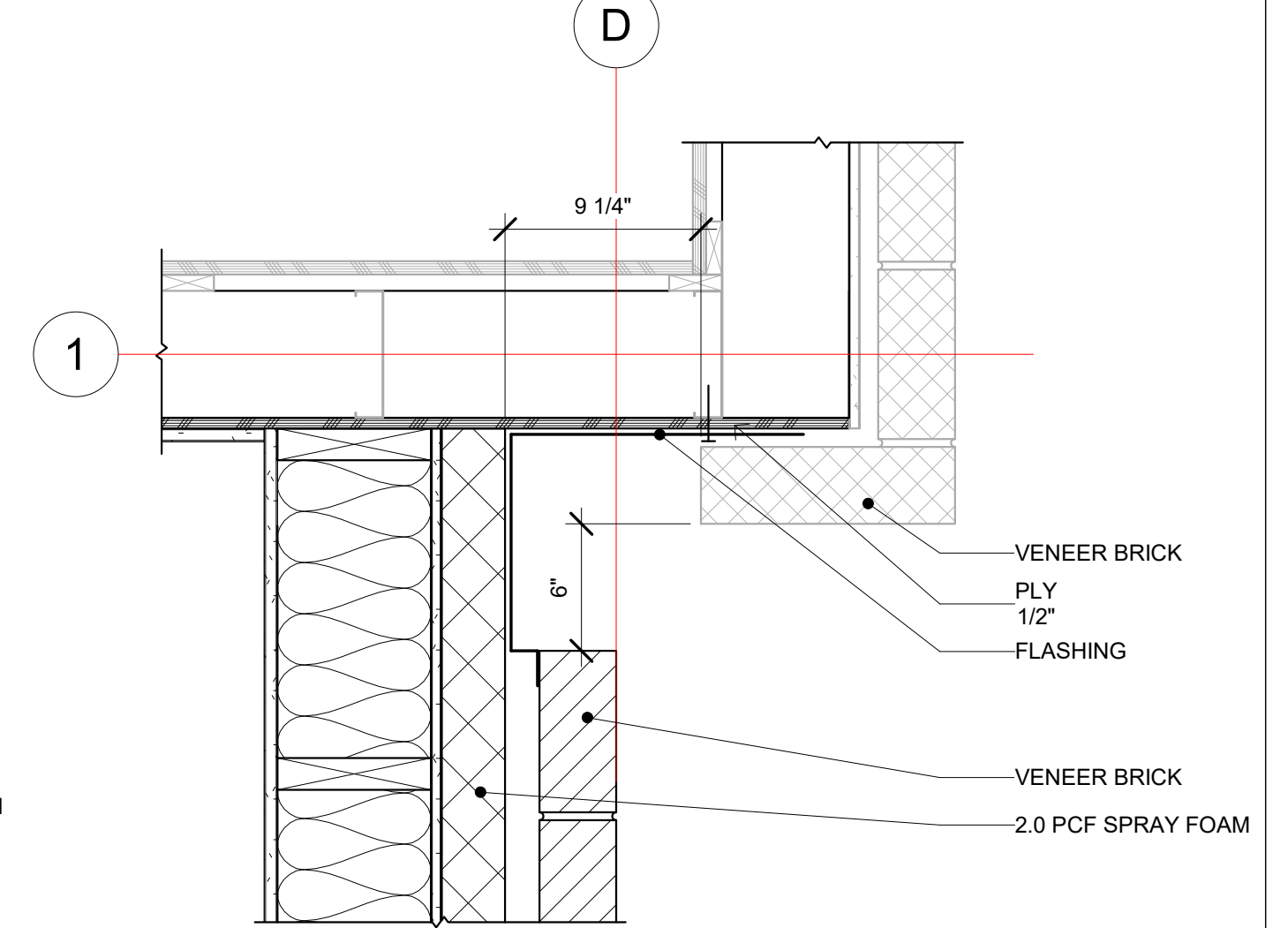
4 PARTITION AT BASE OF RAMP
A-211 1 1/2" = 1'-0"



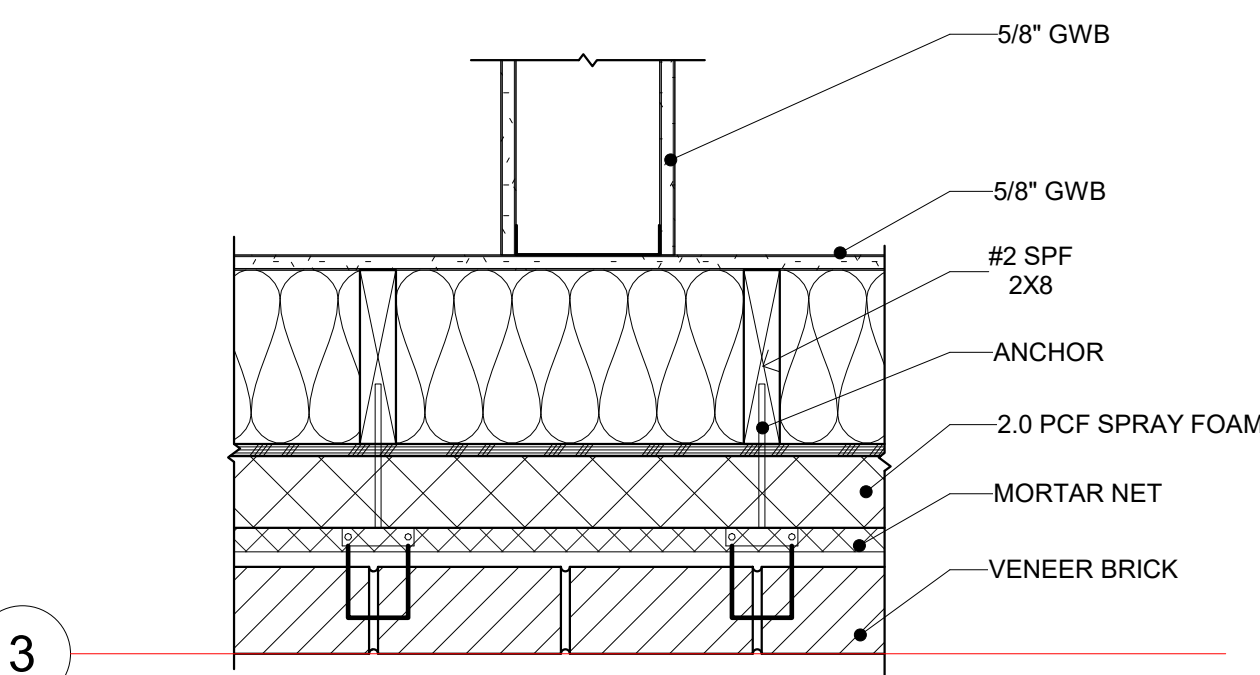
3 PARTITION AT (E) WALL
A-211 3" = 1'-0"



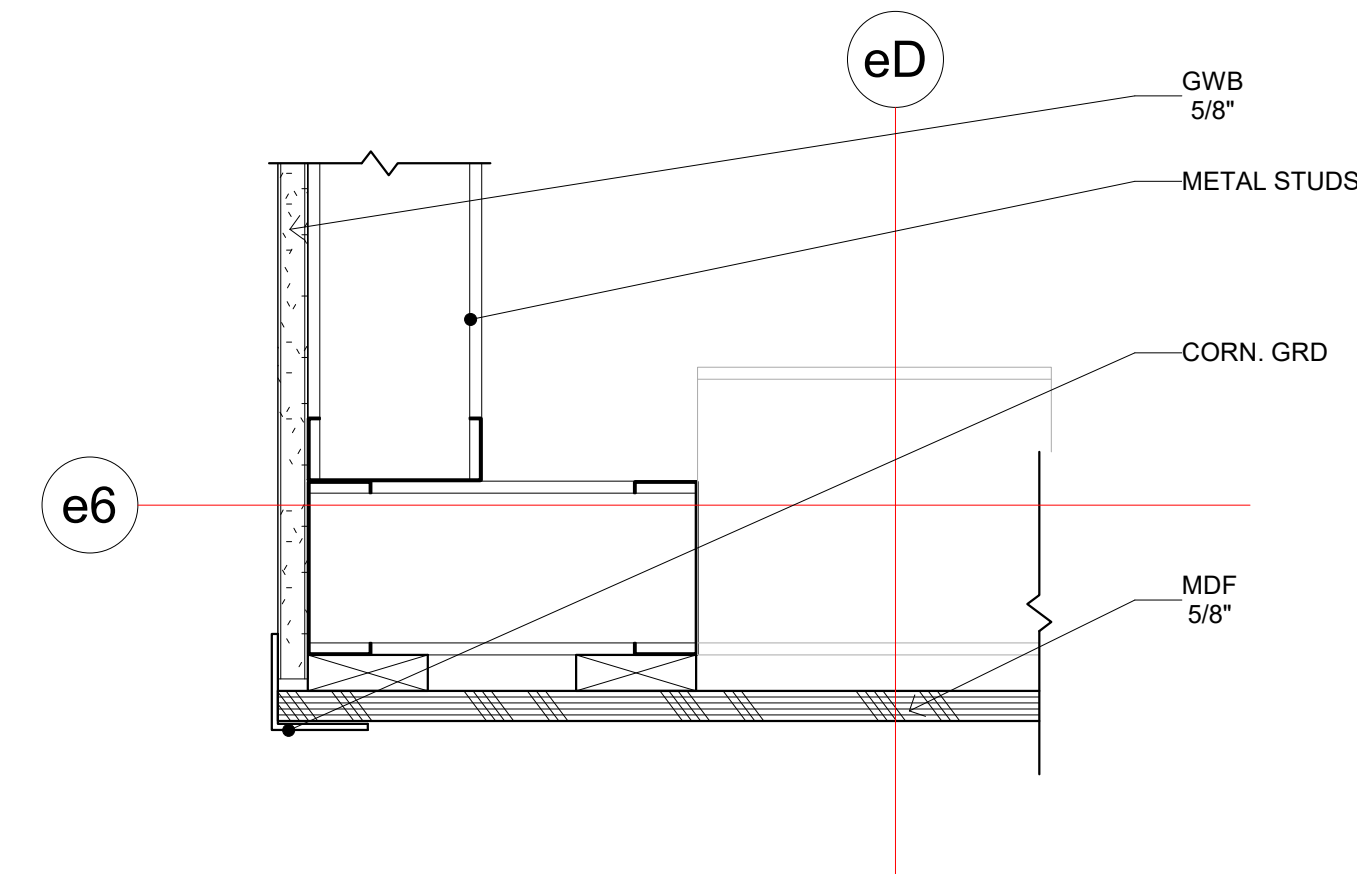
2 METAL PANEL AT GRID D-1
A-400 1 1/2" = 1'-0"



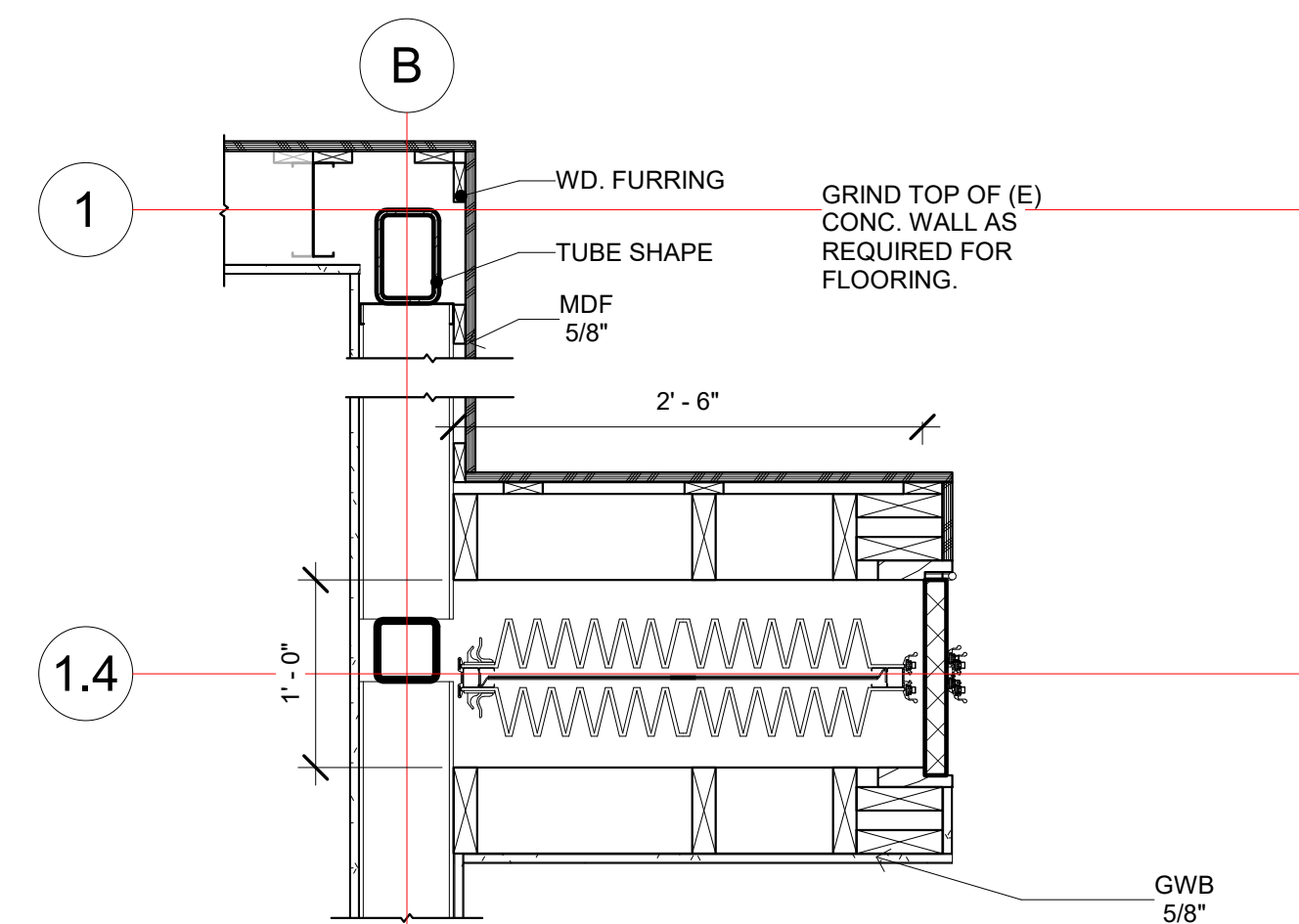
1 BRICK AT GRID 1-D
A-211 1 1/2" = 1'-0"



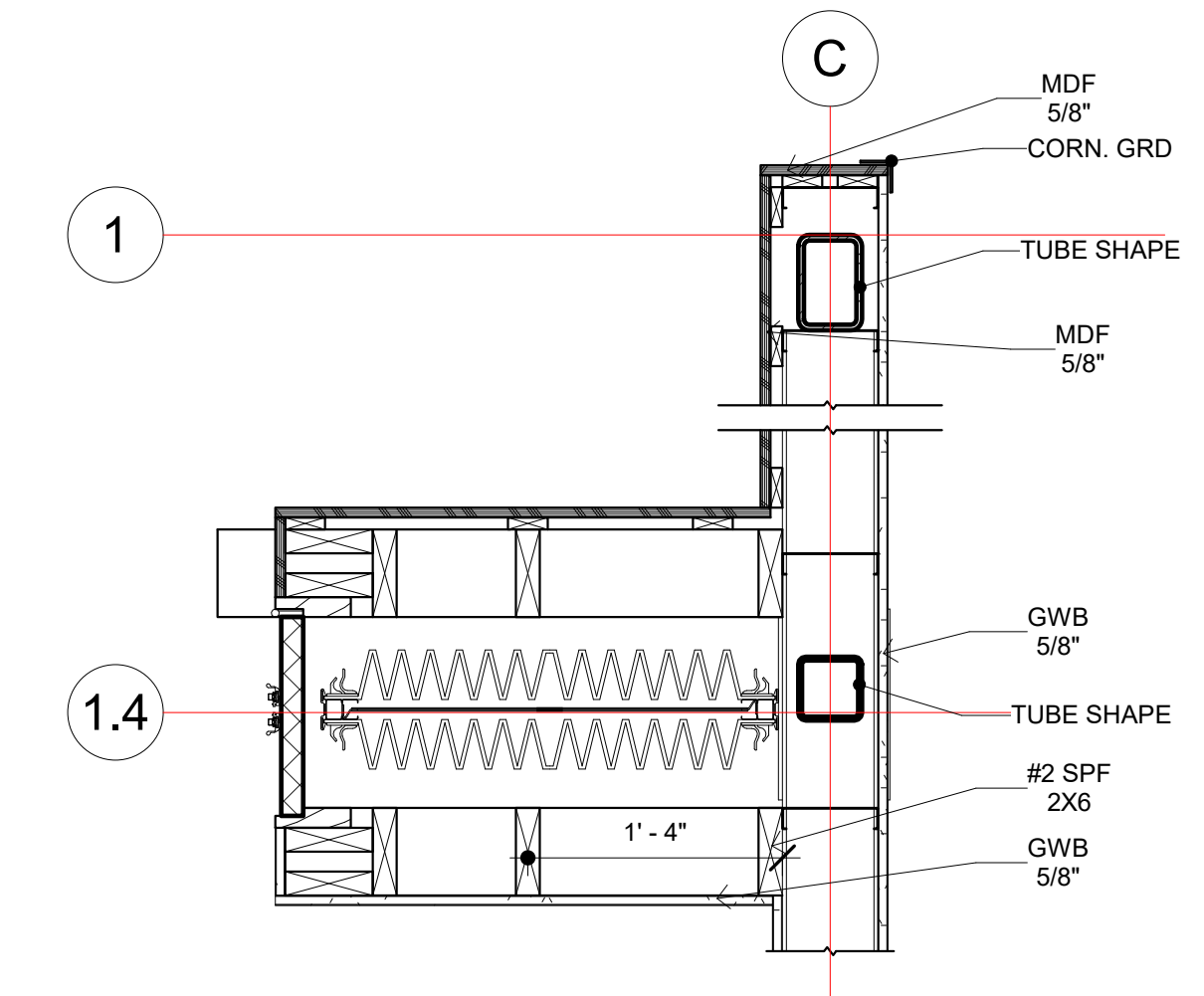
8 PARTITION AT EXTERIOR WALL
A-211 1 1/2" = 1'-0"



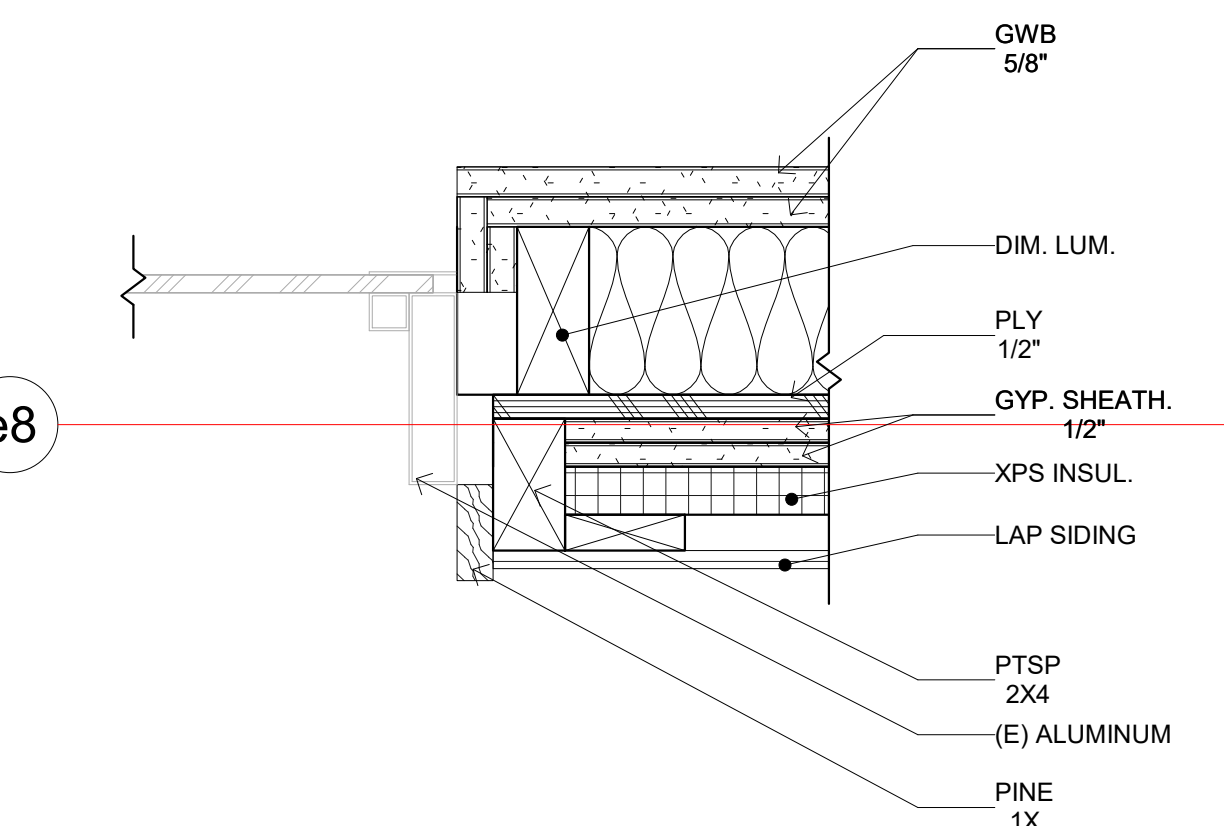
7 (E) PROSCENIUM AT eD
A-211 3" = 1'-0"



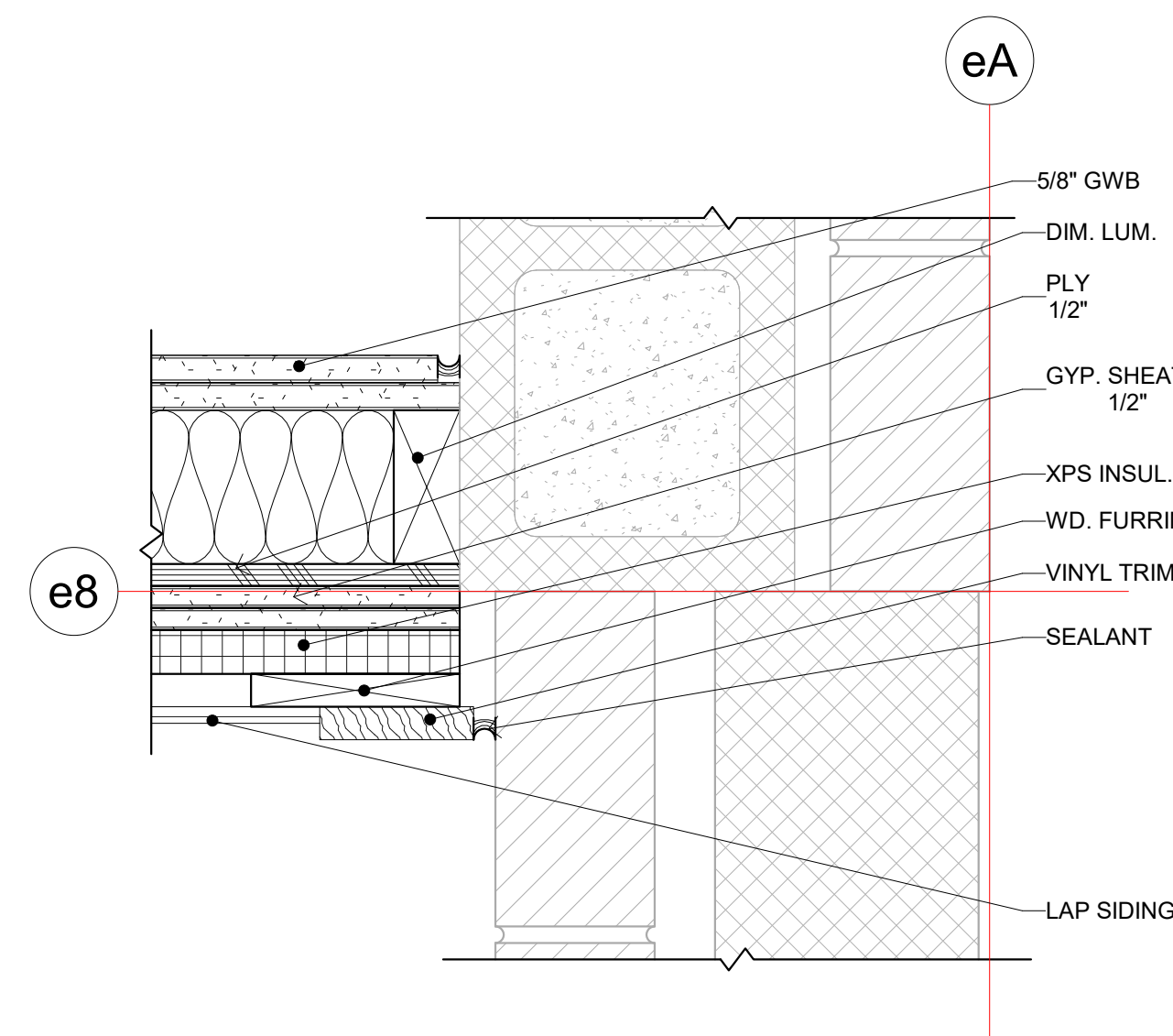
6 ACCORDION NORTH POCKET
A-211 1" = 1'-0"



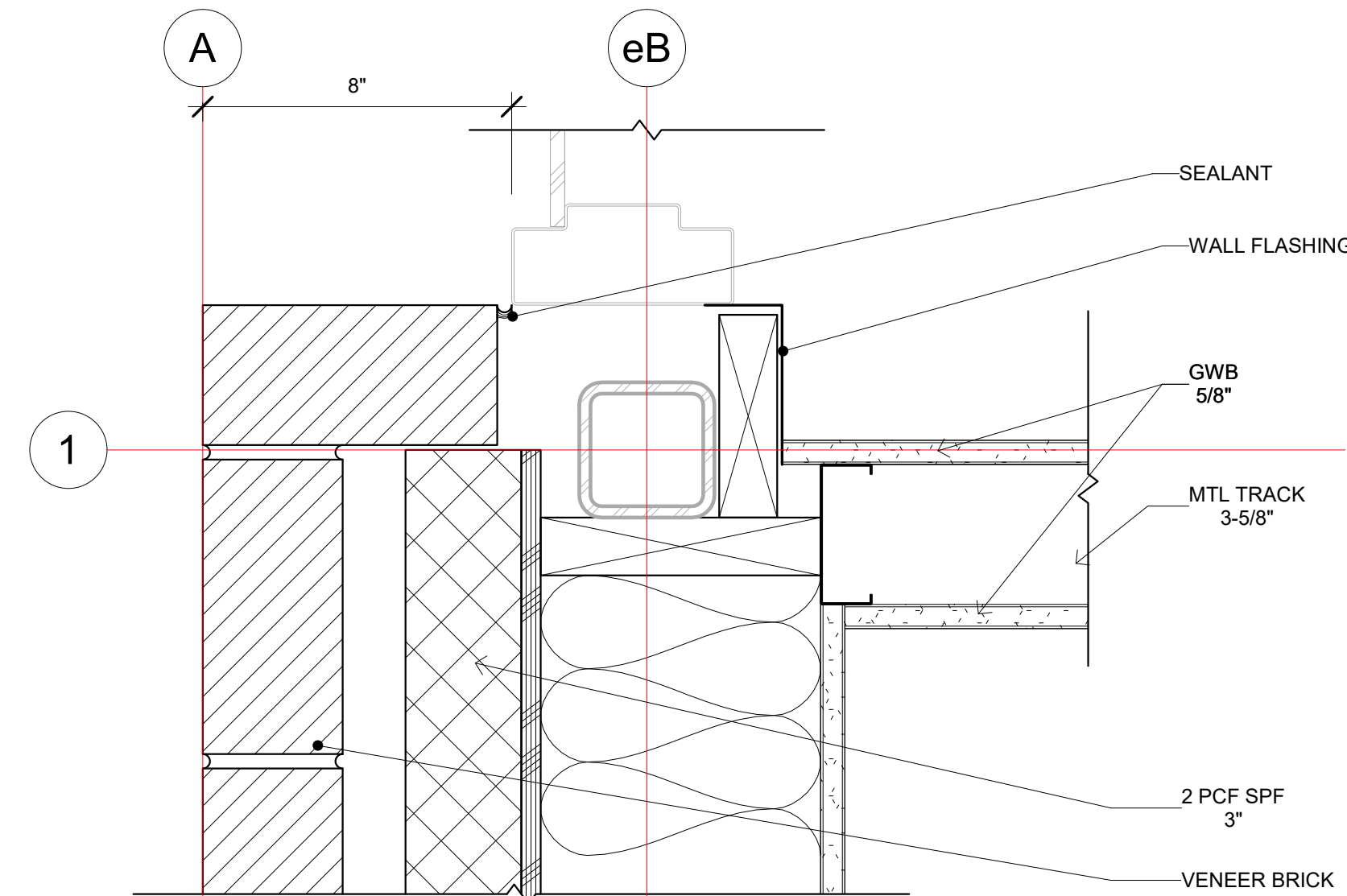
5 ACCORDION SOUTH POCKET
A-211 1" = 1'-0"



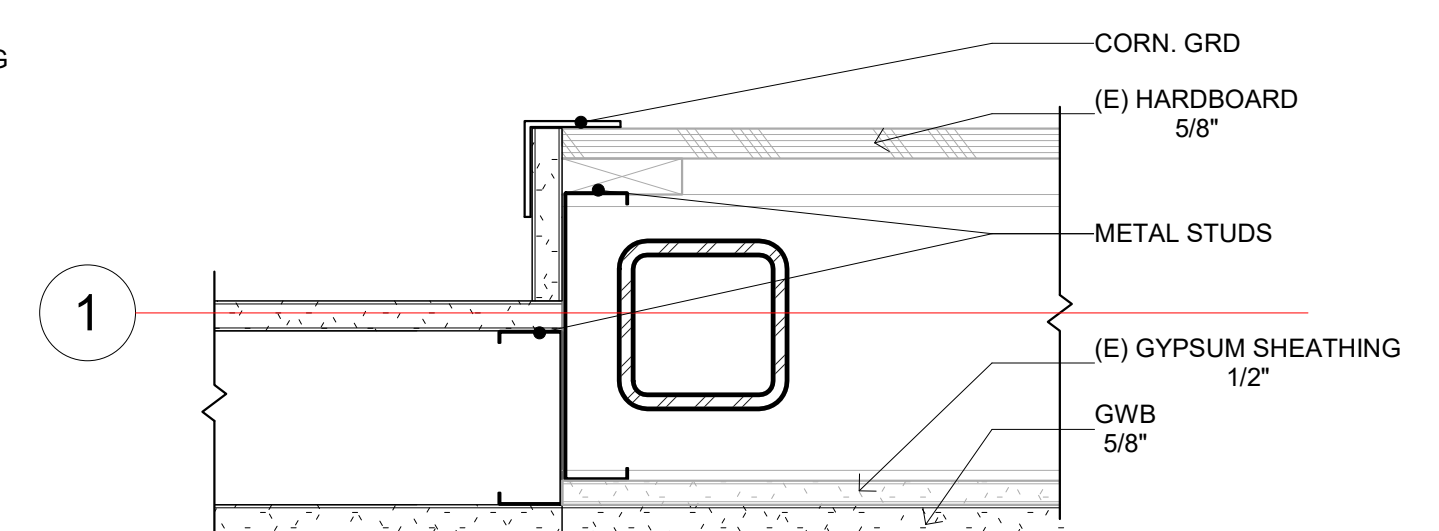
12 KITCHEN WALL AT (E) CURTAIN
A-210 3" = 1'-0"



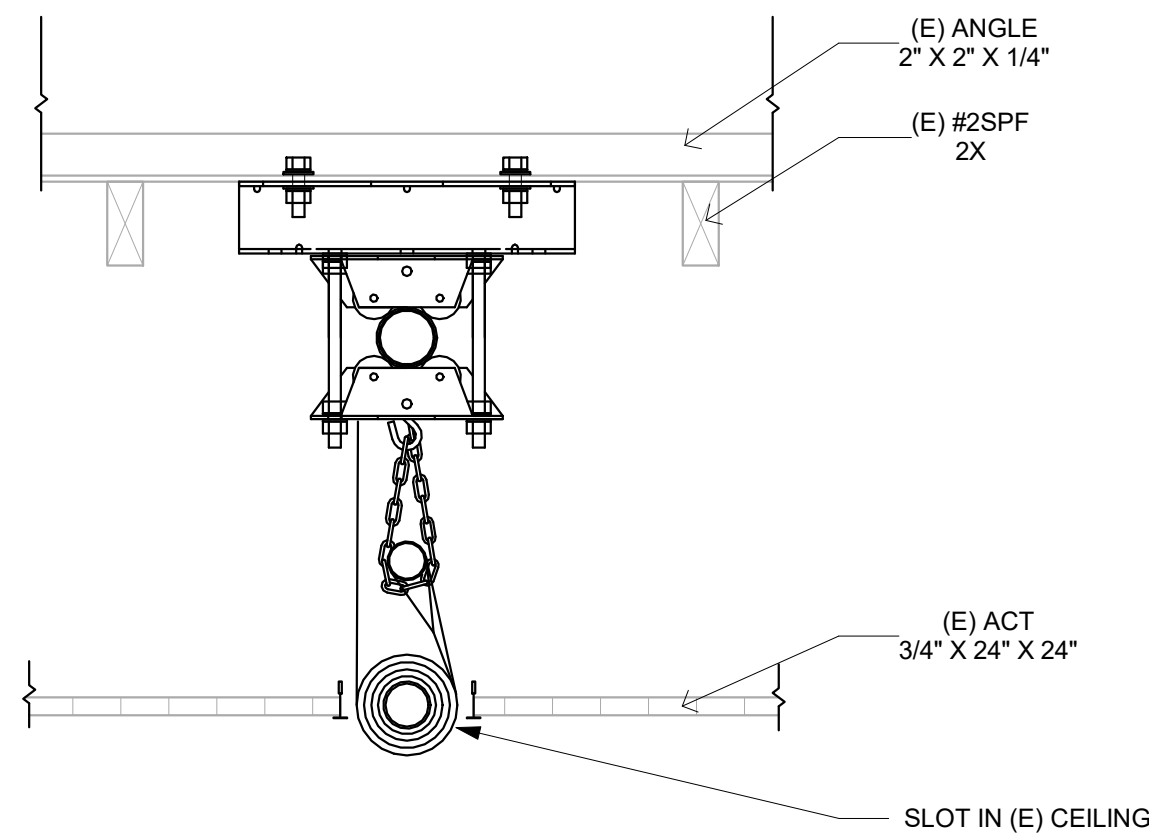
11 KITCHEN WALL AT CMU
A-210 3" = 1'-0"



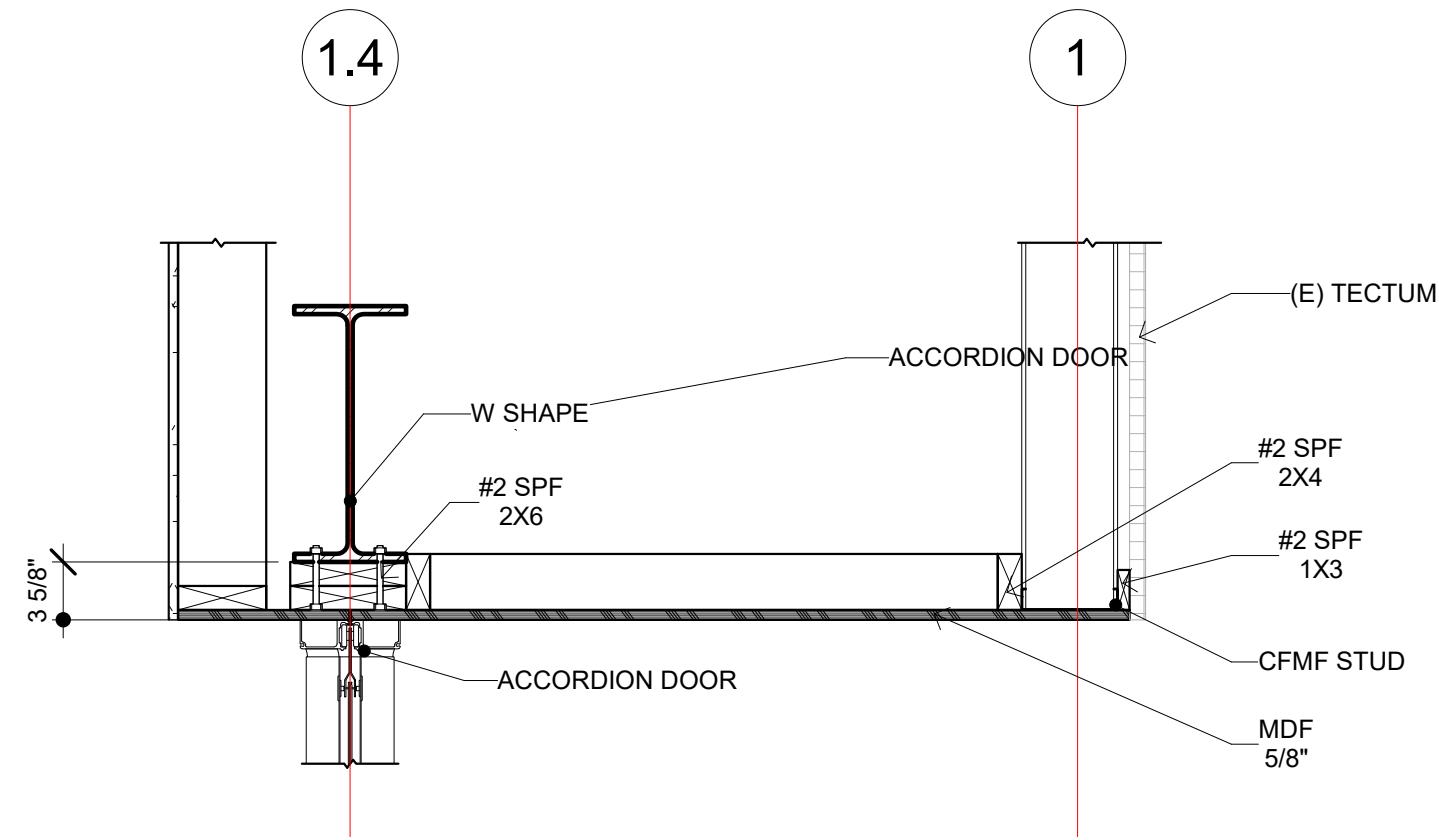
10 EXTERIOR WALL AT GRID A-1
A-211 3" = 1'-0"



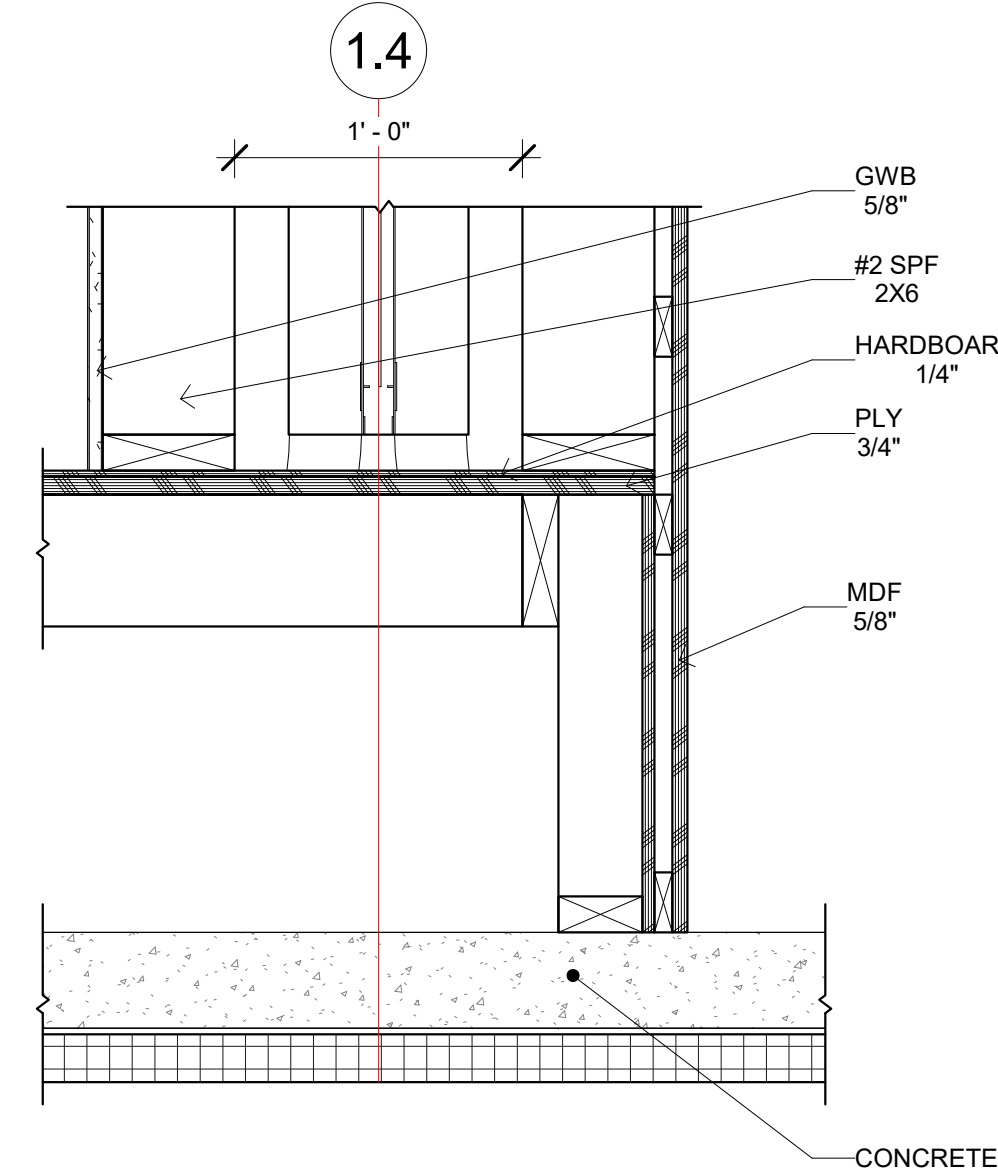
9 TABLE ROOM INFILL WALL
A-211 3" = 1'-0"



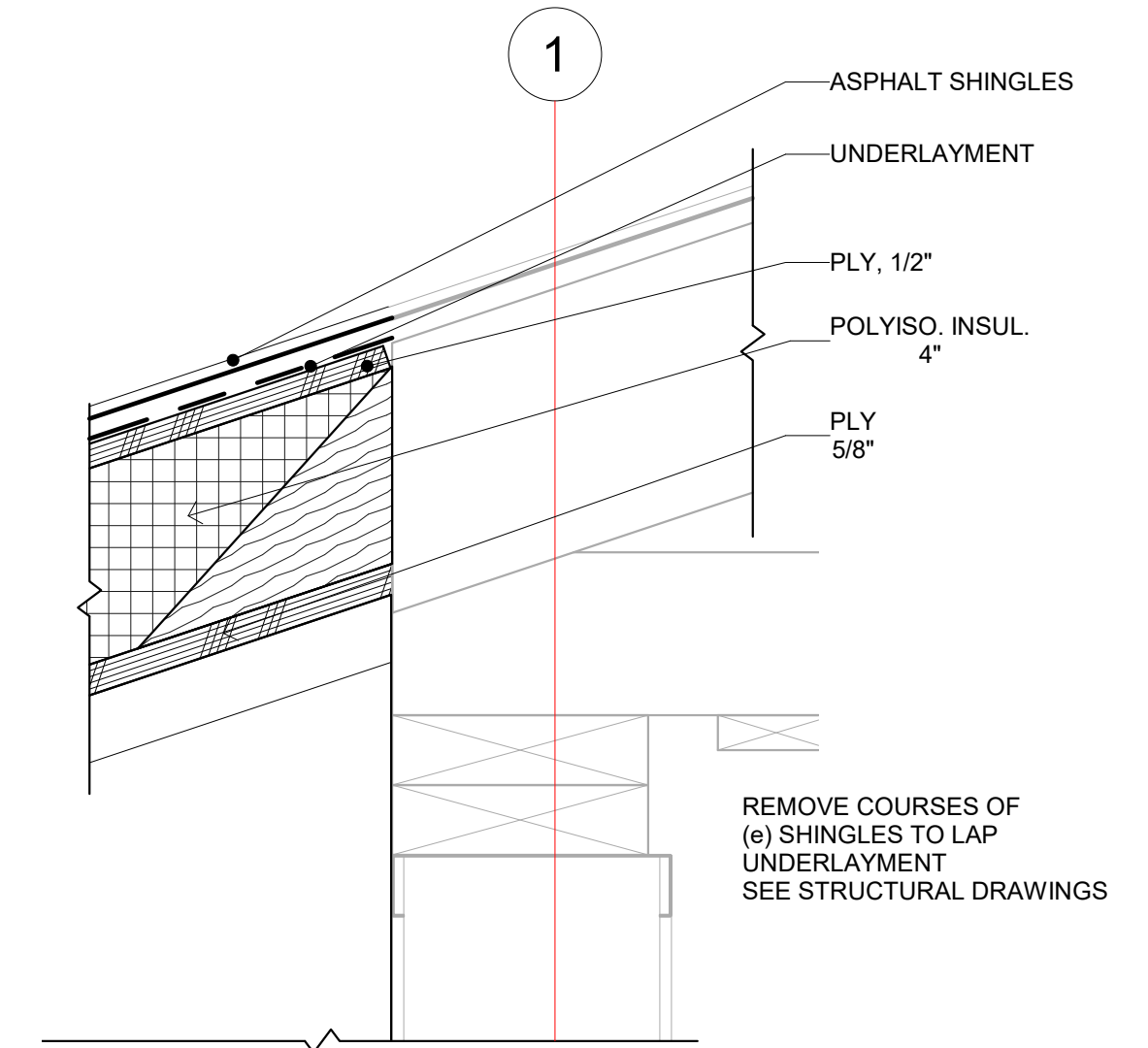
4 GYM CURTAIN AT HEAD
1 1/2" = 1'-0"



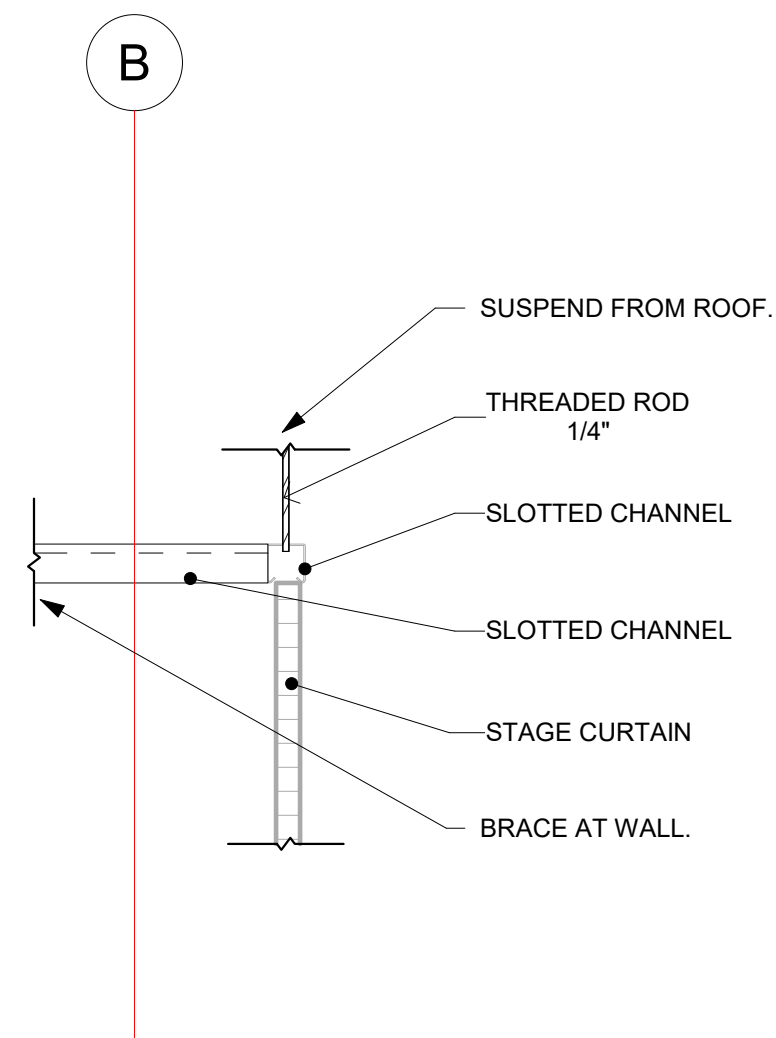
3 ACCORDION HEAD AT OPENING
A-300 1" = 1'-0"



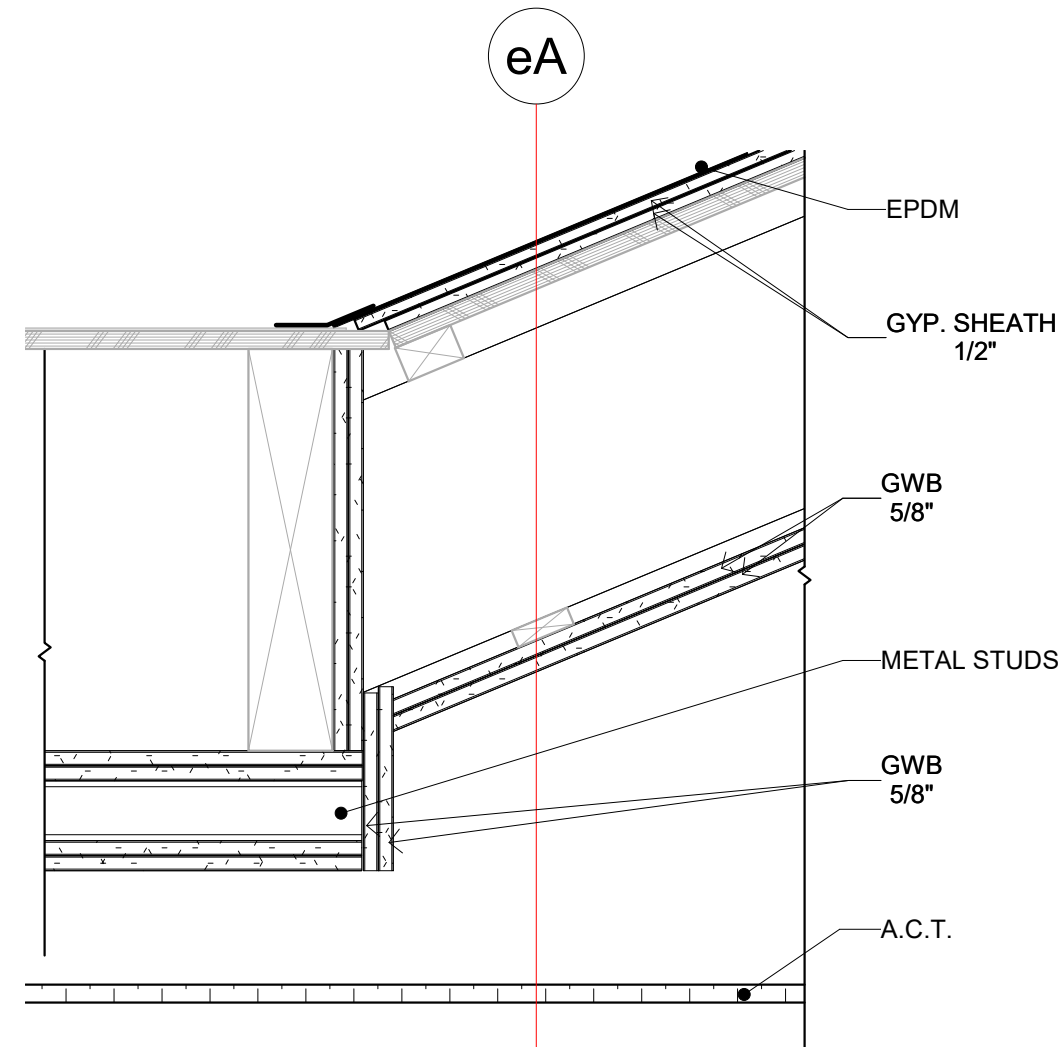
2 PLATFORM AT POCKET
A-502 1 1/2" = 1'-0"



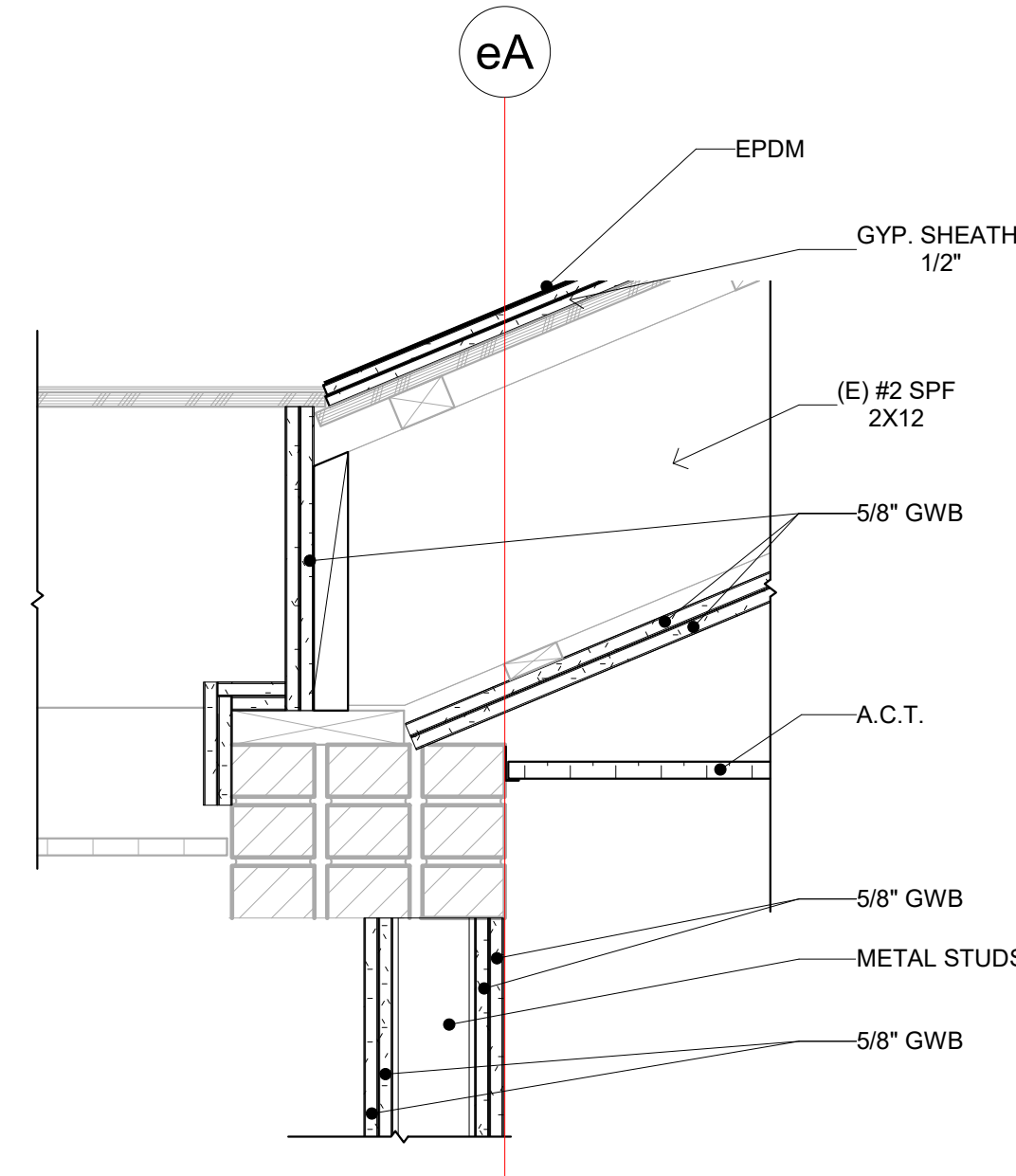
1 ROOFS AT GRID 1
A-501 3" = 1'-0"



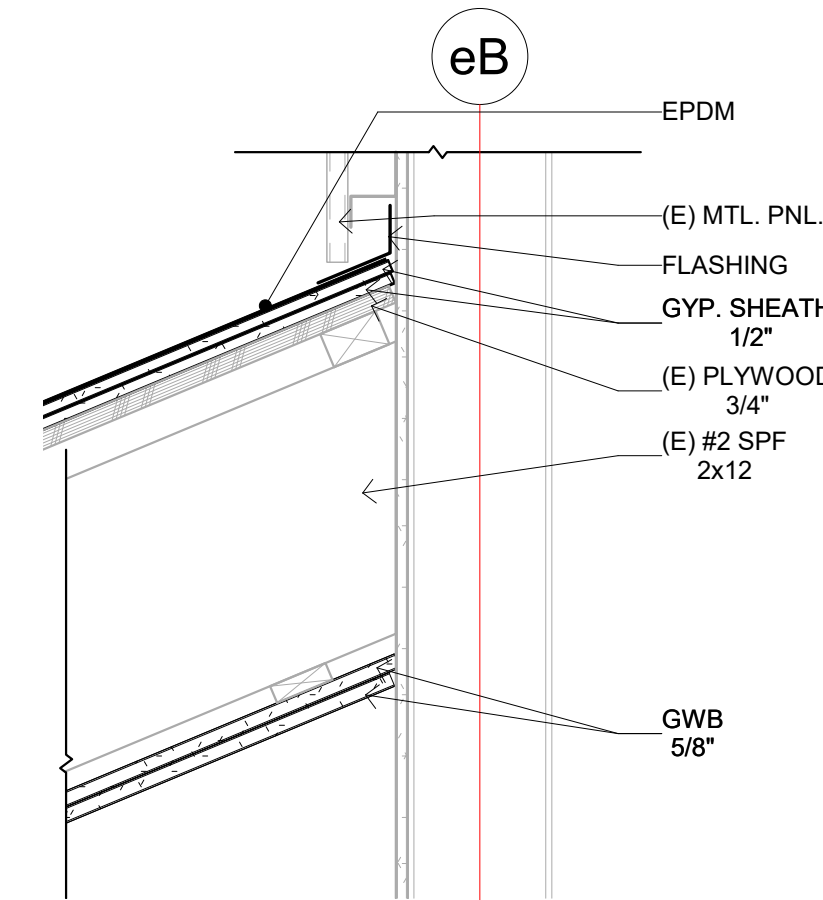
8 SIDE CURTAIN AT GRID B
A-411 1 1/2" = 1'-0"



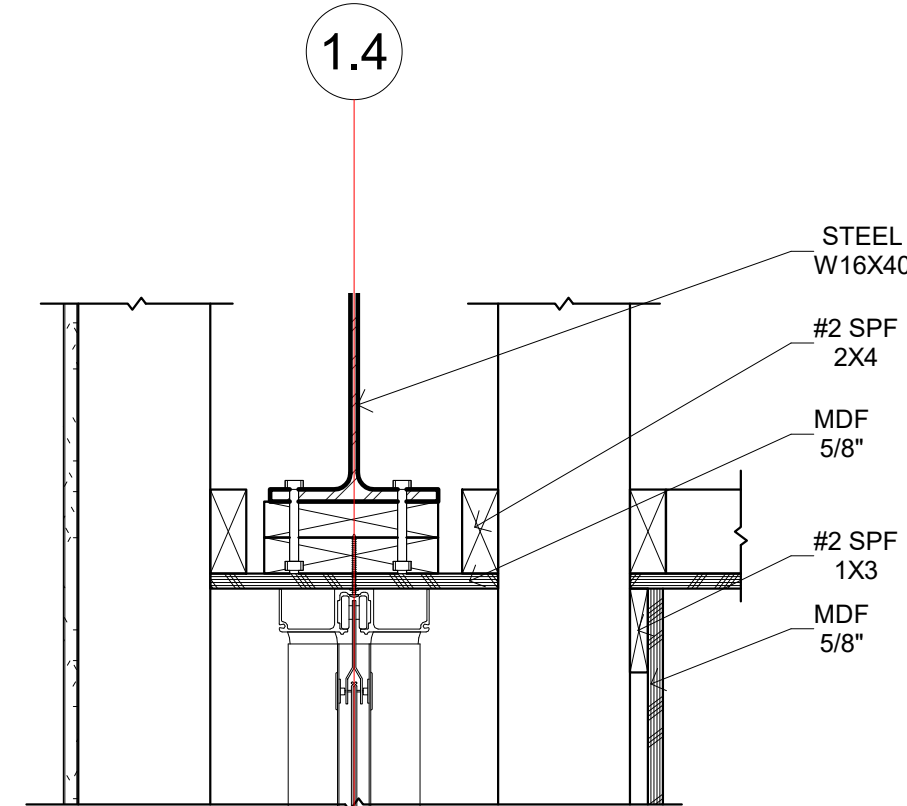
7 RATED CEILING AT GIRDER
A-501 1 1/2" = 1'-0"



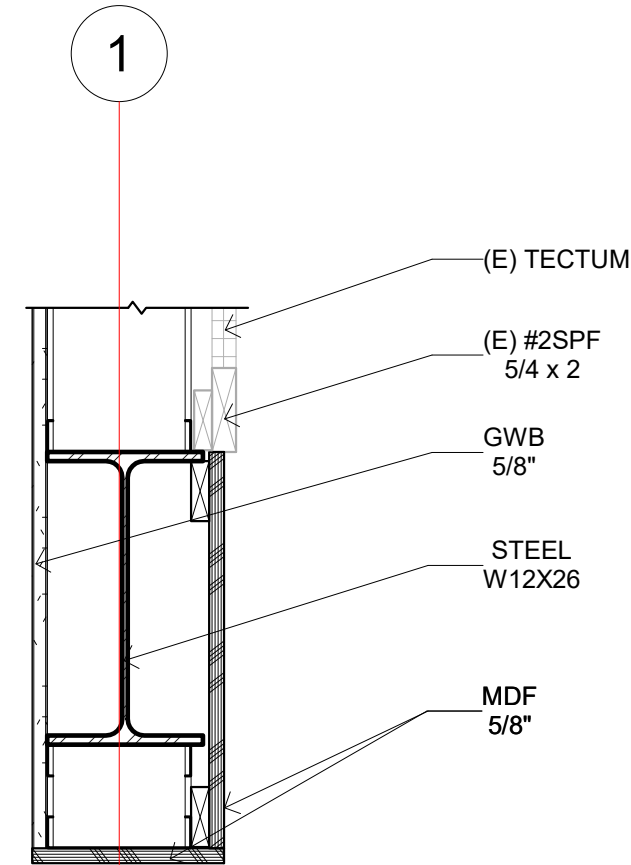
6 RATED CEILING AT FIRE SHUTTER
A-501 1 1/2" = 1'-0"



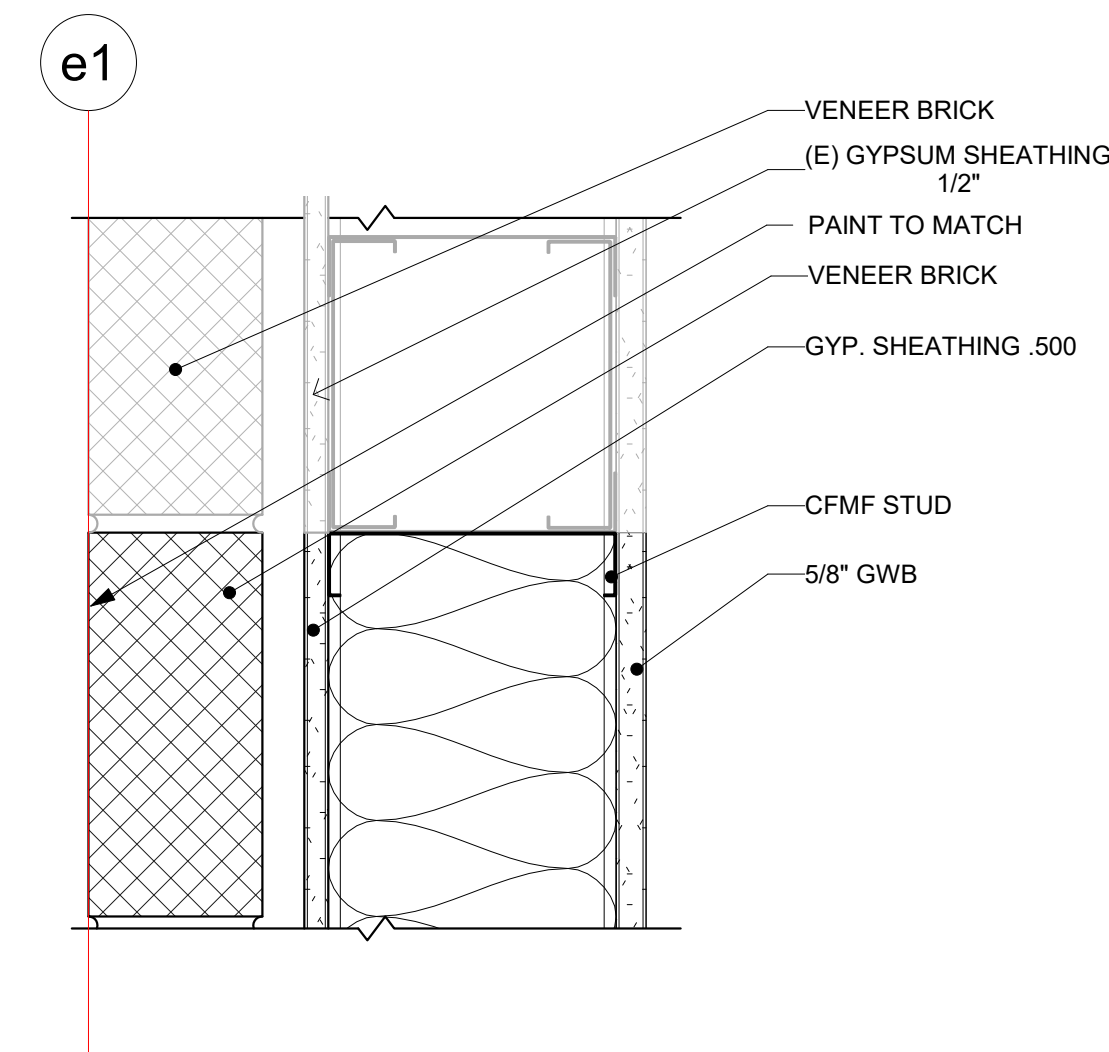
5 RATED CEILING AT HEAD
A-501 1 1/2" = 1'-0"



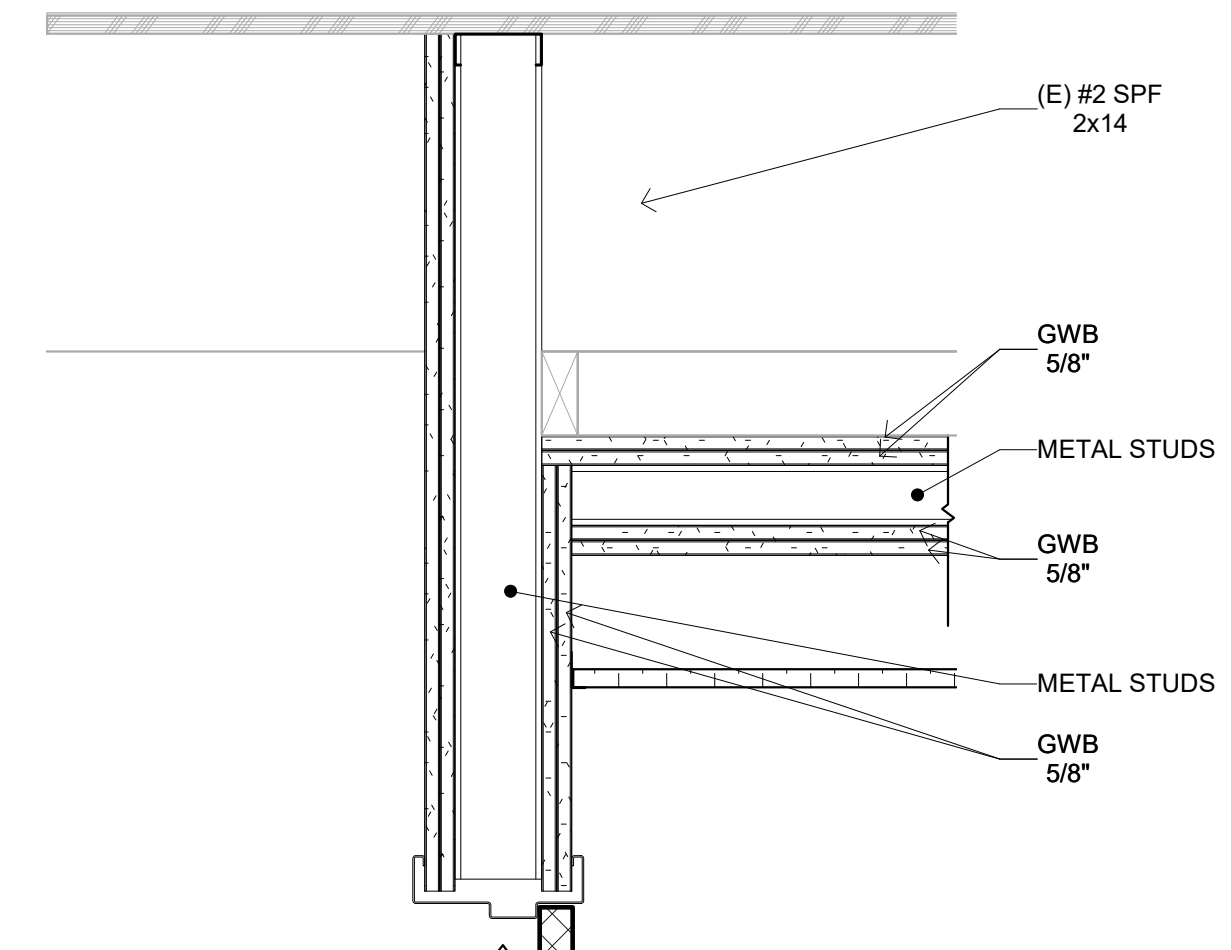
12 ACCORDION HEAD AT POCKET
A-502 1 1/2" = 1'-0"



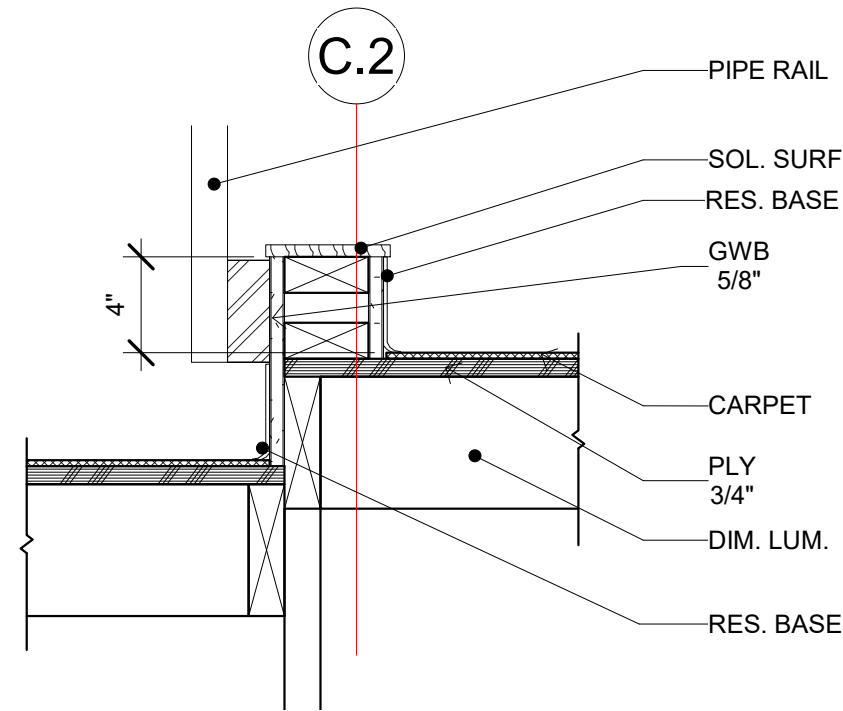
11 RAMP OPENING AT HEAD
A-502 1 1/2" = 1'-0"



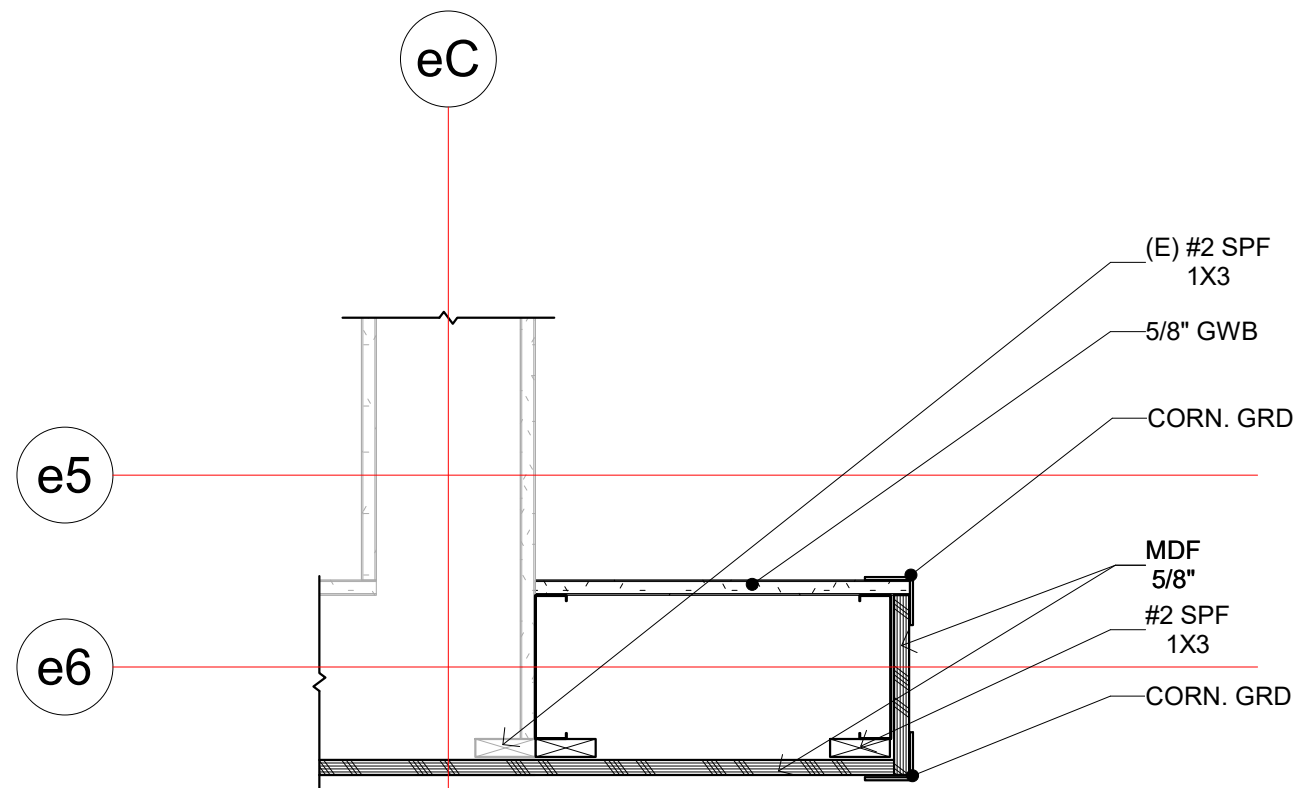
10 INFILLED WINDOW AT GRID e1
A-502 3" = 1'-0"



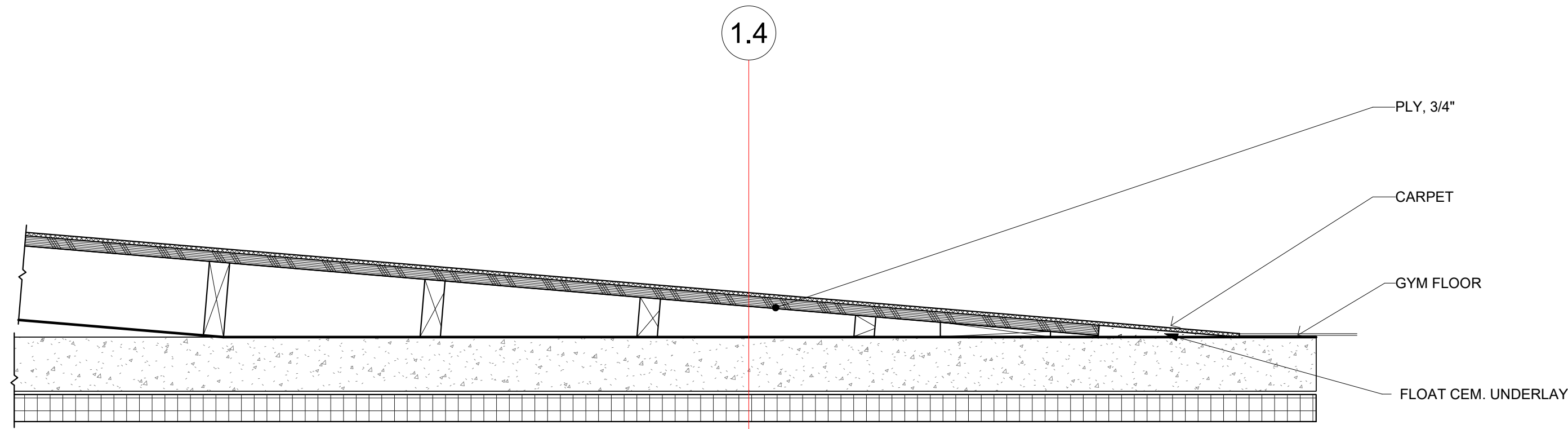
9 RATED CEILING AT DOOR 110
A-501 1 1/2" = 1'-0"



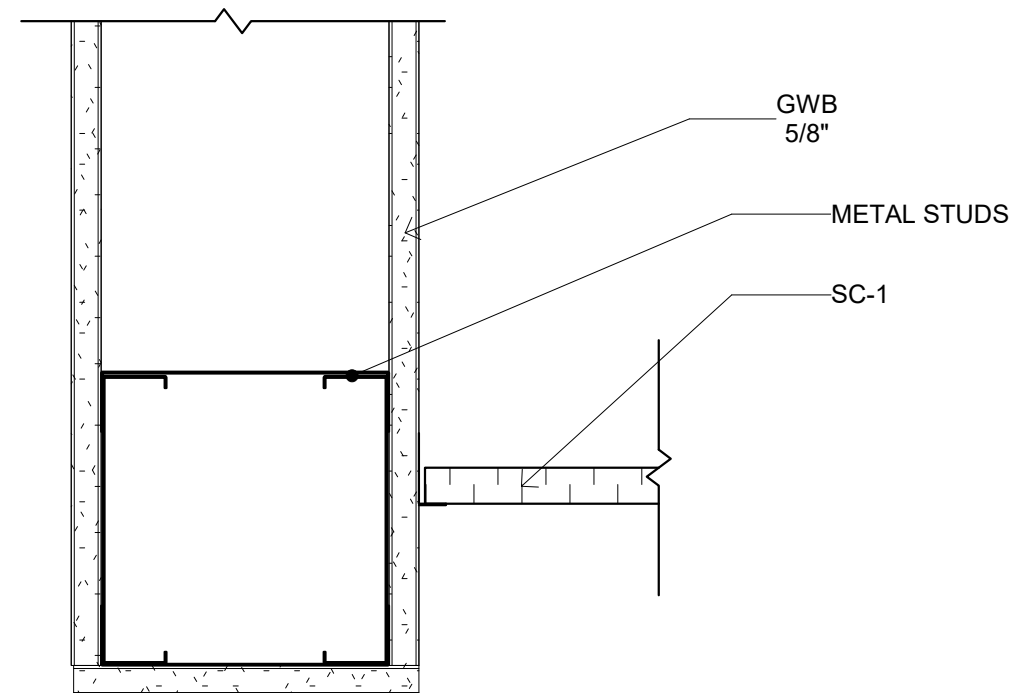
3 RAMP AT EDGE
A-211 1 1/2" = 1'-0"



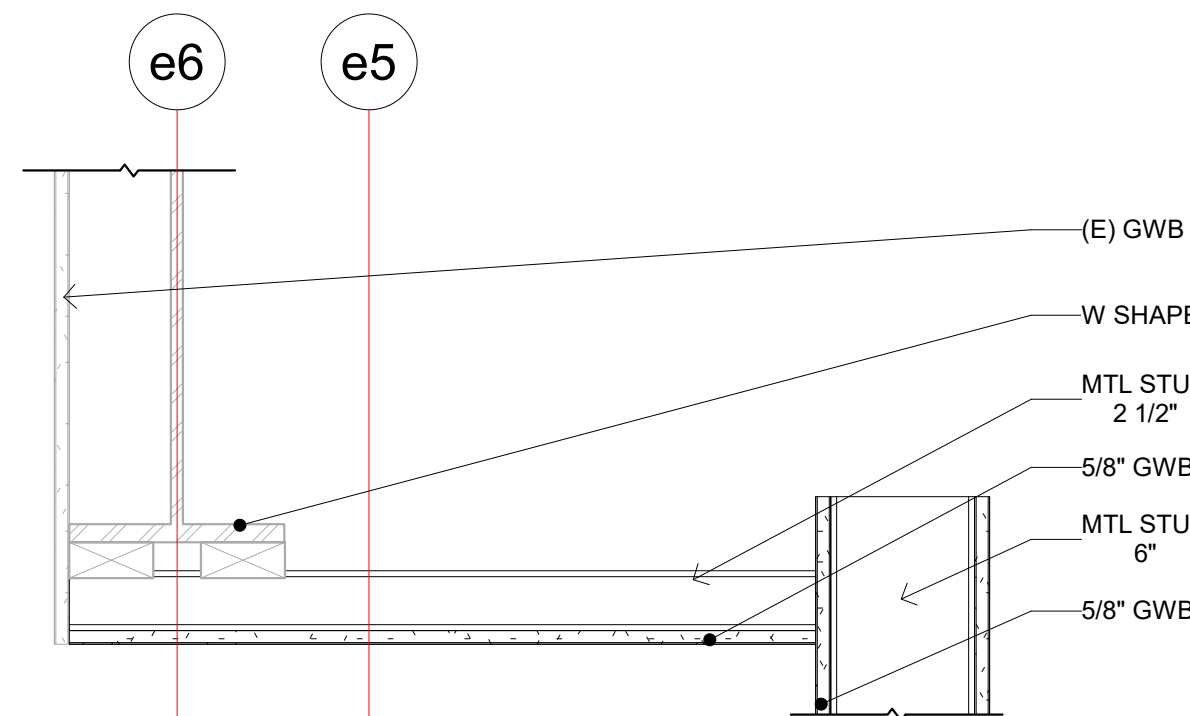
2 (E) PROSCENIUM AT eC
A-211 1 1/2" = 1'-0"



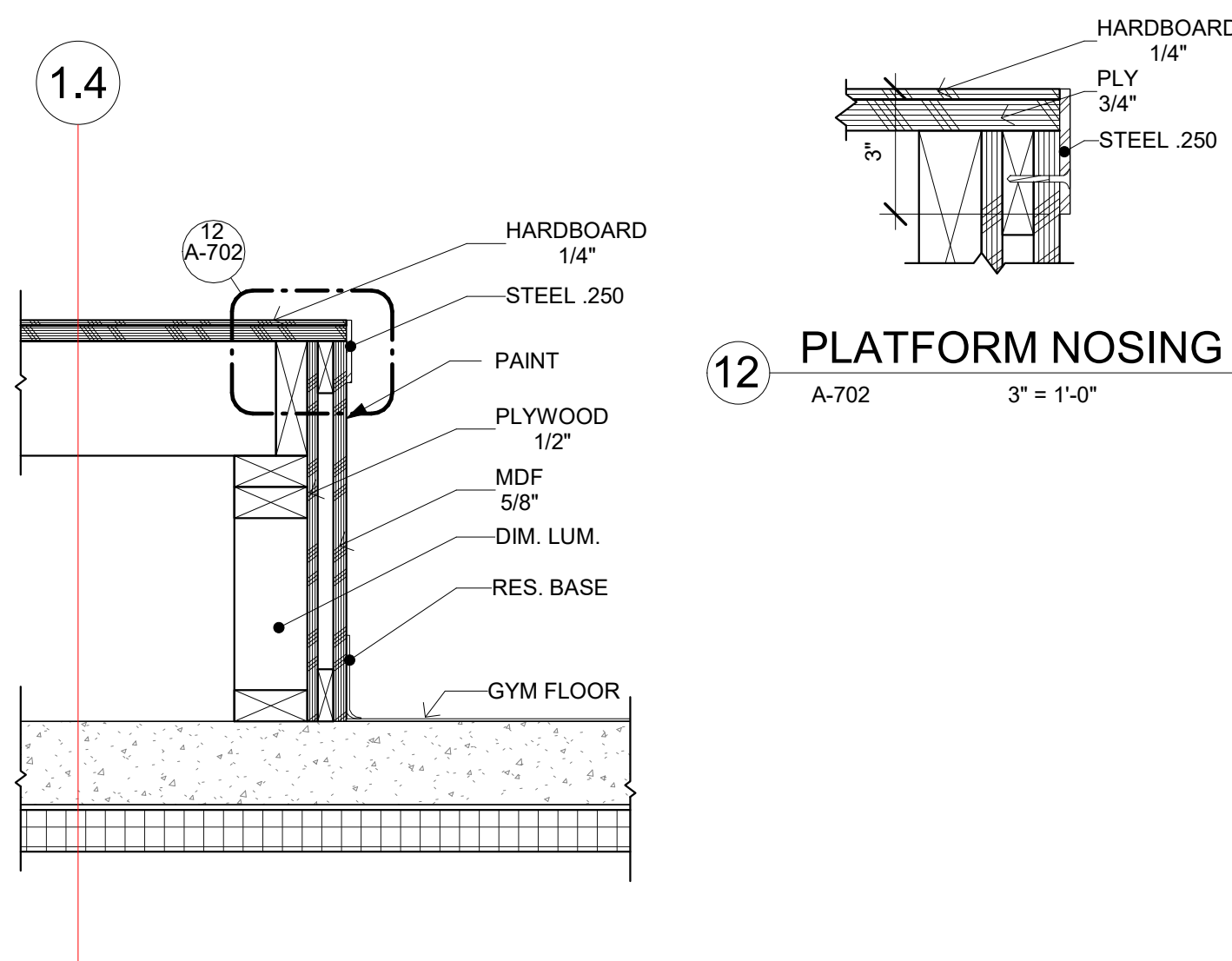
1 RAMP AT BASE
A-411 1 1/2" = 1'-0"



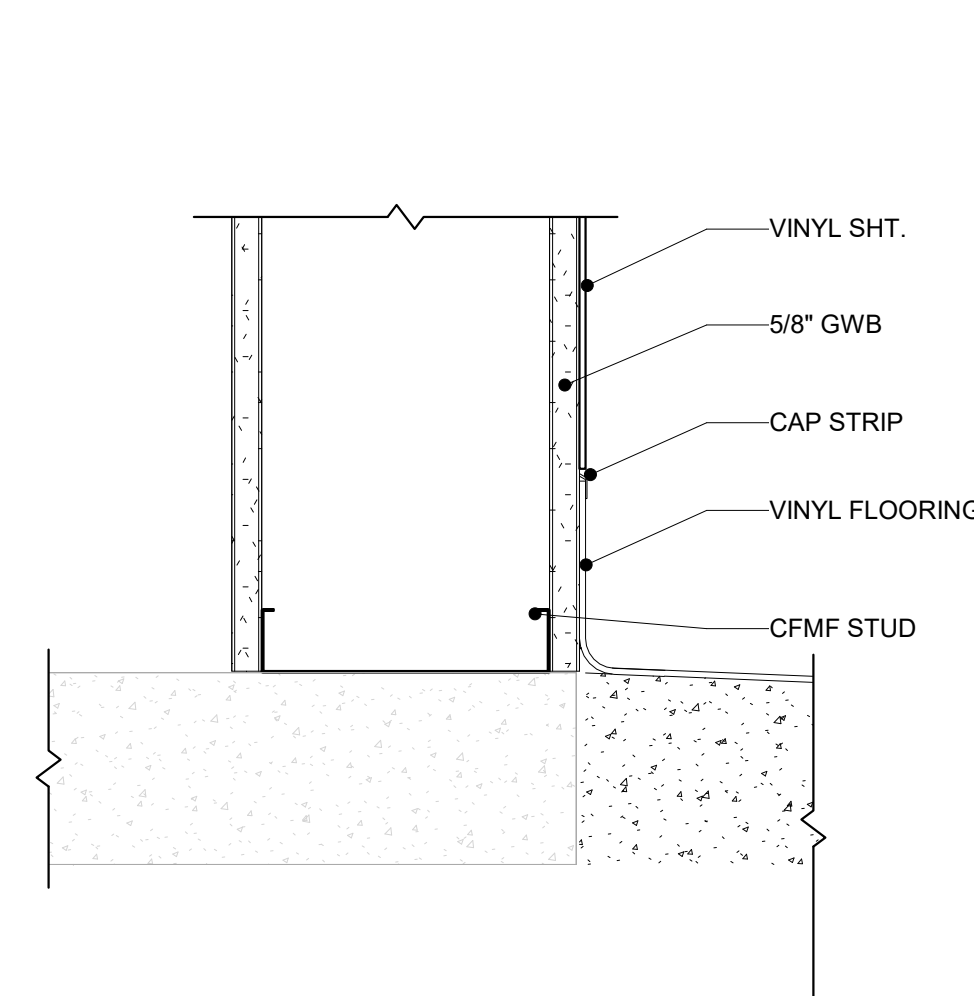
7 SOFFIT AT REFEREE DESK
A-502 3" = 1'-0"



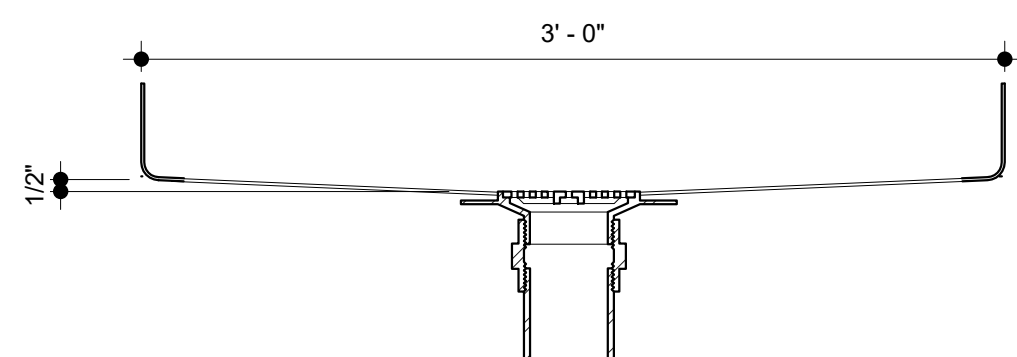
6 SOFFIT AT SEAT ALCOVE
A-502 1 1/2" = 1'-0"



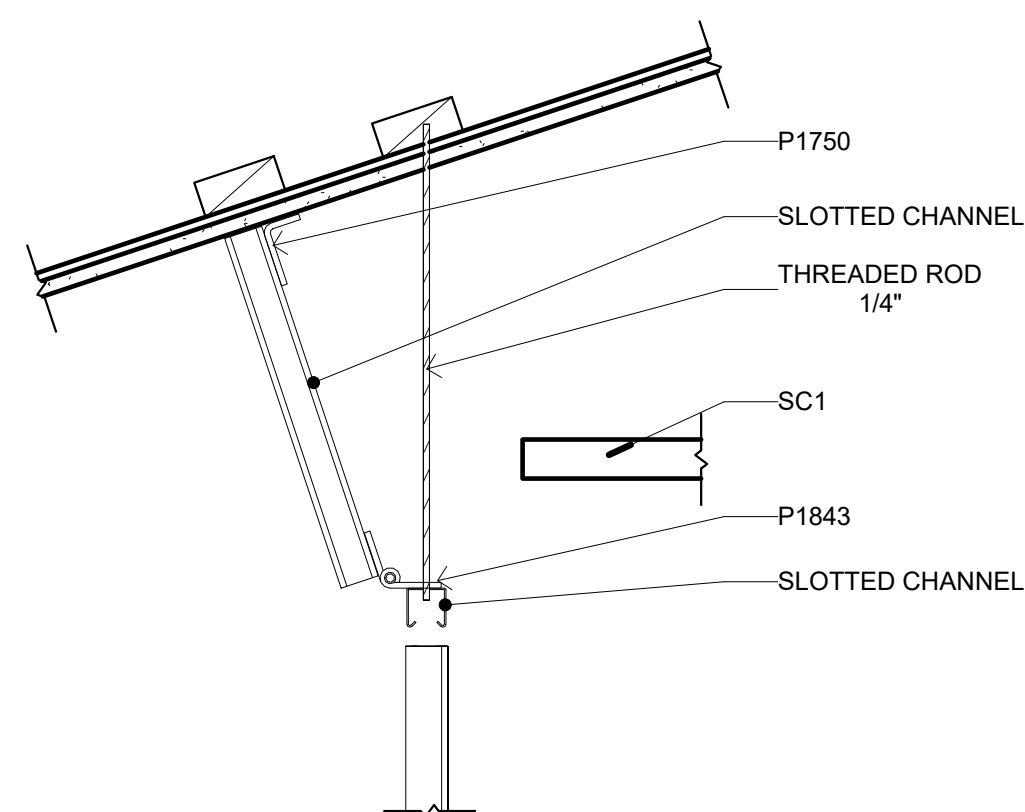
5 PLATFORM AT RECESS
A-502 1 1/2" = 1'-0"



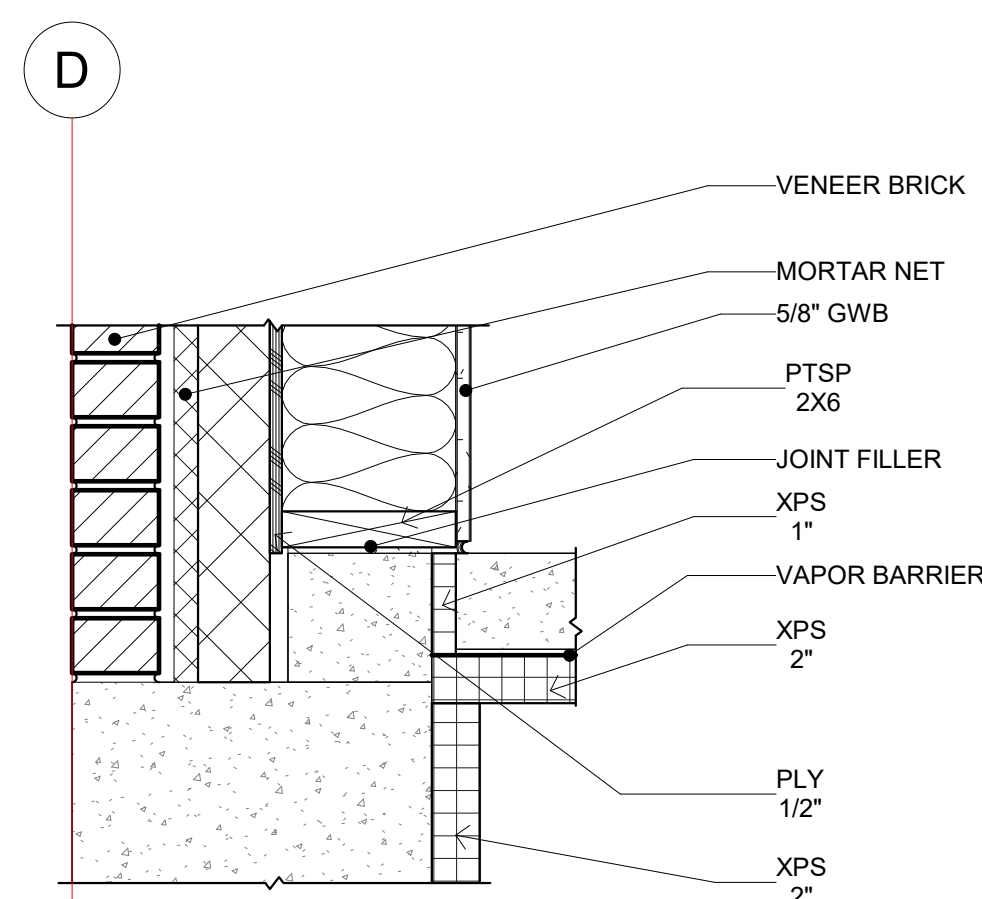
4 SHOWER
A-600 3" = 1'-0"



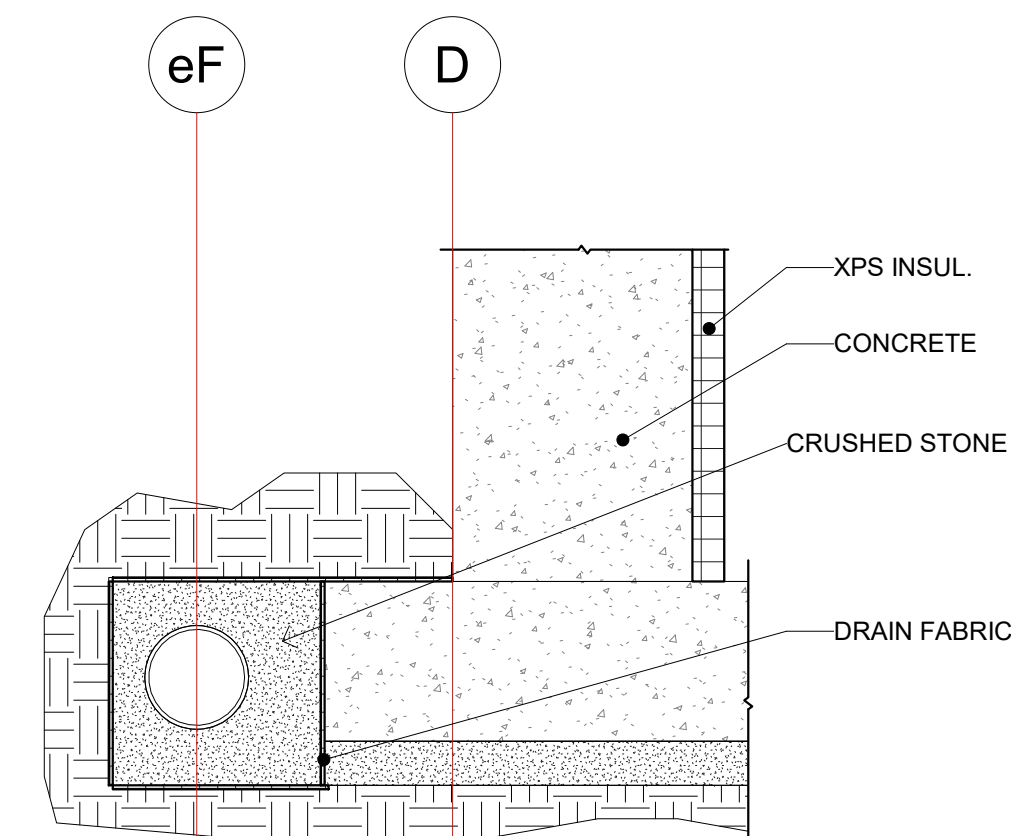
11 SLOPE AT SHOWER DRAIN
A-600 1 1/2" = 1'-0"



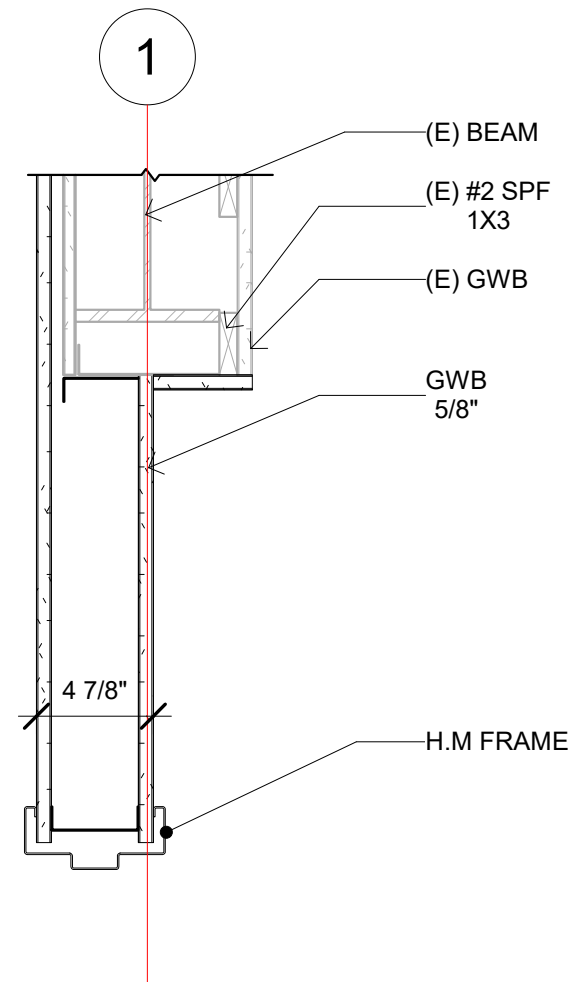
10 BACK CURTAIN MOUNT
A-401 1 1/2" = 1'-0"



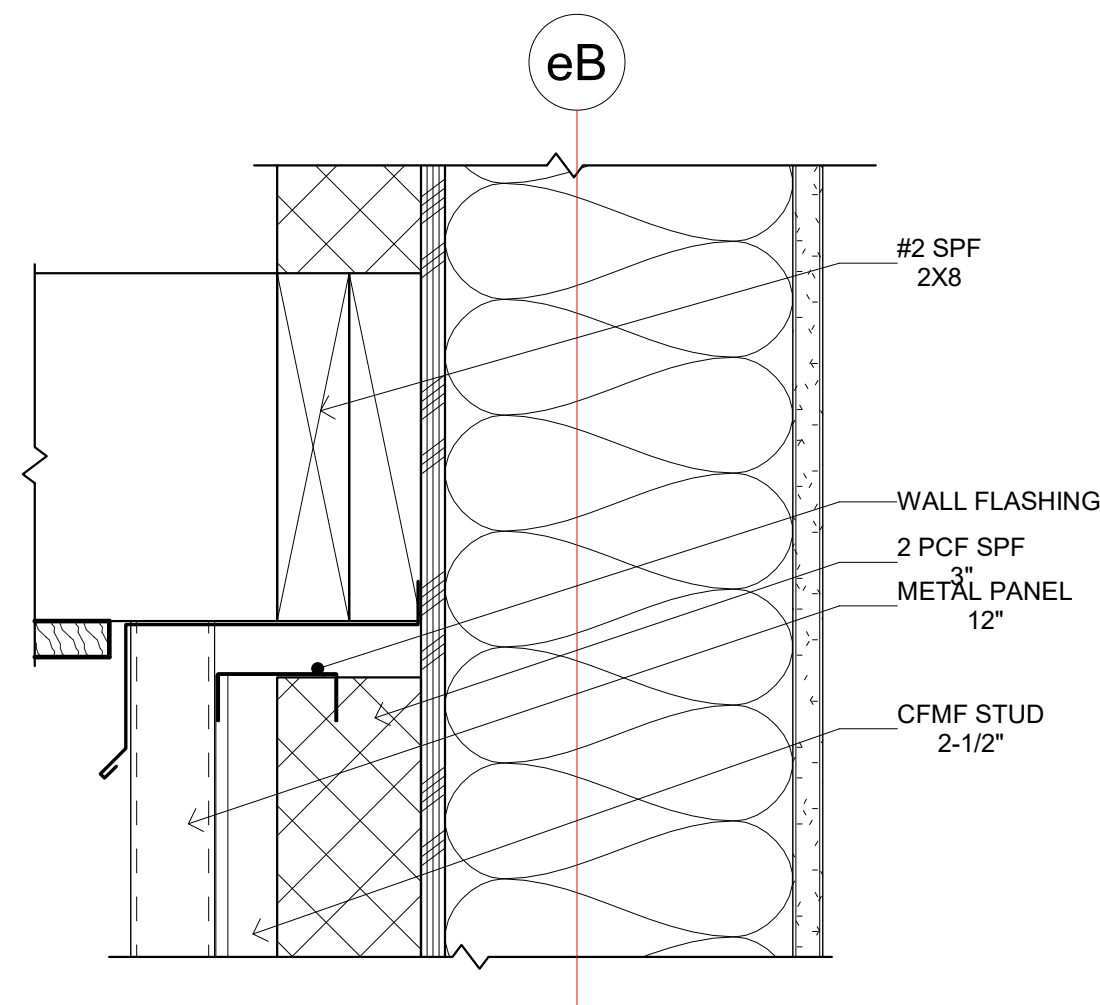
9 BRICK AT BASE
A-500 1 1/2" = 1'-0"



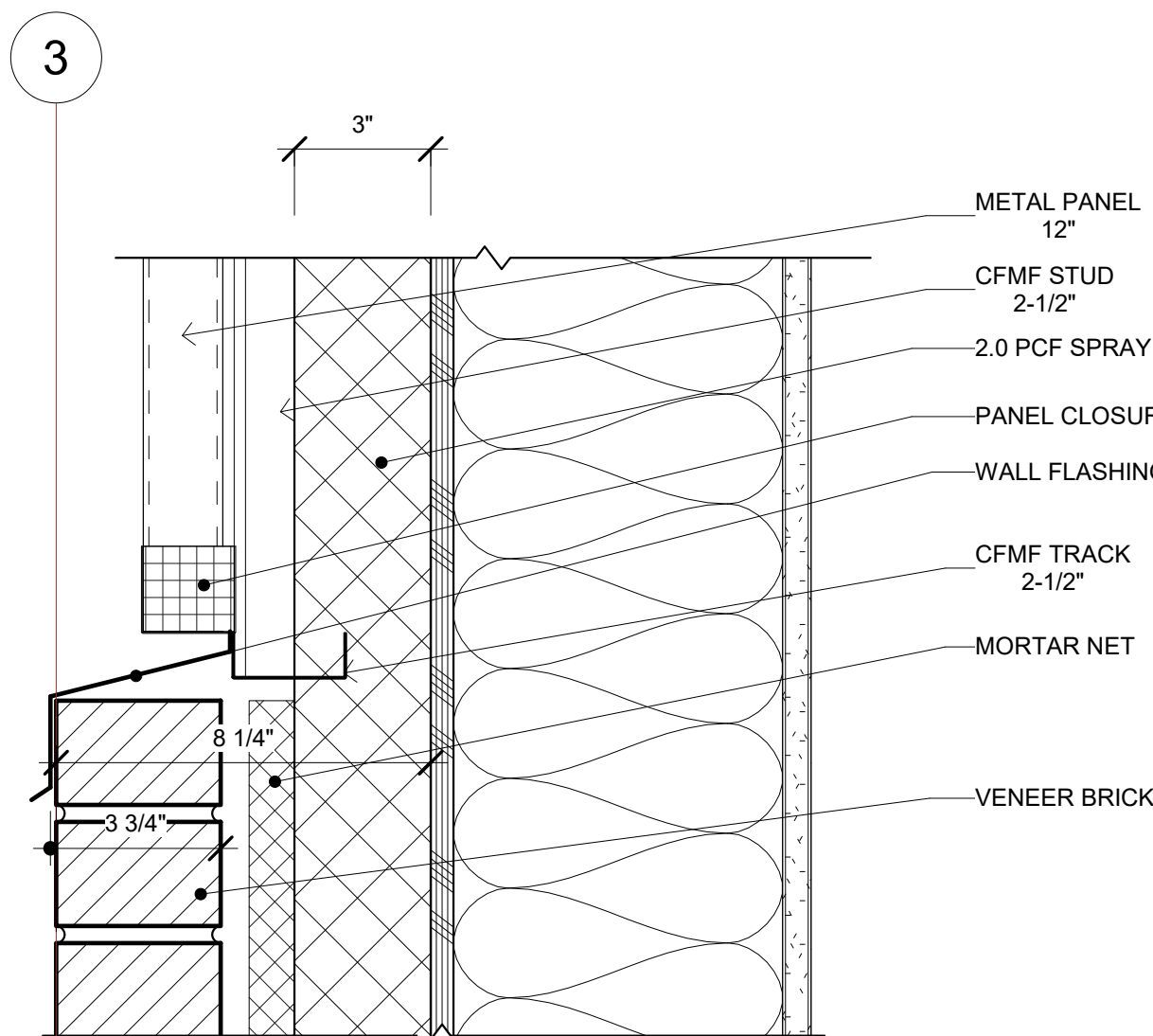
8 FOUNDATION DRAIN
A-500 1" = 1'-0"



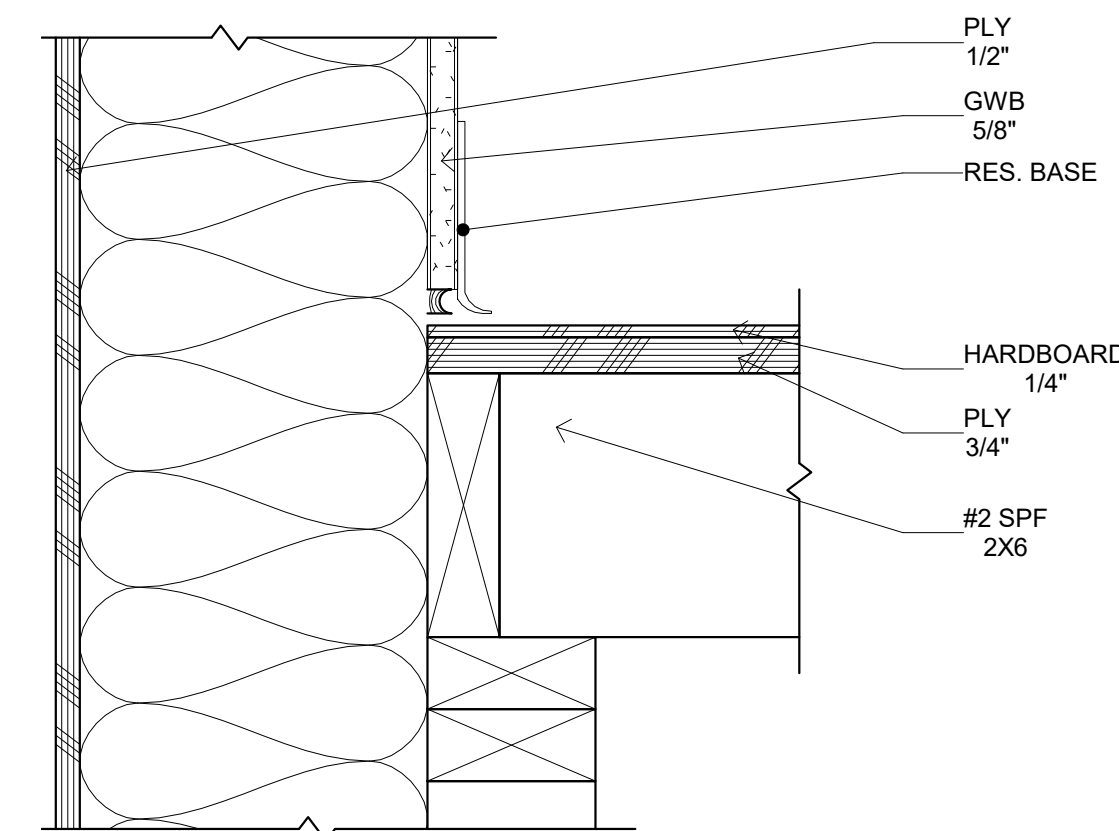
1
A-211
3\" = 1'-0"



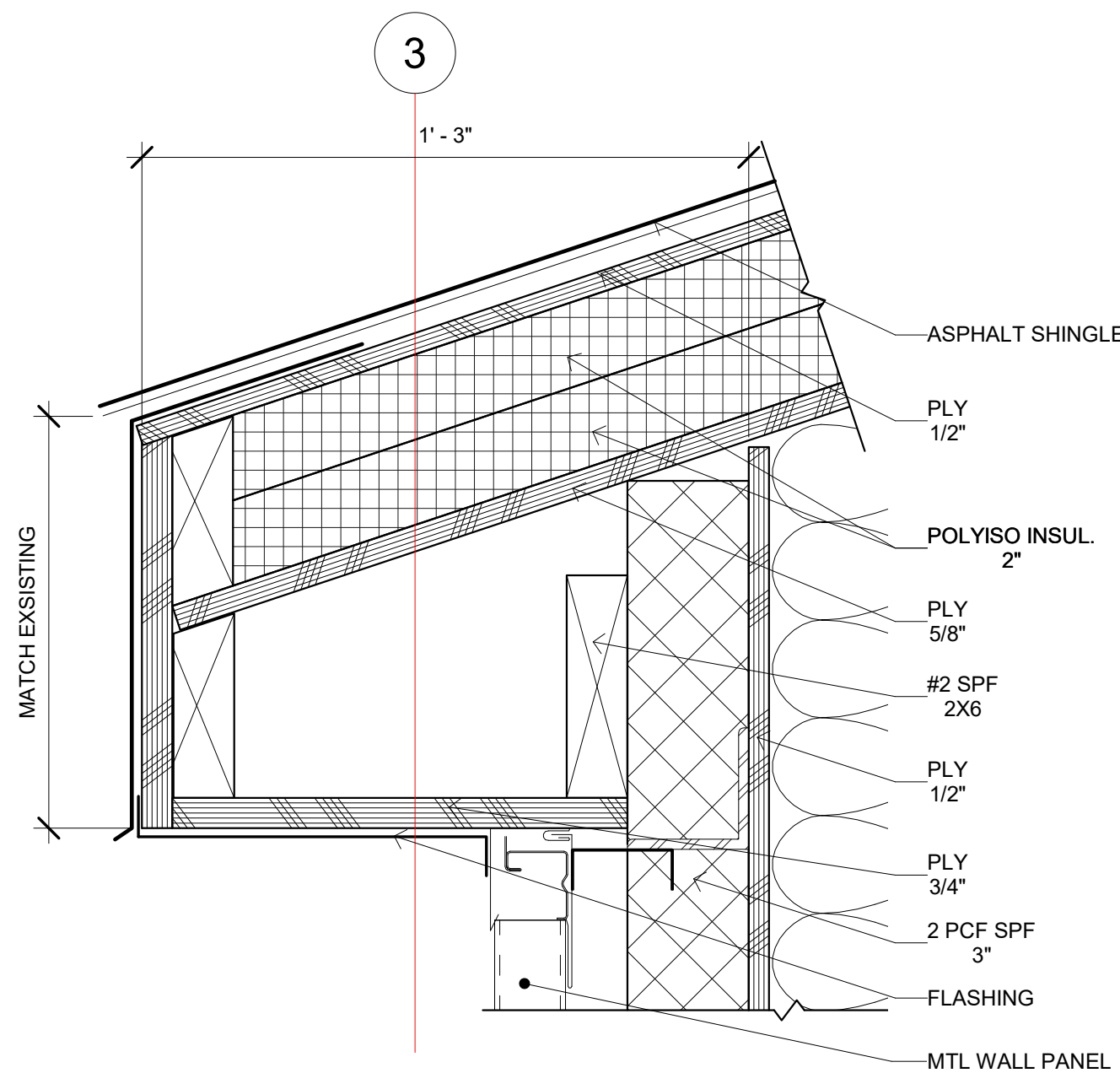
3
A-500
3\" = 1'-0"



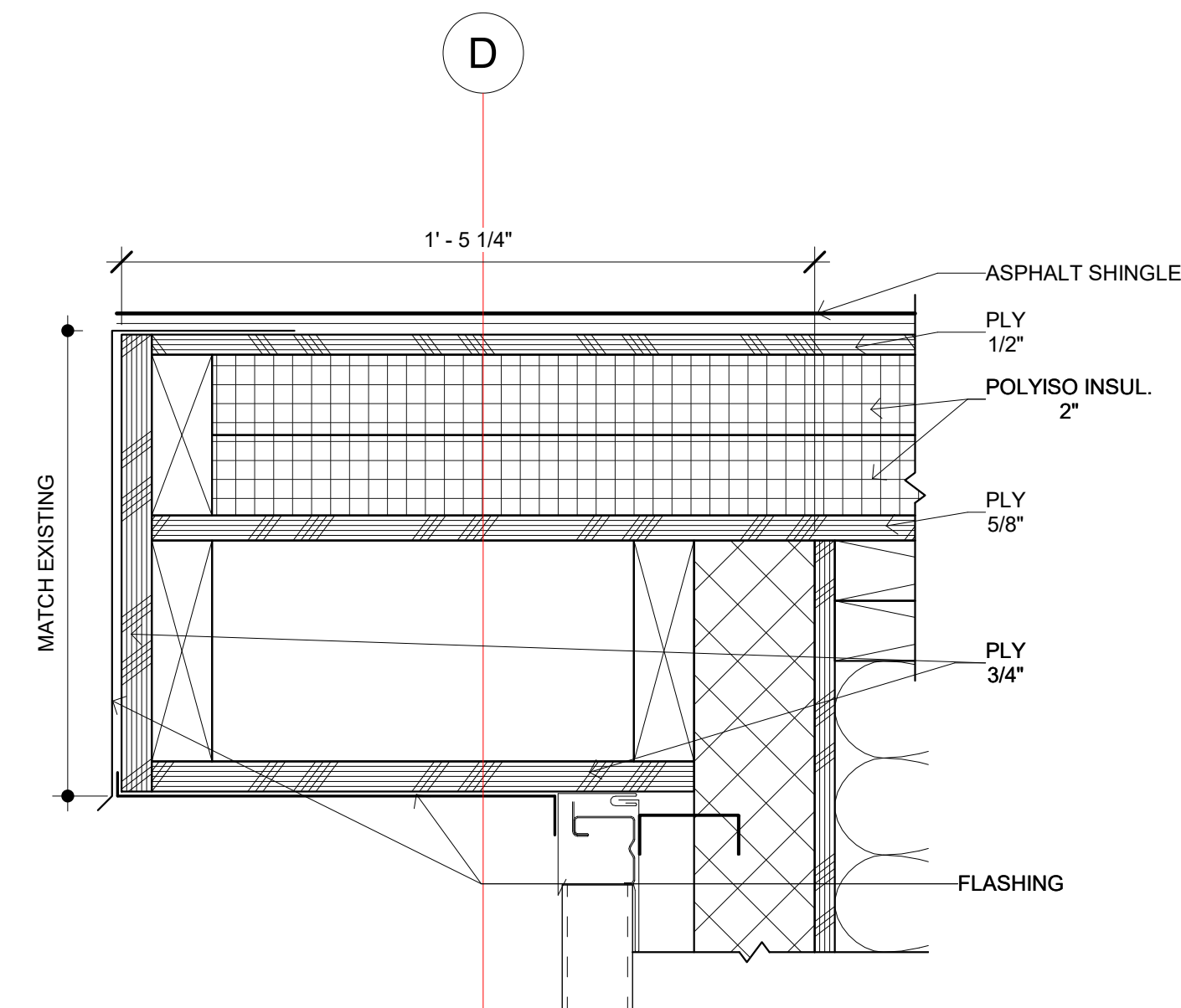
2
A-500
3\" = 1'-0"



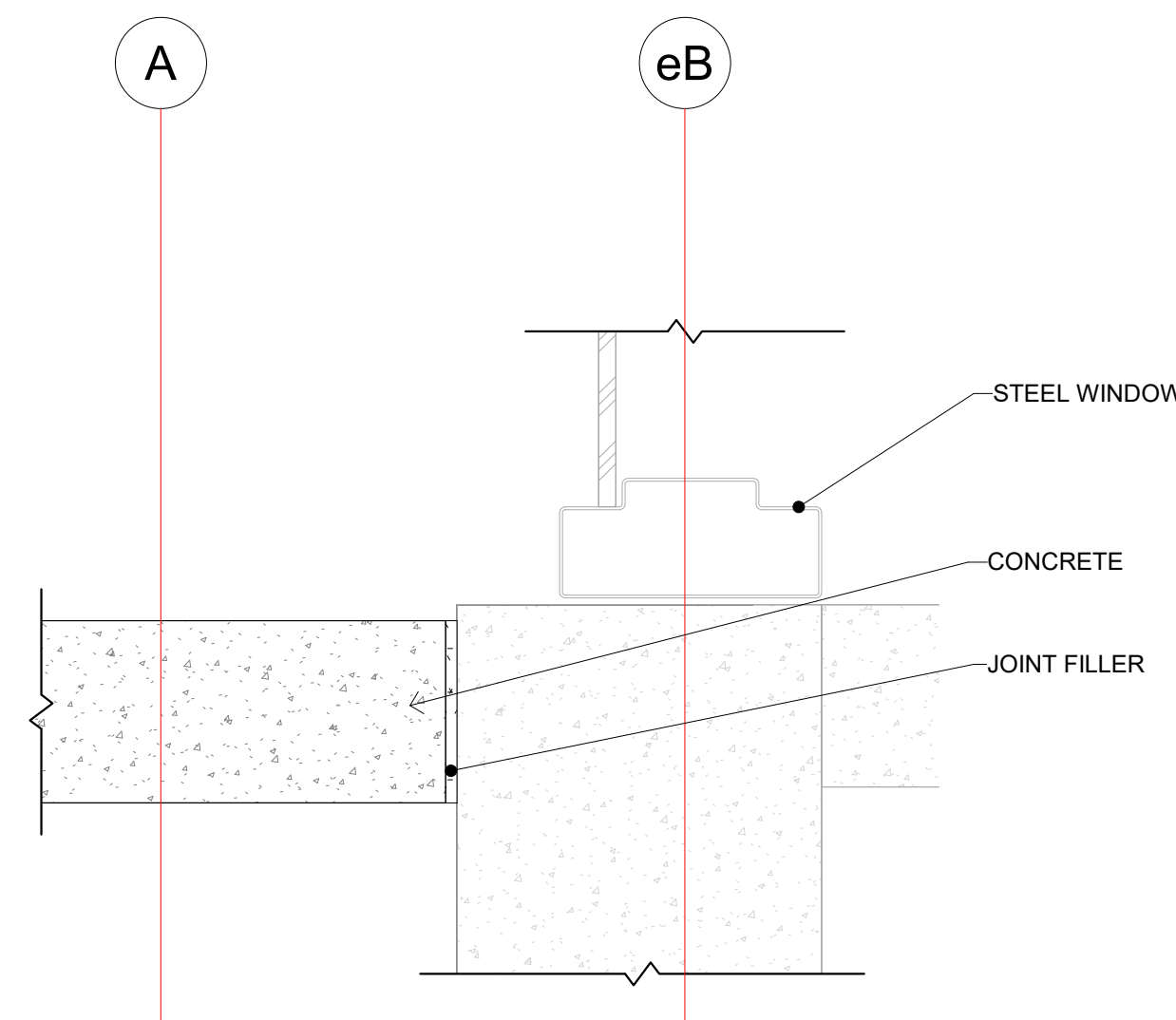
1
A-211
3\" = 1'-0"



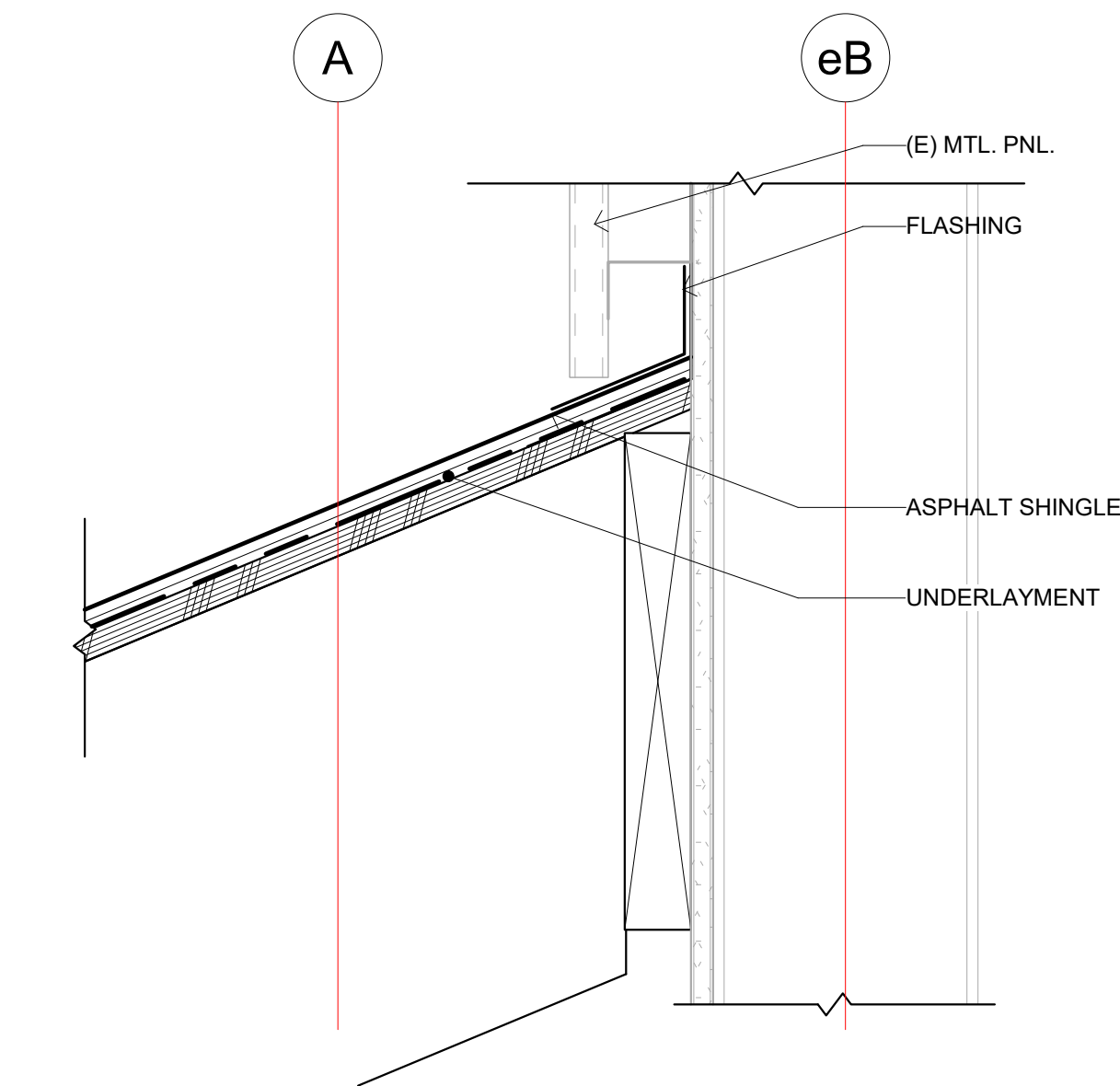
8
A-500
3\" = 1'-0"



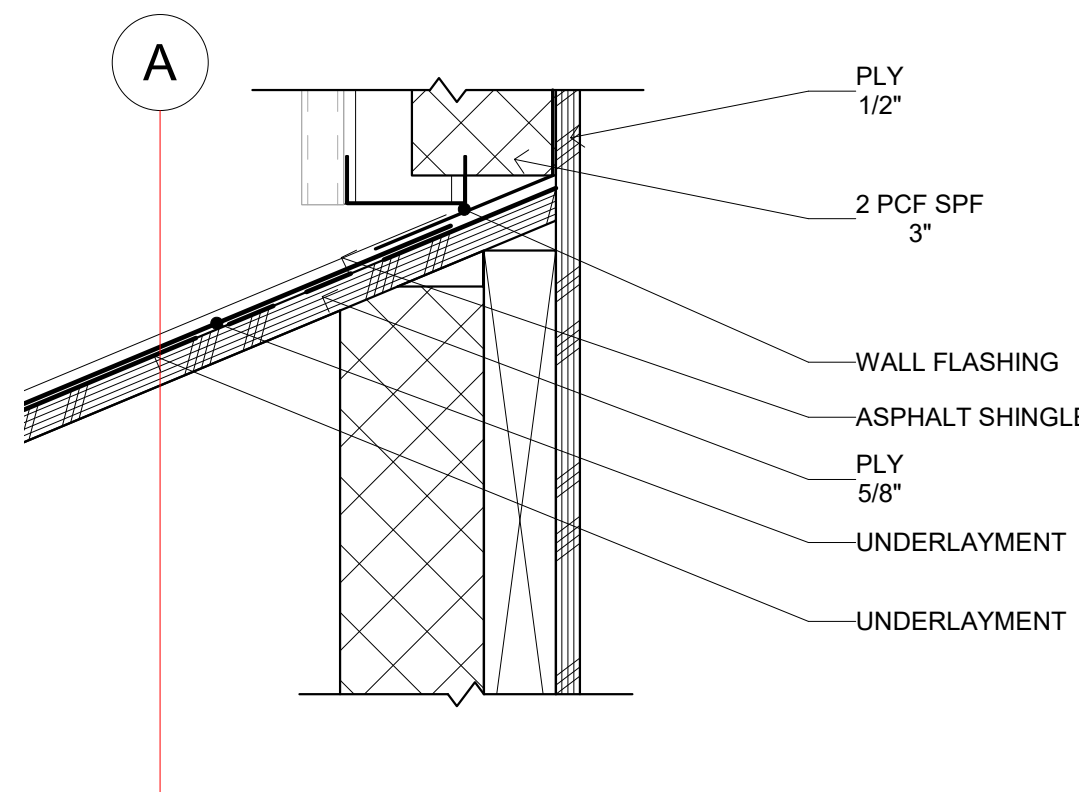
7
A-500
3\" = 1'-0"



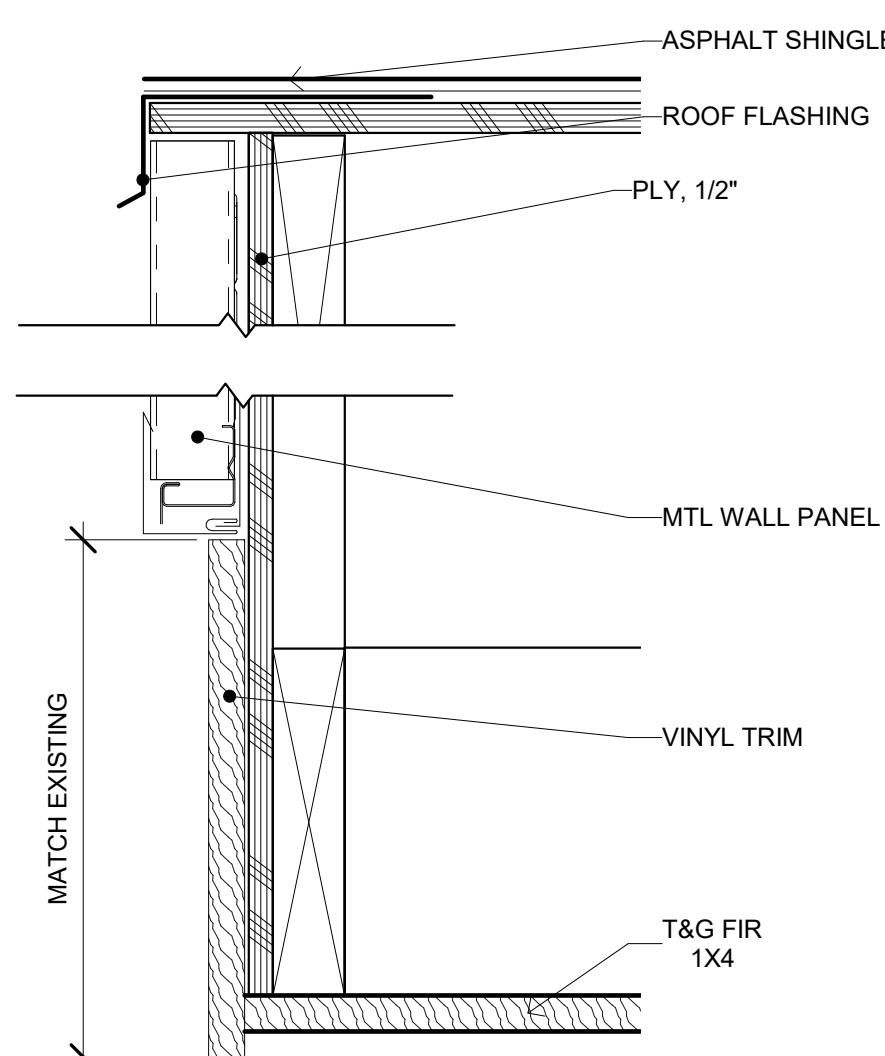
6
A-501
3\" = 1'-0"



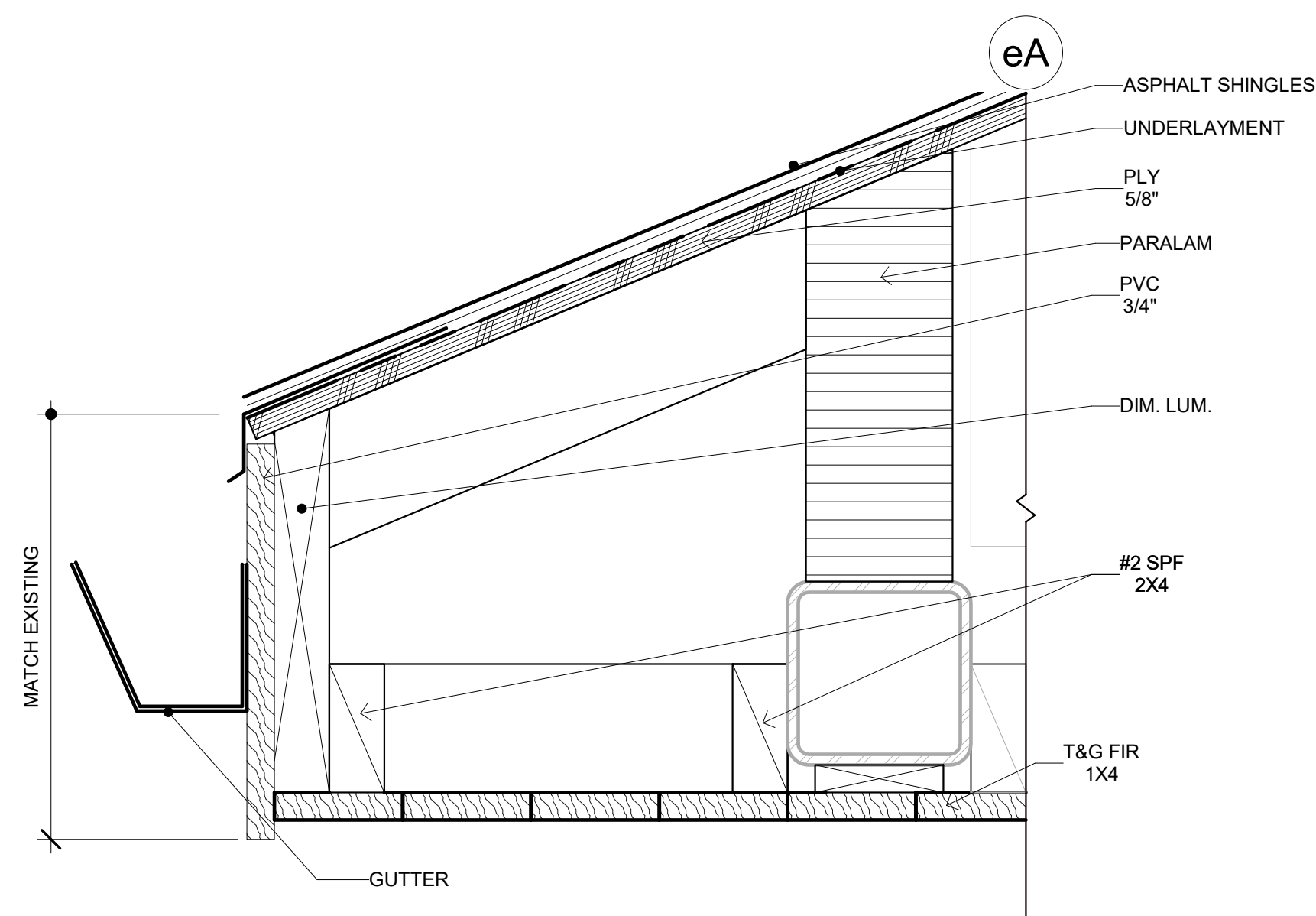
5
A-501
3\" = 1'-0"



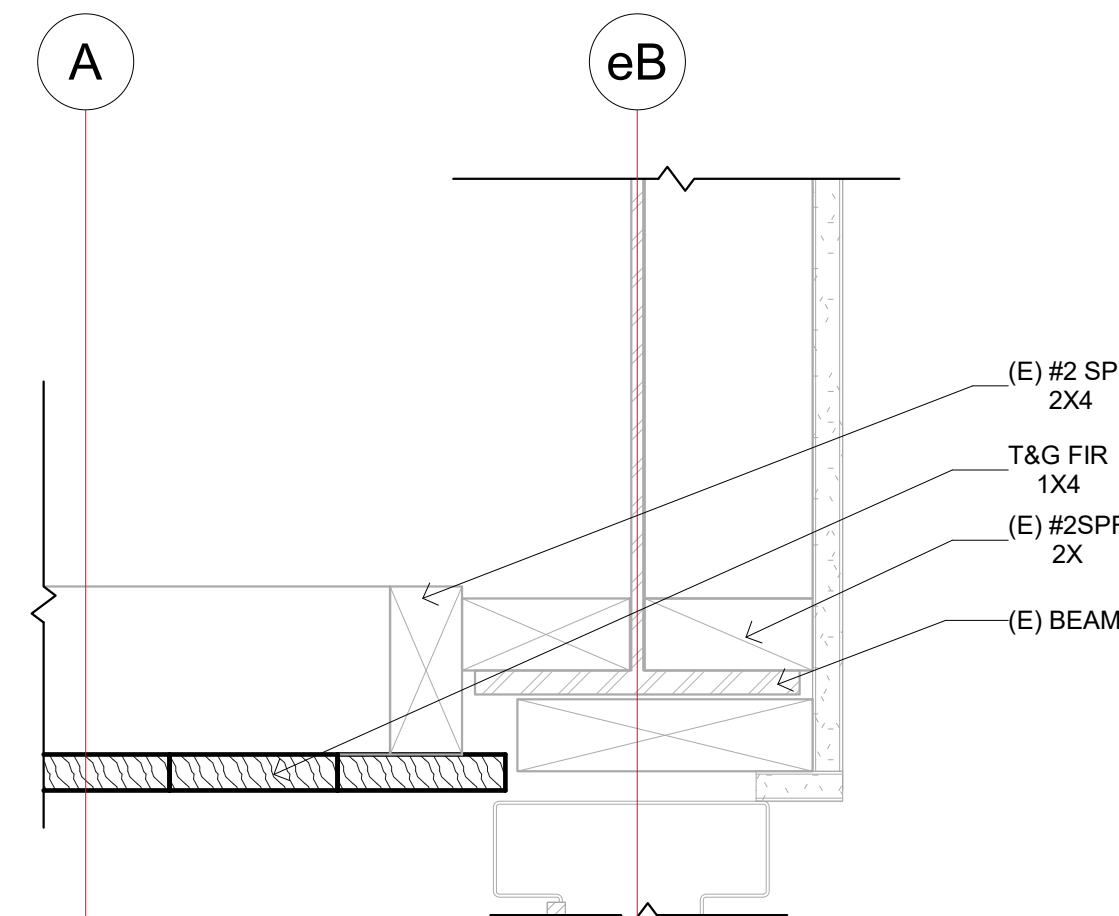
12
A-500
3\" = 1'-0"



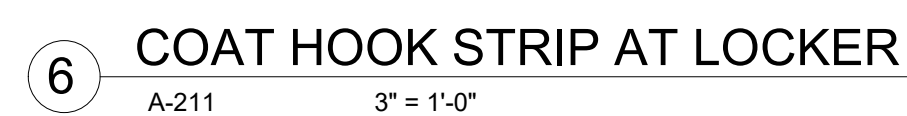
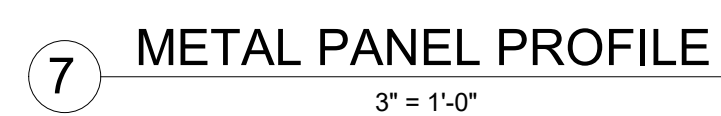
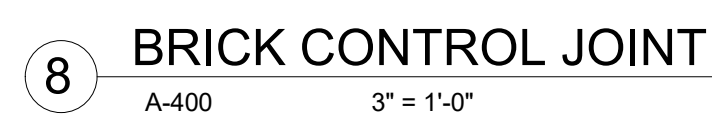
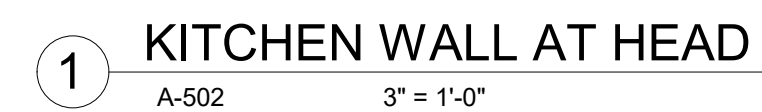
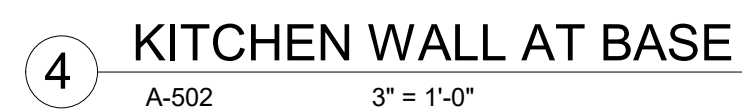
11
A-220
3\" = 1'-0"

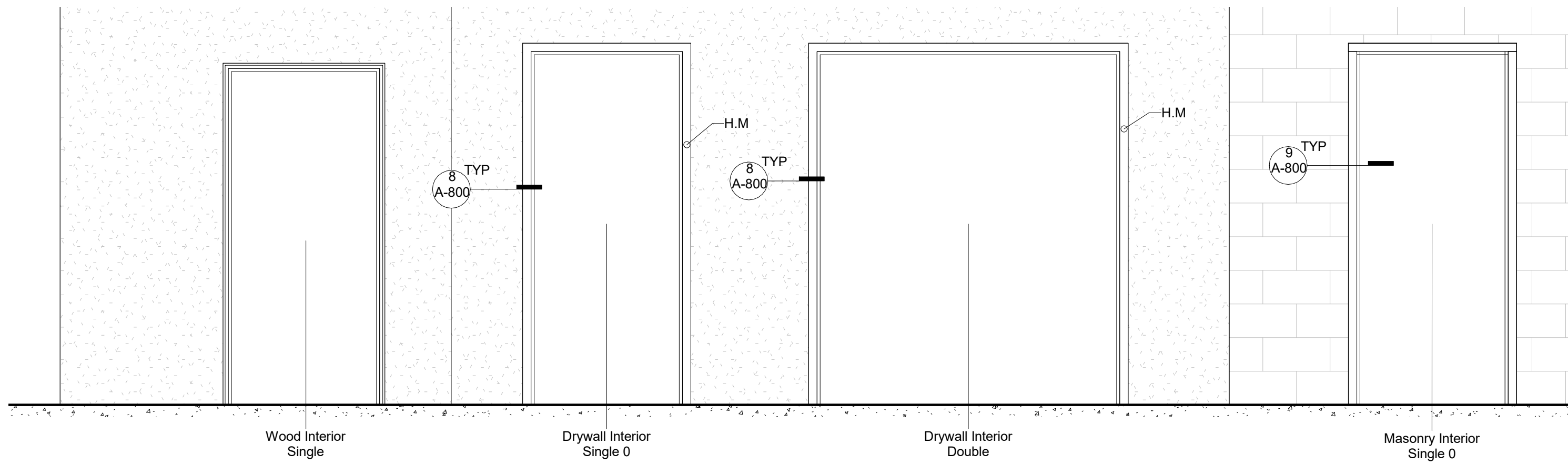


10
A-220
3\" = 1'-0"

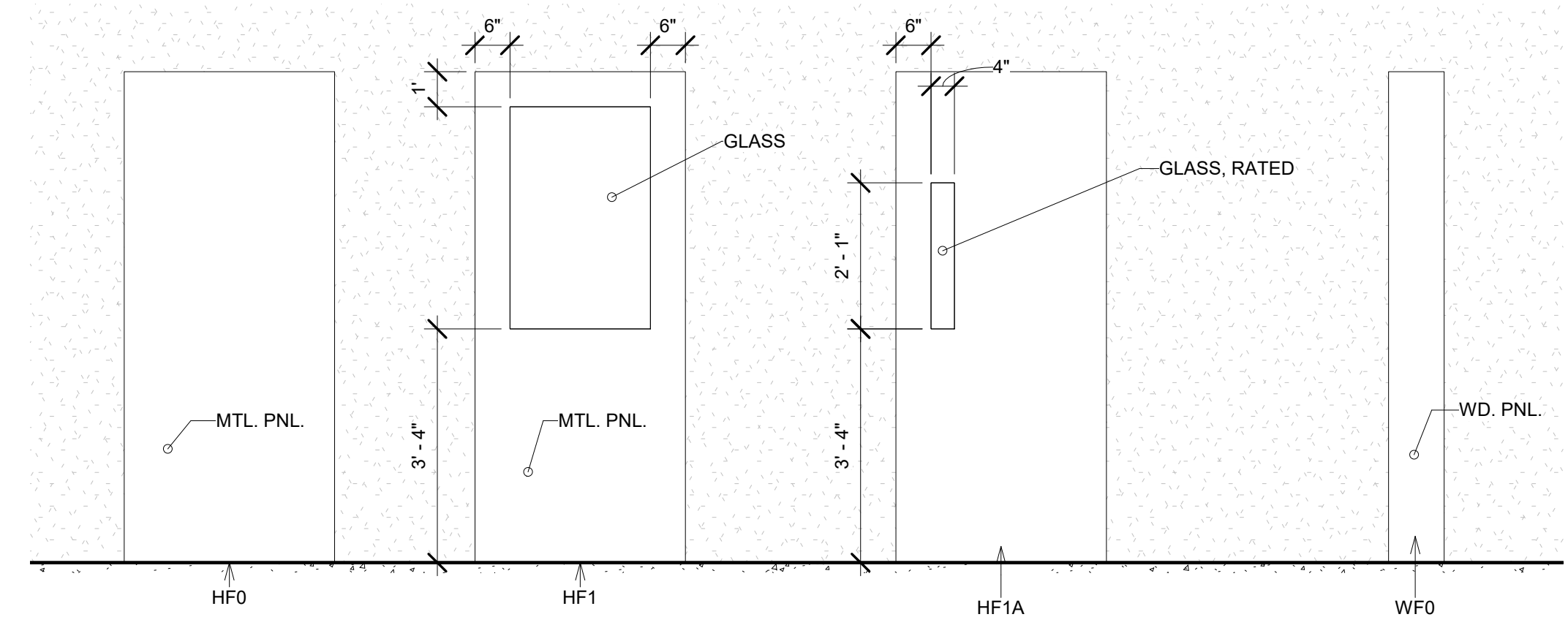


9
A-501
3\" = 1'-0"

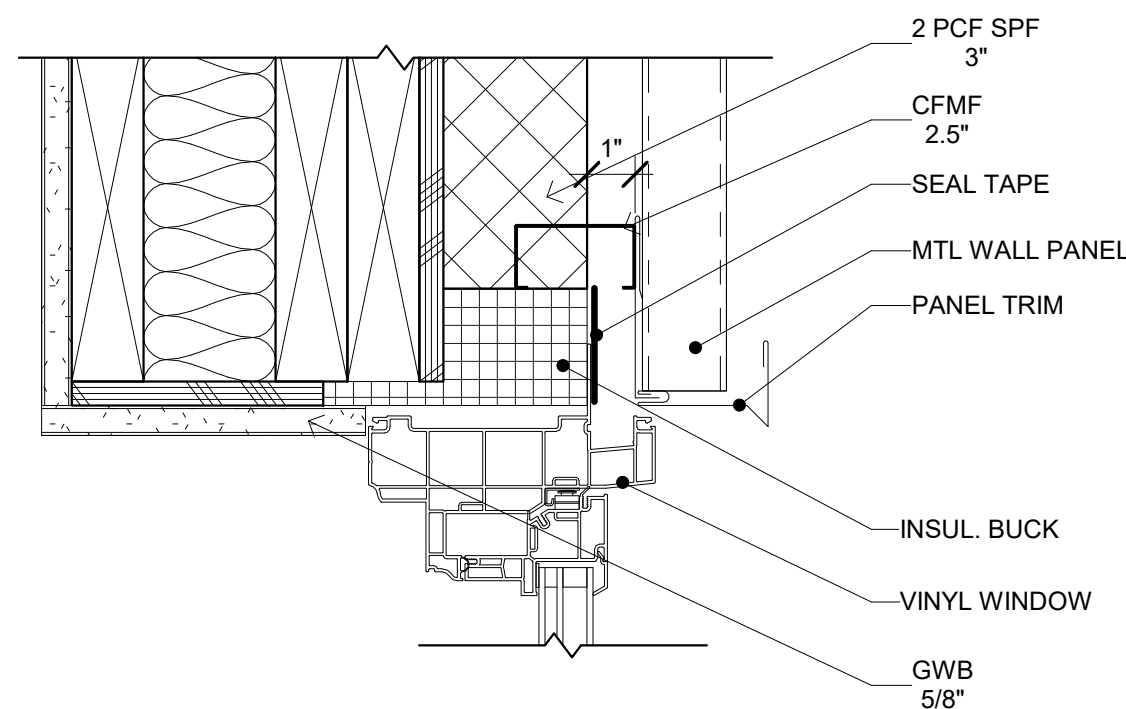




3 FRAME ELEVATIONS
1/2" = 1'-0"



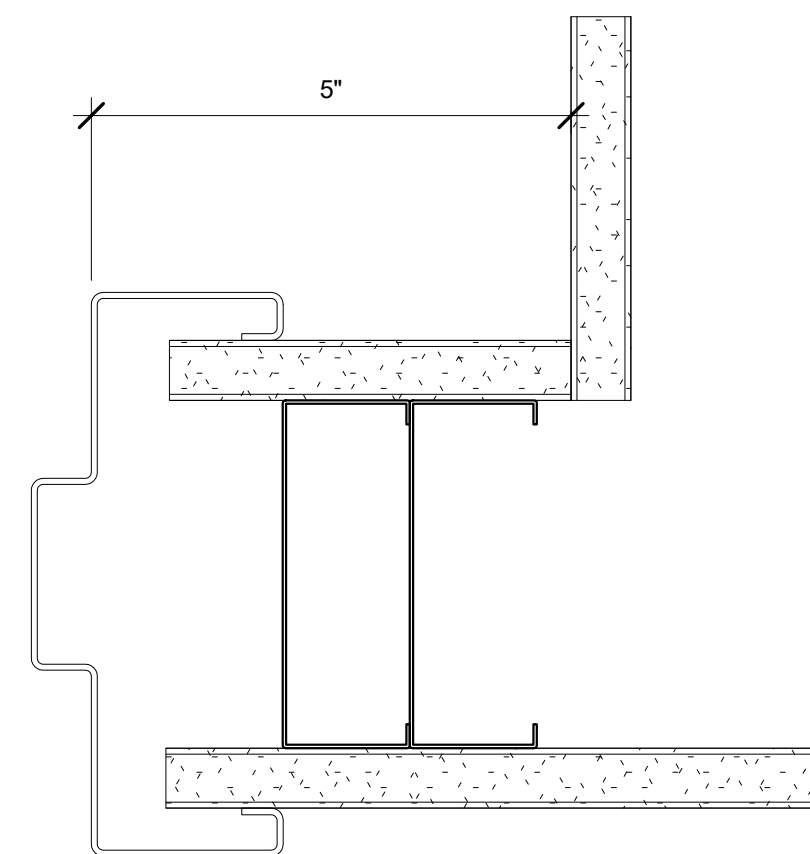
1 DOOR PANEL ELEVATIONS
1/2" = 1'-0"



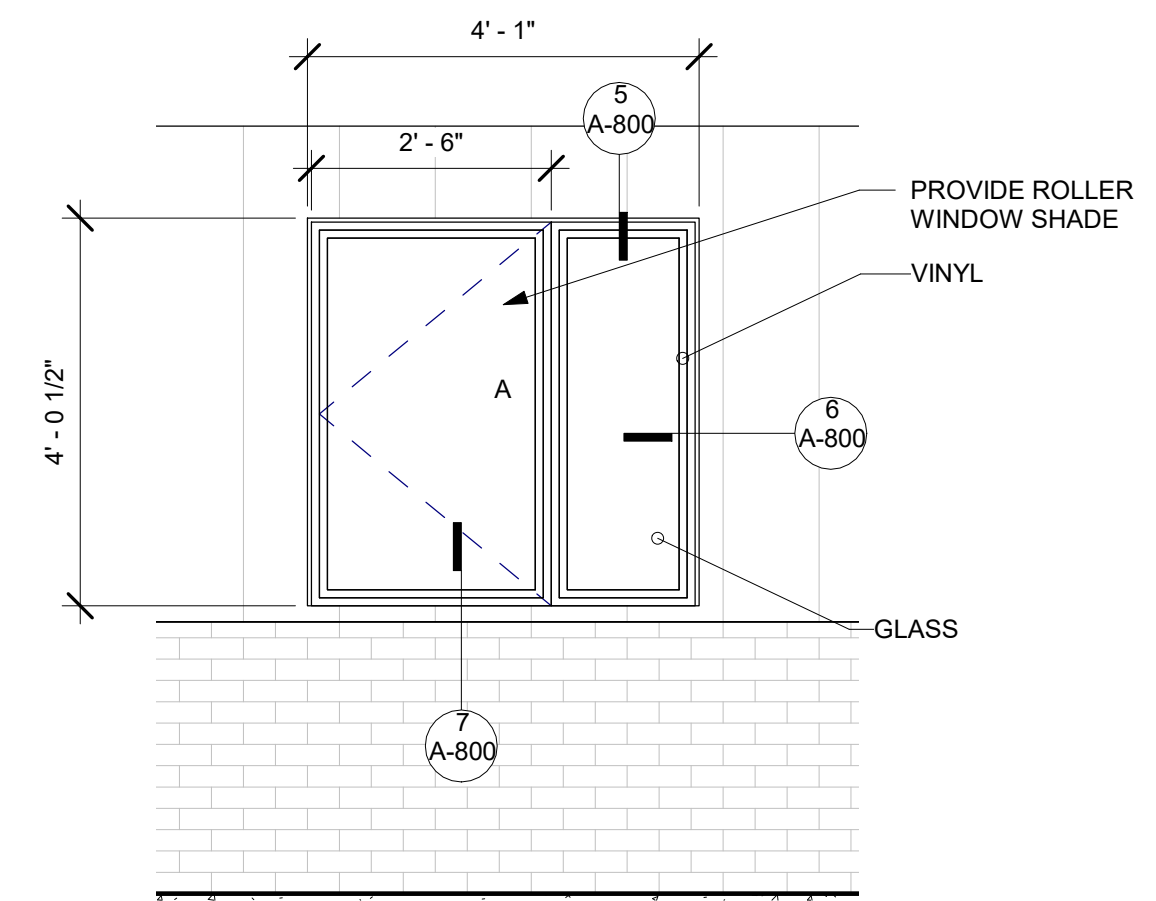
5 WINDOW HEAD
A-500 3" = 1'-0"

C10 INTERIOR DOORS						
MARK	FRAME ELEVATION (Family)	PANEL TYPE (Type)	HARDWARE	PANEL PAINT (Finish)	FRAME PAINT (Frame Material)	RATING
100	Masonry Interior Single 0	3080 HF0- 90	1	IP-3	IP-3	90
100A	Fire Shutter- Surface	FS-1				90
102	Drywall Interior Single 0	3070 HF1	3	IP-2	IP-2	NR
103	Drywall Interior Single 0	3070 HF1	3	IP-2	IP-2	NR
103A	Drywall Interior Single 0	3070 HF0	6	IP-2	IP-2	NR
104	Drywall Interior Single 0	3070 HF1	3	IP-2	IP-2	NR
105	Drywall Interior Single 0	3670 HF0	3	IP-2	IP-2	NR
106	Drywall Interior Double	6070 HF0	4	IP-3	IP-3	NR
107	Wood Interior Single	10100 WF0	5	IP-1	IP-1	NR
108	Wood Interior Single	10100 WF0	5	IP-1	IP-1	NR
110A	Drywall Interior Single 0	3070 HF1A-90	2	IP-3	IP-3	90
110B	Drywall Interior Single 0	3070 HF1A-90	2	IP-3	IP-3	90
111	Drywall Interior Single 0	3070 HF0-45	6	IP-3	IP-3	45
115	Drywall Interior Single 0	3070 HF0	7	IP-2	IP-2	NR
116	Drywall Interior Single 0	3070 HF0	7	IP-2	IP-2	NR
117	Drywall Interior Single 0	3070 HF0	7	IP-2	IP-2	NR
118	Drywall Interior Single 0	3070 HF0	8	IP-2	IP-2	NR
119	Drywall Interior Single 0	3070 HF0	8	IP-2	IP-2	NR
120A	Drywall Interior Single 0	3070 HF0-45	5	IP-3	IP-3	45
121	Drywall Interior Single 0	3070 HF0	5	IP-3	IP-3	NR

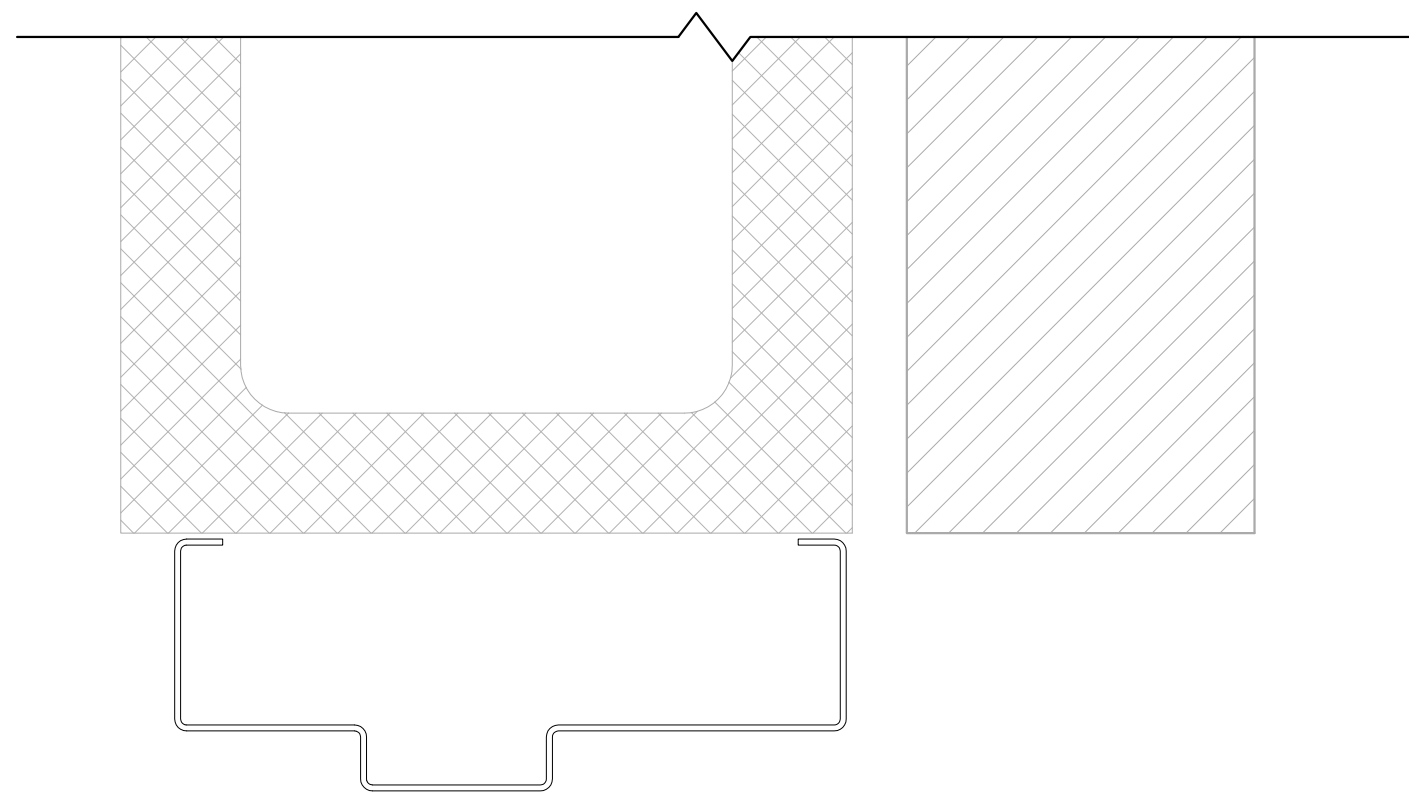
B20 EXTERIOR WINDOWS			
TYPE MARK	STYLE (Family)	SIZE (Type)	OPERATION
A	FAC 1T2W	Type A	CASEMENT
Type A: 5			
Grand total: 5			



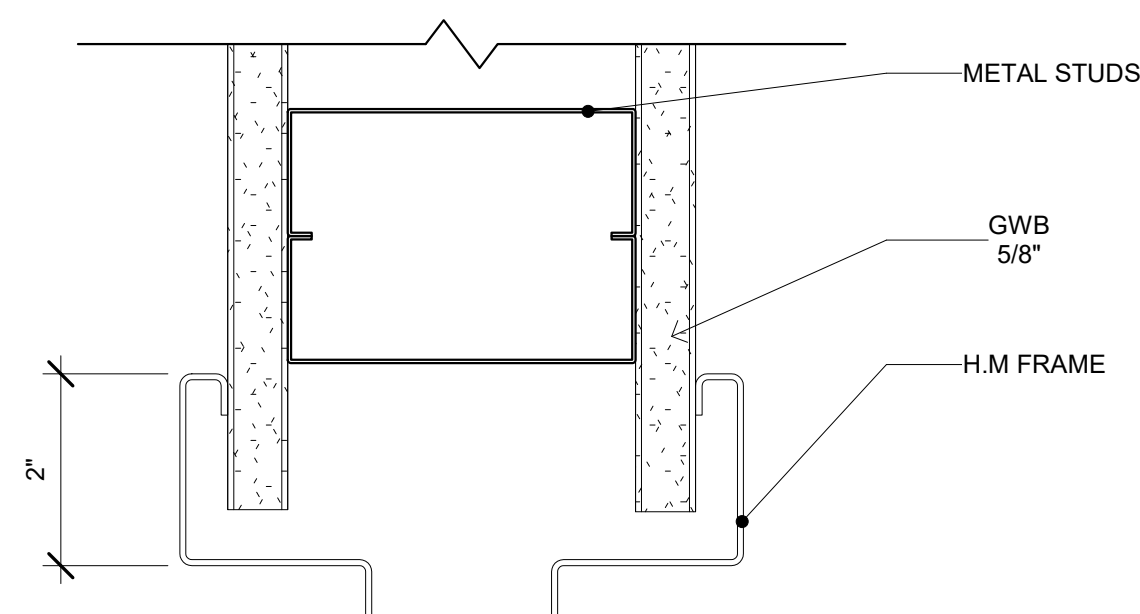
4 DOOR FRAME AT WALL CORNER
6" = 1'-0"



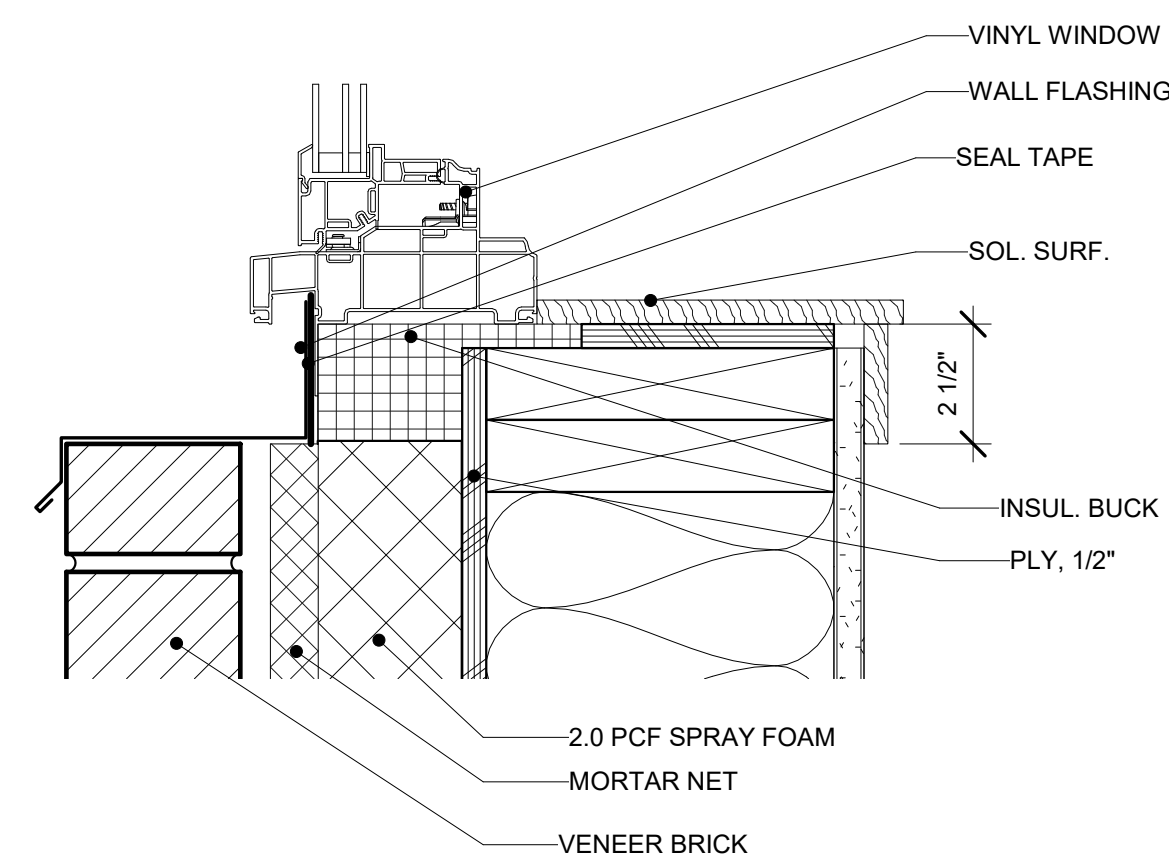
2 EXTERIOR WINDOWS
1/2" = 1'-0"



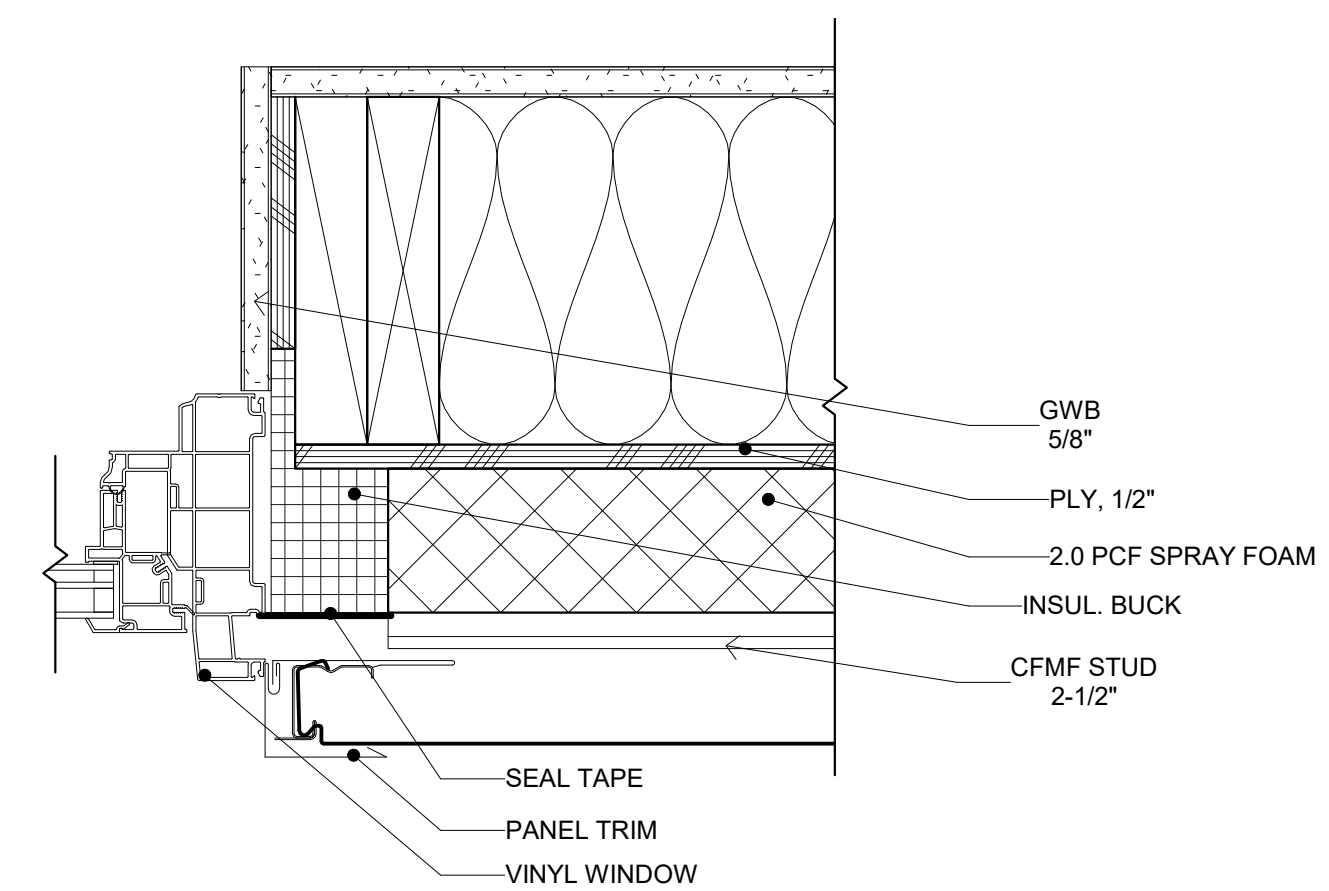
9 MASONRY JAMB
A-800 6" = 1'-0"



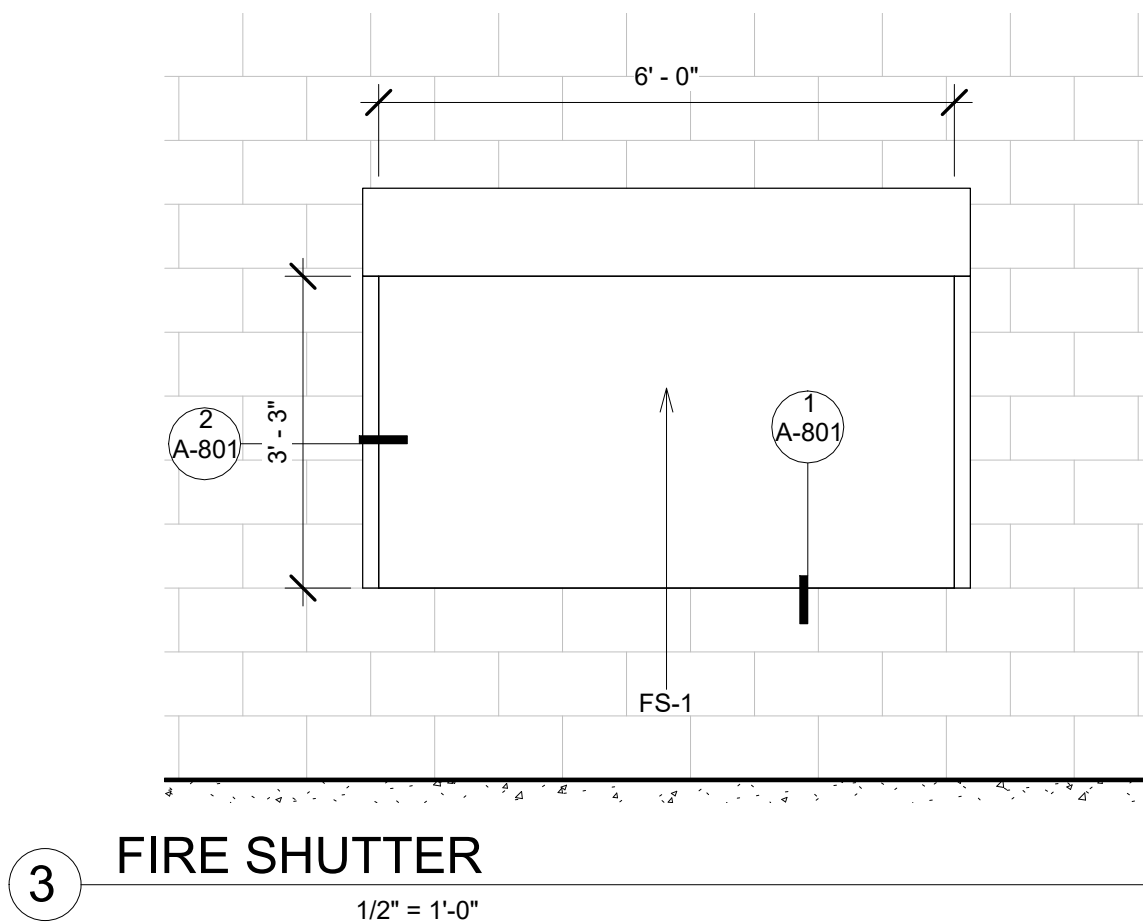
8 DRYWALL JAMB
A-800 6" = 1'-0"



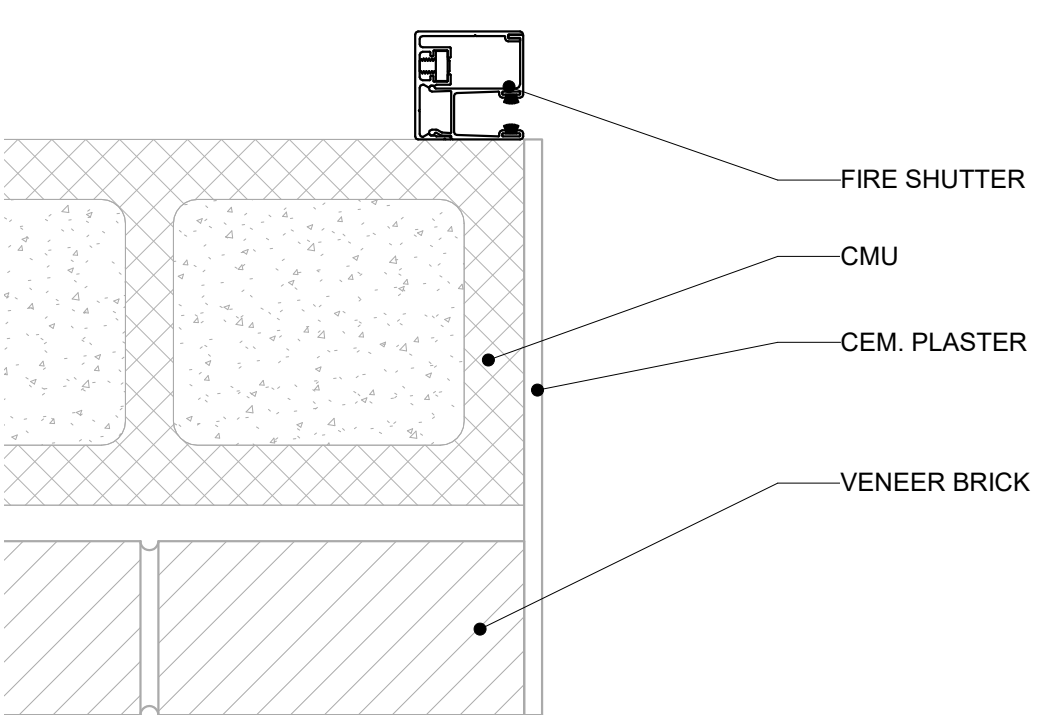
7 WINDOW SILL
A-500 3" = 1'-0"



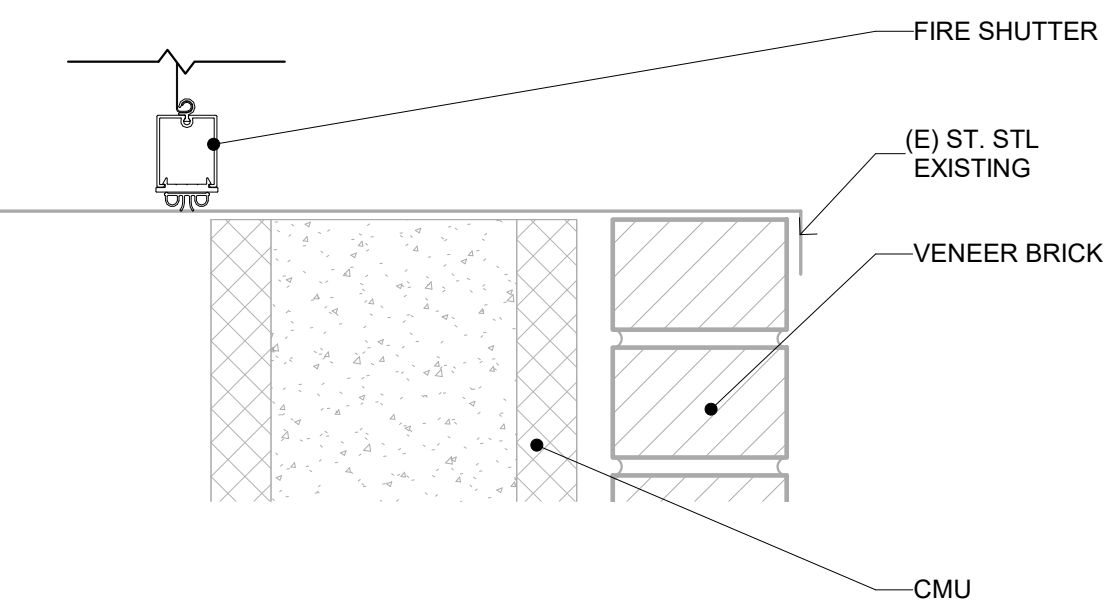
6 WINDOW JAMB
A-800 3" = 1'-0"



3 FIRE SHUTTER
1/2" = 1'-0"



2 FIRE SHUTTER JAMB
3" = 1'-0"



1 FIRE SHUTTER SILL
3" = 1'-0"

BIDDING
8 APR 2019
4/8/2019 9:14:22 AM

OPENINGS

A-801

RSU 18
CHINA MIDDLE SCHOOL ADDITION



SEALANDER ARCHITECTS
79 Main Street, Suite C
Ellsworth ME 04605
207.266.5822



1 FLOOR 1 FINISHES
A-401 1/8" = 1'-0"

C30 FLOOR FINISHES				
TYPE MARK	FUNCTION	ASSEMBLY CODE	AREA	DESCRIPTION
I-CF1	Interior	C3020510	577 SF	CARPET TILE
I-RF-1	Interior	C3020440	4656 SF	URETHANE ATHLETIC FLOOR
I-RF-2	Interior	C3020440	172 SF	SHEET VINYL
I-RF-3	Interior	C3020440	113 SF	SHEET VINYL
I-TF-1	Interior	C3020520	1100 SF	VINYL TILE
I-WF-1	Interior	C3020810	743 SF	HARDBOARD

- ALTERNATES
1. RESHINGLE EXISTING GYM ROOF
 2. REPLACE EXISTING GYM FLOORING AND BASE
 3. CHANGE IN DATE OF FINAL COMPLETION

ALTERNATES
12" = 1'-0"

SEALANDER ARCHITECTS
79 Main Street, Suite C
Ellsworth ME 04605
207.266.5822

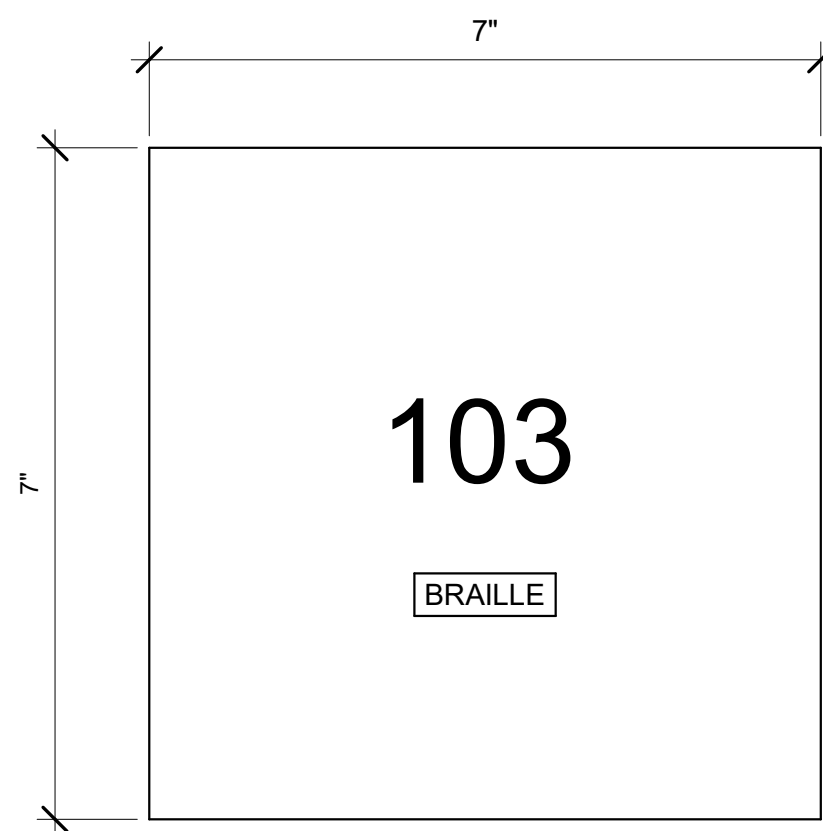


RSU 18
CHINA MIDDLE SCHOOL ADDITION

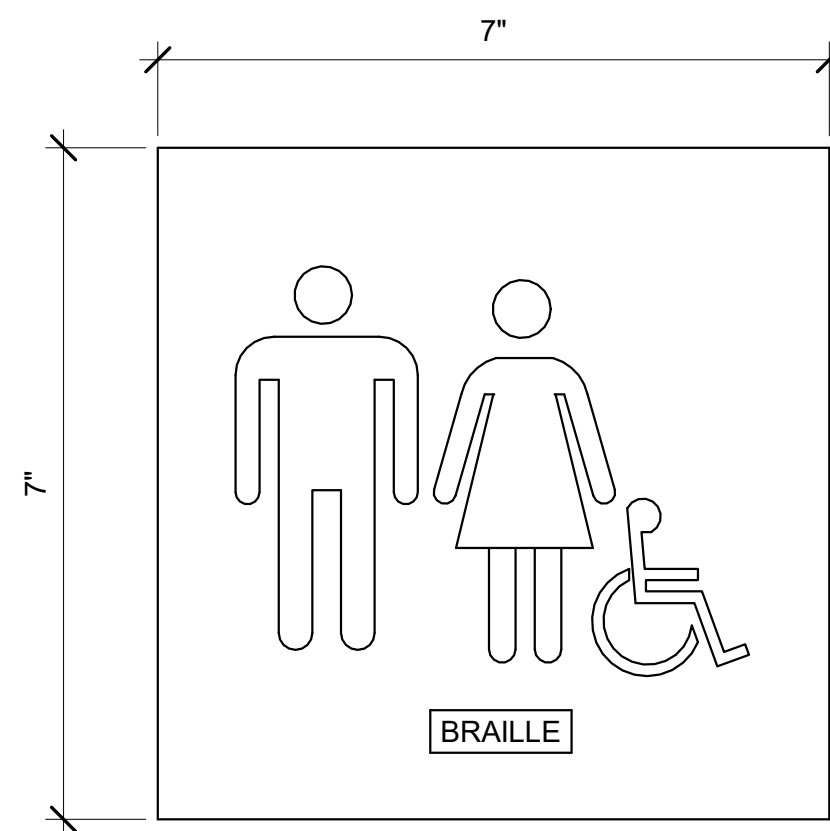
BIDDING
8 APR 2019
4/8/2019 9:14:24 AM

FIRST FLOOR
FINISHES

A-900



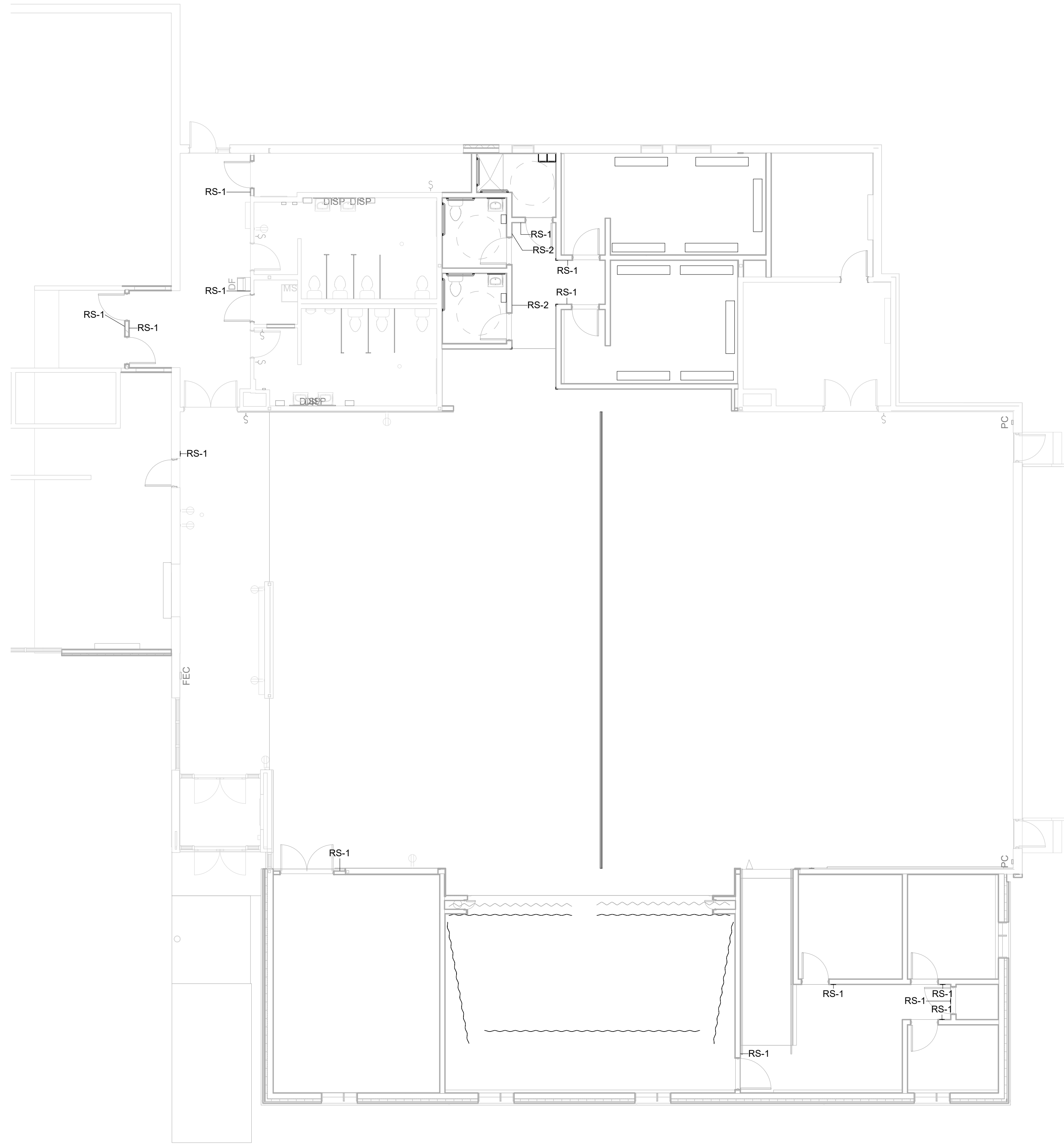
RS1 - ROOM



RS2 - UNISEX

2 SIGNAGE

6" = 1'-0"



1 FLOOR 1 SIGNAGE

A-401 1/8" = 1'-0"

C10 ROOM SIGNS		
Assembly Code	Type Mark	Count
C1030510	RS-1	15
C1030510	RS-2	2
Grand total: 17		

RSU 18

CHINA MIDDLE SCHOOL ADDITION

BIDDING
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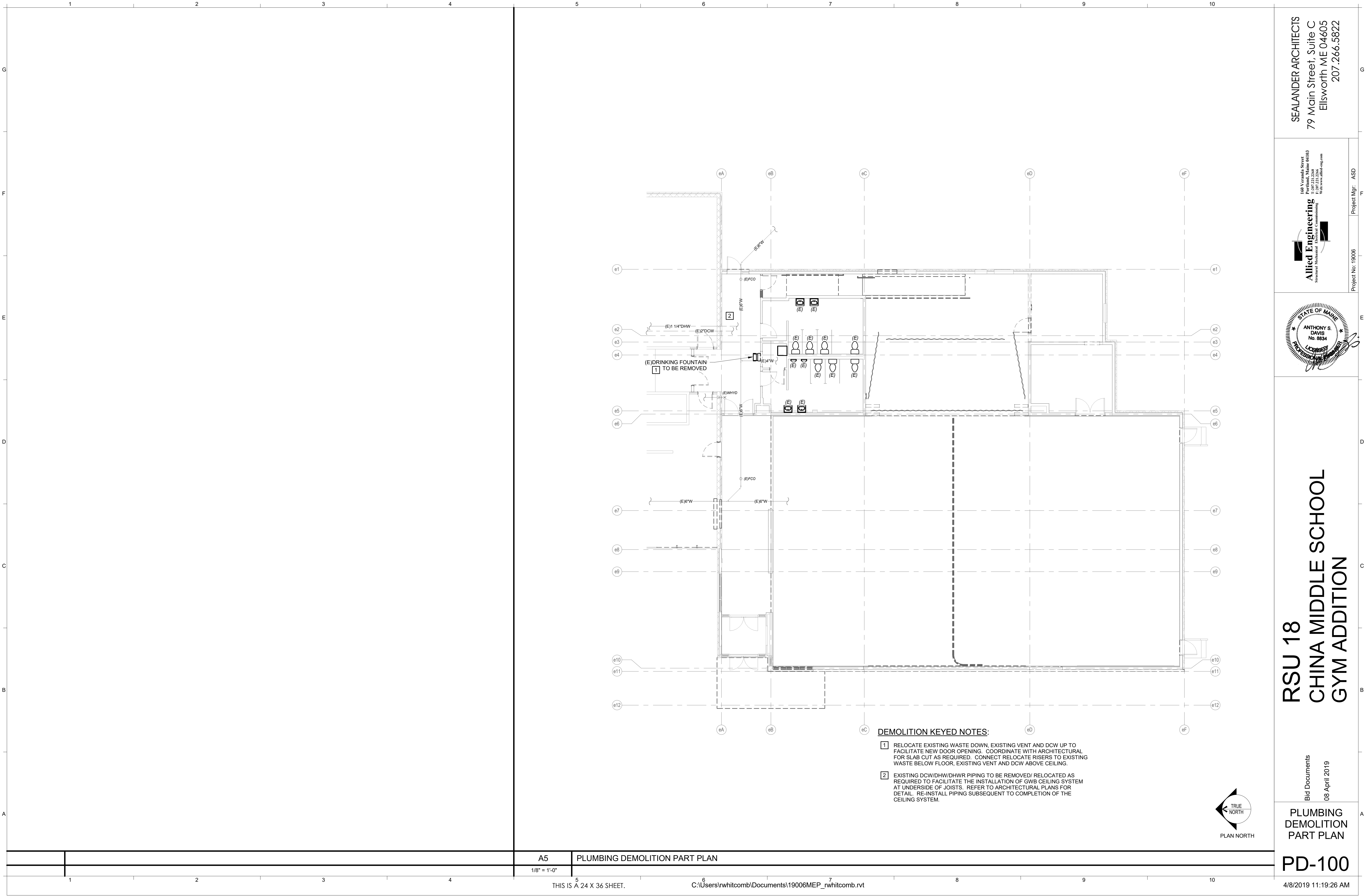
SIGNAGE

A-920



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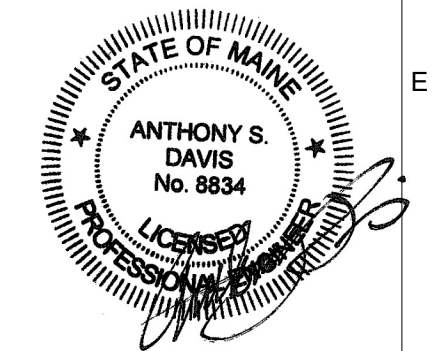
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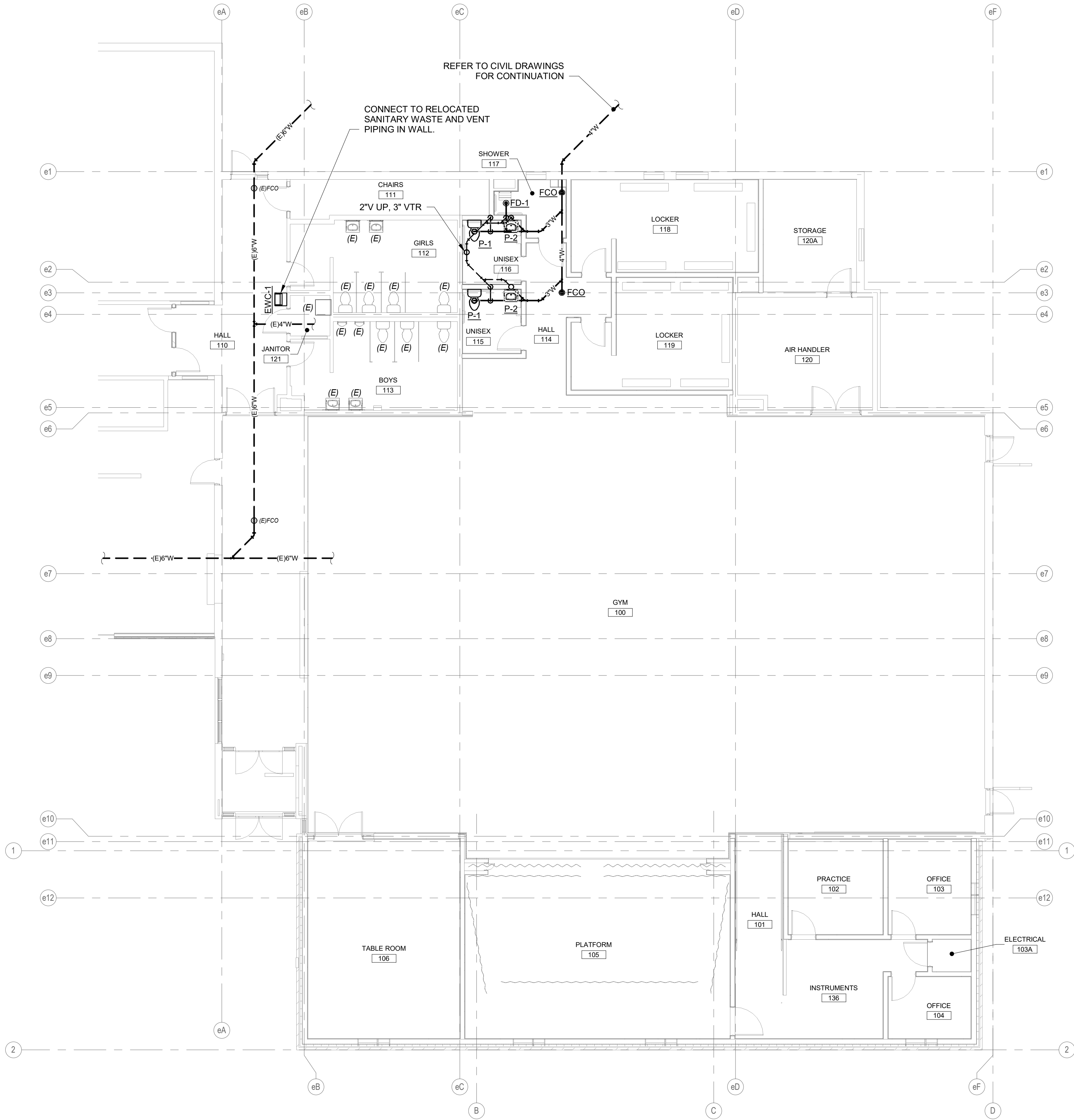
RSU 18
CHINA MIDDLE SCHOOL
GYM ADDITION

Bid Documents
08 April 2019
PLUMBING
DEMOLITION
PART PLAN

PD-100

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PLUMBING FIXTURE SCHEDULE						
TAG	DESCRIPTION	BRANCH SIZES				NOTES
		CW	HW	VENT	WASTE	
P-1	WATER CLOSET - FLUSH VALVE, FLOOR MOUNT	1/2"	-----	2"	3"	FLOOR DRAIN
P-2	LAVATORY, WALL HUNG	3/8"	3/8"	1-1/2"	1-1/2"	
P-3	SHOWER - FIELD BUILT SURROUND	1/2"	1/2"	1-1/2"	2"	
EW-C-1	WATER COOLER - BOTTLE FILLER	3/8"	-----	1-1/4"	1-1/4"	
FD-1	SHOWER DRAIN	1/2"	-----	1-1/2"	2"	
FD-2	LIGHT DUTY FLOOR DRAIN	1/2"	-----	1-1/2"	2"	



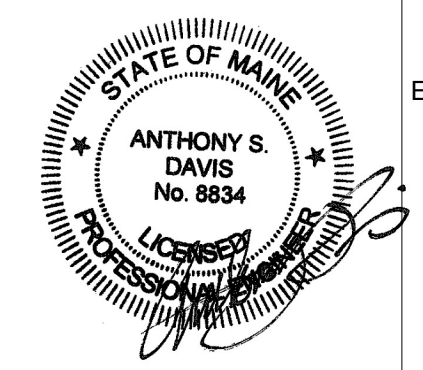
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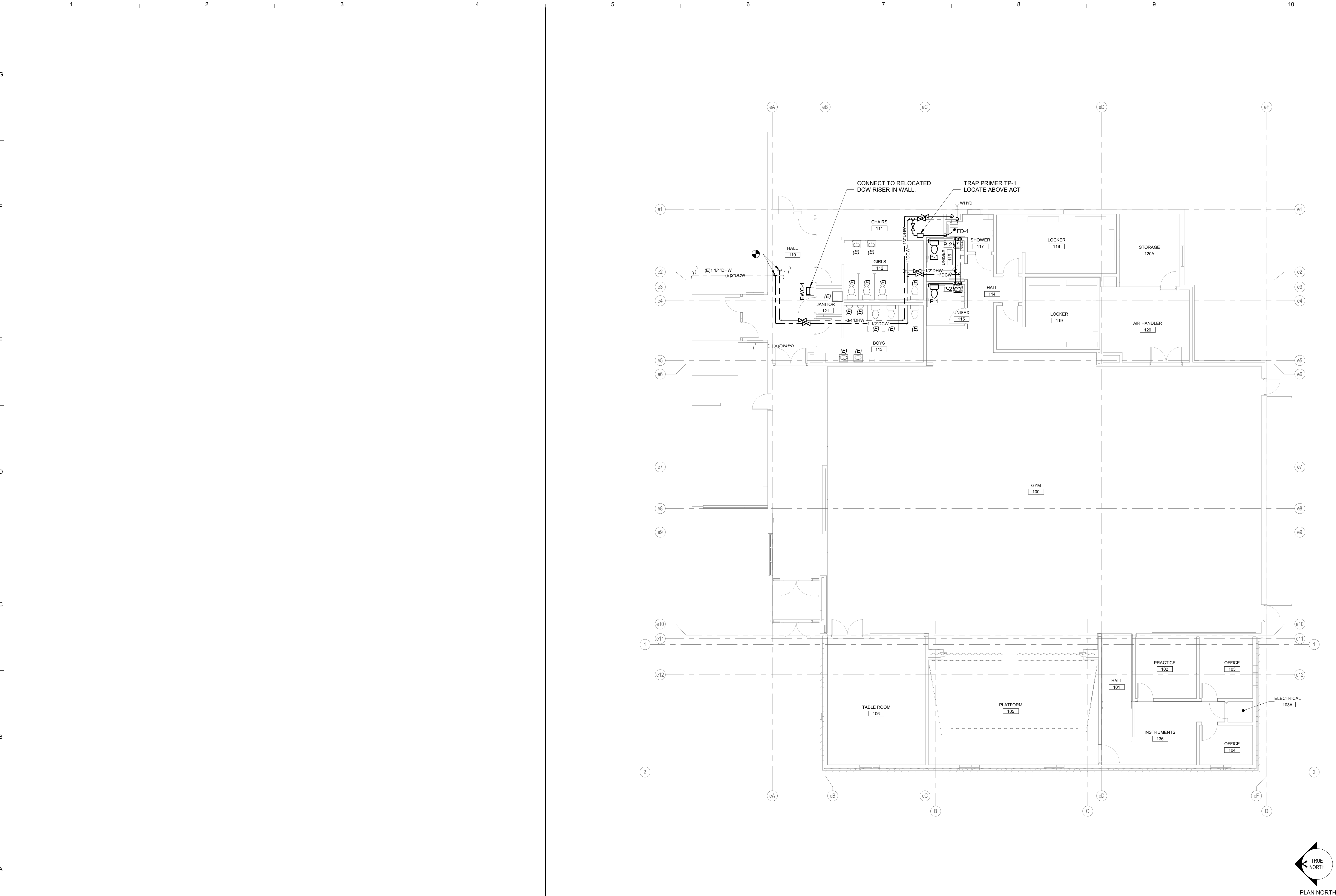


RSU 18 CHINA MIDDLE SCHOOL GYM ADDITION

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**SANITARY
PIPING PART
PLAN AND
DETAILS
PL-100**

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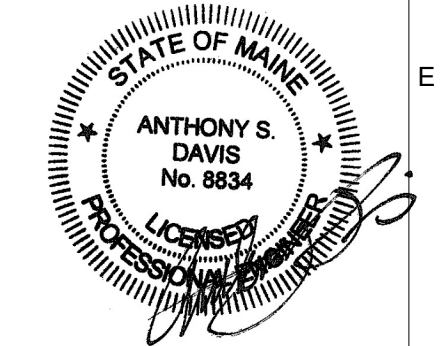
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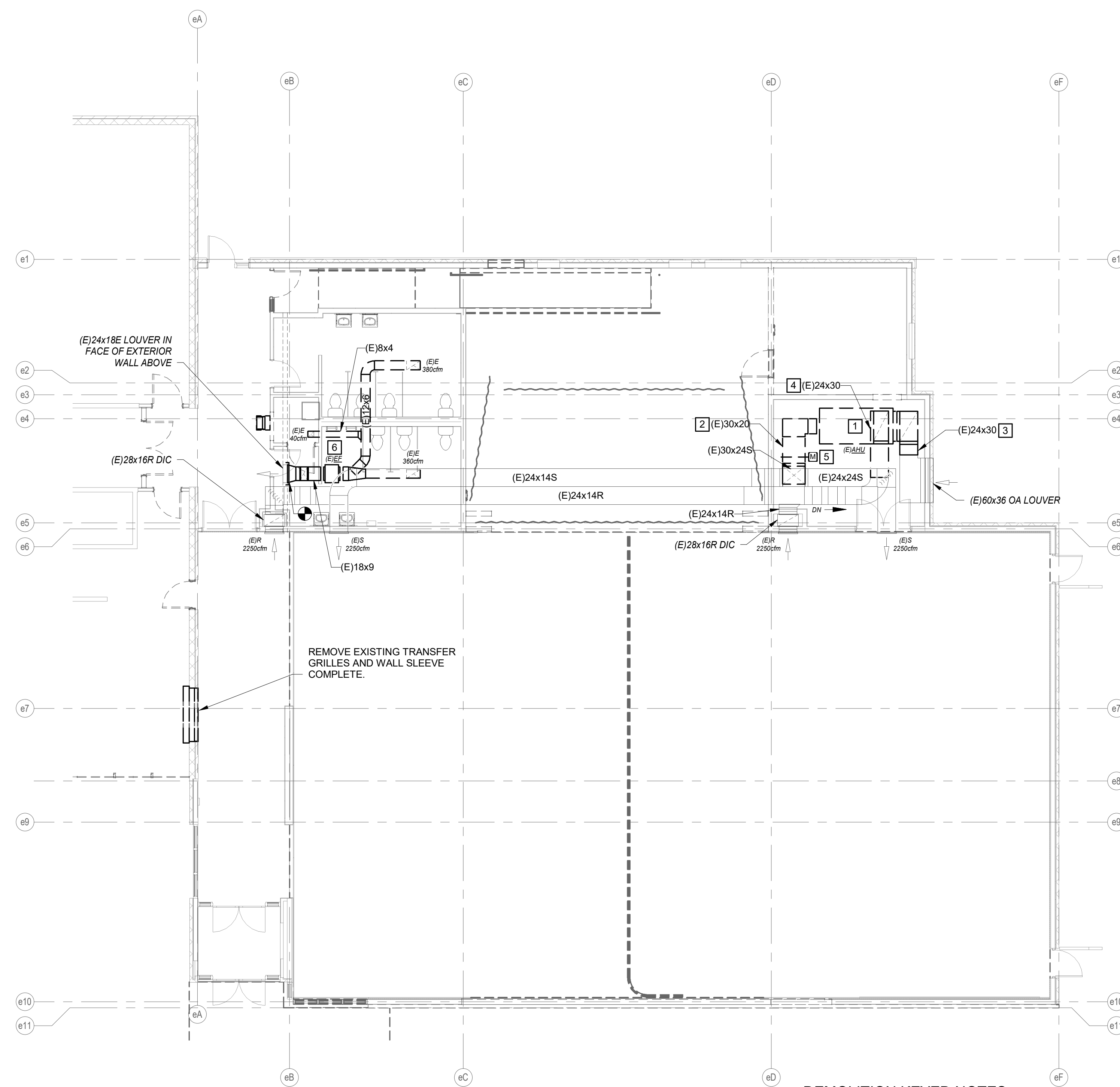


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GYM ADDITION

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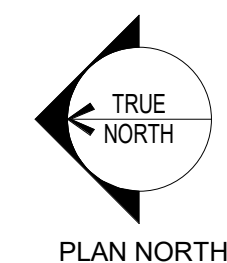
DOMESTIC
PIPING PART
PLAN AND
DETAILS
PL-200

4/8/2019 11:21:25 AM



- DEMOLITION KEYED NOTES:

- 1 REMOVE EXISTING HV-1 UNIT COMPLETE.
- 2 REMOVED EXISTING SUPPLY DUCT.
- 3 REMOVE EXISTING OUTSIDE AIR DUCT.
- 4 REMOVE EXISTING RETURN DUCT RISER TO THE EXTENT NECESSARY TO INSTALL NEW UNIT.
- 5 REMOVE EXISTING MOD.
- 6 REMOVE EXISTING EXHAUST FAN COMPLETE WITH ASSOCIATED DUCT AND GRILLES. CAP (E)EXHAUST DUCT BEHIND (E)LOUVER AND SEAL WEATHERTIGHT.



PLAN NORTH

A5	MECHANICAL DEMOLITION PART PLAN
----	---------------------------------

$$1/8'' = 1'-0''$$

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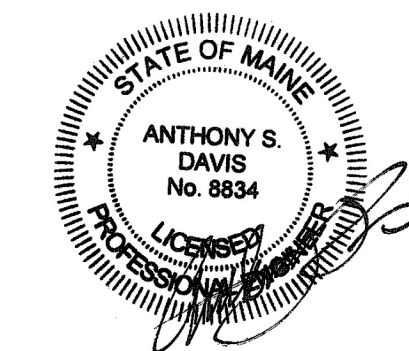
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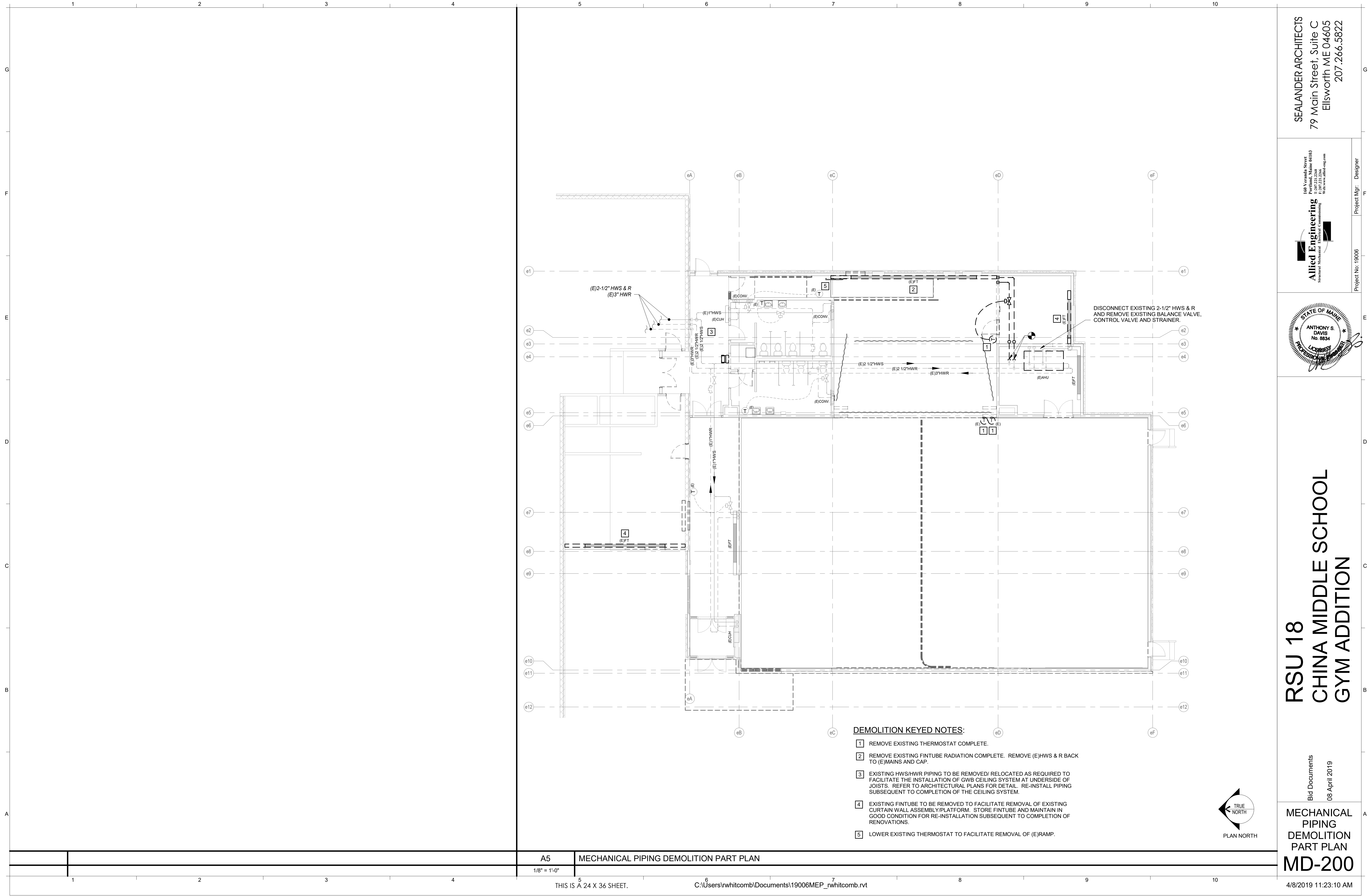
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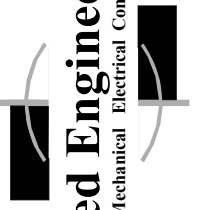
MECHANICAL
DEMOLITION
PART PLAN

MD-100

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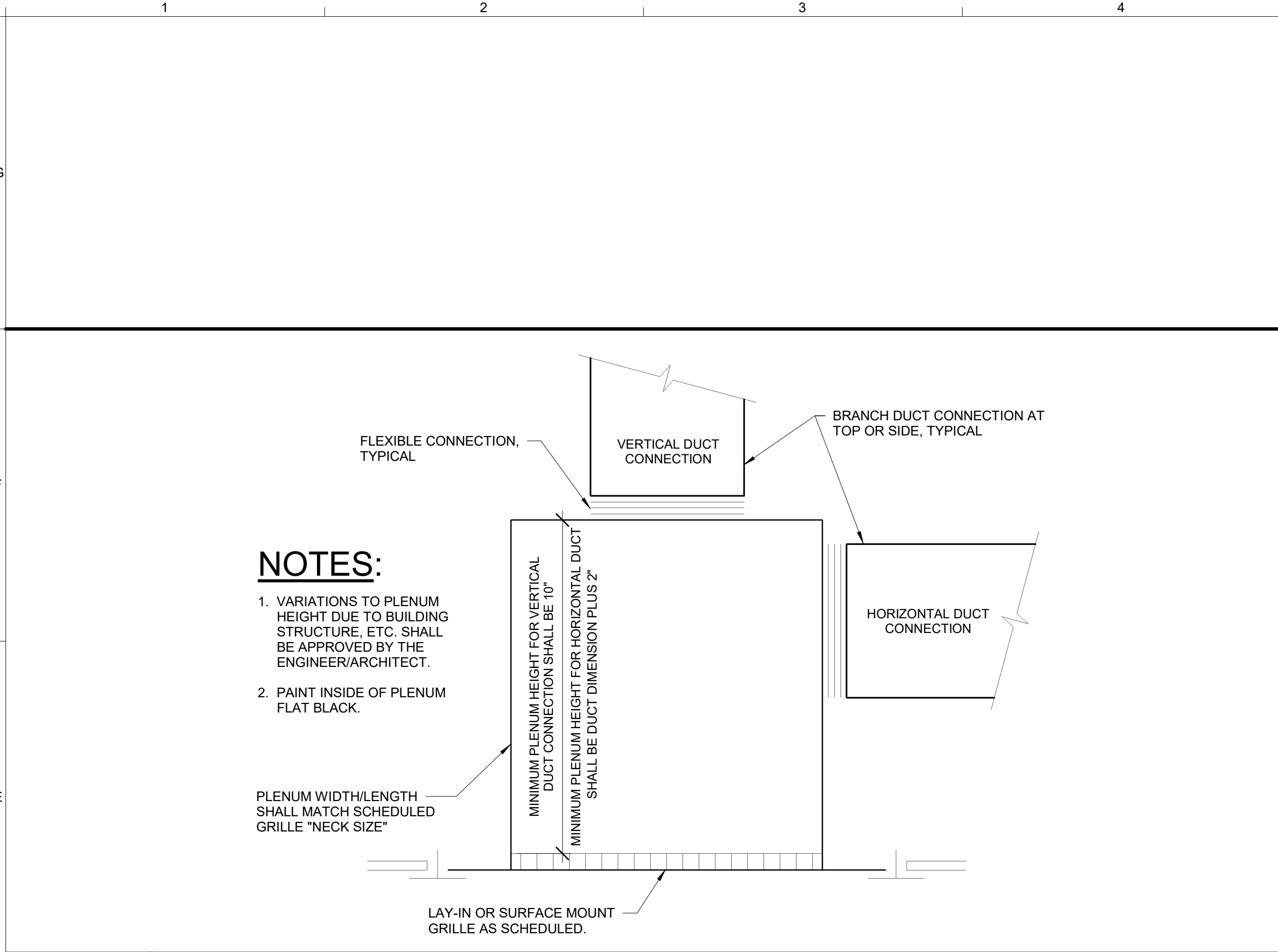


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GYM ADDITION

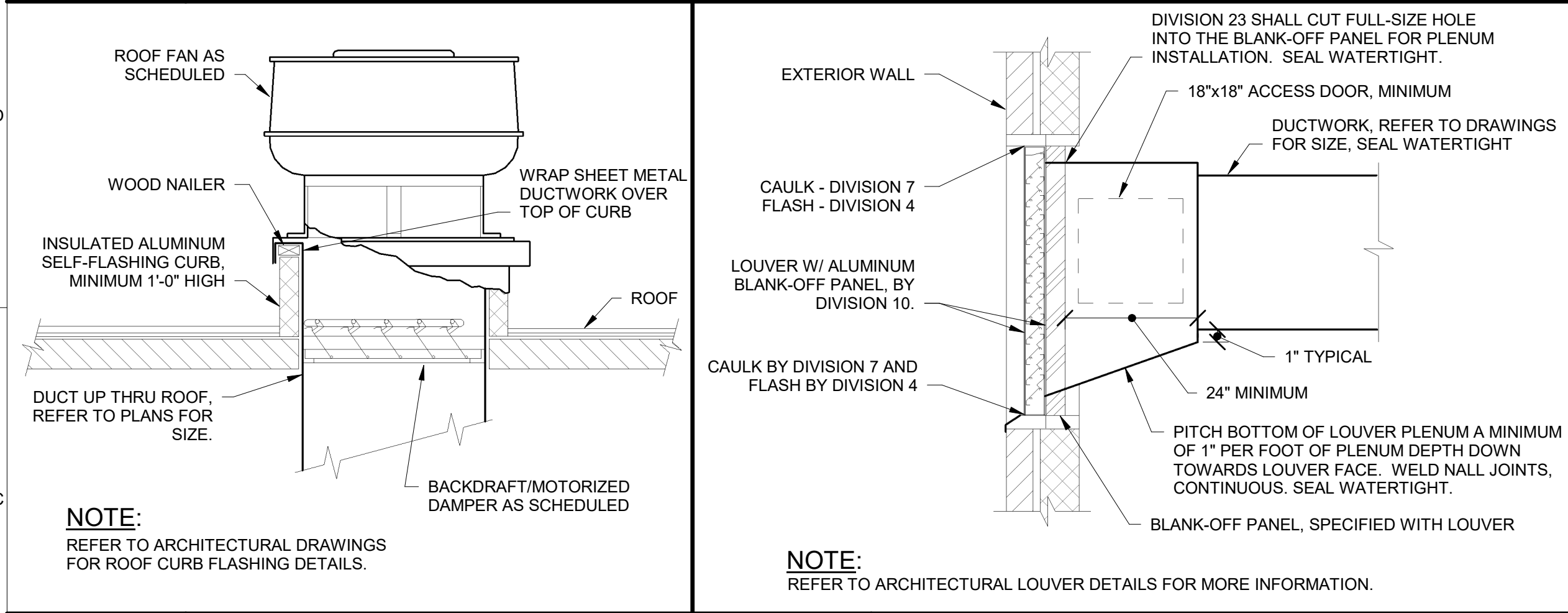
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MECHANICAL
PIPING
DEMOLITION
PART PLAN
MD-200

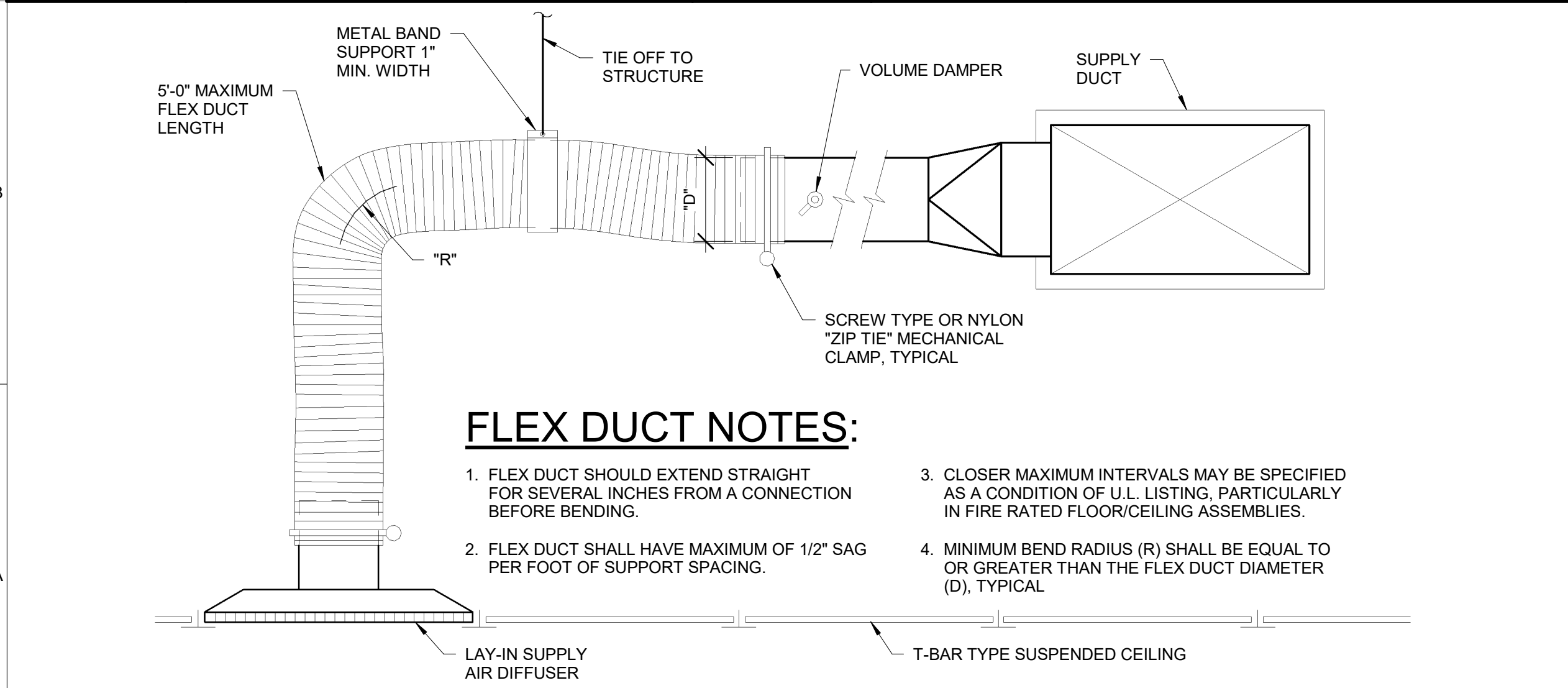
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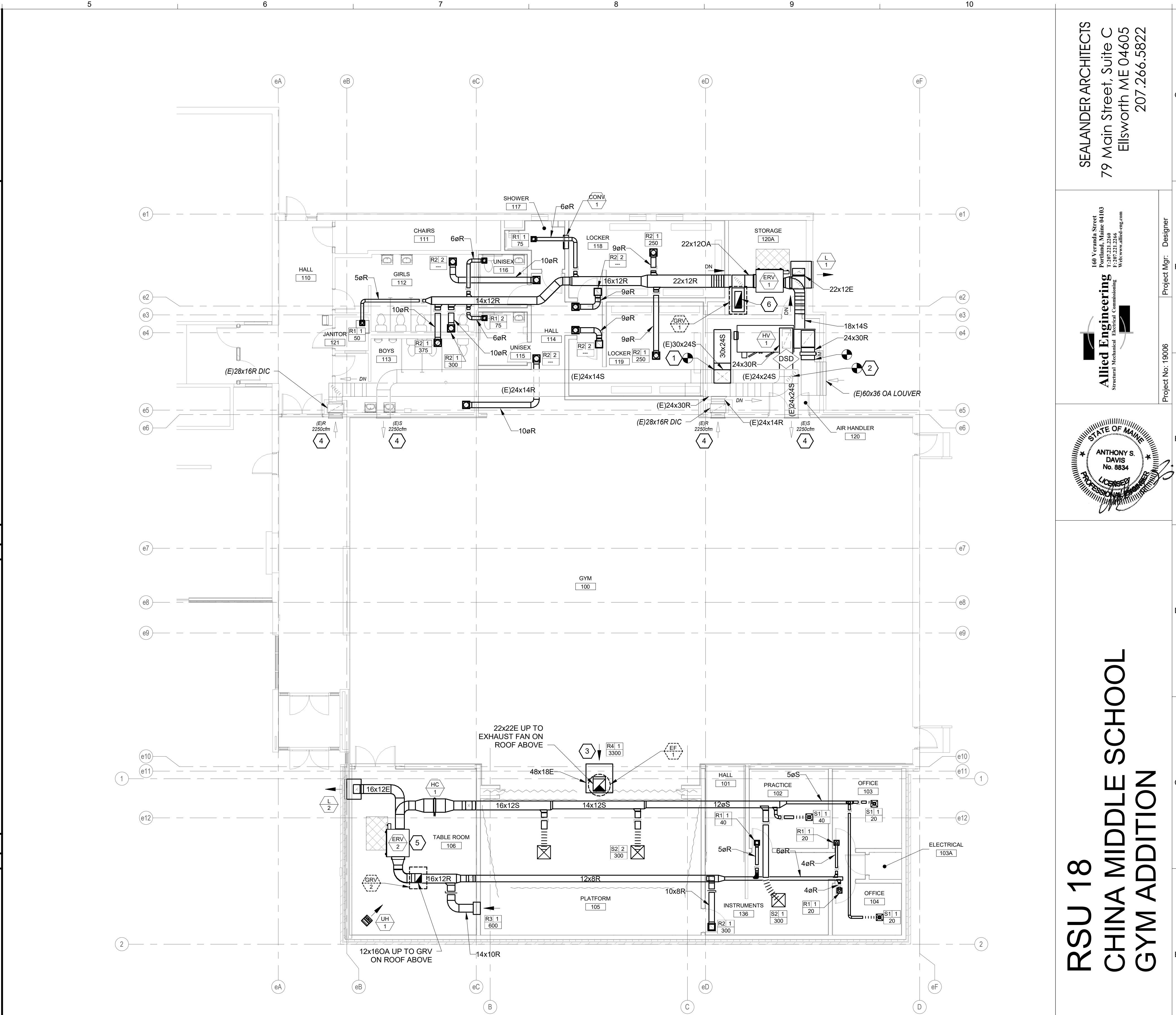
E1 DETAIL - RETURN AIR REGISTER BOOT



C1 DETAIL - ROOF MOUNTED EXHAUSTER C3 DETAIL - EXTERIOR LOUVER



A1 DETAIL - SUPPLY AIR BRANCH CONNECTION

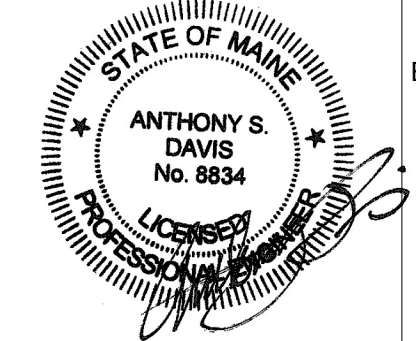


- KEYED NOTES:**
- CONNECT NEW 30x24S ELBOW TO (E)30x24S RISER.
 - CONNECT NEW 24x30R DUCT TO (E)24x30R ELBOW (BELOW (E)24x24S DUCT)
 - MOUNT GRILLE HIGH AS POSSIBLE ON WALL.
 - EXISTING SUPPLY DIFFUSER/RETURN GRILLE TO REMAIN.
 - MOUNT ERV UNIT 10'-0" ABOVE FINISHED FLOOR AND OFFSET DUCTWORK TO INTAKE GRV/EXHAUST LOUVER AND ABOVE HIGH CEILING OVER PLATFORM 105.
 - 12x300A UP TO GRV ON ROOF ABOVE.

A5 MECHANICAL PART PLAN

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RSU 18 CHINA MIDDLE SCHOOL GYM ADDITION

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08 April 2019
**MECHANICAL
PART PLAN**

MH-100

LOUVER SCHEDULE															
TAG	MAKE - MODEL	AIR SYSTEM	DUTY	CFM	HEIGHT (IN.)	WIDTH (IN.)	DIMENSIONS			% FREE AREA	BLADE DEPTH	BEGINNING POINT OF WATER PENETRATION AT 0.01 OZ./SF	MAX P.D. MAX W.C.	SCREEN	NOTES
							MIN. FREE AREA (SF)	GROSS VELOCITY (FT/MIN)	NET VELOCITY (FT/MIN)						
L-1	RUSKIN ELF445DX	ERV-1	EXHAUST	1,400	24	48	3.8	175.0	368.4	47.5%	4"	873 FPM	0.06	SEE SPEC	
L-2	RUSKIN ELF445DX	ERV-2	EXHAUST	980	24	36	2.8	163.3	350.0	46.7%	4"	873 FPM	0.06	SEE SPEC	

CONVECTOR SCHEDULE										
TAG	STERLING MODEL	STYLE		LENGT H	HEIGHT	DEPTH	MBH	GPM	MAX WPD	
CONV-1	PWG-A	PARTIALLY RECESSED		24"	20"	4 1/4"	2.1	0.5	0.2	
<u>NOTES:</u> BASE SIZING ON: 170F AWT, 20F TEMP DROP.										

DUCT HEATING COIL SCHEDULE													
TAG	SERVES	AIRFLOW	LENGTH	HEIGHT	FACE VEL	EDB	LDB	MBH	MAX APD	GPM	EWT	LWT	MAX WPD
HC-1	ERV-2	980	24	12	490	50	70	21.2	0.2"	1.1	180	160	3'
NOTES:													

UNIT HEATER SCHEDULE																	
TAG	SERVES	MFR. -MODEL	SIZE	TYPE	MBH	CFM	EAT (DEG.-F)	LAT (DEG.-F)	GPM	FLUID	EWT	LWT	MOTOR TYPE	MOTOR HP	ELECT	MAX WPD	CONTROL VALVE
UH-1	CHAIR STORAGE	TRANE UHS	36	HORIZ. UH	16.8	550	60	88.3	1.6	WATER	160	130.0	TEAO	1/15	120-1-60	0.1	3-WAY
NOTES: 1. POWER WIRING TO UNIT HEATER BY DIV 26. ALL LOW VOLTAGE CONTROL WIRING, THERMOSTAT, RELAYS, AND TRANFORMERS BY DIV. 23. DISCONNECT SWITCH: PROVIDE BY UNIT HEATER MANUFACTURER.																	

FINNED TUBE RADIATION SCHEDULE (HOT WATER)														
TAG	STERLING MODEL No.	GRADE	ENCLOSURE HEIGHT	MOUNTING HEIGHT, TOP ...	DEPTH FROM...	No. OF TIERS	BTU / FT	GPM	AWT	EAT	ELEMENT	FIN DIMENSIONS	FINS/FT.	NOTES
FT-A	VERSALINE JVA	COMMERCIAL	14"	18"	4-3/8"	1	1,120	1.0	170	65	3/4" COPPER/ALUM	4-1/4" X 3-5/8"	50	
NOTES:														
1. PROVIDE RETURNS WITHIN ENCLOSURE WHERE APPLICABLE.														

FAN SCHEDULE															
TAG	SERVES	MFR.	MODEL	TYPE	DRIVE	CFM	SP (IN. WC.)	MOTOR HP	SPEED CONTROL	DISC. SWITCH FURN BY	VOLTS/PH	MAX SONES	WEIGHT (LBS.)	DAMPER	NOTES
EF-1	GYM	COOK	ACRU-D 210R08D	ROOF-UPBLAST	DIRECT	3,300	.5"	0.8	YES-VFD	FAN MFR	208/3/60	8.4	129	MOD	

GRAVITY ROOF VENTILATOR SCHEDULE																
TAG	MAKE - MODEL	ASSOCIATED AIR SYSTEM	INTAKE OR RELIEF?	CFM	HOOD DIMENSIONS				THROAT DIMENSIONS			NUMBERS OF TIERS	MAX P.D. MAX W.C.	SCREEN	WEIGHT LBS	ROOF CURB
					LENGTH (in.)	WIDTH (in.)	HEIGHT (in.)	MIN. FREE AREA (SF)	LENGTH (in.)	WIDTH (in.)	MIN. FREE AREA (SF)					
GRV-1	COOK GI	ERV-1	INTAKE	1,400	51	32	12	7.2	30.0	12	2.5	NA	0.02	SEE SPEC	121	30"
GRV-2	COOK GI	ERV-2	INTAKE	980	39	31	12	5.5	18.0	12	1.5	NA	0.02	SEE SPEC	101	30"

REGISTERS - GRILLES - DIFFUSERS (RGD) SCHEDULE											
TAG	MFR.	MODEL	TYPE	NECK SIZE	FACE SIZE	MAX CFM	MAX TOTAL P.D. (IN.W.C.)	MAX NC LEVEL	BORDER TYPE	BLOW	NOTES
S-1	PRICE	SMDA	SQ. CEILING SUPPLY DIFFUSER, ADJUSTABLE	6 X 6 / 6" DIA	12" X 12"	100	0.07"	15	LAY-IN		ROUND NECK ADAPTER
S-2	PRICE	SMDA	SQ. CEILING SUPPLY DIFFUSER, ADJUSTABLE	12 X 12 / 10" DIA	24" X 24"	370	0.07"	17	LAY-IN		ROUND NECK ADAPTER
R-1	PRICE	530	STEEL RETURN, 3/4" SPACING, 45 DEG VANES	8" X 8"	9.75" X 9.75"	110	0.05"	20	SURFACE MT.	-----	6" DIA RUNOUT
R-2	PRICE	530	STEEL RETURN, 3/4" SPACING, 45 DEG VANES	12" X 12"	13.75" X 13.75"	375	0.05"	20	SURFACE MT.	-----	10" DIA RUNOUT
R-3	PRICE	530	STEEL RETURN, 3/4" SPACING, 45 DEG VANES	22" X 10"	23.75" X 13.75"	600	0.05"	20	LAY-IN	-----	12" DIA RUNOUT
R-4	PRICE	530	STEEL RETURN, 3/4" SPACING, 45 DEG VANES	48" X 18"	49.75" X 19.75"	3,300	.09"	26	SURFACE MT.	-----	26" X 18" RUNOUT

AIR HANDLING UNIT SCHEDULE				
GENERAL	TAG	HV-1		
	DUTY	AIR HANDLER 128		
	DESIGN EQUIPMENT	YORK SOLUTION		
ELECTRICAL	WEIGHT (LBS)	1,312		
	VOLTAGE	208-3-60		
	MOTOR EFFICIENCY	PREMIUM		
	VFD FURNISHED BY	NA		
	DISCONNECT SW. FURN BY	AHU MFR.		
	SMOKE DETECTOR (SD)	NOT REQUIRED		
	SD'S FURN BY	NA		
	SD'S INSTALLED IN DUCT BY	NA		
	SD'S WIRED TO HVAC CONTROL....	NA		
1- AIR MIXING SECTION	SD'S WIRED TO FIRE ALARM BY	NA		
	RA DAMPER	TOP, PARALLEL BLADE		
2 - FILTER SECTION	OA DAMPER	BACK, PARALLEL BLADE		
	TYPE	4" DEPTH, MERV 8		
3 - AIR BLENDER	MODULE PD, in. wc. - MID-LIFE	0.5"		
	MIN. AREA, SF	12.0		
	VELOCITY, FPM	375		
	4 - HEATING COIL		NOT REQUIRED	
	EAT, deg-F.	25		
	LAT, deg-F.	92		
	TMBTUH	329		
	MIN COIL AREA, sf.	7.5		
	MAX AIR PD. in. wc.	0.2		
	COIL FACE VELOCITY	600		
	FLUID	WATER		
	EWT, deg-F	180		
	LWT, deg-F	160		
	GPM	36.4		
	WATER PD, ft-H2O	5.8		
	5 - ACCESS SECTION		YES - 18"	
	7 - ACCESS SECTION		YES - 18"	
	8 - SUPPLY FAN	DIAMETER - TYPE	FORWARD CURVE	
CFM STD. AIR		4,500		
MIN. OA CFM - VIA ERV-1		1,400		
OA CFM - MAX CO2 CONTROL		3,000		
ESP, in.wc.		2"		
TSP, in. wc.		2.95"		
MAX-BHP		4.46		
MOTOR HP		5		
VOLTAGE		208/3		
MCA		17.5		
MOP		30		
STARTER OR VFD		STARTER		
9 - DISCHARGE PLENUM			NOT REQUIRED	

ENERGY RECOVERY UNIT SCHEDULE			
GENERAL	TAG	ERV-1	ERV-2
	SERVES		
	LOCATION		
	TYPE	FIXED-PLATE ENTHALPIC	FIXED-PLATE ENTHALPIC
	MFR	RENEWAIRE	RENEWAIRE
	MODEL	HE2XINH	HE2XINH
	FILTERS	2" MERV 8	2" MERV 8
FILTER SECTION (TYP-2, SUPPLY & EXH)	MIN. AREA, sf	11.1	11.1
	VELOCITY	126	88
	VELOCITY	126	88
OUTSIDE AIR FAN	TYPE	FC	FC
	AIRFLOW, cfm	1,400	980
	ESP, in.wc.	1.5"	1.25"
MOTOR SPEEDS	VFD	VFD	VFD
	HP	2	1.5
	HP	2	1.5
EXHAUST AIR FAN	TYPE	FC	FC
	AIRFLOW, cfm	1,400	980
	ESP, in.wc.	1.5"	1.25"
MOTOR SPEEDS	VFD	VFD	VFD
	HP	2	1.5
	HP	2	1.5
OVERALL DIMENSIONS	LENGTH	64 1/2"	64 1/2"
	WIDTH	43"	43"
	HEIGHT	35 1/2"	35 1/2"
OPERATING WEIGHT, lbs.	714	714	714
	SUMMER OA DB/WB	88 / 72	88 / 72
	WINTER OA DB	0	0
SUMMER SA DB/WB	78.5 / 72.9	78.5 / 72.9	78.5 / 72.9
	WINTER SA DB	52.8	52.8
	SENSIBLE EFFECTIVENESS	72.0%	75.0%
SUMMER ENTHALPY EFF.	54.0%	60.0%	60.0%
	WINTER ENTHALPY EFF.	64.0%	70.0%
	FROST CONTROL	NONE REQUIRED	NONE REQUIRED
ELECTRICAL DATA	V-PH-HZ	208/3/60	208/3/60
	UNIT FLA	6.6/MOTOR	4.8/MOTOR
	UNIT MCA	14.9	10.8
	MAX FUSE SIZE	20A	15A
	SUPPLY AND RETURN SMOKE DETECTORS	NONE REQUIRED	NONE REQUIRED
MOD	OUTSIDE AIR	YES, UNIT MOUNTED	YES, UNIT MOUNTED
	EXHAUST AIR	YES, UNIT MOUNTED	YES, UNIT MOUNTED

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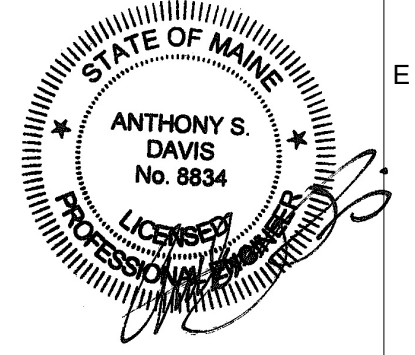
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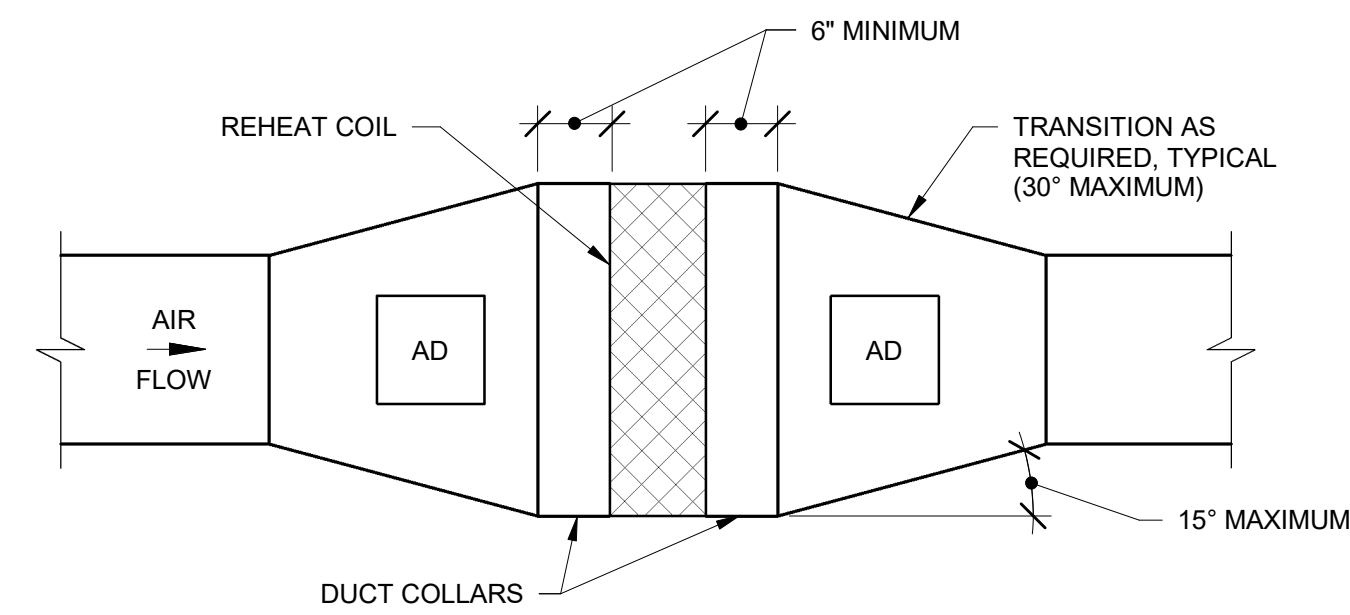


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GYM ADDITION

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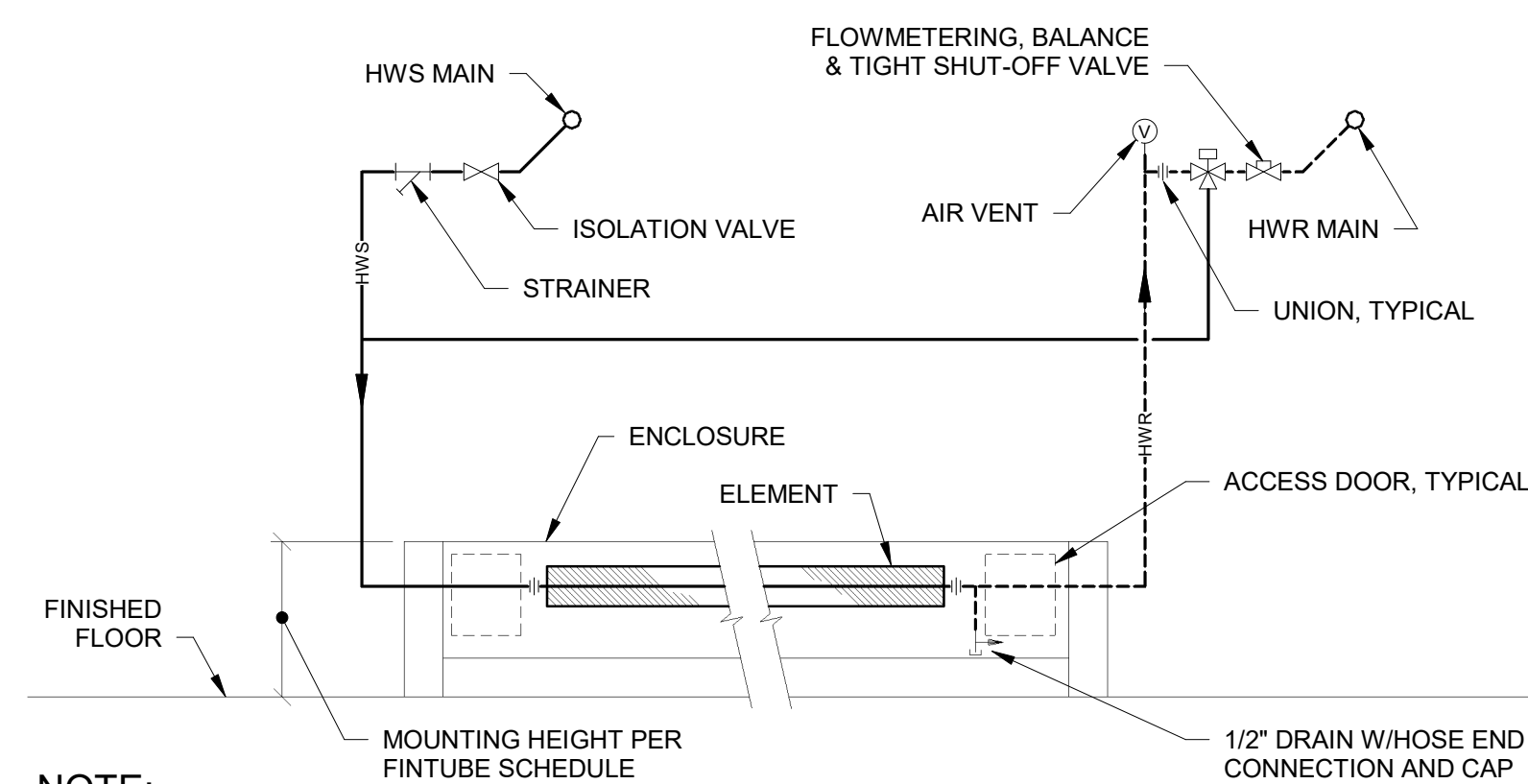
MECHANICAL
SCHEDULES

MH-600



F1	DETAIL - REHEAT COIL DUCT CONNECTION
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NOT TO SCALE

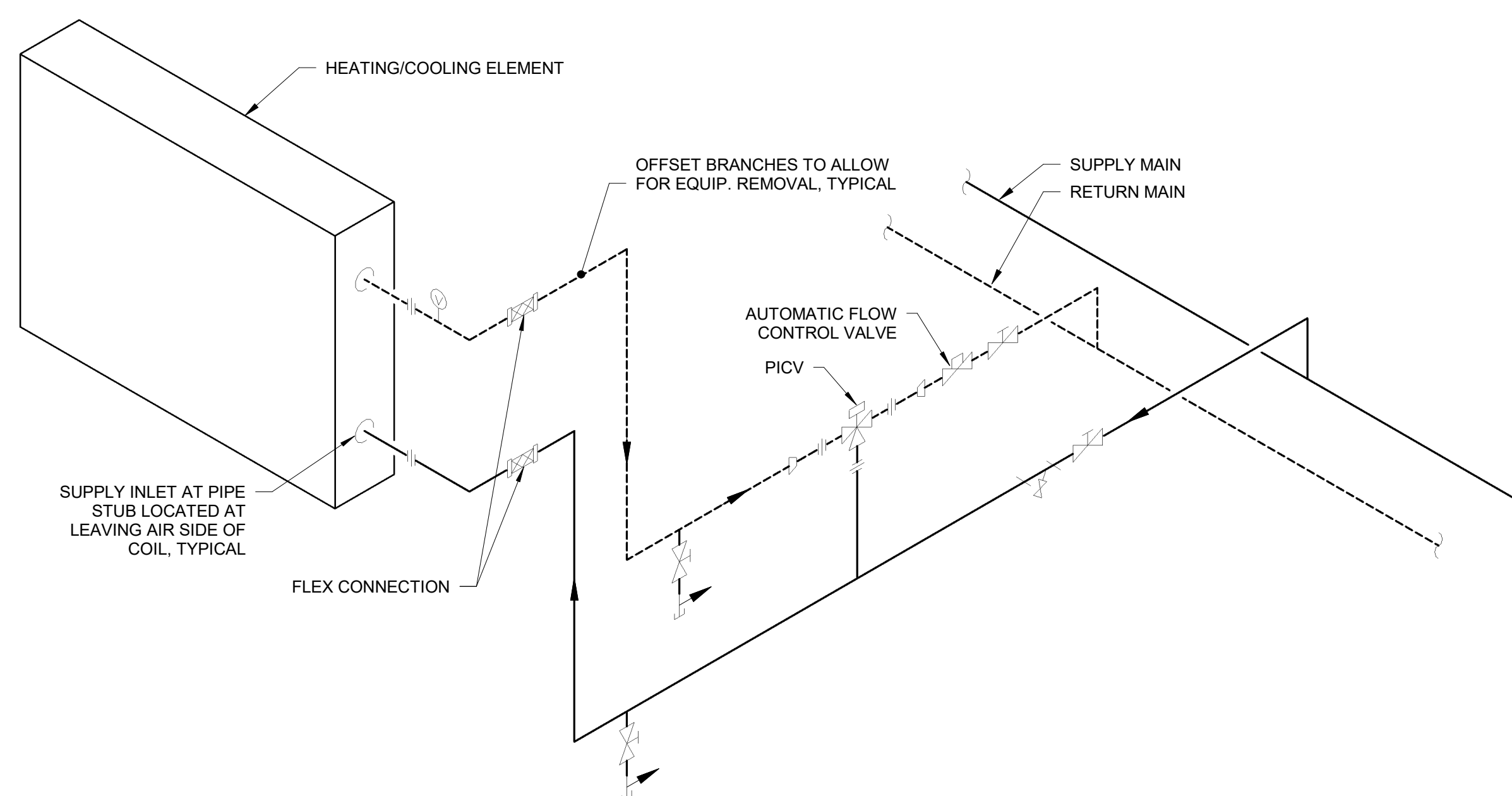


NOTE:

PITCH ELEMENTS UP IN DIRECTION OF FLOW

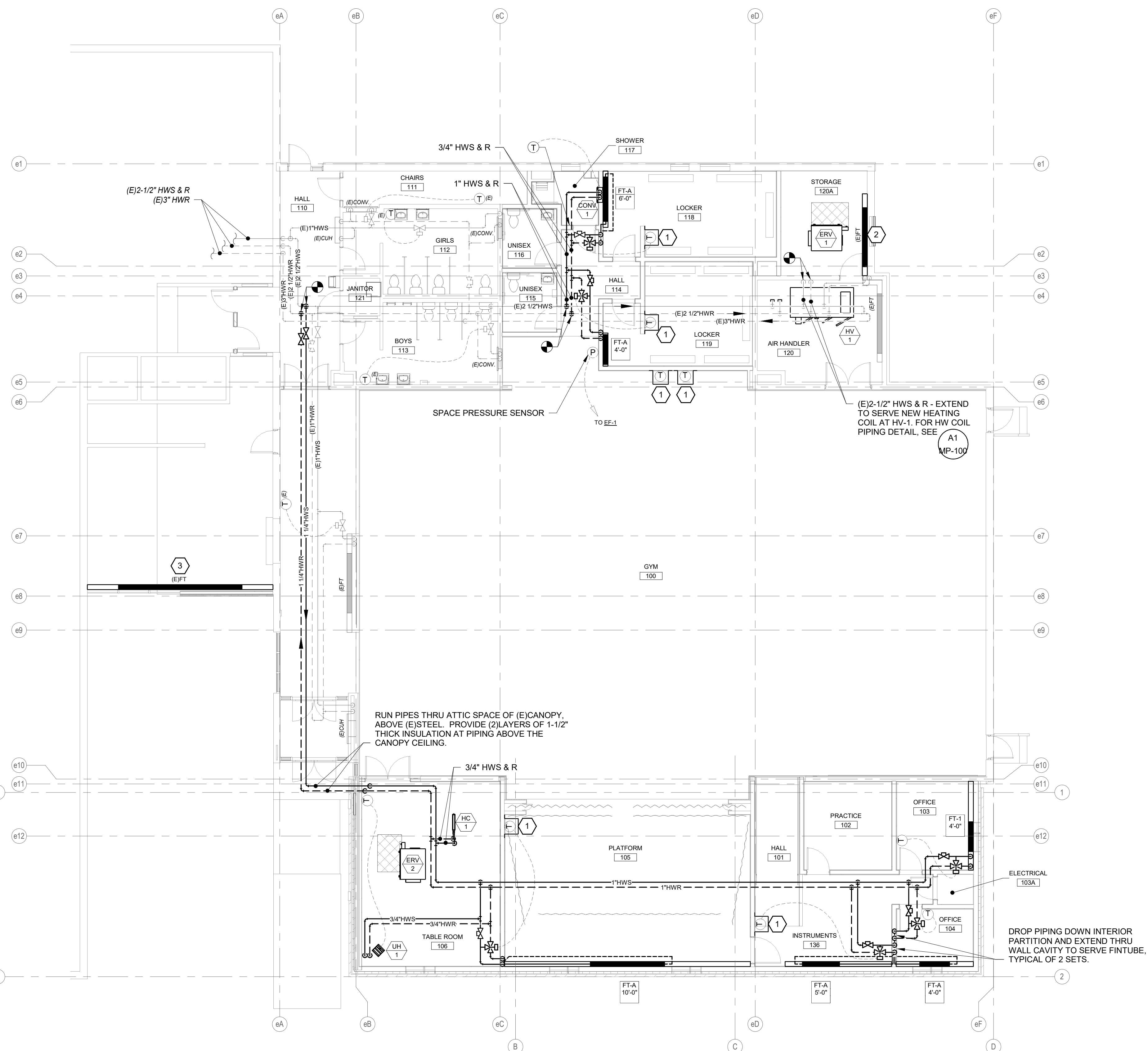
D1	DETAIL - FINTUBE PIPING
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NOT TO SCALE



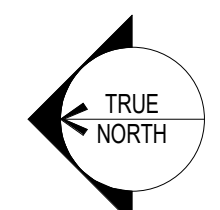
A1	DETAIL - HYDRONIC COIL PIPING SCHEMATIC - 3-WAY VALVE
----	---

NOT TO SCALE



KEYED NOTES:

- 1 PROVIDE GUARD AT TEMPERATURE SENSOR, AS SPECIFIED.
- 2 EXISTING FINTUBE RELOCATED TO FINISHED FLOOR ELEVATION
SUBSEQUENT TO REMOVAL OF THE EXISTING PLATFORM. EXTEND
EXISTING HWS/HWR PIPING AS REQUIRED.
- 3 EXISTING FINTUBE RELOCATED SUBSEQUENT TO CURTAIN WALL
REPLACEMENT. REVISED EXISTING HWS/HWR PIPING AS REQUIRED
TO MAKE FINTUBE FUNCTIONAL.



A5	MECHANICAL PIPING PART PLAN
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$$1/8'' = 1'-0''$$

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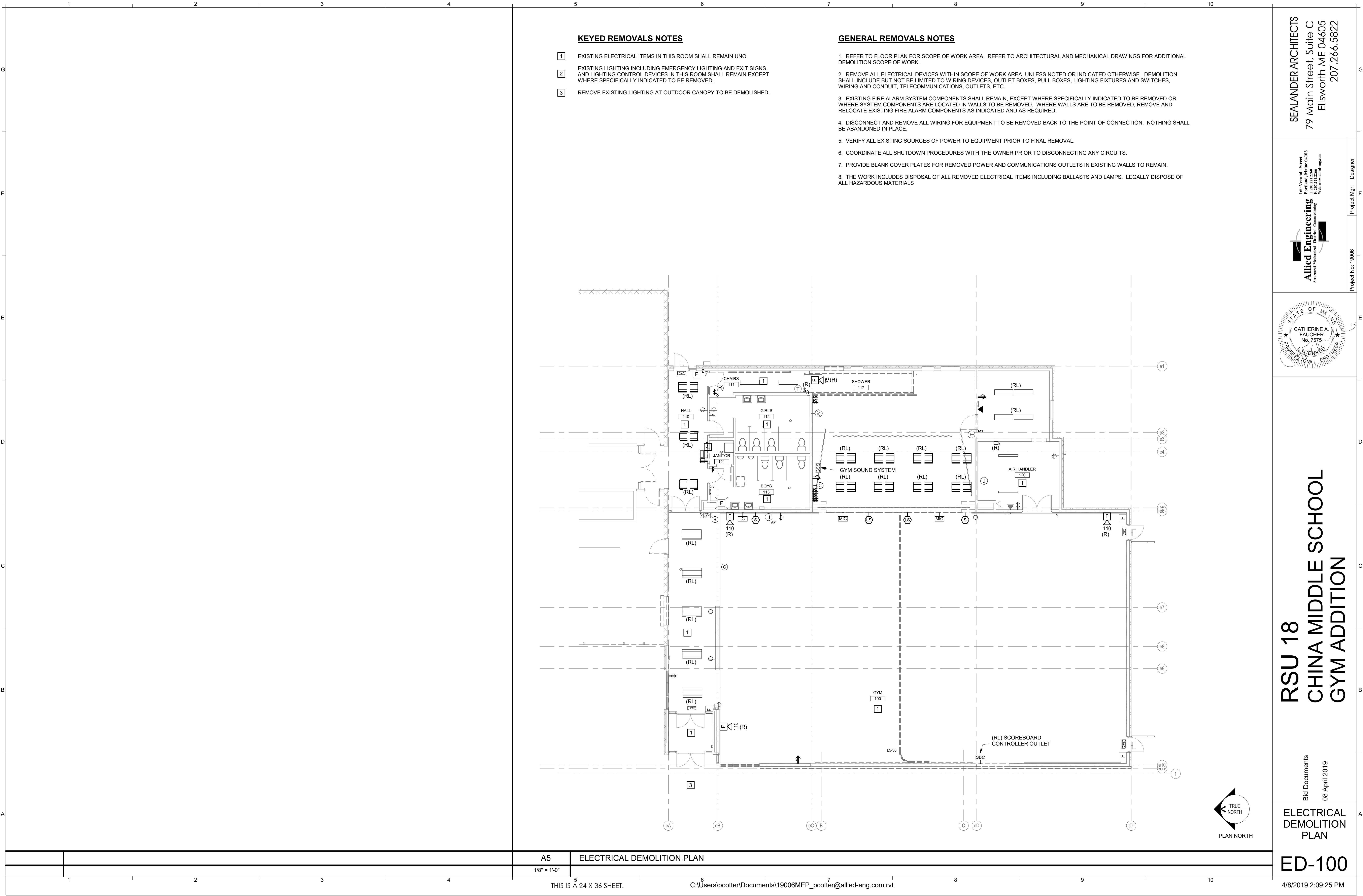
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MECHANICAL
PIPING PART
PLAN

MP-100

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1				2				3				4				5				6				7				8				9				10															
A	AMPERE	MC	MICROPHONE	PROJECT NOTES												INSTALLATION COORDINATION NOTES												WIRING NOTES												SYSTEM POWER WIRING NOTES											
AC	ALTERNATING CURRENT	MW	MICROWAVE	1. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED UNLESS OTHERWISE SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS, AND COORDINATION WITH ALL TRADES SCOPE OF WORK AS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING BOTH THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLIMENTARY. WORK REQUIREMENTS INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK, UNLESS SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS.												1. PRIOR TO ROUGH-IN OF ELECTRICAL PROVISIONS FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT PROVIDED BY OTHER TRADES, COORDINATE WITH THE GENERAL CONTRACTOR, EQUIPMENT SHOP DRAWINGS AND APPLICABLE EQUIPMENT INSTALLER FOR EXACT LOCATION AND WIRING REQUIREMENTS. PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND ACCESSORIES FOR A COMPLETE INSTALLATION. MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E. POWER, CONTROL, INTERLOCK, ETC.												1. UNLESS OTHERWISE INDICATED ON PLANS OR IN SPECIFICATIONS; ALL CONDUCTORS, POWER DISTRIBUTION EQUIPMENT BUSSING AND TRANSFORMER WINDINGS SHALL BE FABRICATED OF 98% CONDUCTIVE COPPER MATERIAL.												1. ALL VIDEO PROJECTOR, CAMERA AND MONITOR POWER OUTLETS AND THEIR ASSOCIATED COMPUTER POWER OUTLETS FEEDING THE VIDEO SOURCE ARE TO BE CONNECTED TO THE SAME PHASE TO ELIMINATE THE POTENTIAL FOR VIDEO INTERFERENCE BETWEEN VIDEO SOURCE AND EQUIPMENT. COORDINATE ALL POWER WIRING FOR SYSTEM EQUIPMENT WITH THE SYSTEM INSTALLER PRIOR TO INSTALLATION.											
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUG ONLY	2. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.												2. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF ELECTRICAL CONTRACTORS AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS TO BE REMOVED.												2. WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.												RECEPTACLE COLOR CODE NOTES UNLESS OTHERWISE INDICATED PROVIDE 20A HEAVY DUTY GRADE RECEPTACLES WITH COLOR CODE AS FOLLOWS:											
AFG	ABOVE FINISHED GRADE	MT	MOUNT	3. WORK AT A MINIMUM SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE ELECTRICAL CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY CODE AND AUTHORITIES. DO NOT INSTALL WORK THAT DOES NOT MEET THE MINIMUM REQUIREMENTS. IF NECESSARY, REQUEST CLARIFICATION FROM ARCHITECT AND ENGINEER BEFORE PROCEEDING.												3. ELECTRICAL EQUIPMENT, RACEWAYS AND OUTLETS MOUNTED TO AND OR INSTALLED IN OWNER FURNISHED FURNITURE SHALL BE COORDINATED WITH THE EQUIPMENT AND FURNITURE INSTALLERS AND THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN. EXCEPT WHERE INDICATED OR REQUIRED OTHERWISE.												3. BRANCH CIRCUIT WIRING NOT SHOWN. CIRCUITING SHALL IN ACCORDANCE WITH APPLICABLE CODES AND STANDARD PRACTICE. PROVIDE A 20A, 1P CIRCUIT BREAKER FOR EACH LIGHTING AND RECEPTACLE CIRCUIT UNLESS OTHERWISE INDICATED OR NOTED. CONNECT NO MORE THAN SIX DUPLEX CONVENIENCE RECEPTACLES PER BRANCH CIRCUIT. CONNECTED LOAD ON LIGHTING CIRCUITS SHALL NOT EXCEED 12 AMPS.												1. ON GENERATOR POWER – RED 2. ON UPS POWER – BLUE 3. ISOLATED GROUND – ORANGE 4. ON NORMAL POWER – IVORY OR AS SELECTED BY ARCHITECT											
AHU	AIR HANDLING UNIT	MTS	MANUAL TRANSFER SWITCH	4. ALL COMPONENTS SHOWN ON THE RISER DIAGRAMS OR DETAILS, BUT NOT ON THE PLAN OR VICE VERSA SHALL BE INCLUDED AS IF SHOWN ON BOTH.												4. THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.												4. ALL WIRING SHALL BE RUN CONCEALED UNLESS SPECIFIED OTHERWISE. ALL EXPOSED WIRING INCLUDING THAT WHICH IS INSTALLED ABOVE BUT IS VISIBLE FROM BELOW, PARTIALLY OR FULLY OPEN CEILING, SHALL BE INSTALLED IN CONDUIT OR RACEWAYS. REFER TO SPECIFICATIONS FOR ACCEPTABLE WIRING METHODS.												RECEPTACLE COLOR CODE NOTES UNLESS OTHERWISE INDICATED PROVIDE 20A HEAVY DUTY GRADE RECEPTACLES WITH COLOR CODE AS FOLLOWS:											
AIC	AMPERES INTERRUPTING CAPACITY	MCP	MOTOR CONTROL PANEL	5. IF EXACT LOCATION, MOUNTING OR RACEWAY ROUTING ARE NOT INDICATED OR ARE NOT CLEAR OR CONFLICT (LOCATION OR HEIGHT) COORDINATE WITH OTHER TRADES AND REQUEST CLARIFICATION PRIOR TO ROUGH-IN OR INSTALLATION. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OR EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.												5. WHERE LOADS ARE ADDED TO EXISTING BRANCH CIRCUITS, VERIFY THAT THE EXISTING CIRCUITS HAVE ADEQUATE CAPACITY TO SUPPORT THE ADDITIONAL LOAD WITHOUT EXCEEDING SPECIFIED MAXIMUM LOAD.												5. WIRING AND CONDUIT SHALL BE REQUIRED FOR ALL SWITCHES, AND OUTLETS INDICATED WITH CIRCUIT NUMBERS. PROVIDE ½" CONDUIT, 3#12 UNLESS OTHERWISE INDICATED (1 PHASE, 1 NEUTRAL AND 1 GROUND). WIRE AND CONDUIT SIZES ON HOME RUNS SHALL BE CONTINUOUS THROUGHOUT CIRCUIT, REFER TO VOLTAGE DROP CHART ON SCHEDULE SHEET. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.												1. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.											
ATS	AUTOMATIC TRANSFER SWITCH	MDP	MAIN DISTRIBUTION PANEL	6. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE A WORKING INSTALLATION IN EVERY DETAIL AND ALL ITEMS REQUIRED FOR SUCH AN INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY INDICATED OR MENTIONED.												6. UNLESS OTHERWISE DIRECTED, PROVIDE ALL NEW POWER DISTRIBUTION EQUIPMENT WITH AIC RATINGS THAT MATCH OR EXCEED THE AIC RATING OF THE NEXT ACTIVE EXISTING UPSTREAM OVER-CURRENT PROTECTIVE DEVICE SERVING THE PANEL WHEN SERVED DIRECTLY BY ITS SOURCE (E.G. NO TRANSFORMER) OR PROVIDE AIC RATING THAT EXCEEDS BY 10% THE MAXIMUM LET THROUGH FAULT CURRENT (UNDER INFINITE PRIMARY BUSS) OF THE NEXT ACTIVE UPSTREAM TRANSFORMER (EXISTING OR NEW) SERVING THE RESPECTIVE PANEL.												6. RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (PHASE AND NEUTRALS) AND GROUNDING CONDUCTOR. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH SINGLE-PHASE RECEPTACLE OR LIGHTING CIRCUIT, UNLESS OTHERWISE INDICATED OR IF AN OVERSIZED NEUTRAL IS SPECIFIED. CIRCUITS WITH SHARED NEUTRALS SHALL BE PROVIDED WITH CIRCUIT BREAKERS THAT HAVE A COMMON TRIP (E.G. FURNITURE WHIPS)												2. INSTALL ALL ELECTRICAL DEVICES (FIRE ALARM, SWITCHES, RECEPTACLES, WORK BOXES, JUNCTION BOXES, EXIT SIGNS, LUMINAIRES, ETC.) IN THE LOCATIONS IDENTIFIED OR DIMENSIONS ON THE ARCHITECTURAL PLANS, DETAILS, OR ELEVATIONS.											
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM	7. VISIT THE SITE TO DETERMINE PRE-EXISTING CONDITIONS AND WORK NECESSARY PRIOR TO SUBMISSION OF BID PRICE. SUBMIT ANY QUESTIONS REQUIRED TO CLARIFY SCOPE PRIOR TO BID. INCLUDE ALL REQUIRED WORK IN BID PRICE.												7. SUBMIT SHORT CIRCUIT STUDY WITH POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL. IN THE STUDY DEMONSTRATE THAT THE AIC RATING SELECTIONS ARE PROPERLY INTEGRATED AND COORDINATED WITH THE EXISTING AND NEW POWER DISTRIBUTION EQUIPMENT. CONFIRM THAT THE AIC RATING SELECTIONS HAVE INCORPORATED THE AVAILABLE FAULT DUTY VALUES OBTAINED FROM THE UTILITY COMPANY FOR THE PROJECTS ELECTRICAL SERVICE POINT OF COMMON COUPLING.												7. MARK ALL CONDUITS AND JUNCTION BOXES WITH PERMANENT MARKER INDICATING PANEL AND CIRCUIT NUMBER OF CONDUCTORS CONTAINED WITHIN. LABEL WHERE CONDUITS ENTER PANELS. WIRE WAYS, PULL BOXES, ETC. LABEL EMPTY CONDUITS WITH SYSTEM (VOICE, DATA, SECURITY, ETC.) AND SOURCE OF CONDUIT.												3. IF THE DEVICE LOCATION IS NOT SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS, FOLLOW THE GUIDELINES LISTED BELOW:											
BAS	BUILDING AUTOMATION SYSTEM	N	NEUTRAL	8. INCLUDE IN BID WHATEVER IS REQUIRED TO MEET SCHEDULE INCLUDING OVERTIME, EXPRESS SHIPPING, EXPEDITING EQUIPMENT, ETC. PLAN FOR PROJECT AND SUBMIT SHOP DRAWING AND ORDER EQUIPMENT IN A TIMELY MANNER; EQUIPMENT SHALL BE BASED ON THE SPECIFIED EQUIPMENT.												8. ALL NEW PANELS SHALL BE FULLY RATED FOR THE DESIGNATED AIC VALUE; PANELS UTILIZING SERIES RATINGS WILL NOT BE ACCEPTABLE. NEW CIRCUIT BREAKERS PROVIDED IN EXISTING PANELS SHALL BE PROVIDED WITH AIC RATINGS THAT MATCH OR EXCEED THE HIGHEST RATED OVER-CURRENT PROTECTIVE DEVICE WITHIN THE RESPECTIVE EXISTING PANEL.												8. COORDINATE WITH OWNER TO DETERMINE WHICH RECEPTACLES AND ITEMS OF EQUIPMENT REQUIRE STANDBY GENERATOR POWER.												4. INSTALL NEARBY DEVICES ON ONE COMMON VERTICAL CENTERLINE											
BKBD	BACKBOARD	NC	NORMALLY CLOSED	9. ANY EQUIPMENT TO BE SUBSTITUTED SHALL BE IDENTIFIED AT THE TIME OF BID. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBSTITUTIONS.												9. SUBMIT OVER-CURRENT PROTECTIVE DEVICE COORDINATION STUDY, FOR ALL NEW POWER DISTRIBUTION EQUIPMENT, WITH THE POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL. INCLUDE THE NEXT ACTIVE EXISTING UPSTREAM OVER-CURRENT PROTECTIVE DEVICES, IN THE STUDY ANALYSIS, WHEN PROJECT IS WITHIN AN EXISTING FACILITY.												9. ELECTRICAL WORK NOT SERVING STAIRWELLS SHALL NOT PASS THROUGH A STAIR ENCLOSURE UNLESS AN APPROVED RATED SOFFIT IS PROVIDED TO MAINTAIN FIRE AND SMOKE RATING.												5. INSTALL ADJACENT TO DEVICES LINED UP WITH A COMMON BOTTOM LINE.											
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE	10. ALL ELECTRICAL DEVICES, WHEN INSTALLED, SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. COVER PLATES SHALL BE INSTALLED AFTER FINISH MATERIALS HAVE BEEN APPLIED.												10. SUBMIT OVER-CURRENT PROTECTIVE DEVICE COORDINATION STUDY, FOR ALL NEW POWER DISTRIBUTION EQUIPMENT, WITH THE POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL. INCLUDE THE NEXT ACTIVE EXISTING UPSTREAM OVER-CURRENT PROTECTIVE DEVICES, IN THE STUDY ANALYSIS, WHEN PROJECT IS WITHIN AN EXISTING FACILITY.												10. ALL RACEWAYS CROSSING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.												6. INSTALL DEVICES AT INDICATED HEIGHT AS APPLICABLE UNLESS OTHERWISE NOTED. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT AS INDICATED BY NOTE 7.											
CAT	CATALOG, CATEGORY	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	11. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, CODES, LOCAL AUTHORITIES AND REGULATIONS, INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, COMMISSIONING, APPROVALS AND CERTIFICATIONS.												11. JUNCTION BOX, CEILING OR WALL MOUNTED. MAKE CONNECTION TO RESPECTIVE EQUIPMENT, COORDINATE EXACT TERMINATION POINT IN FIELD OR THROUGH APPROVED SUBMITTALS.												11. PROVIDE WATERTIGHT AND GAS TIGHT SEALS INSIDE AND OUTSIDE OF CONDUITS THAT PENETRATE THE BUILDING BELOW GRADE. O.Z. GEDNEY OR APPROVED EQUAL. PROVIDE WEATHER TIGHT SEAL AT PENETRATIONS ABOVE GRADE.												7. ON MASONRY WALLS LINE UP THE BOTTOM OF THE DEVICE WITH A MASONRY JOINT AS CLOSE TO THE INDICATED HEIGHT AS PRACTICAL.											
CATV	CABLE TV	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	12. PROVIDE TRAINING TO OWNER ON ALL EQUIPMENT AND SYSTEMS INSTALLED.												12. TEMPORARY LIGHTING AND POWER SHALL BE PROVIDED AS REQUIRED BY OSHA, CODES AND LOCAL AUTHORITIES. REMOVE ALL TEMPORARY FACILITIES PROVIDED AT PROJECT COMPLETION.												12. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (FLOOR TO FLOOR) WALLS.												8. INSTALL DEVICES IN SAME AREA AT THE SAME HEIGHT.											
CB	CIRCUIT BREAKER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION																																					9. MOUNT PANELS SIX FEET TO THE TOP OF THE PANEL OR ANNUNCIATOR/ FA GRAPHIC.											
CCTV	CLOSED CIRCUIT TELEVISION	NIC	NOT IN CONTRACT																																					10. MOUNT AT 8 FOOT TO BOTTOM FOR SIGNAGE, EMERGENCY LIGHTING, CLOCKS, SECURITY SENSORS, WALL MOUNTED OCCUPANCY SENSORS MODIFIED AS FOLLOWS: 4' FROM TOP OF DEVICE TO CEILING AND 4' ABOVE DOOR FRAMES.											
CM	CIRCULAR MILS	NF	NON-FUSED																																					11. LOCATE CONTROL DEVISE AT LEAST 18" FROM AN INSIDE CORNER.											
COMM	COMMUNICATIONS	NO	NORMALLY OPEN																																					12. SUPPORT WORK FROM THE BUILDING STRUCTURE.											
CU	MECH CONDENSING UNIT	NO., #	NUMBER																																					13. IN FINISHED AREAS ELECTRICAL WORK SHALL BE INSTALLED CONCEALED, RECESSED INTO WALLS OR INSTALLED ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.											
CU	COPPER	NTS	NOT TO SCALE																																					14. DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE 24" SPACING IN FIRE RATED WALLS.											
CUH	CABINET UNIT HEATER	OC	ON CENTER																																					15. PROVIDE ELECTRICAL OUTLET PLATE GASKETS SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.											
DC	DIRECT CURRENT	OCC	OCCUPANCY																																																
DDC	DIGITAL DIRECT CONTROL	OH	OVERHEAD																																																
DN	DOWN	PA	PUBLIC ADDRESS																																																
DW	DISHWASHER	PB	PULLBOX																																																
DWG	DRAWING	PH	PHASE																																																
EF	EXHAUST FAN	PIR	PASSIVE INFRARED																																																
ELEV	ELEVATOR	PNL	PANELBOARD																																																
EMT	ELECTRICAL METALLIC TUBING	P/O	PART OF																																																
EP	EXPLOSION PROOF	PV	PHOTOVOLTAIC																																																
ERU	ENERGY RECOVERY UNIT	PVC	POLY-VINYL CHLORIDE																																																
EWC	ELECTRIC WATER COOLER	REC	RECEPTACLE RECEPT																																																
FACP	FIRE ALARM CONTROL PANEL	REF	REFRIGERATOR																																																
FB	FLOOR BOX	RF	RETURN FAN																																																
FLA	FULL LOAD AMPS	RGS	RIGID GALVANIZED STEEL																																																
FWE	FURNISHED WITH EQUIPMENT	RM	ROOM																																																
G, GND	GROUND	RMC	RIGID METAL CONDUIT																																																
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RTU	ROOFTOP UNIT																																																
GFP	GROUND FAULT PROTECTION	REF	REFRIGERATOR																																																
HID	HIGH INTENSITY DISCHARGE	SF	SUPPLY FAN																																																
HOA	HAND-OFF-AUTO SELECTOR SWITCH	SPDT	SINGLE POLE, DOUBLE THROW																																																
HP	HORSEPOWER	SQ	SQUARE																																																
HVAC	HEATING, VENTILATION AND COOLING UNIT	TEL	TELEPHONE																																																
IDS	INTRUSION DETECTION SYSTEM	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR																																																
IG	ISOLATED GROUND	TYP	TYPICAL																																																
IMC	INTERMEDIATE METAL CONDUIT	UF	UNDER FLOOR																																																
IR	INFRARED	UG	UNDERGROUND																																																
K	KILO	UH	UNIT HEATER																																																
KCMIL	KILO CIRCULAR MILS	UL	UNDERWRITER'S LABORATORY																																																
KW	KILOWATT	UNO	UNLESS NOTED OTHERWISE																																																
KVA	KILO VOLT-AMPS	UPS	UNINTERRUPTIBLE POWER SUPPLY																																																
LAN	LOCAL AREA NETWORK	V	VOLTS																																																
LC	LIGHTING CONTACTOR	VFD	VARIABLE FREQUENCY DRIVE																																																
LF	LINEAR FEET	VIF	VERIFY IN FIELD																																																
LC	LOADCENTER	W	WATT																																																
LCP	LIGHTING CONTROL PANEL	WP	WEATHERPROOF																																																
LED	LIGHT EMITTING DIODE	WG	WIREGUARD																																																
LTS	LIGHTS	XFMR	TRANSFORMER																																																
MAX	MAXIMUM																																																		
MCB	MAIN CIRCUIT BREAKER																																																		
MECH	MECHANICAL																																																		
MH	MOUNTING HEIGHT																																																		
A1 ABBREVIATIONS				A2 POWER DISTRIBUTION				A4 RECEPTACLES				A6 FIRE ALARM				A8 LUMINAIRES																																			
12" = 1'-0"				12" = 1'-0"				12" = 1'-0"				12" = 1'-0"				12" = 1'-0"																																			
1				2				3				5				6				7				8				9				10																			



KEYED REMOVALS NOTES

- 1. EXISTING ELECTRICAL ITEMS IN THIS ROOM SHALL REMAIN UNO.
- 2. EXISTING LIGHTING INCLUDING EMERGENCY LIGHTING AND EXIT SIGNS, AND LIGHTING CONTROL DEVICES IN THIS ROOM SHALL REMAIN EXCEPT WHERE SPECIFICALLY INDICATED TO BE REMOVED.
- 3. REMOVE EXISTING LIGHTING AT OUTDOOR CANOPY TO BE DEMOLISHED.

GENERAL REMOVALS NOTES

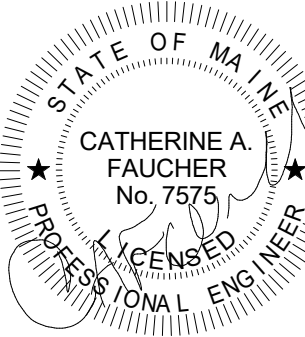
- 1. REFER TO FLOOR PLAN FOR SCOPE OF WORK AREA. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
- 2. REMOVE ALL ELECTRICAL DEVICES WITHIN SCOPE OF WORK AREA, UNLESS NOTED OR INDICATED OTHERWISE. DEMOLITION SHALL INCLUDE BUT NOT BE LIMITED TO WIRING DEVICES, OUTLET BOXES, PULL BOXES, LIGHTING FIXTURES AND SWITCHES, WIRING AND CONDUIT, TELECOMMUNICATIONS, OUTLETS, ETC.
- 3. EXISTING FIRE ALARM SYSTEM COMPONENTS SHALL REMAIN, EXCEPT WHERE SPECIFICALLY INDICATED TO BE REMOVED OR WHERE SYSTEM COMPONENTS ARE LOCATED IN WALLS TO BE REMOVED. WHERE WALLS ARE TO BE REMOVED, REMOVE AND RELOCATE EXISTING FIRE ALARM COMPONENTS AS INDICATED AND AS REQUIRED.
- 4. DISCONNECT AND REMOVE ALL WIRING FOR EQUIPMENT TO BE REMOVED BACK TO THE POINT OF CONNECTION. NOTHING SHALL BE ABANDONED IN PLACE.
- 5. VERIFY ALL EXISTING SOURCES OF POWER TO EQUIPMENT PRIOR TO FINAL REMOVAL.
- 6. COORDINATE ALL SHUTDOWN PROCEDURES WITH THE OWNER PRIOR TO DISCONNECTING ANY CIRCUITS.
- 7. PROVIDE BLANK COVER PLATES FOR REMOVED POWER AND COMMUNICATIONS OUTLETS IN EXISTING WALLS TO REMAIN.
- 8. THE WORK INCLUDES DISPOSAL OF ALL REMOVED ELECTRICAL ITEMS INCLUDING BALLASTS AND LAMPS. LEGALLY DISPOSE OF ALL HAZARDOUS MATERIALS

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Project No: 19006
Project Mgr: Designer



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CHINA MIDDLE SCHOOL
GYM ADDITION

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08 April 2019

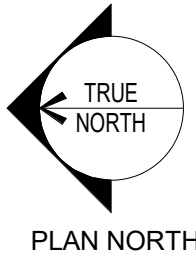
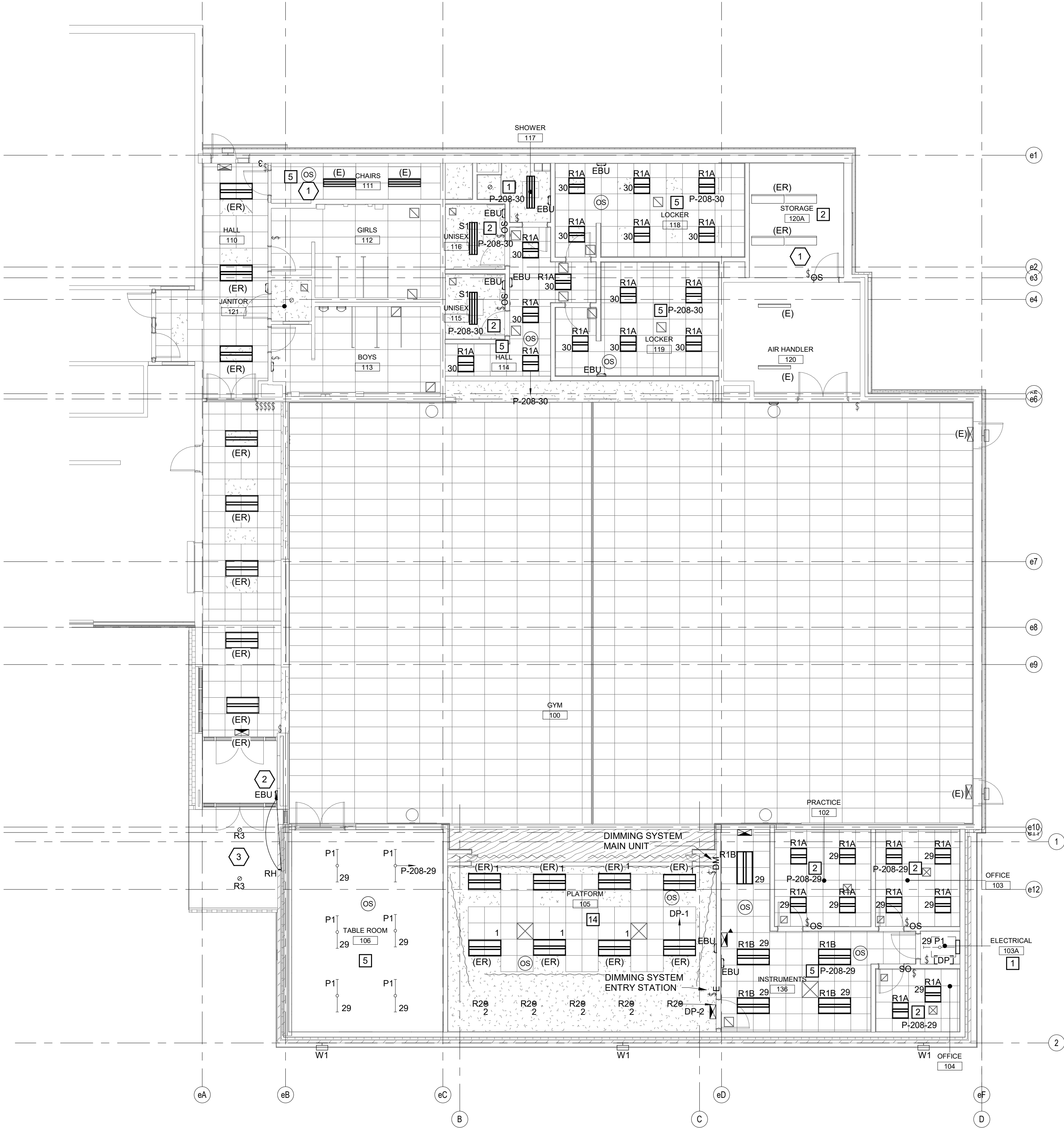
ELECTRICAL
DEMOLITION
PLAN

ED-100

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LIGHTING CONTROL NOTES SCHEDULE		
TAG #	DESCRIPTION OF LIGHTING CONTROL DEVICES AND OPERATION	DETAIL NUMBER
1	WALL SWITCH - MANUAL ON/MANUAL OFF	NO DETAIL
2	WALL SWITCH WITH OCCUPANCY SENSOR - MANUAL ON AND OFF/AUTO OFF	NO DETAIL
3	NOT USED	
4	LIGHTING CONTROLLED BY LCP - REFER TO LIGHTING CONTROL PANEL SCHEDULES	NO DETAIL
5	AUTO ON/AUTO OFF VIA OCCUPANCY SENSOR(S)	A5/EL501
6	WALL SWITCH(ES) - MANUAL ON AND OFF; AUTO OFF VIA OCCUPANCY SENSOR(S)	N/A
7	WALL SWITCH WITH DIMMER AND OCCUPANCY SENSOR - MANUAL ON AND OFF/MANUAL DIMMING/AUTO OFF	NO DETAIL
8	WALLSTATION(S) - MANUAL ON AND OFF - WHERE NOTED ON PLANS; WALLSTATION(S) WITH DIMMER(S) - MANUAL ON AND OFF/MANUAL DIMMING; AUTO OFF VIA OCCUPANCY SENSORS	N/A
9	NOT USED	
10	NOT USED	
11	PROVIDE UL924 EMERGENCY BYPASS RELAY TO FORCE LIGHTING ON FOR ENTIRE ROOM, CORRIDOR, OR ENTRY UPON ACTIVATION OF FIRE ALARM OR LOSS OF UTILITY POWER. (1) RELAY IS REQUIRED PER EACH SWITCH GROUP OF LIGHTS. IF MULTIPLE SWITCH GROUPS IN A ROOM, MULTIPLE RELAYS ARE NEEDED.	N/A
12	NOT USED	
13	NOT USED	
14	LIGHTING SHALL BE CONTROLLED BY DIMMING SYSTEM	A1/EL501

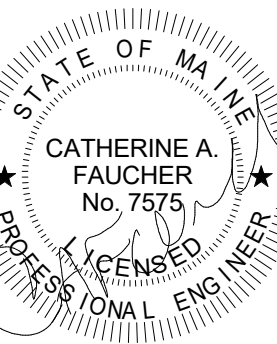
- KEY NOTES**
- 1 CONNECT INDICATED CONTROLS TO EXISTING LIGHTING.
- 2 CONNECT TO UNSWITCHED PORTION OF EXISTING LIGHTING CIRCUIT SERVING AREA.
- 3 CONNECT INDICATED LIGHTING TO EXISTING LIGHTING CIRCUIT AND CONTROLS FROM WHICH EXISTING LIGHTING WAS REMOVED.



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LIGHTING PLAN

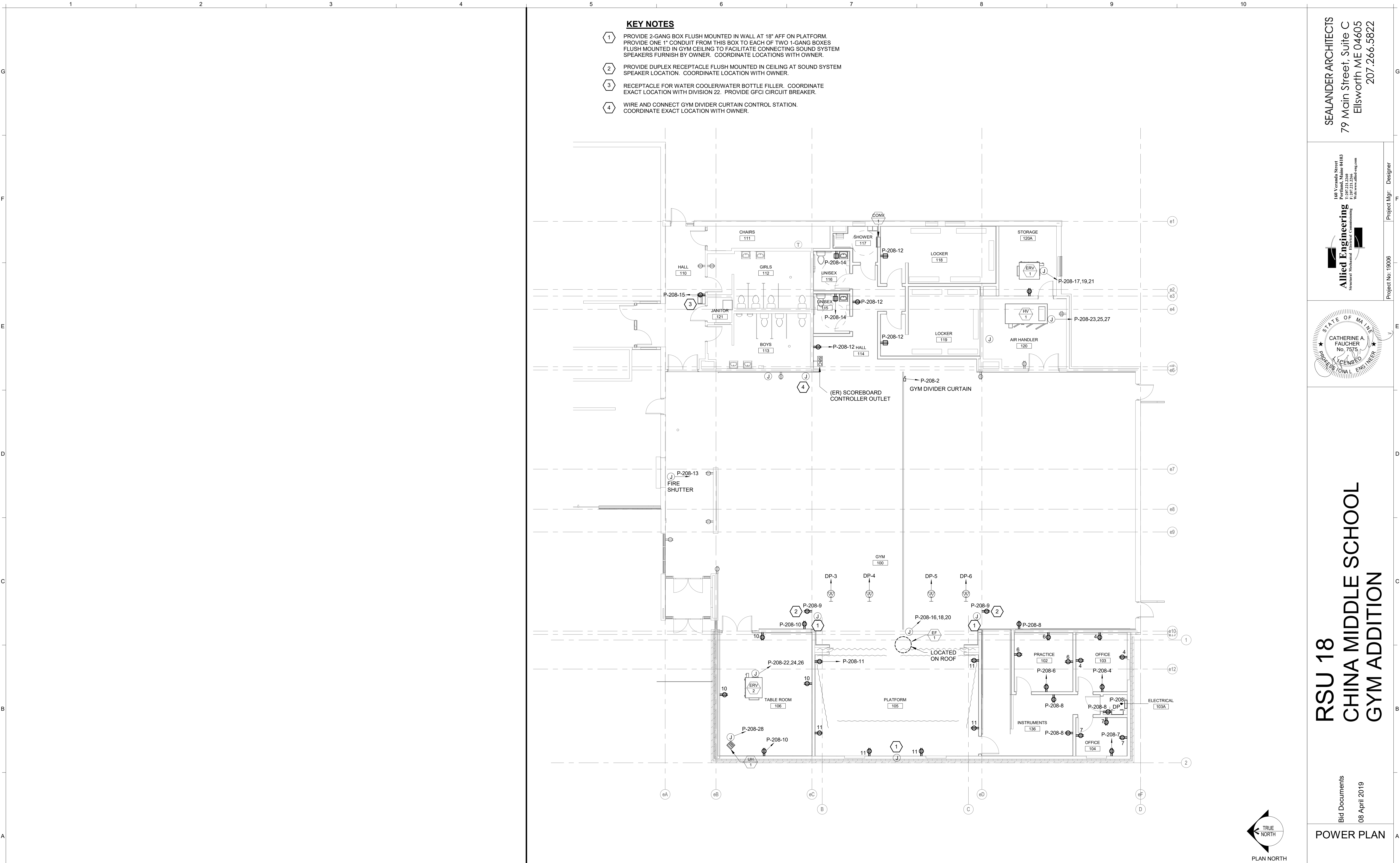
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A5 LIGHTING PLAN
1/8" = 1'-0"

THIS IS A 24 X 36 SHEET.

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KEY NOTES

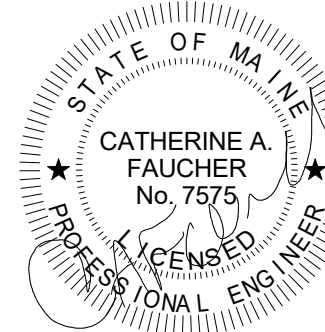
- 1 PROVIDE 2-GANG BOX FLUSH MOUNTED IN WALL AT 18" AFF ON PLATFORM. PROVIDE ONE 1" CONDUIT FROM THIS BOX TO EACH OF TWO 1-GANG BOXES FLUSH MOUNTED IN GYM CEILING TO FACILITATE CONNECTING SOUND SYSTEM SPEAKERS FURNISH BY OWNER. COORDINATE LOCATIONS WITH OWNER.
- 2 PROVIDE DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING AT SOUND SYSTEM SPEAKER LOCATION. COORDINATE LOCATION WITH OWNER.
- 3 RECEPTACLE FOR WATER COOLER/WATER BOTTLE FILLER. COORDINATE EXACT LOCATION WITH DIVISION 22. PROVIDE GFCI CIRCUIT BREAKER.
- 4 WIRE AND CONNECT GYM DIVIDER CURTAIN CONTROL STATION. COORDINATE EXACT LOCATION WITH OWNER.

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POWER PLAN

EP-100

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Branch Panel: P-208

Location:
Supply From:
Mounting: Surface
Enclosure: 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1				604 VA 1200...				1	20 A	2	
3	DP	60 A	3		1000...	720 VA		1	20 A	4	
5							1000...	720 VA	1	20 A	6
7	Receptacle-OFFICE 104	20 A	1	720 VA 720 VA				1	20 A	8	
9	Receptacle-SPEAKERS GYM	20 A	1		360 VA 900 VA			1	20 A	10	
11	Receptacle-PLATFORM 105	20 A	1			1080...	720 VA	1	20 A	12	
13	FIRE SHUTTER	20 A	1	500 VA 360 VA				1	20 A	14	
15	Receptacle	20 A	1		180 VA 576 VA					16	
17						1585...	576 VA	3	20 A	18	
19	ERV-1 MECHANICAL EQUIP	20 A	3	1585... 576 VA		1585...	1153...			20	
21										22	
23						2102...	1153...	3	20 A	24	
25	HV-1 MECHANICAL EQUIP	20 A	3	2102... 1153...						26	
27					2102...	250 VA		1	20 A	28	
29	LIGHTING- 106, 136, 102, 103,103A,102	20 A	1			711 VA 582 VA		1	20 A	30	
31	Spare	20 A	1	0 VA 0 VA				1	20 A	32	
33	Spare	20 A	1		0 VA 0 VA			1	20 A	34	
35	Spare	20 A	1			0 VA 0 VA		1	20 A	36	
37	Spare	20 A	1	0 VA 0 VA				1	20 A	38	
39	Spare	20 A	1		0 VA 0 VA			1	20 A	40	
41	Spare	20 A	1			0 VA 0 VA		1	20 A	42	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	1389 VA	100.00%	1389 VA	
Power	18196 VA	100.00%	18196 VA	Total Conn. Load: 28585 VA
Receptacle	8480 VA	100.00%	8480 VA	Total Est. Demand: 28585 VA
Lighting - Dwelling Unit	524 VA	100.00%	524 VA	Total Conn. Current: 79 A

Notes:

Branch Panel: DP

Location: ELECTRICAL 103A
Supply From: P-208
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 60 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	PLATFORM LIGHTING - 0-10V DIMMING	20 A	1	312 VA 300 VA			1	20 A	PLATFORM LIGHTING - 0-10V DIMMING	2
3	Receptacle	20 A	1		500 VA 500 VA		1	20 A	Receptacle	4
5	Receptacle	20 A	1			500 VA 500 VA	1	20 A	Receptacle	6
7	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	8
		Total Load:		604 VA	1000 VA	1000 VA				
		Total Amps:		.5 A	.9 A	.9 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	312 VA	100.00%	312 VA		
Receptacle	2000 VA	100.00%	2000 VA	Total Conn. Load:	2599 VA
Lighting - Dwelling Unit	300 VA	100.00%	300 VA	Total Est. Demand:	2599 VA

Notes:

ELECTRICAL SCHEDULE OF MECHANICAL EQUIPMENT

[illegible]

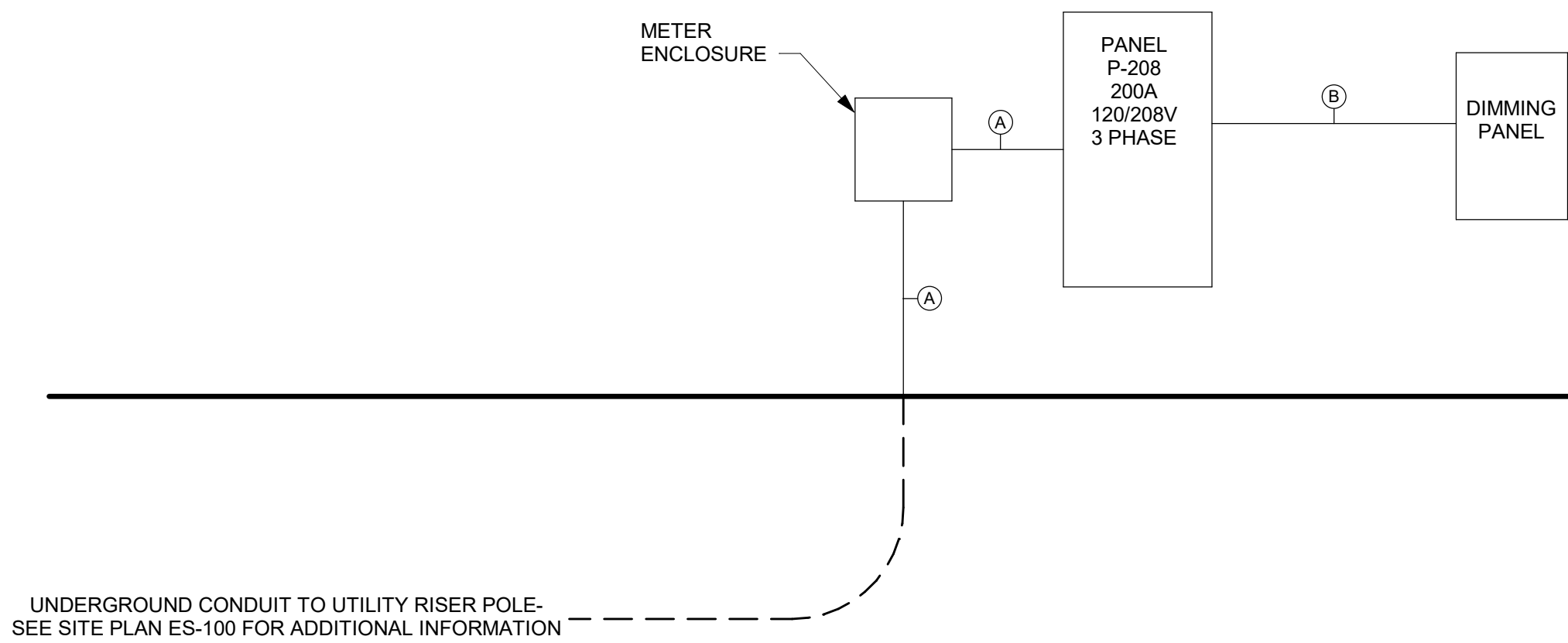
KEY NOTES:

ABBREVIATIONS:

1				FWE	FURNISHED WITH EQUIPMENT
2				NF	NOT FUSED
3				SWBD	SWITCHBOARD
4				FBD	FURNISHED BY DIVISION
5				CBD	CONTROL WIRING BY DIVISION
6					

FEEDER SCHEDULE

FEEDER SCHEDULE			
TAG	DESCRIPTION	CONDUCTORS (NOTE 1)	CONDUIT (NOTE 2)
A	200 AMP SECONDARY/FEEDER	(4) #3/0	2"
B	DIMMING PANEL FEEDER	(4) #6, (1) #10 G	1"
	FEEDER SCHEDULE NOTES:		
	1. WIRING BASED ON COPPER THWN/THHN		
	2. CONDUIT SIZE BASED ON EMT		



UNDERGROUND CONDUIT TO UTILITY RISER POLE-
SEE SITE PLAN ES-100 FOR ADDITIONAL INFORMATION

A5

RISER DIAGRAM

THIS IS A 24 X 36 SHEET.

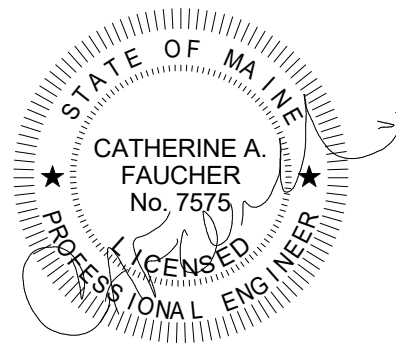
C:\Users\pcotter\Documents\19006MEP_pcotter@allied-eng.com.rvt

SEALANDER ARCHITECTS
79 Main Street, Suite C
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Project Mgr: Designer

Project No: 19006



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ELECTRICAL SCHEDULES

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KEY NOTES

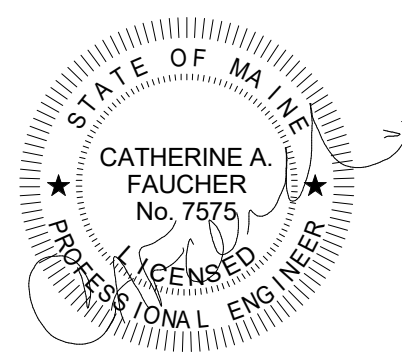
1 WIRE AND CONNECT FIRE SHUTTER TO FIRE ALARM SYSTEM TO ACTIVATE UPON SMOKE DETECTOR ACTIVATION. PROVIDE ADDRESSABLE INTERFACE MODULES AS REQUIRED.

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Structural Mechanical Electrical Consulting

Project No. 19006 Project Mgr: Designer



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SYSTEMS PLAN

EY-100

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