

LOGAN UT SR SEMINARY

CONSTRUCTION DOCUMENTS

08.15.24



ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
CMU	CONCRETE MASONRY UNIT
EIFS	EXTERIOR INSULATED FINISH
EQ	EQUAL
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
O.C.	ON CENTER
SPEC	SPECIFICATION
SIM	SIMILAR
TYP	TYPICAL
T.O.	TOP OF
B.O.	BOTTOM OF

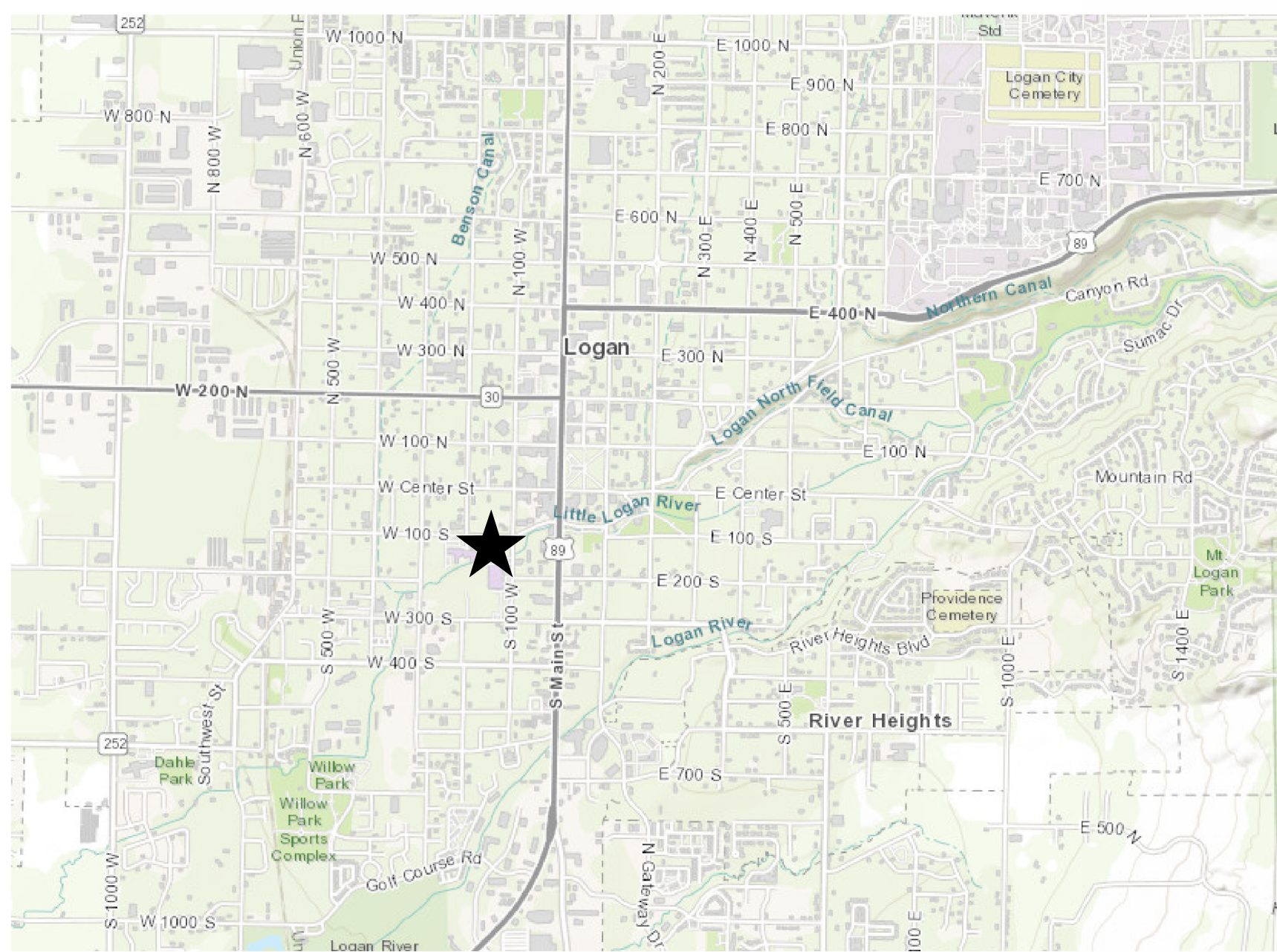
MATERIAL LEGEND

	GYPSUM BOARD OR CONCRETE SURFACE
	CONCRETE
	STUD WALL
	GRAVEL
	COMPACTED FILL AND/OR EARTH
	CMU (CONCRETE MASONRY UNIT)
	BATT INSULATION
	RIGID INSULATION

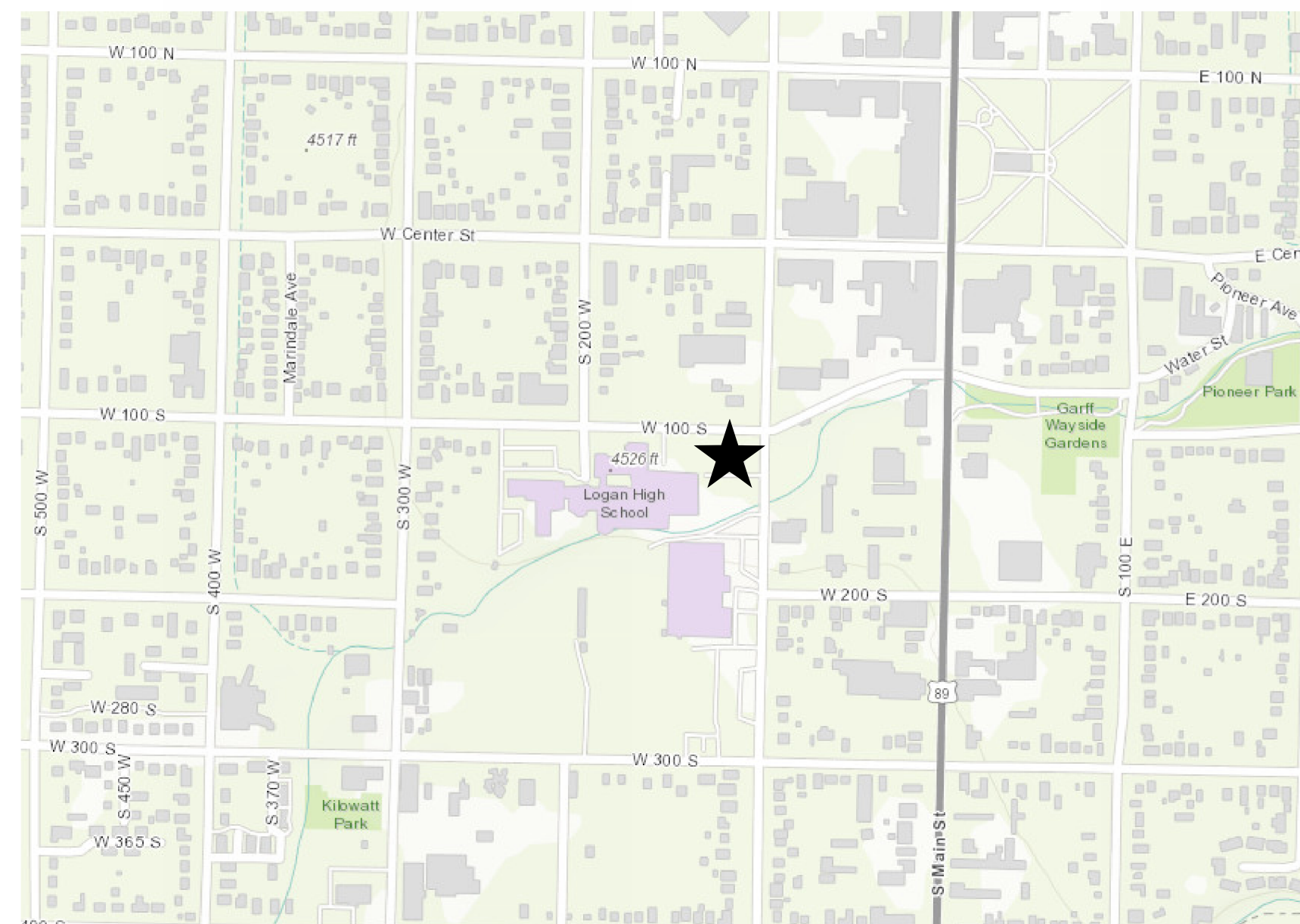
SYMBOLS LEGEND

ROOM IDENTIFICATION NUMBER	ROOM NAME	ROOM NAME
DOOR NUMBER	NUM	ROOM NUMBER
REFERENCE NOTE	XXX	
GLAZING TYPE	X	
PARTITON WALL TYPE	XX	
INTERIOR ELEVATION	A1, A2, A3, A4	SHADE INDICATES ELEVATED WALL, ELEVATION NUMBER, SHEET NUMBER
BUILDING SECTION	SECTION NUMBER, SHEET NUMBER	
WALL SECTION	SECTION NUMBER, SHEET NUMBER	
EXTERIOR ELEVATION	ELEVATION NUMBER, SHEET NUMBER	
DETAIL	DETAIL NUMBER, SHEET NUMBER	
DETAIL TITLE	A1	DETAIL SCALE:
REVISION DELTA	2	REVISION NUMBER

SITE MAP



VICINITY MAP



PROJECT TEAM

PROJECT ARCHITECT

FFKR ARCHITECTS
730 W. Pacific Ave.
Salt Lake City, UT 84104
801.521.6186

CIVIL ENGINEER

CIVIL SCIENCE
405 S. Main St. Ste.1000
Salt Lake City, UT 84111
801.768.7200

LANDSCAPE ARCHITECT

FFKR ARCHITECTS
730 W. Pacific Ave.
Salt Lake City, UT 84104
801.521.6186

STRUCTURAL ENGINEER

ARW ENGINEERING
1594 W. Park Circle #100
Ogden, UT 84404
801.782.6008

PLUMBING

HEATH ENGINEERING
377 W. 800 N.
Salt Lake City, UT 84103
801.322.0487

MECHANICAL ENGINEER

HEATH ENGINEERING
377 W. 800 N.
Salt Lake City, UT 84103
801.322.0487

ELECTRICAL ENGINEER

HEATH ENGINEERING
377 W. 800 N.
Salt Lake City, UT 84103
801.322.0487

DRAWING INDEX

SHEET NO.	SHEET NAME
GENERAL	
G000	COVER SHEET
G001	PROJECT INFORMATION
G101	LIFE SAFETY PLAN
G120	GENERAL ACCESSIBILITY DETAILS
G121	GENERAL ACCESSIBILITY DETAILS
CIVIL	
GN01	GENERAL NOTES
GN02	LEGEND & ABBREVIATIONS
DT01	DETAILS
DM01	DEMOLITION PLAN
SP01	SITE & UTILITY PLAN
GP01	GRADING & DRAINAGE PLAN
EC01	SWPPP SITE PLAN
LANDSCAPE	
LA100	MATERIALS PLAN
LA200	LAYOUT PLAN
LA300	GRADING PLAN
LA601	PLANTING DETAILS
LA801	TYPICAL IRRIGATION DETAILS
LA802	TYPICAL IRRIGATION DETAILS
LA803	TYPICAL IRRIGATION DETAILS
ARCHITECTURAL	
A101	FLOOR PLAN
A102	FLOOR FINISH PLAN
A110	ROOF PLAN
A120	REFLECTED CEILING PLAN
A201	BUILDING ELEVATIONS
A202	BUILDING ELEVATIONS
A301	BUILDING SECTIONS
A302	BUILDING SECTIONS
A303	BUILDING SECTIONS
A310	WALL SECTIONS
A311	WALL SECTIONS
A312	WALL SECTIONS
A313	WALL SECTIONS
A401	CLASSROOM 101 - INT ELEV.
A402	VEST. 103 & 105 - INT ELEV.
A403	FOYER ADMIN. ASSISTANT - INT ELEV.
A404	CLASSROOM 106 - INT ELEV.
A405	RESTROOMS - INT ELEV.
A406	WORKRM / KITCHENETTE & PRINCIPAL - INT ELEV.
A407	QUIET STUDY & VEST 122 - INT ELEV.
A408	STORAGE - INT ELEV.
A501	DETAILS
A502	DETAILS
A503	DETAILS
A504	DETAILS
A505	DETAILS
A506	FLOOR PATTERN / TRANSITION DETAILS
A601	PARTITION TYPES & DOOR SCHEDULES
A602	WINDOW SCHEDULE AND DETAILS
A603	FINISH SCHEDULE
A801	MILLWORK
A901	PERSPECTIVES
A902	PERSPECTIVES
STRUCTURAL	
S001	STRUCTURAL NOTES
S010	SCHEDULES
S011	SCHEDULES
S012	SCHEDULES
S101	FOOTING & FOUNDATION PLAN
S102	LOW ROOF FRAMING PLAN
S103	HIGH ROOF FRAMING PLAN
S104	SNOW DRIFT PLAN
S201	TYPICAL DETAIL
S210	FOUNDATION DETAILS
S220	FRAMING DETAILS
S301	ELEVATIONS
S401	SCHEMATIC REFERENCE
MECHANICAL	
M-001	MECHANICAL SCHEDULES AND SYMBOL LEGEND
MH111	LEVEL 1 MECHANICAL PLAN
MH121	ROOF MECHANICAL PLAN
MHS01	MECHANICAL DETAILS
MHS02	MECHANICAL DETAILS
MPS01	MECHANICAL PIPING DETAILS
PLUMBING	
P-001	PLUMBING SCHEDULES AND SYMBOL LEGEND
PL101	LEVEL 1 PLUMBING PLAN - WASTE & VENT
PL102	LEVEL 1 PLUMBING PLAN - WATER & GAS
PL103	ROOF PLUMBING PLAN
PL501	PLUMBING DETAILS
FIRE ALARM	
FA101	LEVEL 1 FIRE ALARM PLAN
ELECTRICAL	
E-001	ELECTRICAL SCHEDULES AND SYMBOL LEGEND
E-002	ELECTRICAL SCHEDULES
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-503	ELECTRICAL DETAILS
E-601	ELECTRICAL ONE-LINE DIAGRAM
EL001	LIGHTING SCHEDULES END SYMBOLS
EL100	EXTERIOR LIGHTING PLAN
EL101	LEVEL 1 LIGHTING PLAN
EL201	LEVEL 1 LIGHTING CONTROL PLAN
EL401	LEVEL 1 ENLARGED LIGHTING PLAN
EL501	LIGHTING DETAILS
EL502	LIGHTING DETAILS
EL701	LEVEL 1 LIGHTING CALCS
EP101	LEVEL 1 POWER PLAN
EP102	ROOF POWER PLAN
EX101	LEVEL 1 SECURITY / DATA PLAN

5/09/2024 9:21:34 a. m.

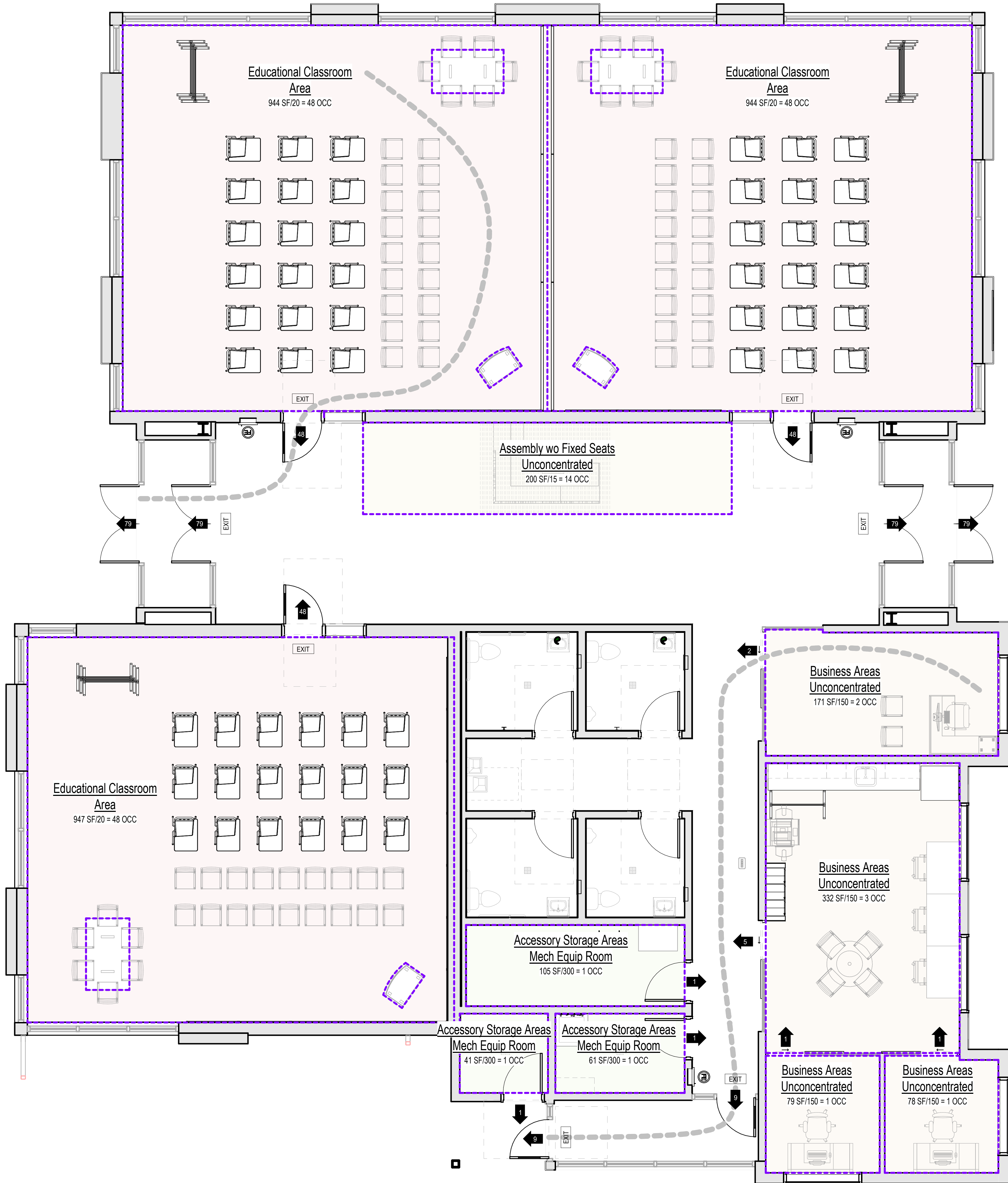
CODE SUMMARY								
1PROJECT DESCRIPTION		7PLUMBING REQUIREMENTS						
EXISTING SEMINARY BUILDING TO BE DEMOLISHED AND NEW, SINGLE STORY, SEMINARY BUILDING TO BE BUILT WITH THREE(3) CLASSROOMS FOR STUDENTS, OFFICE SPACE, AND BREAKROOM FOR FACULTY AND STAFF.		TOTAL OCCUPANT LOAD: 166 MEN: 83 WOMEN: 83 ASSEMBLY OCCUPANCY (E) FIXTURE REQUIREMENT: TOTAL WOMEN'S FIXTURES OCCUPANTS: 83						
		FIXTURE	CODE	REQUIRED	DESIGNATED			NOTES
		WATER CLOSETS	1 PER 50	2	2			
		LAVATORIES	1 PER 50	2	2			
		*MINIMUM FIXTURE REQUIREMENTS SATISFIED WHEN CONSIDERING TOTAL SINGLE-USE / FAMILY USE TOILETS. SEE COUNTS BELOW.						
2021 INTERNATIONAL BUILDING CODE (IBC) 2021 INTERNATIONAL MECHANICAL CODE (IMC) 2021 INTERNATIONAL PLUMBING CODE (IPC) 2021 INTERNATIONAL FUEL GAS CODE (IFGC) 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2020 NATIONAL ELECTRICAL CODE (NEC) 2017 ICC A117.1-2017 ACCESSIBILITY		TOTAL MEN'S FIXTURES OCCUPANTS: 83						
		FIXTURE	CODE	REQUIRED	DESIGNATED			NOTES
		WATER CLOSETS	1 PER 50	2	2			
		URINALS			2			
		LAVATORIES	1 PER 50	2	2			
3CONSTRUCTION TYPE		TOTAL MISC FIXTURES OCCUPANTS: 166						
TYPE	V-B	FIXTURE	CODE	REQUIRED	PROVIDED			
		DRINKING FOUNTAINS	1 PER 1000	1	1			
		SERVICE SINKS	1	1	1			
4OCCUPANCY CLASSIFICATION		BUILDING AREA AND HEIGHT						
BUILDING USE	OCCUPANCY	ALLOWED: ALLOWED HEIGHT (STORIES): 1 STORY ACTUAL HEIGHT: 1 STORY						
CLASSROOMS	E	TYPE: V-B						
OFFICE	B-1	At: 6,000 S.F. NS: 6,000 S.F. If: 0.75						
Non-Separated use. E to be the base occupancy		Aa = At + (NS x If) Aa = 6,000 + (6,000*.75) Aa = 10,500						
5FIRE PROTECTION SYSTEMS		ACTUAL S.F. : 6,048 S.F.						
FIRE ALARM SYSTEM: PROVIDED IN ACCORDANCE WITH SECTION 907.2.1		8FIRE RESISTENCE RATINGS						
PORTABLE FIRE EXTINGUISHERS: PROVIDED IN ACCORDANCE WITH SECTION 906		IBC; TABLE 601, 602, AND SECTIONS 713 AND 1018						
6NUMBER OF STORIES		CONSTRUCTION TYPE V-B						
FIRE ALARM SYSTEM: PROVIDED IN ACCORDANCE WITH SECTION 907.2.1		PRIMARY STRUCTURAL FRAME 0-HOUR (TABLE 601)						
		BEARING WALLS: EXTERIOR 0 HOUR (TABLE 601)						
		BEARING WALLS: INTERIOR 0 HOUR (TABLE 601)						
		NON-BEARING EXTERIOR WALLS 0 HOUR (TABLE 602)						
		NON-BEARING INTERIOR WALLS 0 HOUR (TABLE 601)						
PORTABLE FIRE EXTINGUISHERS: PROVIDED IN ACCORDANCE WITH SECTION 906		FLOOR CONSTRUCTION 0 HOUR (TABLE 601)						
		ROOF CONSTRUCTION 0 HOUR (TABLE 601)						
		EXIT CORRIDORS 0 HOUR (SECTION 1020.1)						
		FURNACE 0 HOUR (TABLE 509)*						
		BOILER ROOM 0 HOUR (TABLE 509)*						
		CORRIDORS 0 HOUR (TABLE 509)						
		* 0 - HOUR ALLOWED WITH AUTOMATIC SPRINKLER SYSTEM						



5/09/2024 9:21:41 a.m.

A1 LEVEL 1 LIFE SAFETY PLAN

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

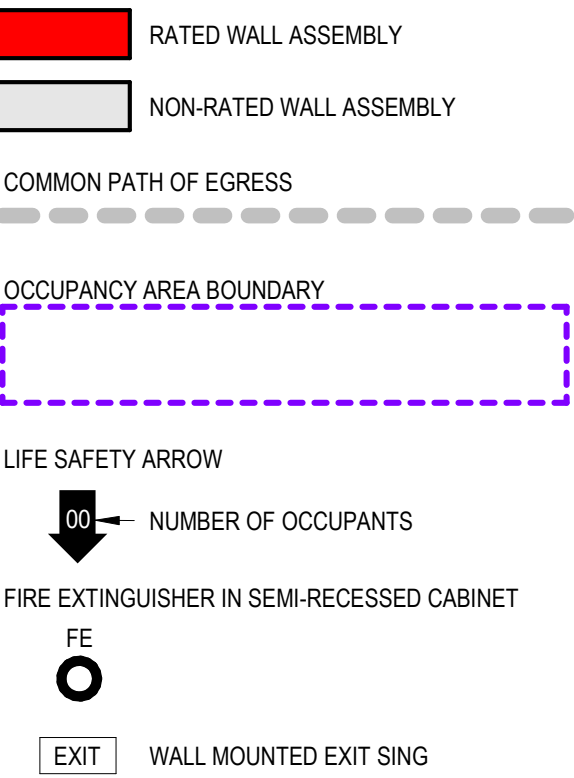


LIFE SAFETY OCCUPANCY TYPE

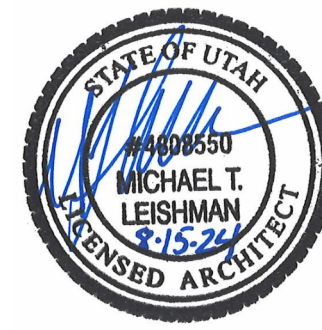
- Accessory Storage Areas Mech Equip Room
- Assembly w/o Fixed Seats Unconcentrated
- Business Areas Unconcentrated
- Educational Classroom Area

REFERENCE NOTES

OCCUPANCY CALCULATIONS			
Code: Occupancy Type	Area	Occupancy S.F. Type	Occupant Count
Educational Classroom Area	944 SF	20	48.8
Educational Classroom Area	944 SF	20	48.8
Educational Classroom Area	947 SF	20	48.8
Business Areas Unconcentrated	171 SF	150	2
Business Areas Unconcentrated	78 SF	150	0.58
Business Areas Unconcentrated	79 SF	150	0.58
Business Areas Unconcentrated	332 SF	150	2.3
Accessory Storage Areas Mech Equip Room	61 SF	300	0.23
Accessory Storage Areas Mech Equip Room	41 SF	300	0.15
Accessory Storage Areas Mech Equip Room	105 SF	300	0.41
Assembly w/o Fixed Seats Unconcentrated	200 SF	15	13.3
	3900 SF		165.95



LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-day Saints
CONSTRUCTION DOCUMENTS - 08.15.24



DATE REVISION

PROJECT NUMBER 24003

LIFE SAFETY PLAN

5/09/2024 9:21:41 a.m.

A B C D E

1 2 3 4 5 6

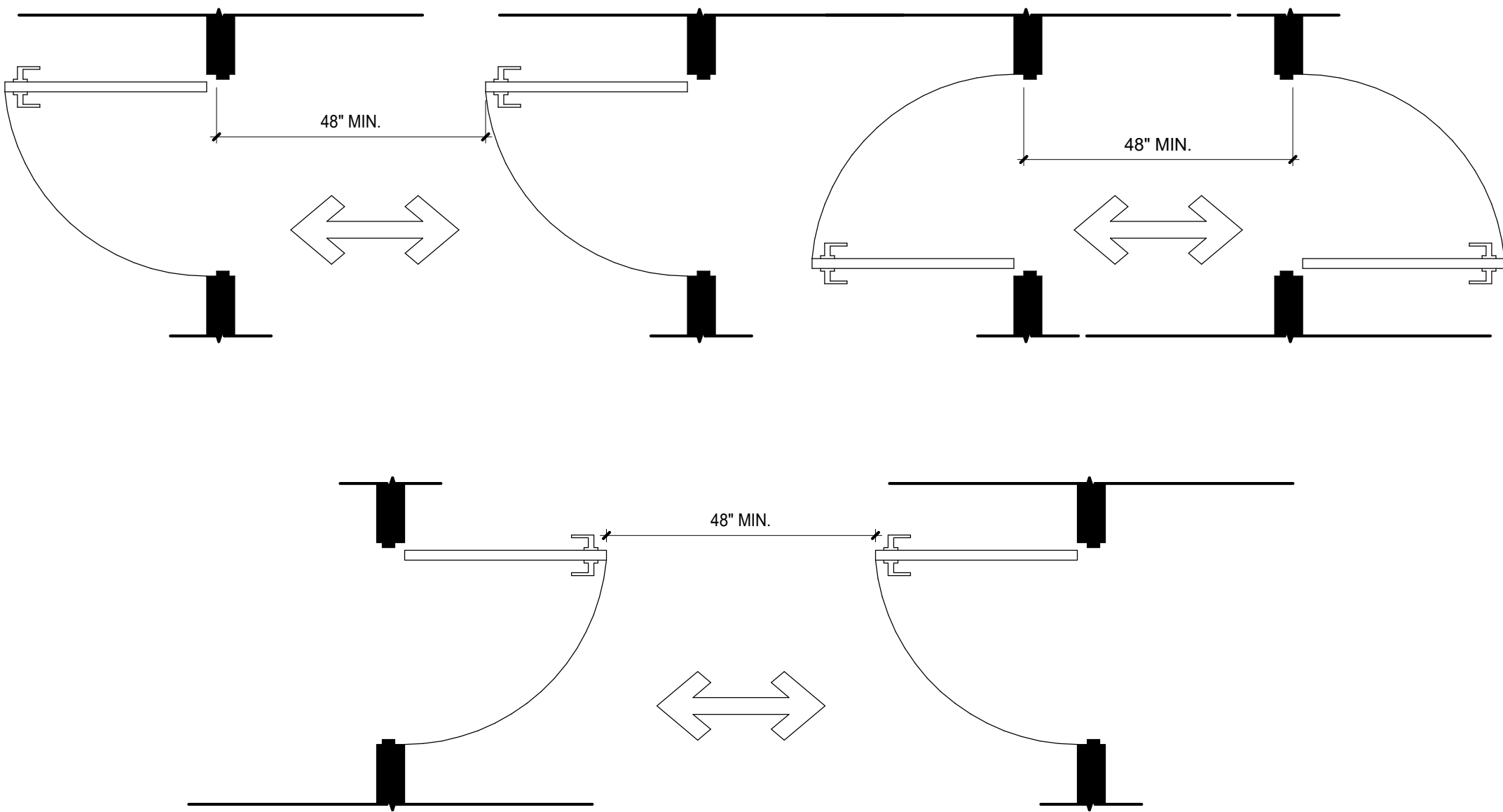


FIGURE 404.2.6
DOORS IN SERIES AND GATES IN SERIES
SCALE: 1/2" = 1'-0"

C1

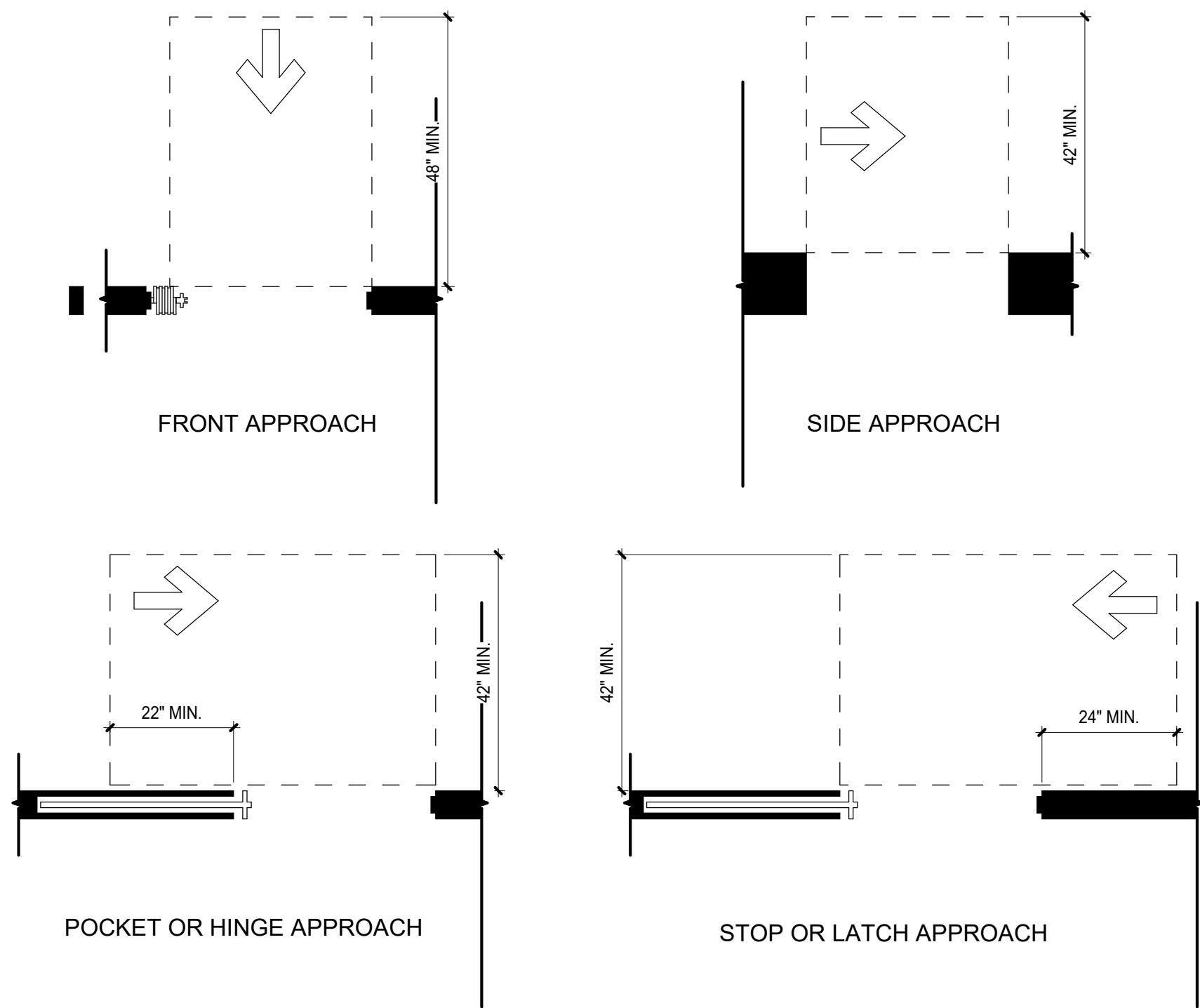


FIGURE 404.2.4.2
MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES AND FOLDING DOORS
SCALE: 1/2" = 1'-0"

B1

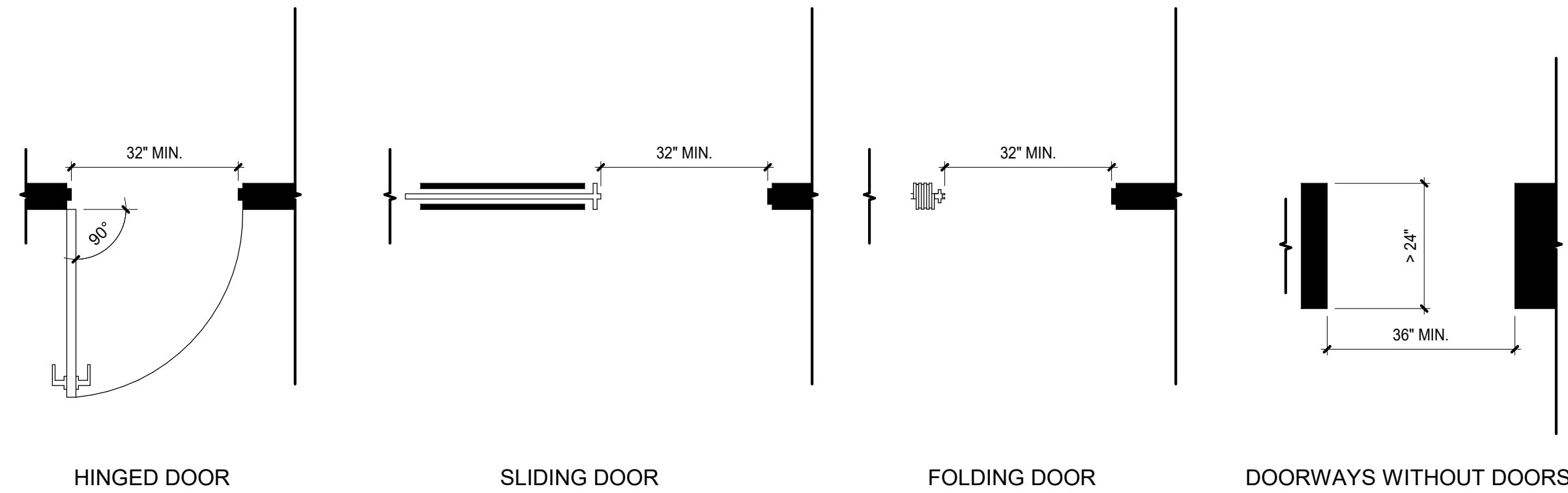


FIGURE 404.2.4
CLEAR WIDTH OF DOORWAYS
SCALE: 1/2" = 1'-0"

A1

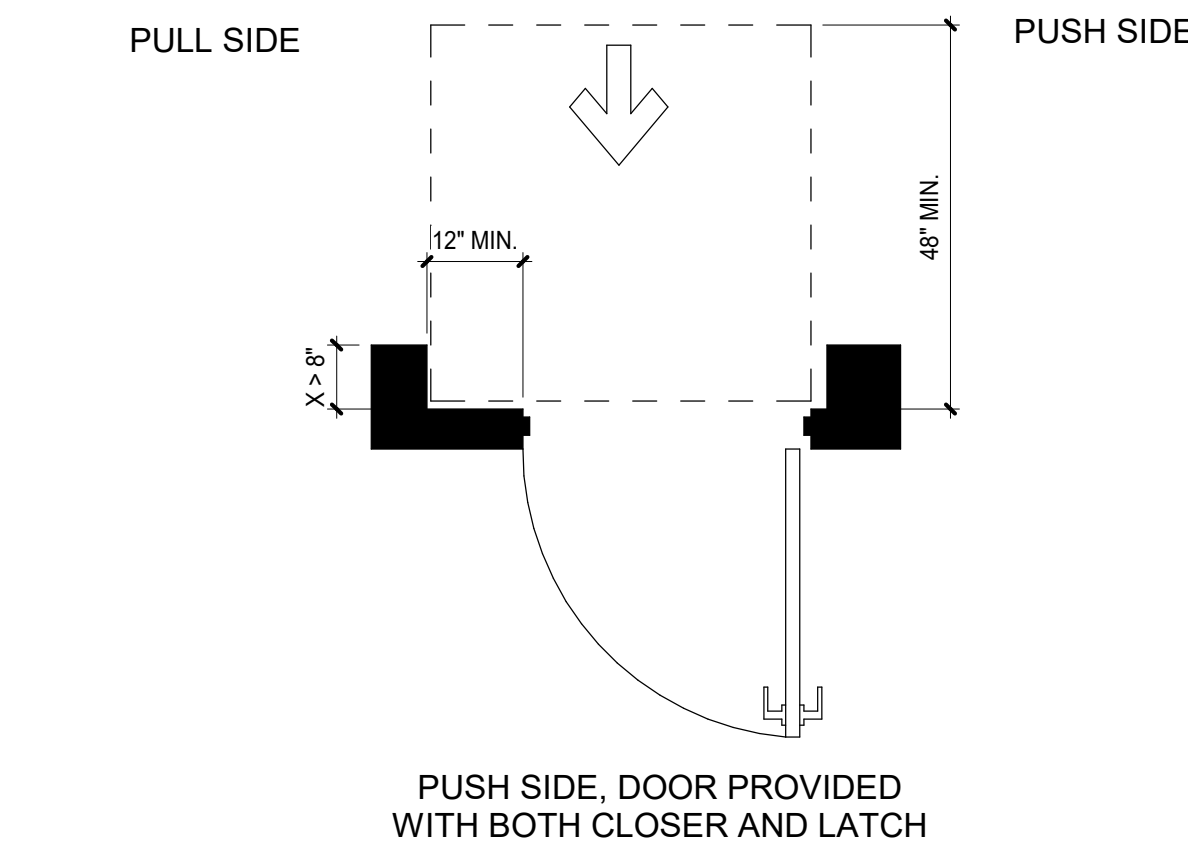
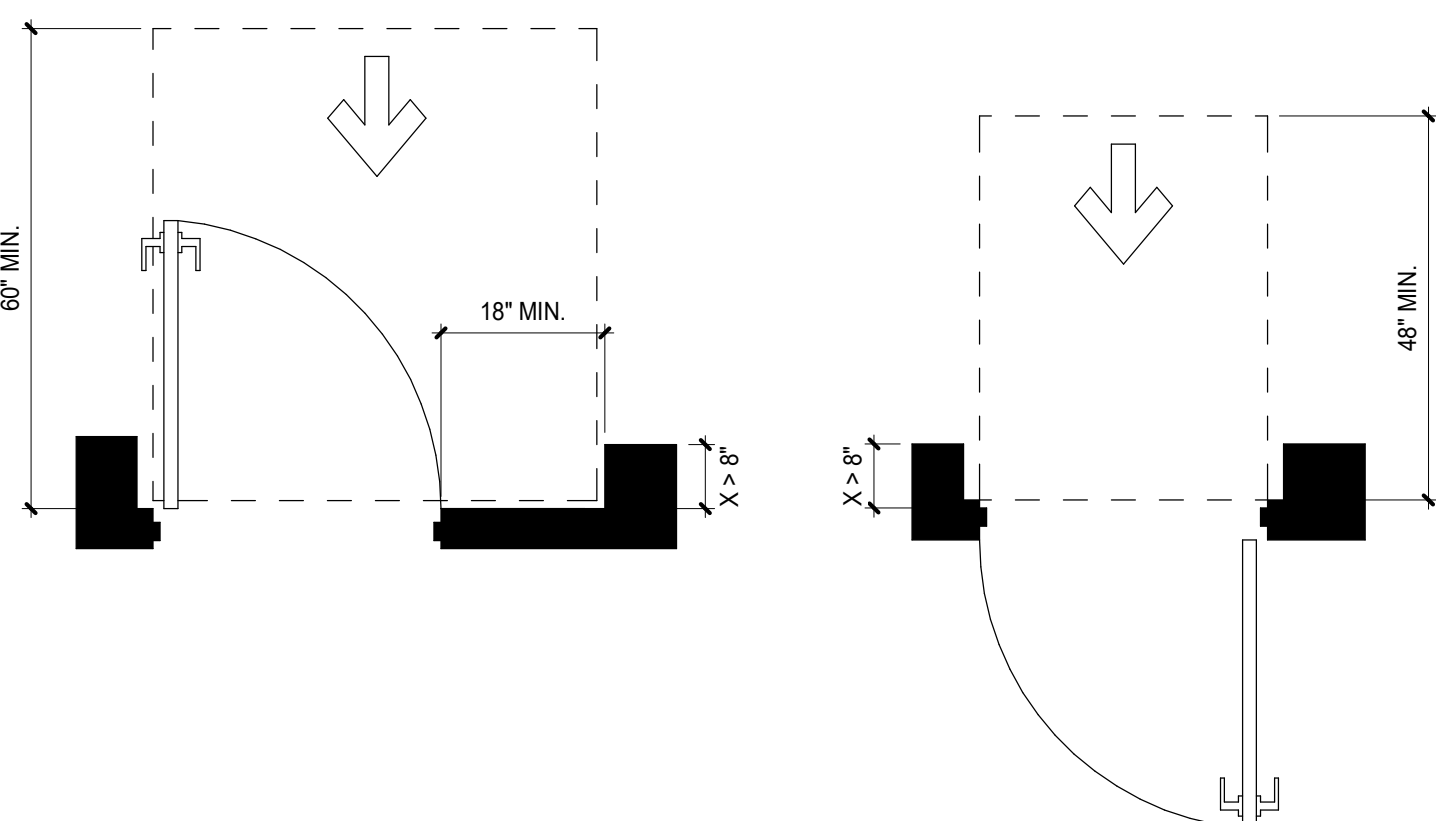
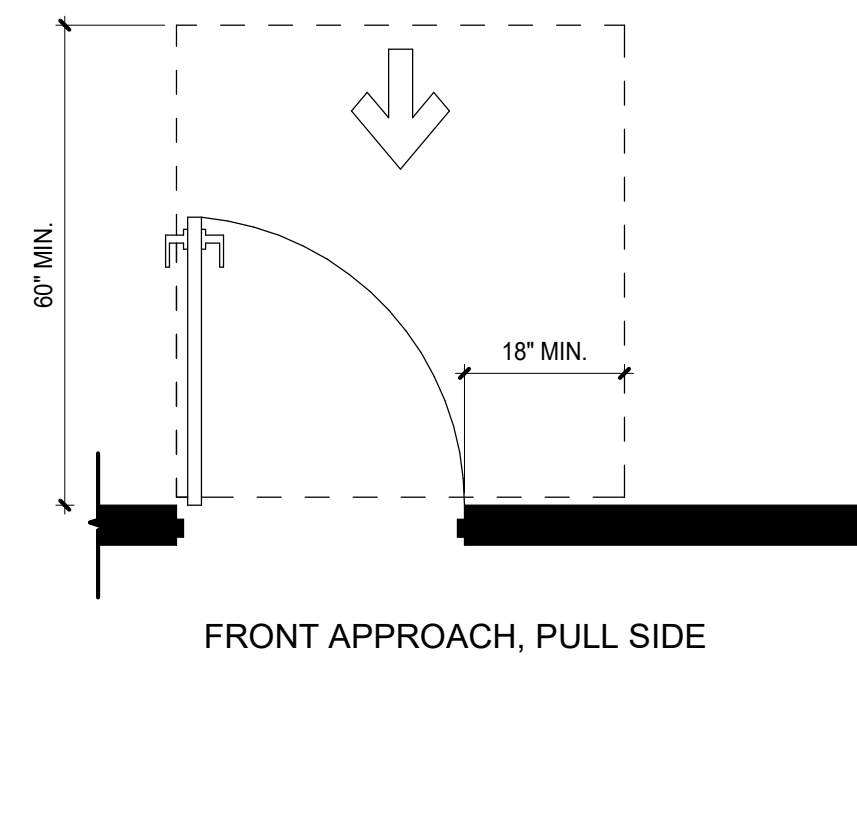
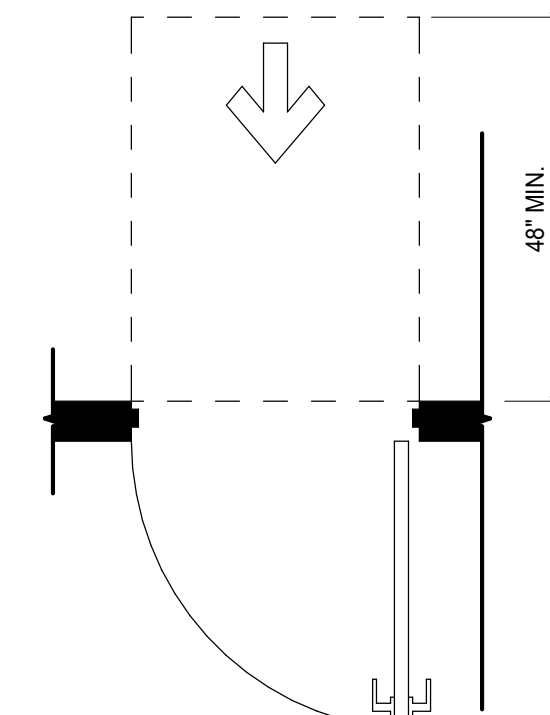


FIGURE 404.2.4.3
MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES
SCALE: 1/2" = 1'-0"

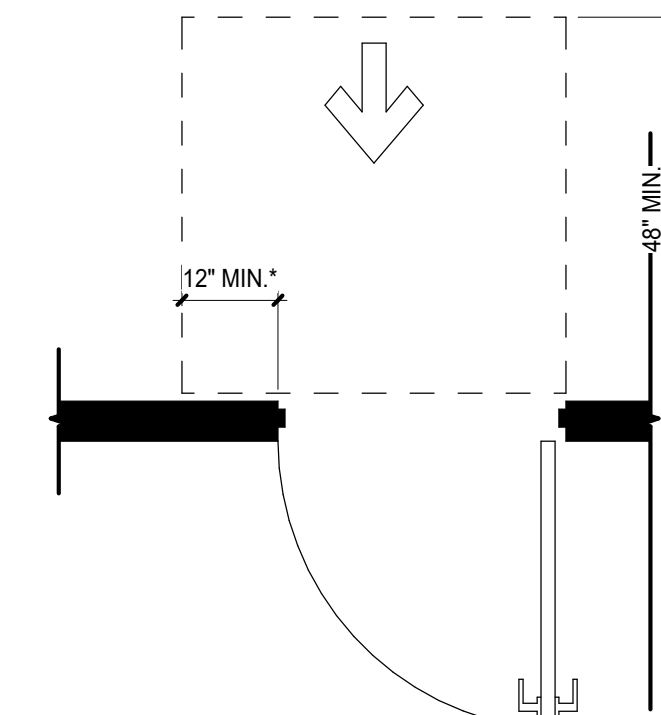
A3



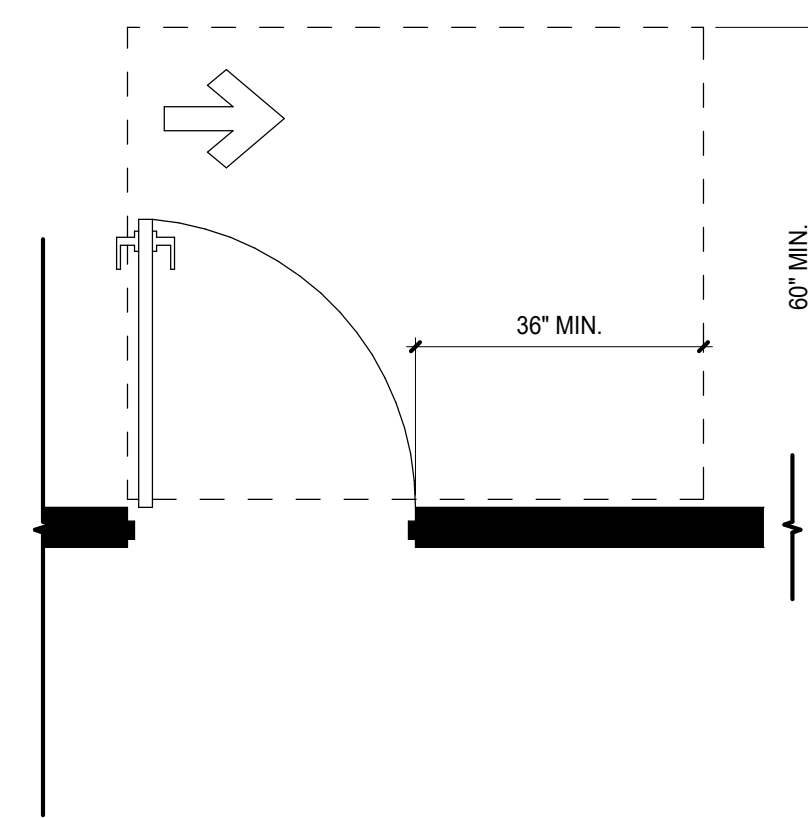
FRONT APPROACH, PULL SIDE



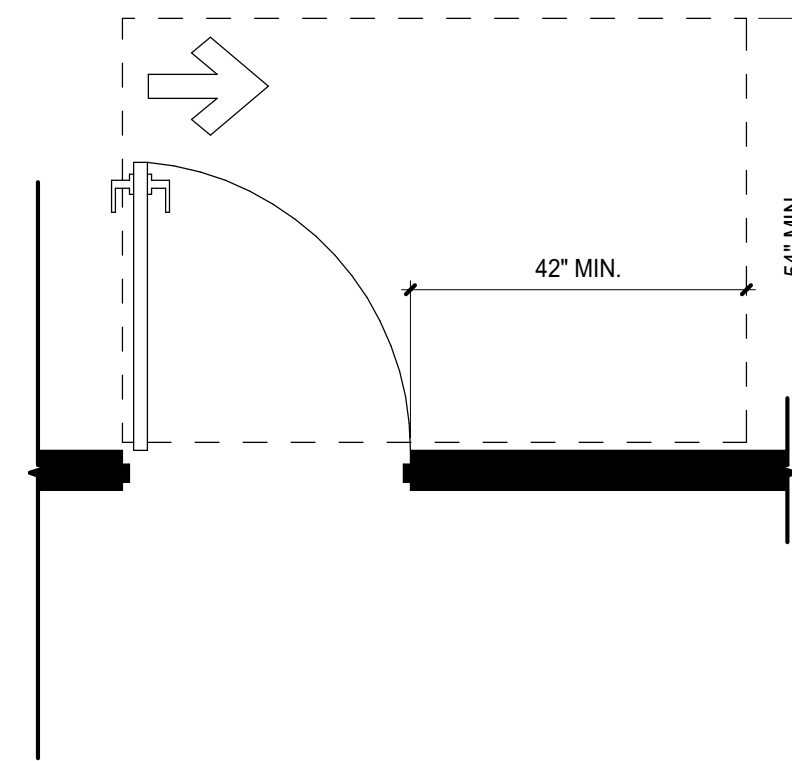
FRONT APPROACH, PUSH SIDE



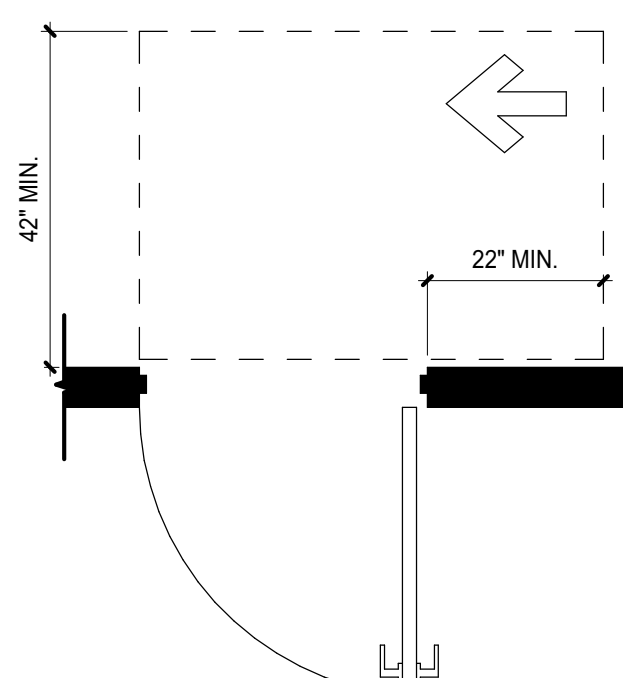
FRONT APPROACH, PUSH SIDE, PROVIDED WITH BOTH CLOSER AND LATCH



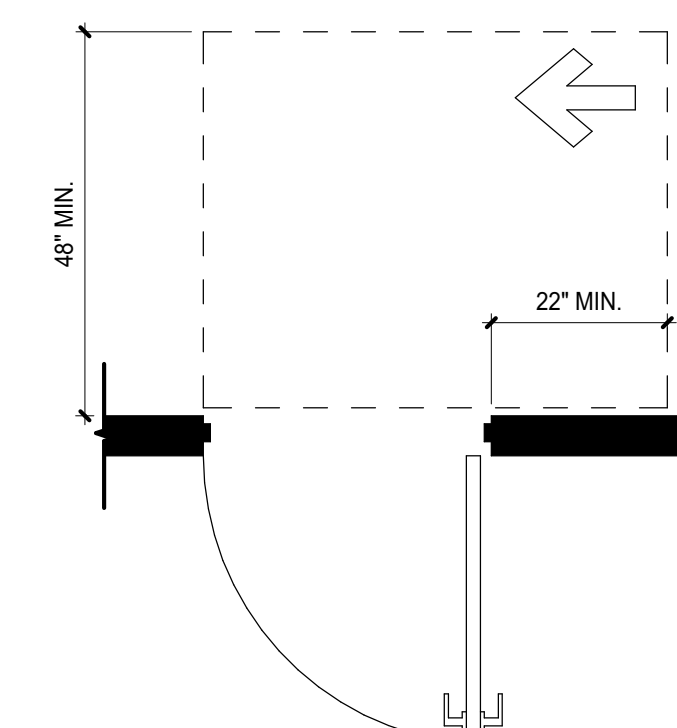
HINGE APPROACH, PULL SIDE



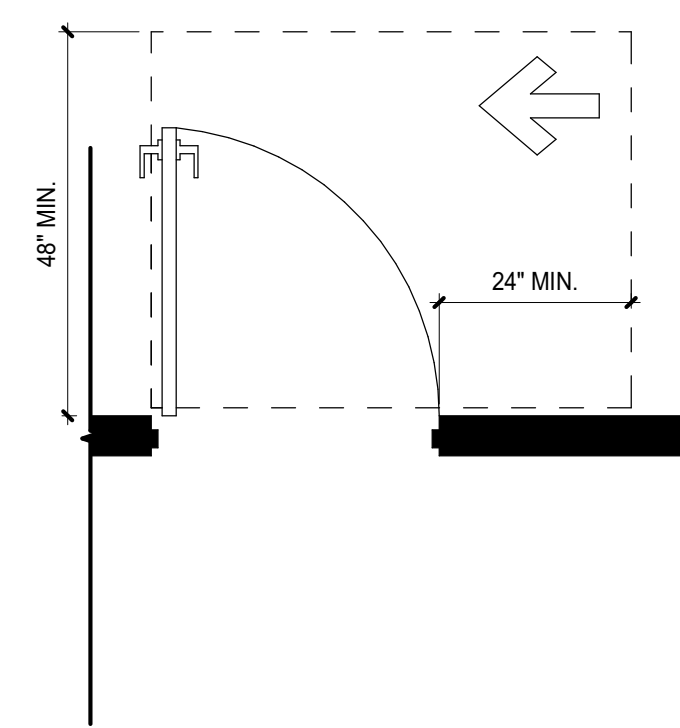
HINGE APPROACH, PULL SIDE



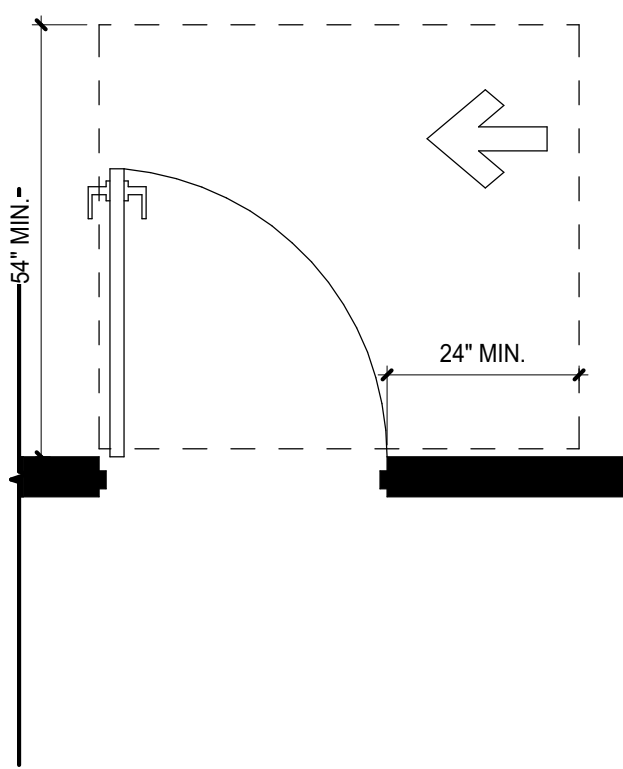
HINGE APPROACH, PUSH SIDE



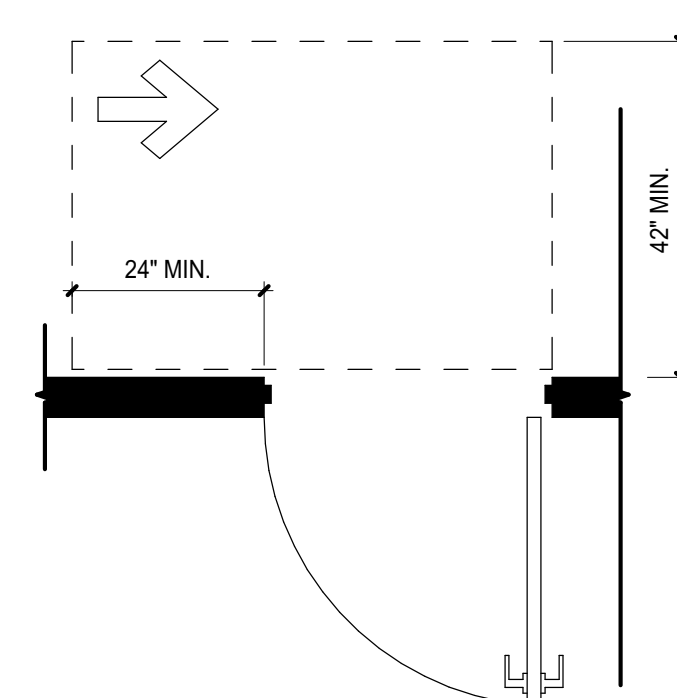
HINGE APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH



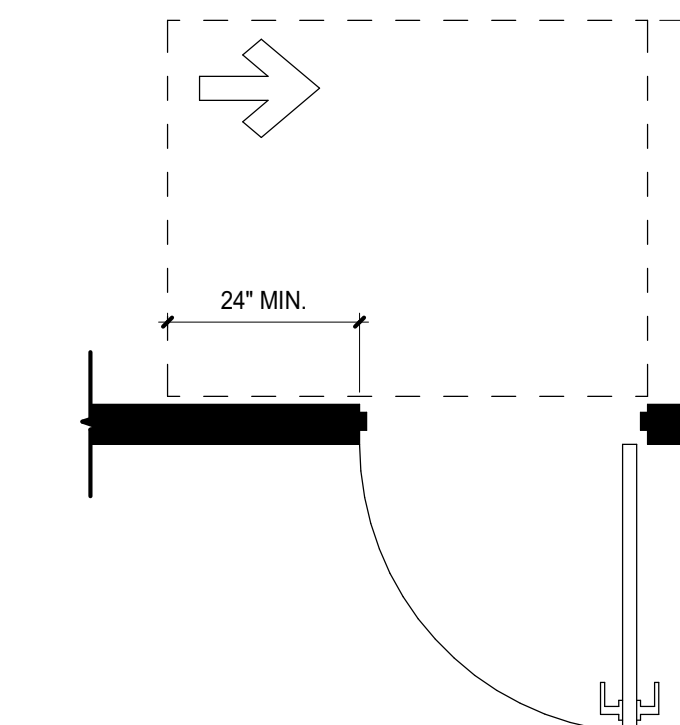
LATCH APPROACH, PULL SIDE



LATCH APPROACH, PULL SIDE, DOOR PROVIDED WITH CLOSER



LATCH APPROACH, PUSH SIDE



LATCH APPROACH, PUSH SIDE, DOOR PROVIDED WITH CLOSER

FIGURE 404.2.4.1
MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES
SCALE: 1/2" = 1'-0"

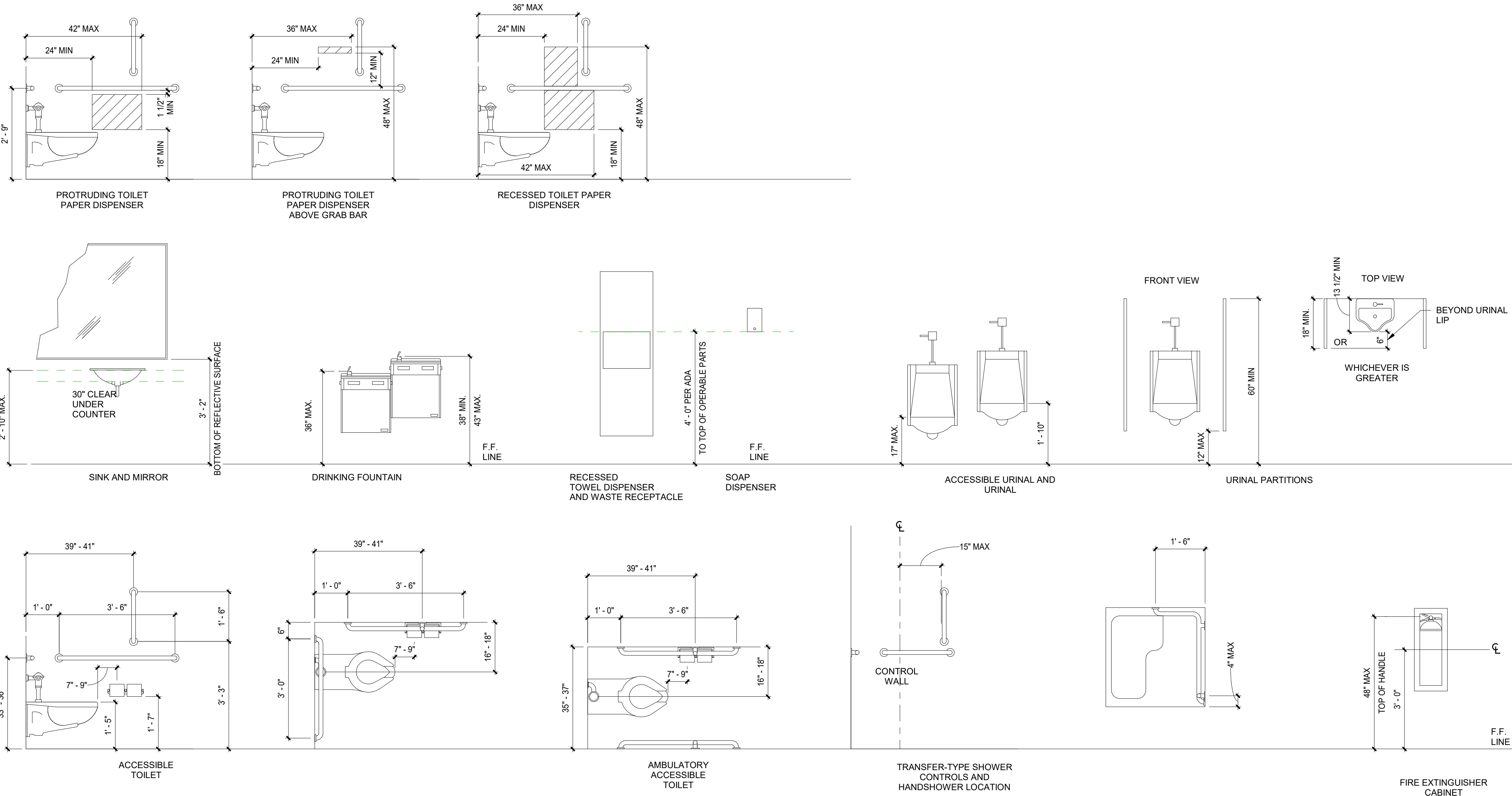
A5

REFERENCE NOTES

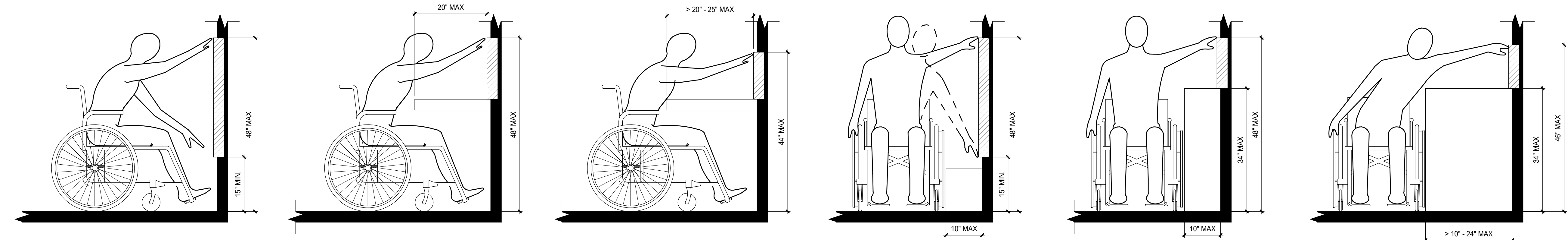
5/09/2024 9:21:42 a.m.

A B C D E

REFERENCE NOTES



B1 ADA FIXTURE REQUIRMENTS
SCALE: 1/2" = 1'-0"



A1 ACCESIBLE REACH RANGE FIGURES
SCALE: 3/4" = 1'-0"

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

GENERAL PROJECT NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM WITH THE CURRENT LOGAN CITY STANDARDS AND SPECIFICATIONS AND WITH ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES AND LAWS.
2. THE CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY TO COMPLETE THE CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE SITE CONSTRUCTION WITH ALL UTILITY CONSTRUCTION (POWER, TELEPHONE, GAS, CABLE, ETC.) AND OTHER WHICH MAY BE SPECIFIC TO THE PROJECT.
4. DEVELOPER AND THEIR CONTRACTOR(S) TO ATTEND A PRE-CONSTRUCTION MEETING WITH LOGAN CITY ENGINEERING AND PUBLIC WORKS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION
5. DEVIATION FROM THESE PLANS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
6. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATIONS AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATING, RELOCATION, AND TIE-IN TO UTILITIES. ALSO, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL INSPECTORS, INCLUDING LOGAN CITY INSPECTORS PRIOR TO BEGINNING SITE CONSTRUCTION.
7. IN THE CASE OF UNFORESEEN CONSTRUCTION COMPLICATIONS OR DISCREPANCIES, THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY.
8. THE PLANS WERE PREPARED IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING DESIGN. THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE PLANS AS CONSTRUCTED EXCEPT WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

CONSTRUCTION SITE SAFETY

1. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
2. WORKERS AND THE PUBLIC SHALL BE PROTECTED BY THE CONTRACTOR FROM ANY AND ALL HAZARDS CONNECTED WITH THE CONSTRUCTION WORK.
3. OPEN TRENCHES, MATERIALS, OR EQUIPMENT WITHIN THE WORKING LIMITS ARE TO BE PROTECTED BY THE USE OF ADEQUATE BARRICADES.
4. ALL WORK SHALL BE IN CONFORMANCE WITH CURRENT OSHA REGULATIONS FOR PROJECTS OF THIS TYPE.
5. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S WORK IS NOT INTENDED TO INCLUDE THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES EITHER, ON, OR NEAR THE CONSTRUCTION SITE.

CONCRETE

1. CONCRETE SHALL BE FURNISHED BY A CONCRETE MIXING PLANT, AND SHALL MEET INDUSTRY STANDARDS FOR PORTLAND CEMENT, AGGREGATE, COMPRESSIVE STRENGTH, AND SLUMP.
2. RUB. CURE, AND PROTECT CONCRETE STRUCTURES, CURBS, AND/OR CURB AND GUTTER. PROVIDE EXPANSION AND CONTRACTION JOINTS PER THE SPECIFICATIONS

EARTHWORK

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT COMPLETED BY XXX, INC., DATED XXXXXX.

TRAFFIC CONTROL AND SIGNAGE

1. THE CONTRACTOR SHALL MAINTAIN INGRESS/EGRESS ACCESS TO INDIVIDUAL PROPERTY OWNERS AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE DETOURS AND ANY TEMPORARY CLOSURES WITH EACH PROPERTY OWNER AND THE LOGAN CITY ENGINEERING DEPARTMENT. THE CONTRACTOR SHALL KEEP DURATION OF ALL CLOSURES AND DETOURS TO A MINIMUM.
2. THE CONTRACTOR SHALL MAINTAIN TEMPORARY DETOUR ROADS UNTIL A DETOUR IS NO LONGER NECESSARY.
3. THE CONTRACTOR SHALL FOLLOW THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION.
4. THE CONTRACTOR SHALL FOLLOW UDOT STANDARD DRAWINGS WHEN SETTING UP THE TRAFFIC CONTROL DEVICES WITHIN UDOT RIGHT-OF-WAYS.

REMOVALS

1. ANY EXISTING STRUCTURES DISTURBED BY CONSTRUCTION NOT EXPLICITLY SHOWN TO BE DISTURBED WITHIN THESE PLANS ARE TO BE RESTORED TO THEIR ORIGINAL LOCATION AND CONDITION. ALL STRUCTURES SUCH AS CURB AND GUTTER, CONCRETE AND BITUMINOUS SIDEWALKS, PAVING BRICKS, FENCING, RETAINING WALLS, ETC., IMPACTED BY THE PROPOSED IMPROVEMENTS MAY NOT BE INDICATED.
2. EXCESS EXCAVATED MATERIALS INCLUDING PIPE, STUMPS, ROOTS, SOIL MATERIALS OR ANY OTHER ITEMS THE OWNER DOES NOT WISH TO SALVAGE SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. INCIDENTAL TO THE CONTRACT. ASPHALT AND CONCRETE SHALL BE DISPOSED OF OFFSITE AT A LICENSED LANDFILL, INCIDENTAL TO THE CONTRACT.

UTILITY NOTES

1. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES EITHER DIRECT OR THROUGH BLUE STAKE TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION.
2. CONTRACTOR TO VERIFY BY POTHOLING BOTH THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLING ANY NEW LINES. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY THEIR WORK FORCE.
3. CONTRACTOR MUST START AT LOW END OF ALL NEW GRAVITY UTILITY LINES. MECHANICAL SUB-CONTRACTOR MUST BE PROVIDED CIVIL SITE DRAWINGS FOR COORDINATION AND TO CHECK THE FLOW FROM THE LOWEST POINT IN BUILDING TO THE FIELD VERIFIED CONNECTION AT THE EXISTING MAIN. NO EXTRA COMPENSATION IS TO BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS.
4. CONTRACTOR IS TO VERIFY LOCATION, DEPTH, SIZE, TYPE, AND OUTSIDE DIAMETERS OF UTILITIES IN THE FIELD BY POTHOLING A MINIMUM OF 300 FEET AHEAD, PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNED PIPELINE GRADE AND ALIGNMENT. EXISTING UTILITY INFORMATION SHOWN ON PLANS OR OBTAINED FROM UTILITY COMPANIES OR BLUE STAKED MUST BE ASSUMED AS APPROXIMATE, REQUIRING FIELD VERIFICATION.
5. CULINARY WATER AND FIRE SERVICE LINES TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.
6. SANITARY SEWER MAINS AND LATERALS TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY SEWER DISTRICT STANDARDS AND SPECIFICATIONS.
7. STORM DRAIN TO BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.
8. ALL STORM DRAIN PIPE PENETRATIONS INTO BOXES SHALL BE CONSTRUCTED WITH WATER TIGHT SEALS ON THE OUTSIDE AND GROUTED SMOOTH WITH A NON-SHRINK GROUT ON THE INSIDE. CONDUITS SHALL BE CUT OFF FLUSH WITH THE INSIDE OF THE BOX.
9. NO CHANGE IN THE DESIGN OF UTILITIES AS SHOWN WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE GOVERNING MUNICIPALITY, OR OTHER AUTHORITY HAVING JURISDICTION OVER THAT UTILITY.

GRADING NOTES

1. THE CONTRACTOR SHOULD VERIFY THE QUANTITIES FOR COMPLETION OF WORK. QUANTITIES ARE BASED ON FINISH GRADE OF PAVING AND BUILDING SLAB.
2. ALL IMPORTED STRUCTURAL FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO DELIVERY TO THE SITE. ALL IMPORTED STRUCTURAL FILL SHALL BE PLACED IN 8-INCH LOOSE HORIZONTAL LIFTS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY (ASTM D-1557).
3. ALL EXCAVATION, GRADING AND FILL OPERATIONS WITHIN THE BUILDING AREA SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER TO VERIFY SUB-SOIL CONDITIONS AND DETERMINE ADEQUACY OF SITE PREPARATION, SUITABILITY OF FILL MATERIALS AND COMPLIANCE WITH COMPACTION REQUIREMENTS.
4. THE CONTRACTOR SHALL PROVIDE SUITABLE EQUIPMENT TO CONTROL DUST AND AIR POLLUTION CAUSED BY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL ALSO PROVIDE SUITABLE MUD AND DIRT CONTAINMENT TO MAINTAIN THE WORK SITE, ACCESS ROADWAYS AND ADJACENT PROPERTIES IN A CLEAN CONDITION.
5. ALL EXCAVATION AND GRADING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOGAN CITY AND APPENDIX K OF THE UNIFORM BUILDING CODE. AND THE SPECIFICATIONS AND REQUIREMENTS INCLUDED IN THE GEOTECHNICAL REPORT.
6. CONTRACTOR IS RESPONSIBLE FOR ALL ON-SITE INTERIM DRAINAGE AND DETENTION DURING CONSTRUCTION.

EROSION CONTROL NOTES

1. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A UPDES PERMIT. CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS OF THE UPDES PERMIT AND SWPPP.
2. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL FACILITIES SHOWN.

3. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED UPON INSPECTION OF PROPOSED FACILITIES.
4. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STREETS CLEAN AND FREE FROM DEBRIS FROM TRAFFIC FROM THE SITE.
5. ALL STORM DRAIN FACILITIES ON SITE AND ADJACENT TO THE SITE NEED TO BE PROTECTED FROM SITE RUNOFF. INLET PROTECTION DEVICES SHALL BE INSTALLED IMMEDIATELY UPON INDIVIDUAL INLETS BECOMING FUNCTIONAL.
6. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE PAVED, SEEDED WITH NATIVE VEGETATION, OR LANDSCAPED. REFER TO LANDSCAPE PLANS FOR SEED MIX AND PLANTING SPECIFICATIONS.
7. EROSION CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING ARE IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION. EROSION CONTROL IN PROPOSED PAVEMENT AREAS SHALL REMAIN IN PLACE UNTIL PAVEMENT IS COMPLETE.
8. CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY AND REMOVED WHEN THE SITE IS PAVED.
9. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, ETC.) SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT WITH STORM WATER DISCHARGES FROM THE SITE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT.
11. ALL OFF-SITE CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
12. ALL MEASURES CONTAINED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT. ANY NEEDED CLEANING AND REPAIRS NEED TO BE DONE IMMEDIATELY UPON DISCOVERY. ALL UTILITY LINES SHALL BE CLEANED OF DIRT AND DEBRIS PRIOR TO BEING PUT INTO SERVICE DOWN-GRADE LINES MUST BE PROTECTED FROM WASH-WATER DURING THE CLEANING TO AVOID CONTAMINATION AND COMPROMISING OUTFALL CLEANLINESS.

DUST CONTROL NOTES

TEMPORARY MODIFICATION MEASURES

1. BLOWING DUST MUST BE CONTROLLED AT ALL TIMES. INSTALLATION OF A SILT SCREEN AND SITE WATERING SHALL BE USED TO CONTROL DUST. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS ABSOLUTELY PROHIBITED.
2. VEGETATIVE COVERINGS: TEMPORARY SEEING AND MULCHING MAY BE APPLIED TO COVER BARE SOIL AND TO PREVENT WIND EROSION. THE SOIL MUST BE KEPT MOIST TO ESTABLISH COVER.
3. BARRIERS: SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND BLOWN SOIL. BARRIERS PLACES AT RIGHT ANGLES TO PREVAILING WIND CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.
4. CALCIUM CHLORIDE: THIS MATERIAL IS APPLIED AT A RATE THAT WILL KEEP THE SURFACE MOIST. PRETREATMENT MAY BE NECESSARY DUE TO VARYING SITE AND CLIMATIC CONDITIONS.
5. IRRIGATION: THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. THE SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET AND REPEATED AS NECESSARY. IF THIS METHOD IS TO BE EMPLOYED AT A CONSTRUCTION SITE, IT IS RECOMMENDED THAT A TEMPORARY GRAVEL ROCK ENTRANCE BE CREATED TO PREVENT MUD FROM SPREADING ONTO LOCAL STREETS.
6. TILLAGE: THIS PRACTICE ROUGHENS THE SOIL AND BRINGS CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE THAT SHOULD BE USED BEFORE WIND EROSION STARTS. PLOWING SHOULD BEGIN ON THE WINDWARD SIDE OF THE SITE USING CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTH HARROWS, OR SIMILAR PLOWS.
7. ADHESIVES: USE SPRAY-ON ADHESIVES ACCORDING TO CITY STANDARDS. THESE ADHESIVES FORM FAIRLY IMPENETRABLE SURFACES, AND SHOULD BE USED ONLY IF OTHER METHODS PROVE TO BE DIFFICULT TO WORK WITH.

PERMANENT SITE MODIFICATION MEASURES

1. PERMANENT VEGETATION: SEEDING AND SODDING SHOULD BE DONE TO PERMANENTLY STABILIZE EXPOSED AREAS AGAINST WIND EROSION. IT IS RECOMMENDED THAT EXISTING TREES AND LARGE SHRUBS BE ALLOWED TO REMAIN IN PLACE TO THE GREATEST EXTENT POSSIBLE DURING SITE GRADING PROCESSES.
2. COARSE GRAVEL OR CRUSHED STONE MAY BE PLACED OVER HIGHLY ERODIBLE SOILS.
3. TOPSOILING: THIS METHOD IS RECOMMENDED WHEN PERMANENT VEGETATION CANNOT BE ESTABLISHED ON A SITE. TOPSOILING IS A PROCESS IN WHICH LESS EROSION MATERIAL IS PLACED ON TOP OF HIGHLY ERODIBLE SOILS.

GENERAL SIDEWALK RAMP NOTES

1. THE STANDARD CURB-RAMP LAYOUT SHALL BE USED WHENEVER POSSIBLE. ANY DEVIATION FROM THE STANDARD CURB RAMP PLANS SHALL BE APPROVED BY THE CITY ENGINEER OR DESIGNEE ON A CASE BY CASE BASIS.
2. THE STANDARD CURB RAMP DRAWINGS SUPERSEDE ALL PREVIOUS DRAWINGS AND SHALL BE PART OF THE NEW CURB RAMP STANDARD DRAWINGS.
3. ALL ALTERNATE RAMPS SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
4. SEAL ALL JOINTS ON SIDEWALK AND RAMPS. MAXIMUM WIDTH OF EXPANSION JOINT IS 1/2"

CURB RAMP NOTES

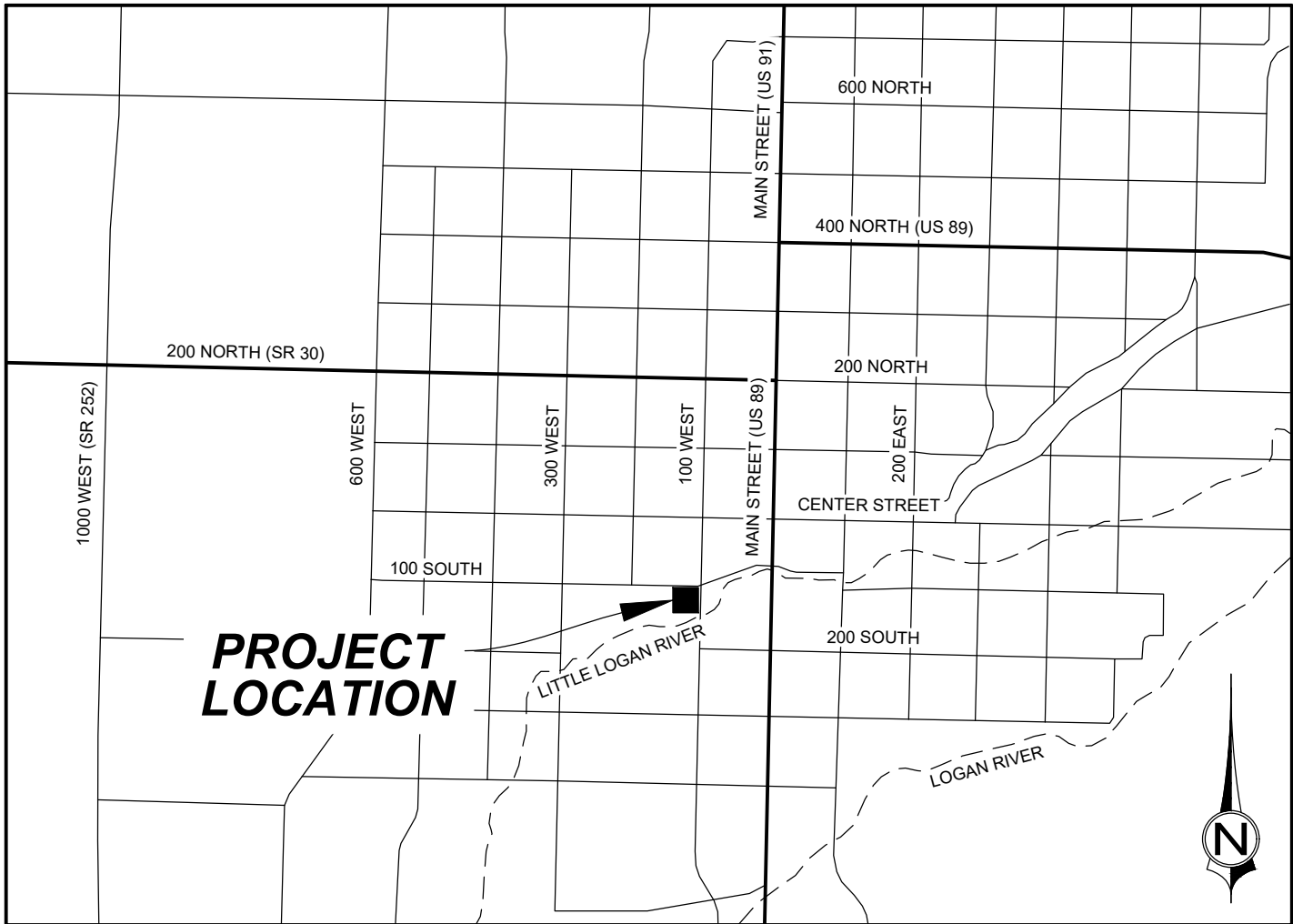
1. A CURB RAMP IS DEFINED AS THE ENTIRE CONCRETE SURFACE WHICH INCLUDES THE RAMP & FLARED SIDES. THE MINIMUM 4' WIDE CENTER PORTION, INCLUDING THE DETECTABLE SURFACE, SHALL HAVE A SLOPED PLANE OF 8.33% (1:12) MAXIMUM, AND CROSS SLOPE, NOT TO EXCEED 2%. THE "FLARED SIDE" OF THE RAMP SHALL LIE ON A SLOPE OF 10% (1:10) MAXIMUM MEASURED ALONG THE CURB. THE CURB RAMP SHALL HAVE A SURFACE TOLERANCE OF 1/4" PER 10 FOOT STRAIGHT EDGE MAXIMUM.
2. THE RAMP CENTER LINE AND PATH OF TRAVEL SHOULD BE PARALLEL TO THE SIDEWALK WHENEVER POSSIBLE. THE FULL WIDTH OF THE RAMP SHALL LIE WITHIN THE CROSSWALK AREA. IT IS DESIRABLE THAT THE LOCATION OF THE RAMP BE AS CLOSE AS POSSIBLE TO THE CENTER OF THE CROSSWALK.
3. THE 4'-0" MIN. DISTANCE BETWEEN FLARED SIDES OF THE TWO ADJACENT CURB RAMPS MAY BE REDUCED TO 3'-0" WITH DOCUMENTATION OF HANDSHIP INDICATING LEGAL AND OR PHYSICAL CONSTRAINTS PROVIDED TO THE CITY ENGINEER.
4. EXISTING UTILITY BOXES AND COVERS SHALL BE ADJUSTED FLUSH WITH THE CURB RAMP SURFACE AND SHALL NOT STRADDLE ANY CHANGE IN PLANE OR MATERIAL. EXISTING UTILITY BOX FRAMES AND COVERS SHALL HAVE MATCHING SURFACE FINISH ON THE ENTIRE FRAME AND COVER. NEW UTILITY BOXES SHALL NOT BE PLACED WITHIN THE DETECTABLE BORDER.
5. THE SURFACE OF THE CURB RAMP AND DETECTABLE SURFACE MATERIAL SHALL BE STABLE, FIRM AND SLIP RESISTANT. THE CONCRETE CURB RAMP SURFACE SHALL BE BROOM FINISHED TRANSVERSE TO THE AXIS OF THE RAMP AND SHALL BE SLIGHTLY ROUGHER THAN THE FINISH OF THE ADJACENT SIDEWALK SURFACE.
6. A LEVEL LANDING 5'-0" DEEP, WITH A 2% MAXIMUM SLOPE IN ALL DIRECTIONS SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP TO ALLOW SAFE EGRESS FROM THE RAMP SURFACES. THE WIDTH OF THE LEVEL LANDING SHALL BE AT LEAST AS WIDE AS THE WIDTH OF THE RAMP. A LEVEL LANDING 4' DEEP SHALL BE PROVIDED AT ALL PEDESTRIAN PUSH BUTTONS AT SIGNALIZED CROSSINGS.
7. EXISTING VERTICAL UTILITY POLES OR STREET LIGHT POLES MAY BE INCORPORATED INTO THE FLARED SIDES, IF NECESSARY. THE VERTICAL OBSTRUCTION SHALL BE A MINIMUM OF 6 INCHES AWAY FROM EDGE OF THE RAMP. PEDESTRIAN CROSSWALKS PUSH BUTTON POLES, FIRE DEPARTMENT CALL BOXES AND OTHER POLES WITH ACTIVATED DEVICES, MAY NOT BE PLACED IN THE CURB-RAMP AT ANY TIME. NO NEW VERTICAL OBSTRUCTIONS MAY BE LOCATED IN THE CURB RAMP OR THE GROOVED BORDER.
8. RAMP OPENING SHALL BE THE SAME WIDTH AS THE SIDEWALK, UP TO 6'-0" WIDE
9. CURB RAMP SHALL BE CONSTRUCTED WITH CONCRETE AND BASE THICKNESS PER LOGAN CITY STANDARD DRAWINGS.
10. FOR NEW CONSTRUCTION -- ALL DETECTABLE WARNINGS ARE TO BE SET IN CONCRETE. SURFACE APPLIED DOMES REQUIRE SPECIAL WRITTEN APPROVAL BY THE CITY ENGINEER.
11. PLACE TRUNCATED DOME DETECTABLE WARNING SURFACE IN THE LOWER 2' OF THE THROAT OF RAMP ONLY. ARRANGE DOMES USING IN-LINE PATTERN ONLY AS SHOWN IN DETAIL. COLOR OF TEXTURE TO BE SAFETY YELLOW, OR AS DIRECTED BY ENGINEER.
12. SIDEWALK CURB RAMP SLOPES SHOWN RELATIVE TO TRUE LEVEL HORIZON (ZERO BUBBLE.) TOOLED JOINTS ARE REQUIRED AT ALL SIDEWALK RAMP SLOPE BREAK-LINES.

SIDEWALK NOTES

1. SIDEWALK WIDTH SHALL MATCH CITY STANDARDS OR SITE PLAN AS APPROVED.
2. SIDEWALK CROSS SLOPE SHALL BE A MAXIMUM OF 2% AND A MINIMUM OF 1/2%.
3. WHENEVER THE WIDTH OF THE SIDEWALK IS LESS THAN 5'-0", A 5' X 5' PASSING AREA WITH A MAXIMUM 2% SLOPE AND MINIMUM 1/2% SLOPE IN ANY DIRECTION AT INTERVALS OF 200' SHALL BE INSTALLED.
4. WHENEVER CHANGING DIRECTION IN A SIDEWALK, INSTALL A 5' X 5' PASSING AREA WITH MAXIMUM 2% SLOPE AND MINIMUM 1/2% SLOPE IN ANY DIRECTION.
5. OBJECTS SUCH AS TREE BRANCHES, SIGNS, WATER FOUNTAINS, ETC. SHALL NOT PROTRUDE INTO THE SIDEWALK MORE THAN 4" AT THE HEIGHTS BETWEEN 27" AND 80".
6. SIDEWALK SHALL BE CONSTRUCTED WITH CONCRETE AND BASE THICKNESS PER LOGAN CITY STANDARD DRAWINGS.
7. ALL OBSTRUCTIONS INTO THE WALK, SUCH AS POWER POLES, HYDRANTS, SIGN POSTS, ETC. MUST HAVE AT LEAST 48" OF CLEAR TRAVEL SPACE AROUND THE OBSTRUCTION.
8. PROVIDE CONTRACTION JOINTS IN SIDEWALK AT MAXIMUM 5' SPACING. MATCH JOINTS IN CURB AND GUTTER.
9. PROVIDE EXPANSION JOINTS IN SIDEWALK AT MAXIMUM 50' SPACING. MATCH JOINTS IN CURB AND GUTTER.

AMERICANS WITH DISABILITIES ACT

1. ADA PARKING STALLS AND ADJACENT ROUTES SHALL HAVE A 2.00% MAXIMUM SURFACE SLOPE IN ANY DIRECTION.
2. THE CONTRACTOR SHALL ADHERE TO THE ABOVE SPECIFICATIONS. IN THE EVENT OF A DISCREPANCY IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO ANY CONSTRUCTION.
3. PEDESTRIAN / ADA ROUTES SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - 3.a. "ROUTES SHALL HAVE A 2.00% (1:50) MAXIMUM CROSS SLOPE.
 - 3.b. "ROUTES SHALL HAVE A 5.00% (1:20) MAXIMUM RUNNING SLOPE.
 - 3.c. "RAMPS SHALL HAVE A 8.33% (1:12) MAXIMUM RUNNING SLOPE.



VICINITY MAP (N.T.S.)

SHEET INDEX	
SHEET	SHEET TITLE
GN01	GENERAL NOTES
GN02	LEGEND & ABBREVIATIONS
DT01	DETAILS
DM01	DEMOLITION PLAN
SP01	SITE & UTILITY PLAN
GP01	GRADING & DRAINAGE PLAN
EC01	SWPPP SITE PLAN



DATE REVISION

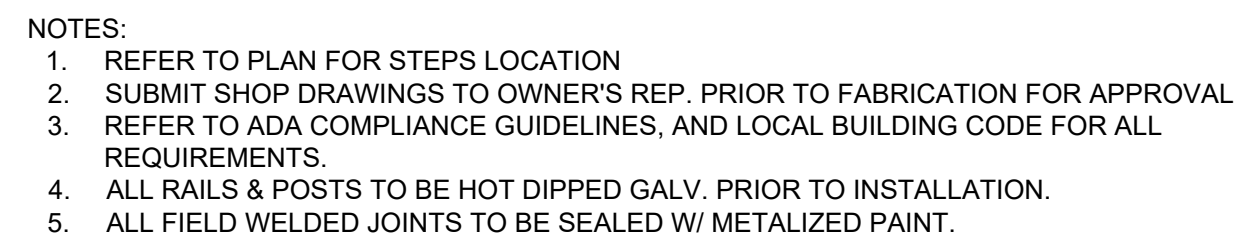
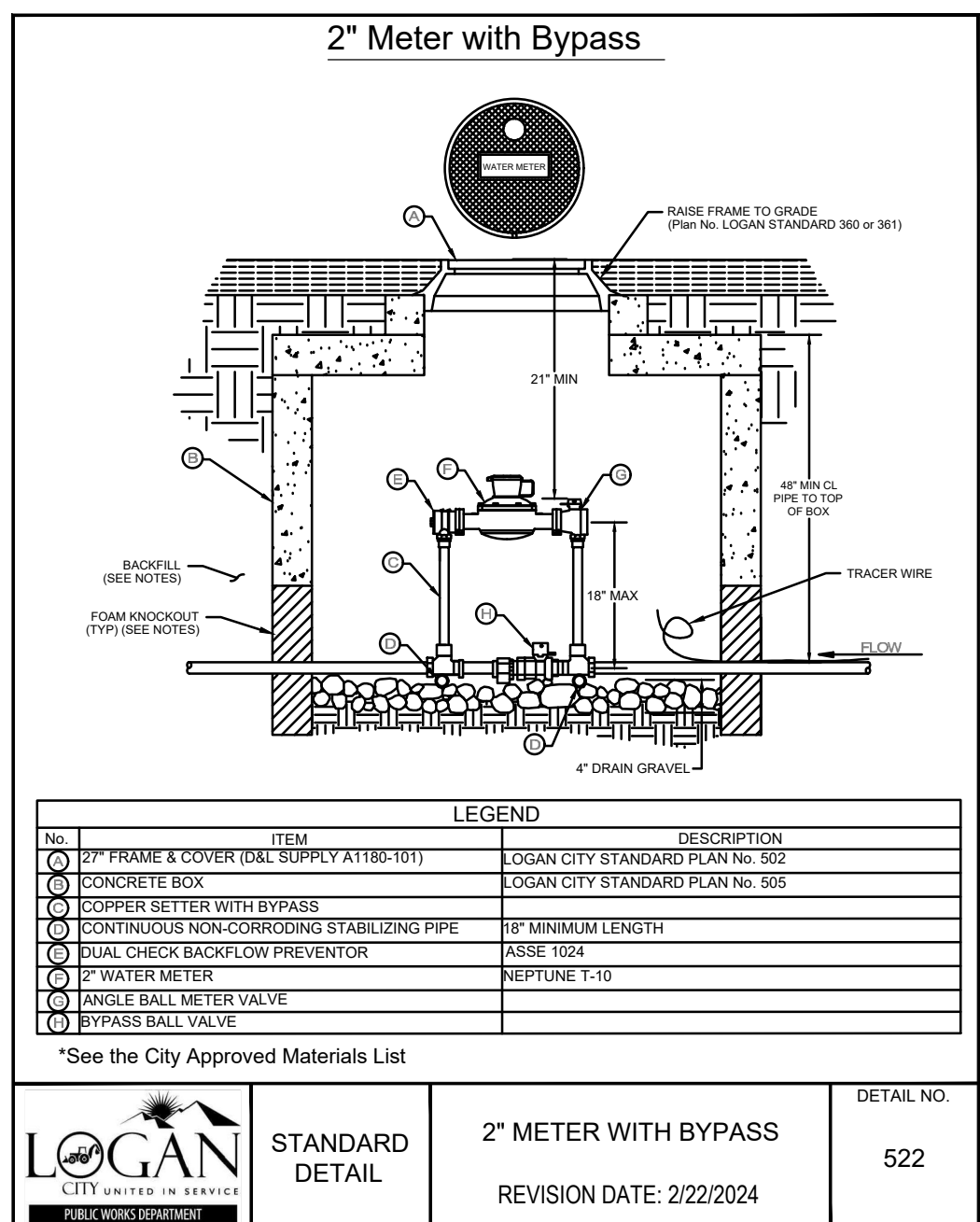
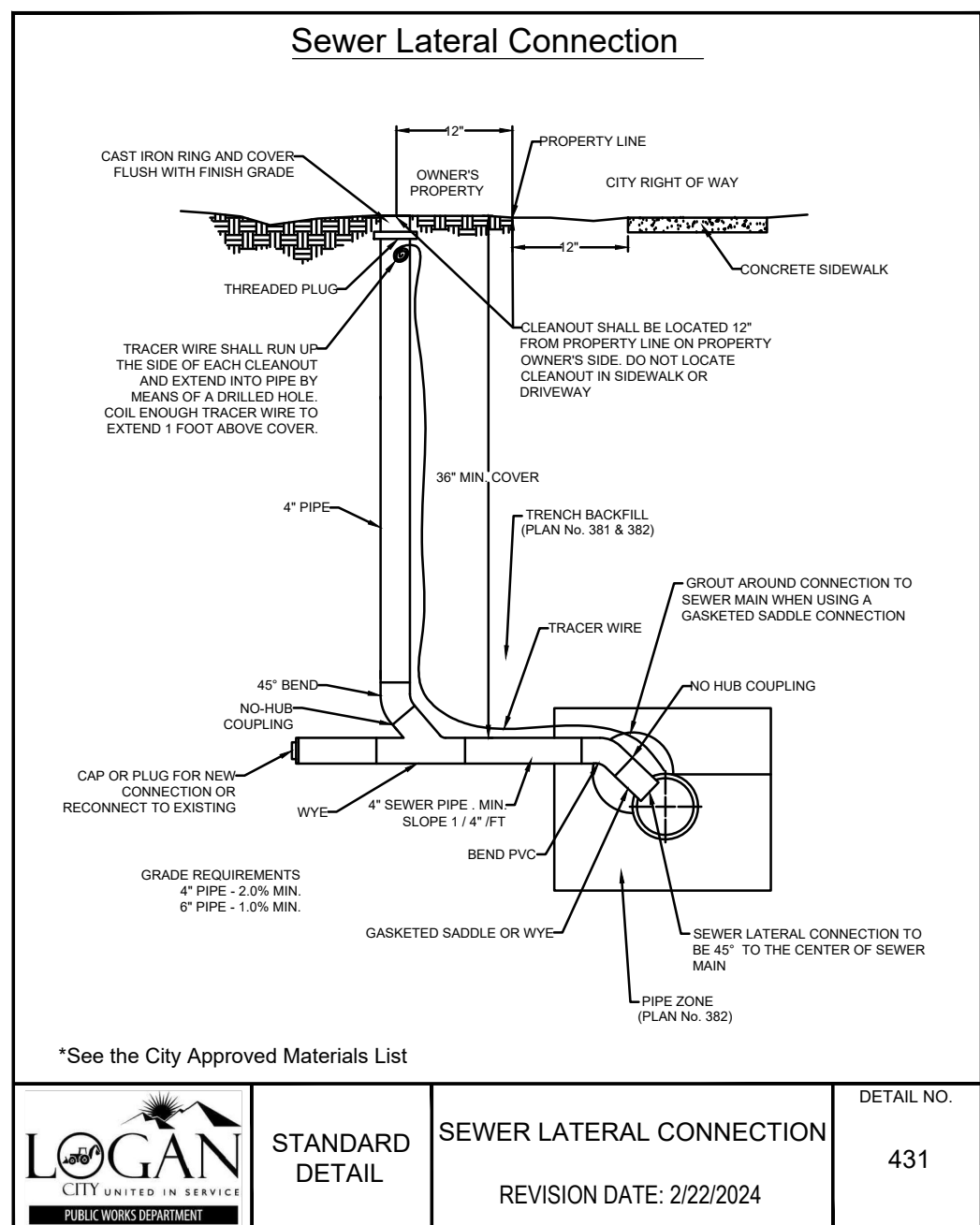
DATE NOV. 2024
PROJECT NUMBER FF-24179.00

GENERAL NOTES

GN01



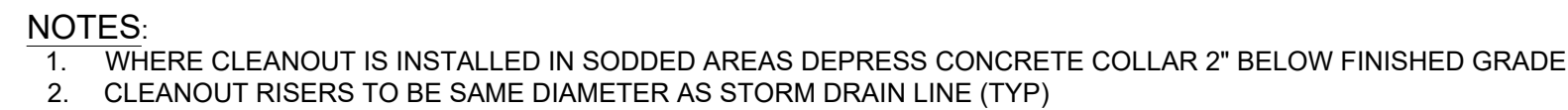
Know what's below.
Call before you dig.



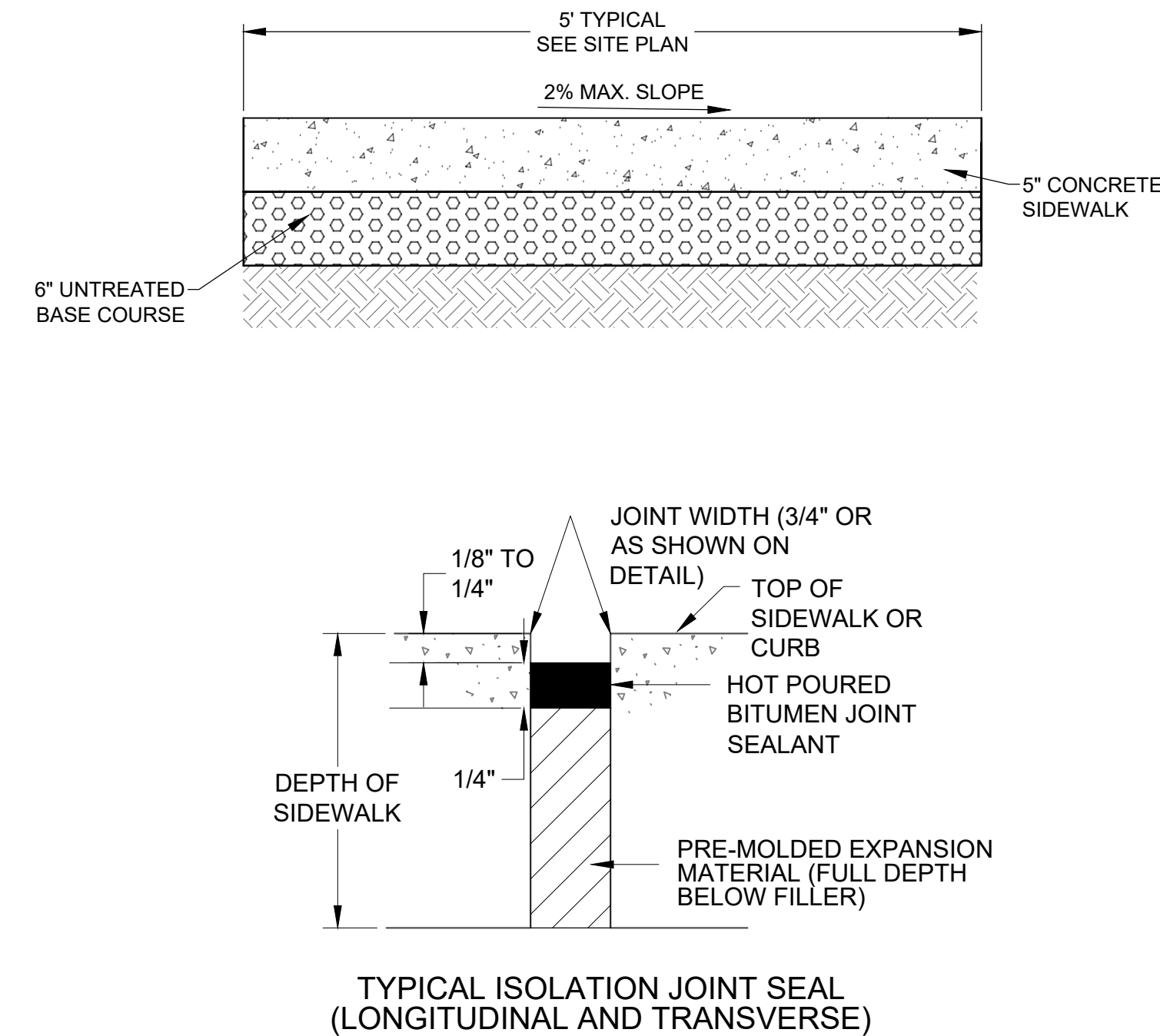
2 LOGAN CITY 2" METER WITH BYPASS
N.T.S.



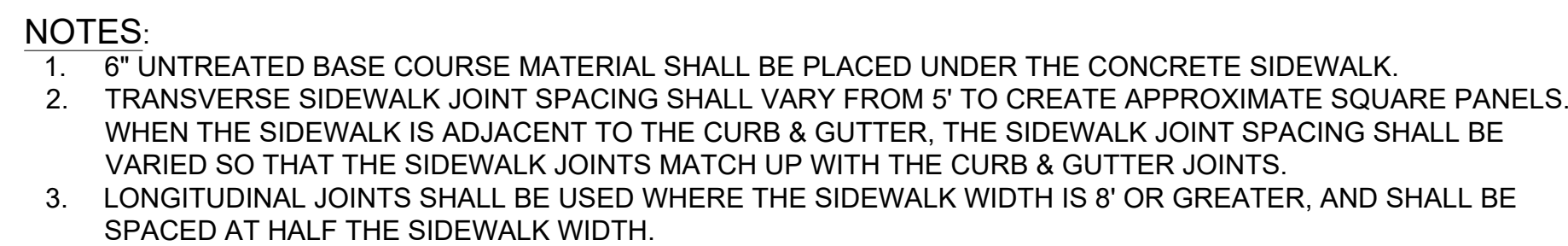
1. CONCRETE SHALL BE 4000 PSI @ 28 DAYS. INLET MAY BE CAST-IN-PLACE OR PRECAST AND SHALL CONFORM TO ASTM C-478. (PRECAST BOX SHOWN)
2. CAST-IN-PLACE CONCRETE WALLS SHALL BE 6" MIN. THICKNESS WITH TWO CHAMFERED EDGES.
3. ALL WALLS & BASE SHALL BE REINFORCED WITH #4'S @ 8" OC EACH WAY REINFORCING BARS SHALL BE DEFORMED AND SHALL HAVE A 2" MINIMUM CLEARANCE.
4. ALL GRATES AND FRAMES SHALL BE GRAY OR DUCTILE CAST IRON GRATES AND FRAMES SHALL BE DESIGNED TO WITHSTAND HS 20 LOADING.
5. USE MANHOLE #4228 CAST GRATING OR ACCEPTED SUBSTITUTE.
6. SEE PLAN DETAILS FOR LOCATION AND SIZE OF PIPE.
7. WHEN BITUMINOUS MATERIAL IS TO EXTEND TO THE EDGE OF THE GRATING FRAME, CONCRETE MAY BE DERESSED.
8. PROVIDE EMBEDDED PLASTIC LADDER STEPS AT 18" SPACING FOR INLETS DEEPER THAN 4'.
9. FOR ROADS IN LANDSCAPE AREAS, NON-CONCRETE INLET OPTIONS MAY BE ACCEPTABLE. SUBMIT TO ENGINEER FOR REVIEW.



5 STORM DRAIN CLEANOUT DETAIL
N.T.S.

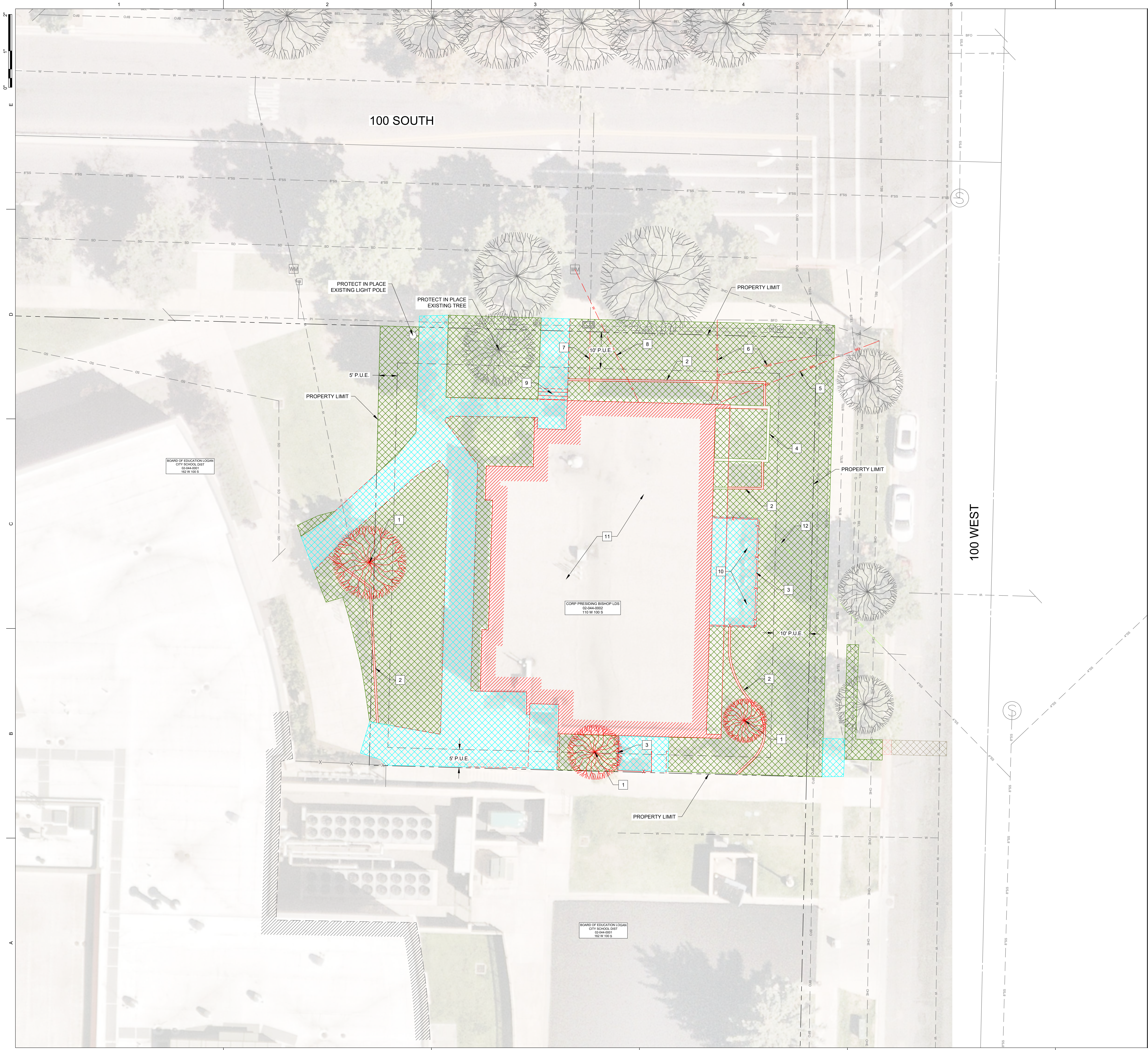


6 STAIRS WITH CURB WALL DETAIL
N.T.S.



7 SIDEWALK DETAILS
N.T.S.





01020

SCALE: 1" = 10'

(SCALE ONLY VALID FOR 30" x 42" PAPER)

LEGEND:

REMOVE CONCRETE FLATWORK

CLEAR AND GRUB SURFACE INCLUDING LANDSCAPING AND VEGETATION

REMOVE CONCRETE CURB AND GUTTER

REMOVE ASPHALT PAVEMENT

NOTES:

1. REMOVAL OF CONCRETE CURB AND GUTTER, CONCRETE SIDEWALK, AND CONCRETE DRIVEWAYS SHALL BE AT AN EXISTING JOINT OR A JOINT SAWED WITH A VERTICAL FACE AT LEAST 2 FEET FROM AN EXISTING JOINT.

2. ALL IMPROVEMENTS SHOWN IN COLOR ARE TO BE REMOVED, RELOCATED, OR REPLACED.

3. ALL UTILITIES NOT SHOWN IN COLOR ARE TO BE PROTECTED IN PLACE.

KEYNOTES:

1 REMOVE EXISTING TREE - INCLUDING ALL ROOTS

2 REMOVE EXISTING CONCRETE CURBING

3 REMOVE EXISTING CHAIN LINK FENCING - INCLUDING CONCRETE MOW CURB IF PRESENT, AND CONCRETE FENCE POST FOOTINGS

4 REMOVE EXISTING CONCRETE RETAINING WALL - INCLUDING FOOTINGS

5 ABANDON EXISTING BURIED ELECTRICAL; COORDINATE WITH LOGAN LIGHT & POWER

6 ABANDON EXISTING BURIED COMMUNICATION SERVICE - INCLUDING ALL PEDESTALS AND HANDHOLES; COORDINATE WITH LUMEN AND COMCAST

7 ABANDON EXISTING NATURAL GAS SERVICE - INCLUDING METERS, VALVES AND PIPING; COORDINATE WITH DOMINION ENERGY

8 ABANDON AND PLUG EXISTING CULINARY WATER SERVICE AT MAIN - INCLUDING METER, VAULT, VALVES AND PIPING; COORDINATE WITH LOGAN CITY

9 REMOVE EXISTING CONCRETE STAIRS - INCLUDING FOOTINGS AND RAILINGS

10 REMOVE MECHANICAL EQUIPMENT (SEE ARCHITECTURAL PLANS)

11 REMOVE EXISTING STRUCTURE (SEE ARCHITECTURAL PLANS AND ASBESTOS STUDY RESULTS)

12 REMOVE EXISTING SEWER SERVICE WITHIN PROPERTY LIMITS AND REPLACE WITH NEW (SEE SITE & UTILITY PLAN)

CivilScience

3160 W. Clubhouse Drive, Ste. A
Lehi, UT 84043
801.768.7200

811

Know what's below.
Call before you dig.

DATE

NOV. 2024

PROJECT NUMBER

FF-24179.00

DEMOLITION PLAN

DM01

FFKR ARCHITECTS

730 Pacific Avenue • Salt Lake City, Utah 84104
O 801.521.5186 • FFKR.COM

Logan UT Seminary Building

110 W. 100 S. Logan, UT 84321

The Church Of Jesus Christ Of Latter-Day Saints

Construction Documents - 09.06.24

REGISTERED PROFESSIONAL ENGINEER

AUSTIN GLEN JONES

NO. 35580-0000

11/05/2024

STATE OF UTAH

DATE

REVISION

DATE

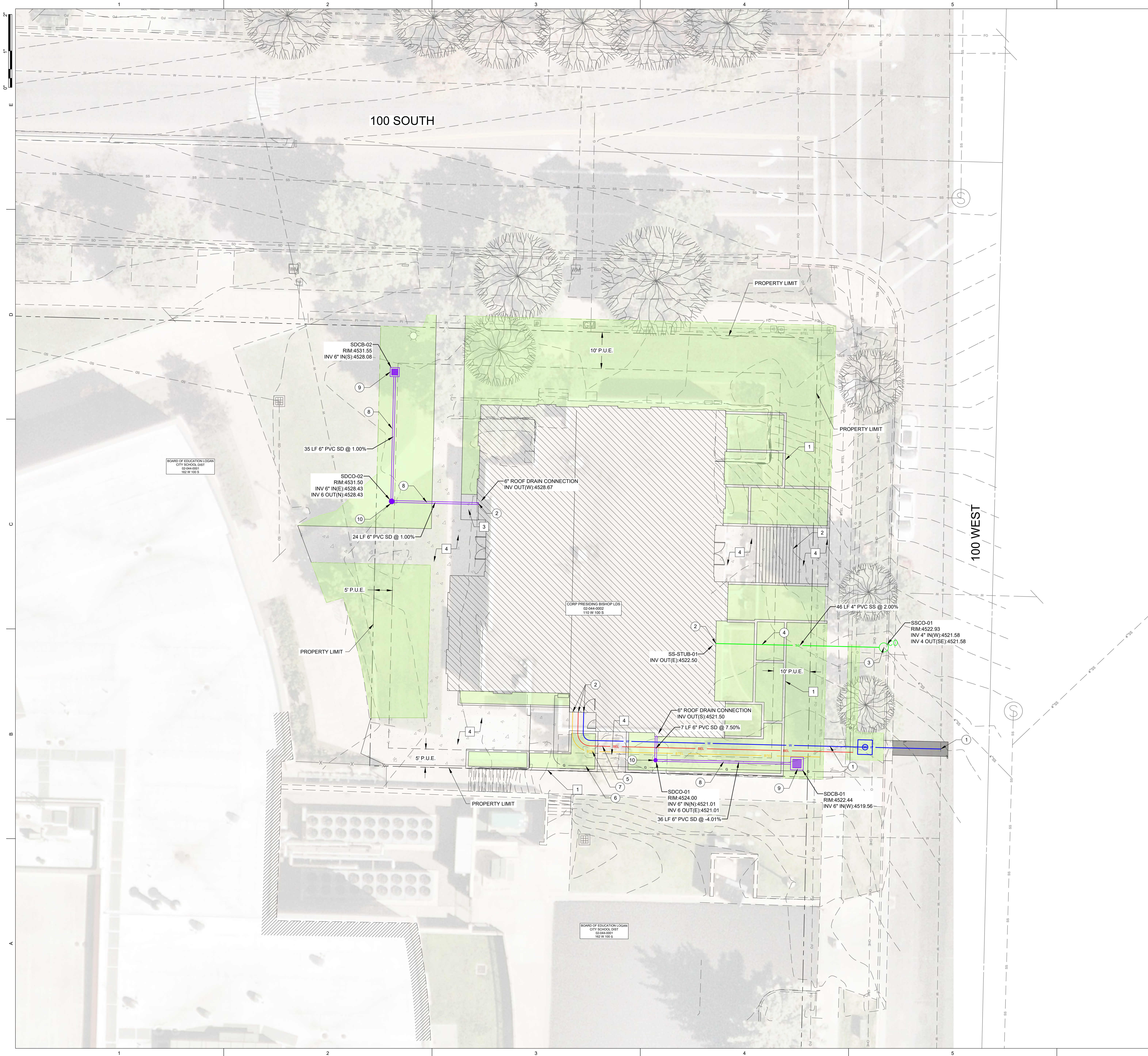
NOV. 2024

PROJECT NUMBER

FF-24179.00

DEMOLITION PLAN

DM01



0 5 10 20

SCALE: 1" = 10'

(SCALE ONLY VALID FOR 30" x 42" PAPER)

LEGEND:

CONCRETE SIDEWALK OR FLATWORK

LANDSCAPING (SEE LANDSCAPE PLANS)

SITE WORK NOTES:

1.

ALL IMPROVEMENTS SHALL BE CONSTRUCTED PER LOGAN CITY STANDARDS AND APWA STANDARD SPECIFICATIONS AND PLANS, 2007 EDITION, OR DETAILS AS NOTED BELOW.

2.

SEE SHEET GP01 FOR SITE ELEVATIONS.

SITE WORK KEYNOTES:

1

FURNISH AND INSTALL CONCRETE RETAINING WALL (REFERENCE GRADING PLAN FOR ELEVATIONS AND STRUCTURAL PLANS FOR DETAILS)

2

FURNISH AND INSTALL SITE STAIRS (SEE DT SHEETS FOR DETAILS)

3

4

UTILITY NOTES:

1.

ALL IMPROVEMENTS SHALL BE CONSTRUCTED PER LOGAN CITY STANDARDS AND APWA STANDARD SPECIFICATIONS AND PLANS, 2007 EDITION, OR DETAILS AS NOTED BELOW.

UTILITY KEYNOTES:

1

FURNISH AND INSTALL 2" CULINARY WATER SERVICE PER LOGAN STD. DETAIL 522 (SEE DT SHEETS FOR DETAILS)

2

UTILITY POINT OF CONNECTION (COORDINATE WITH MEP PLANS)

3

4

5

6

7

8

9

10

OFF-SITE PARKING
(TO REMAIN
IN PLACE)

100 SOUTH

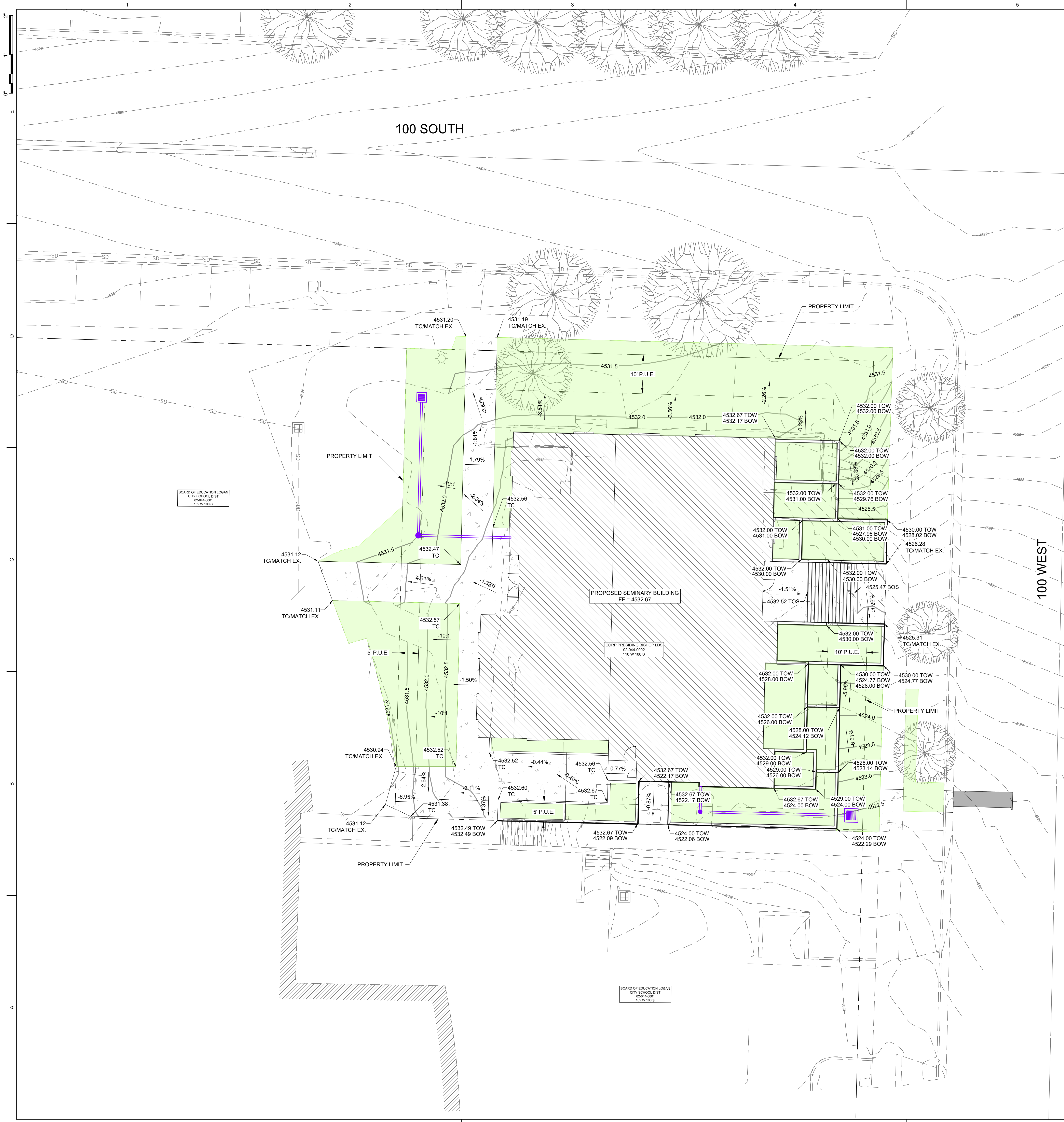
PROPOSED SITE

100 WEST

VICINITY MAP

3160 W. Clubhouse Drive, Ste. A
Lehi, UT 84043
801.768.7200

Know what's below.
Call before you dig.



BOARD OF EDUCATION LOGAN
CITY SCHOOL DIST
02-044-0001
100 W 100 S

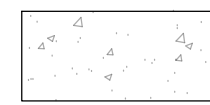
BOARD OF EDUCATION LOGAN
CITY SCHOOL DIST
02-044-0001
100 W 100 S

0 5 10 20

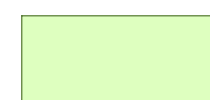
SCALE: 1" = 10'
(SCALE ONLY VALID FOR 30" x 42" PAPER)



LEGEND:

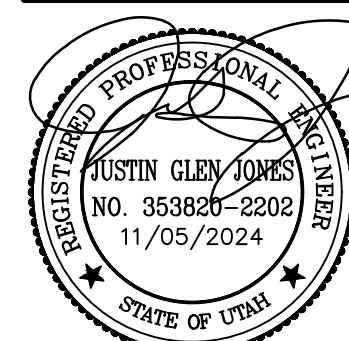


CONCRETE SIDEWALK OR FLATWORK



LANDSCAPING (SEE LANDSCAPE PLANS)

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church Of Jesus Christ Of Latter-Day Saints
Construction Documents - 09.06.24



DATE REVISION

DATE NOV. 2024

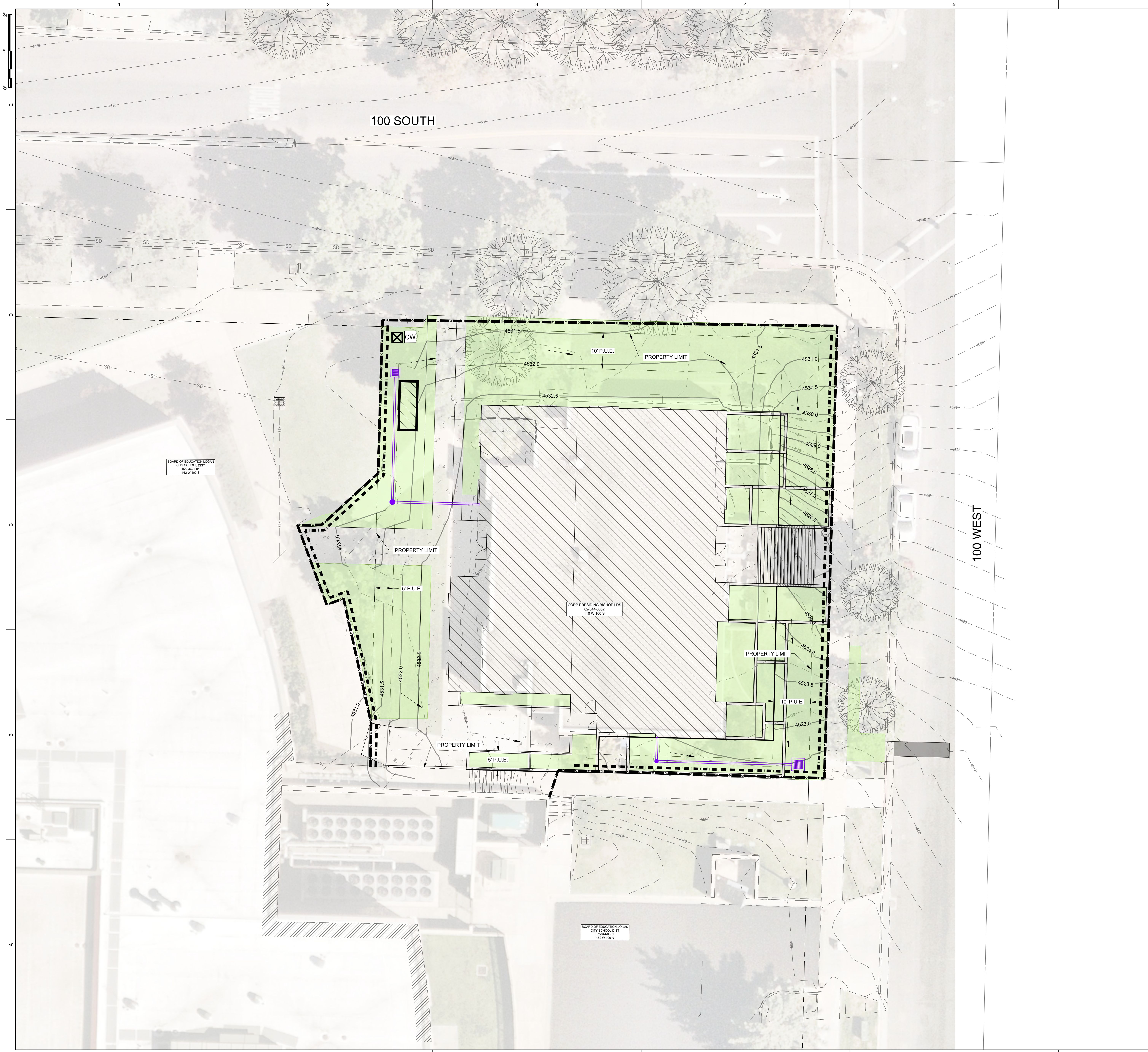
PROJECT NUMBER FF-24179.00

GRADING &
DRAINAGE
PLAN

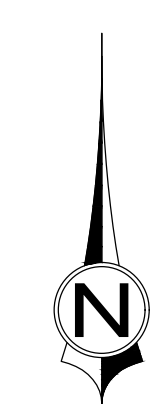
GP01



FFKR ARCHITECTS
730 Pacific Avenue • Salt Lake City, Utah 84104
O 801.521.5186 • FFKR.COM



0 5 10 20
SCALE: 1" = 10'
(SCALE ONLY VALID FOR 30" x 42" PAPER)

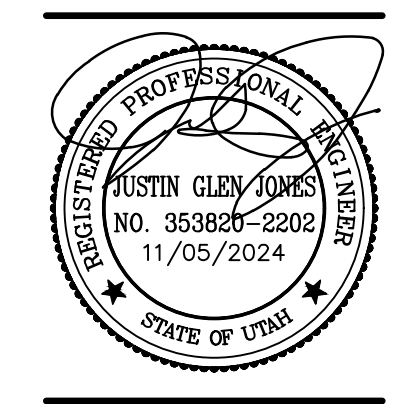


LEGEND:

- | EXISTING | PROPOSED | |
|----------|----------|-----------------------------------|
| | | MAJOR CONTOUR |
| | | MINOR CONTOUR |
| | | CURB, GUTTER, SIDEWALK |
| | | EDGE OF PAVEMENT |
| | | STREET CENTERLINE |
| | | PROPERTY / ROW LINE |
| | | EASEMENT LINE |
| | | FENCE |
| | | STORM DRAIN INLET, PIPE & MANHOLE |
| | | CONCRETE SIDEWALK OR FLATWORK |
| | | LANDSCAPING (SEE LANDSCAPE PLANS) |

BMP LEGEND:

- | | |
|--|---|
| | SILT FENCE PER UDOT STD DWG. NO. EN2 |
| | CONSTRUCTION FENCING WITH VISUAL SCREEN BARRIER |
| | CONCRETE WASHOUT (SEE APWA PLAN 125) |
| | INLET PROTECTION (SEE APWA PLAN 124.1) |
| | PORTABLE TOILET |
| | DUMPSTER |
| | FLOW DIRECTION |



△ DATE REVISION

DATE NOV. 2024
PROJECT NUMBER FF-24179.00

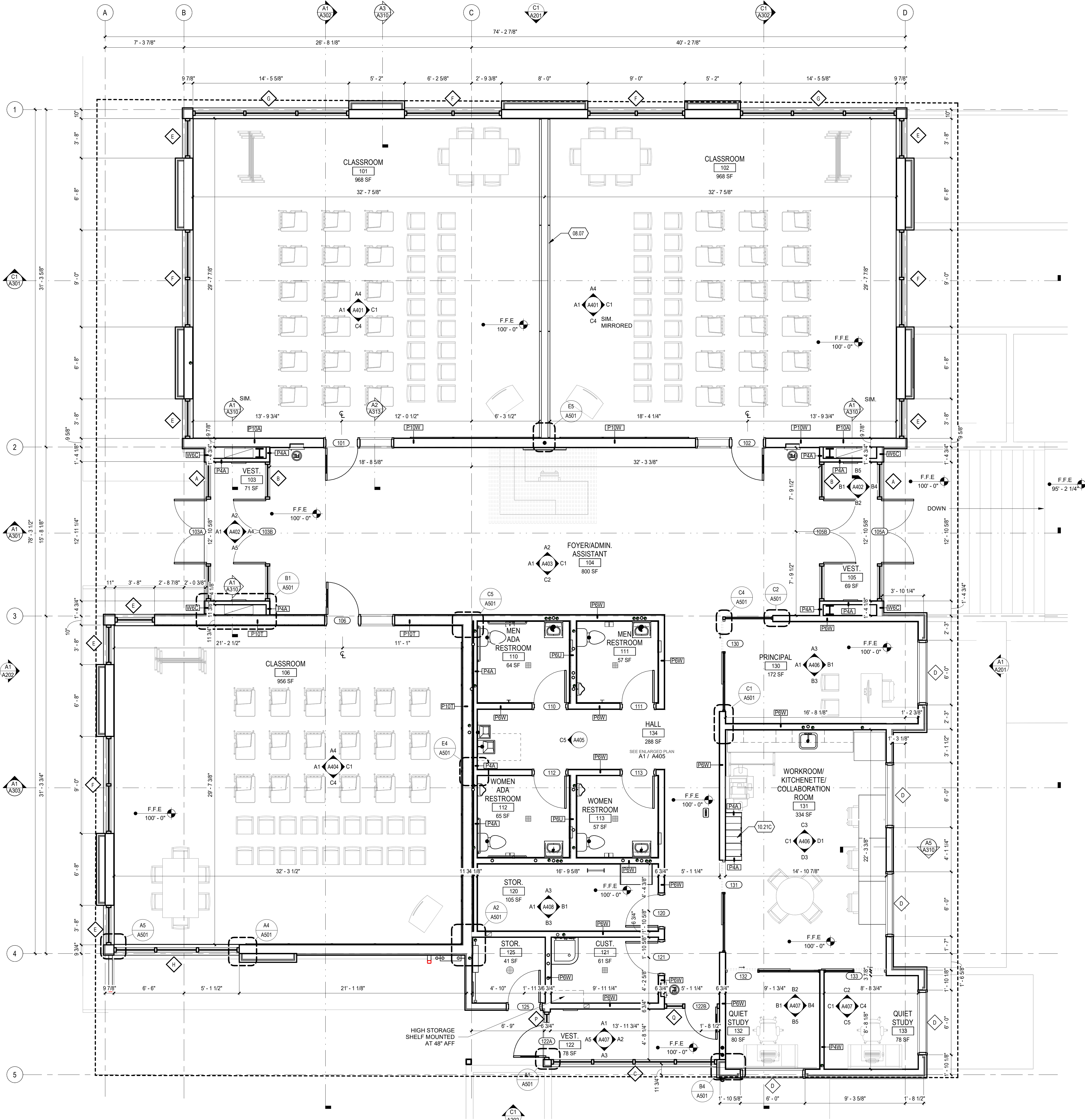
SWPPP
SITE PLAN

EC01

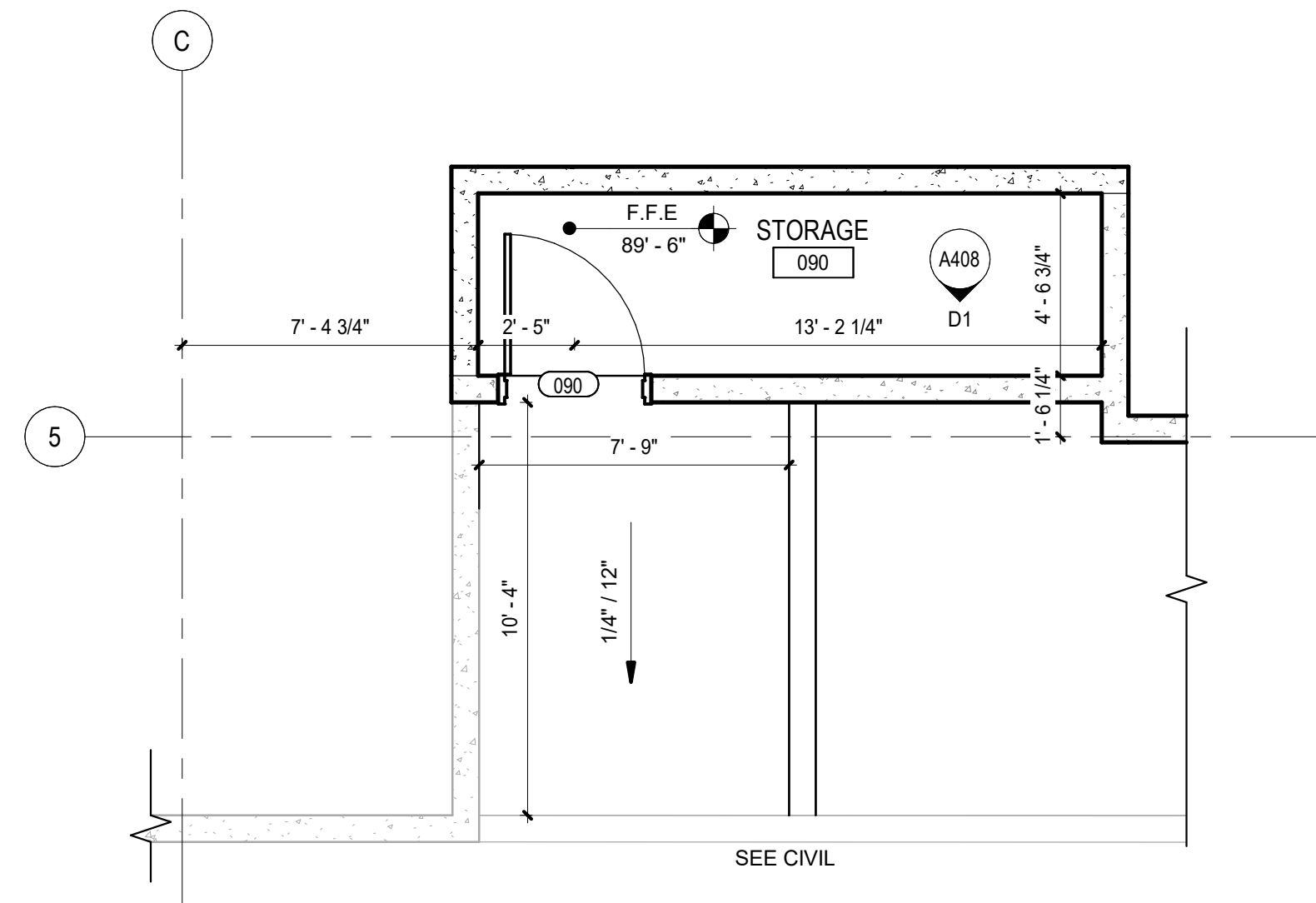


5/09/2024 9:21:44 a.m.

A1 LEVEL 1 FLOOR PLAN
SCALE: 1/4" = 1'-0"



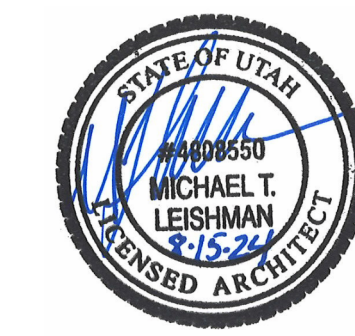
A5 LOWER STORAGE FLOOR PLAN
SCALE: 1/4" = 1'-0"



REFERENCE NOTES

- 08.07 SKYFOLD FOLDING WALL SYSTEM WITH FULL WRITABLE SURFACE
- 10.21 TYPICAL WORKER DRESSING STALL. REFER TO SHEET GH121 FOR CLOSER ARRANGEMENT

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.24



DATE REVISION

PROJECT NUMBER 24003

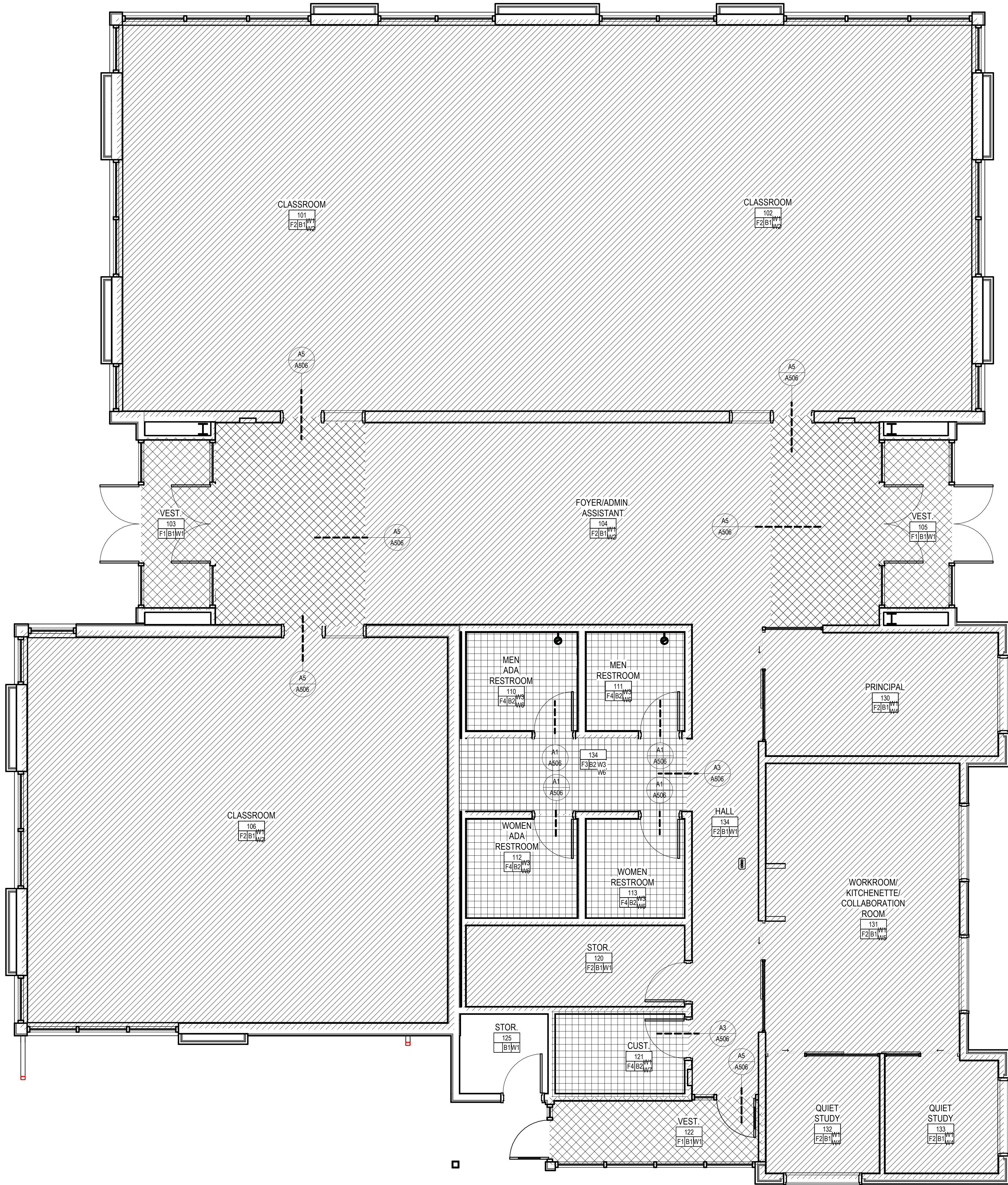
FLOOR PLAN

5/09/2024 9:21:45 a.m. A B C D E F

A1

LEVEL 1 FINISH FLOOR PLAN

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



FLOOR FINISH LEGEND
(SEE A603 FOR FINISH SPECIFICATION)

- CARPET
- CARPET - WALKOFF
- PORCELAIN TILE* | RECESS CONCRETE FLOORS 3" TO RECIEVE TILE INSTALLATION.

* SEE A505 FOR PATTERN AND LAYOUT DETAILS

REFERENCE NOTES

FINISH LEGEND

Room name
101
F1 B1 W1

ROOM IS NOT ELEVATED. ALL FINISHES ARE SHOWN IN THE TAG

ONLY FLOOR FINISH. SEE ROOMS INTERIOR ELEVATIONS FOR VERTICAL FINISHES

F = FLOOR FINISH
B = BASE FINISH
W = WALL FINISH

NF = NO FINISH
* = SEE FINISH TAG ON LARGE SCALE DRAWING

SEE FINISH LEGEND FOR FINISHES

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.24



DATE REVISION

PROJECT NUMBER 24003

FLOOR
FINISH
PLAN



ROOF PLAN

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

07.04	STANDING SEAM METAL ROOF
07.05	ROOF CRICKET
07.06	ROOF HATCH
07.08	PASS THRU SCUPPER
07.55	FALL PROTECTION

DATE	REVISION

PROJECT NUMBER	24003
----------------	-------

A110

5/09/2024 9:21:48 a.m.

A1

MAIN FLOOR REFLECTED CEILING PLAN

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

A2

LOWER STORAGE REFLECTED CEILING PLAN

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

REFERENCE NOTES

07.07 TRESPA SOFFIT

CEILING LEGEND

- ROOM NUMBER
HEIGHT
CEILING TYPE
CEILING FINISH
- ELECTRICAL FIXTURES -
SEE ELECTRICAL DRAWINGS
- SPRINKLER HEADS -
SEE FIRE SPRINKLER DWGS
- MECHANICAL EQUIPMENT -
SEE MECHANICAL DWGS
- BUILDING SYSTEMS
- SECURITY CAMERA
GLASS BREAK
SPEAKER
INFRARED EMITTER
- SMOKE DETECTOR
EXIT SIGN
HORN STROBE
WIFI ACCESS PT.
- MOTION DETECTOR
HEAT SENSOR
STROBE
HORN
- MISCELLANEOUS
- ACCESS PANEL
- CEILING TYPE
- G - PAINTED GYPSUM BOARD
T - 2x2 LAY-IN ACOUSTICAL TILE CEILING
O - OPEN TO STRUCTURE
C - CERAMIC TILE OVER WATER RESISTANT GYPSUM BOARD

LOGAN UT SR SEMINARY

110 W. 100 S. Logan, UT 84321

The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.24



DATE REVISION

PROJECT NUMBER 24003

REFLECTED CEILING PLAN

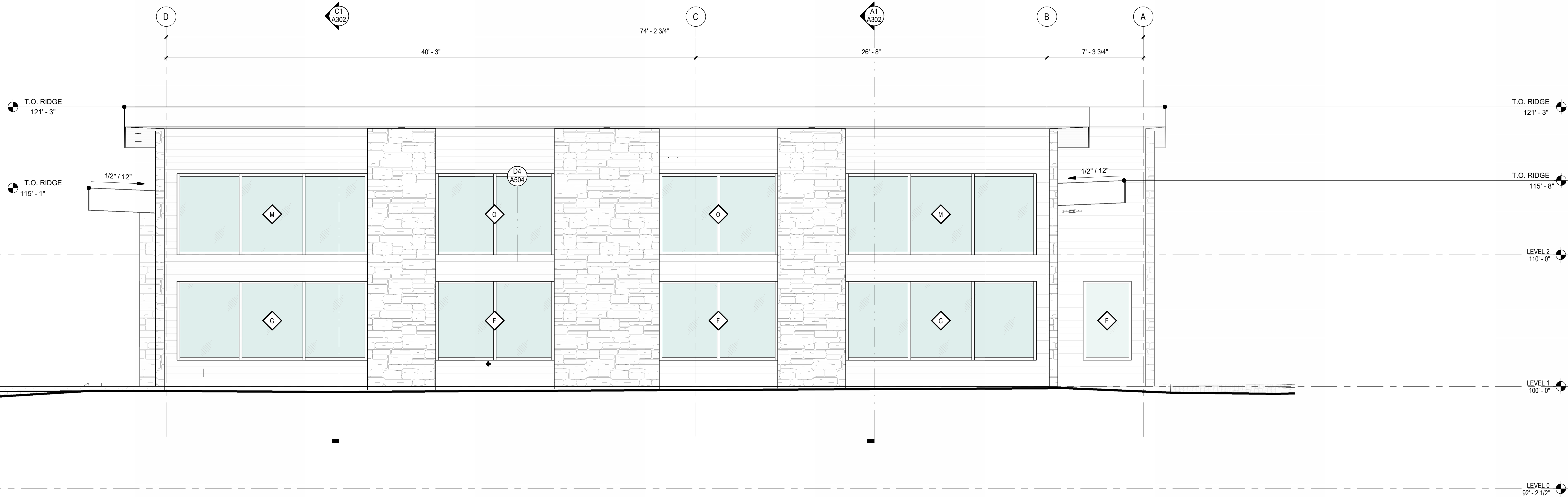
A120

FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 - FFKR.COM

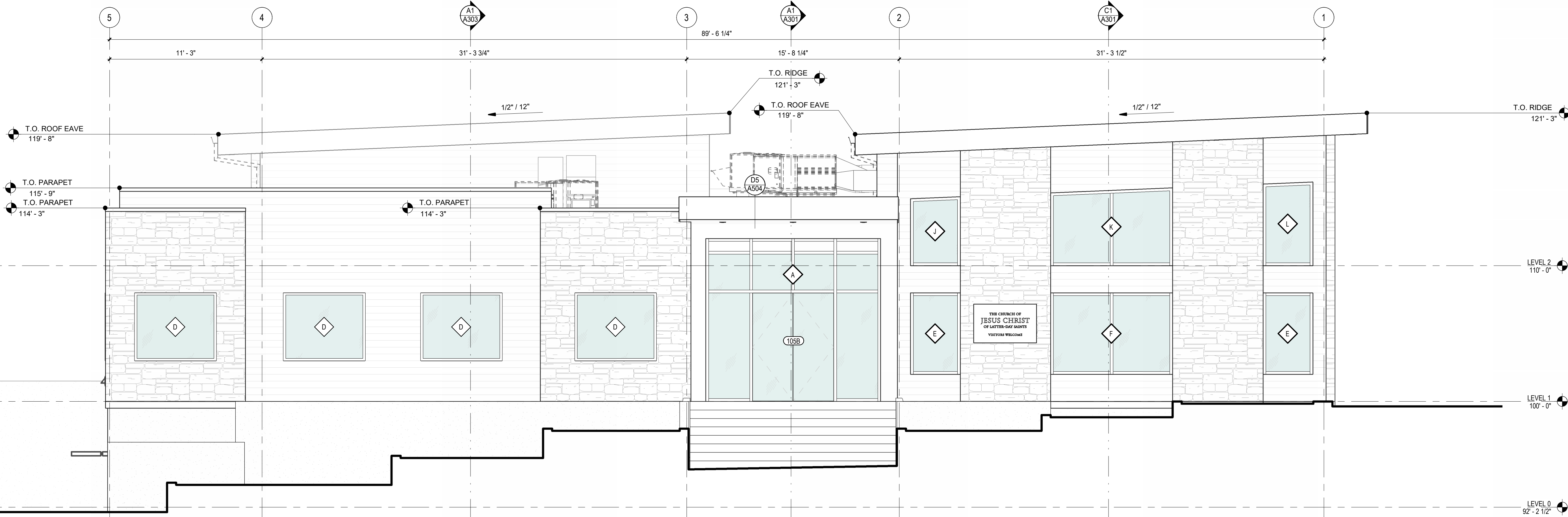
5/09/2024 9:21:56 a.m.

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

REFERENCE NOTES



C1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



A1 EAST ELEVATION
SCALE: 1/4" = 1'-0"

1 2 3 4 5 6

5/09/2024 9:22:03 a.m.

A B C D E



REFERENCE NOTES

FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 • FFKR.COM

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.24



△ DATE REVISION

PROJECT NUMBER 24003

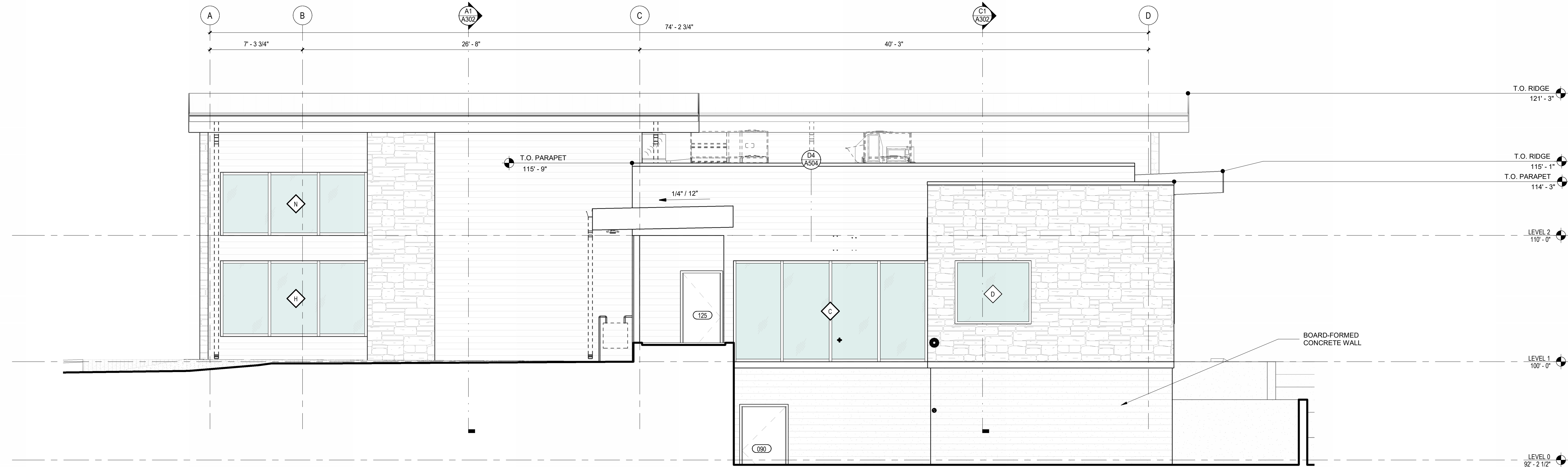
BUILDING
ELEVATIONS

A202

C1

SOUTH ELEVATION

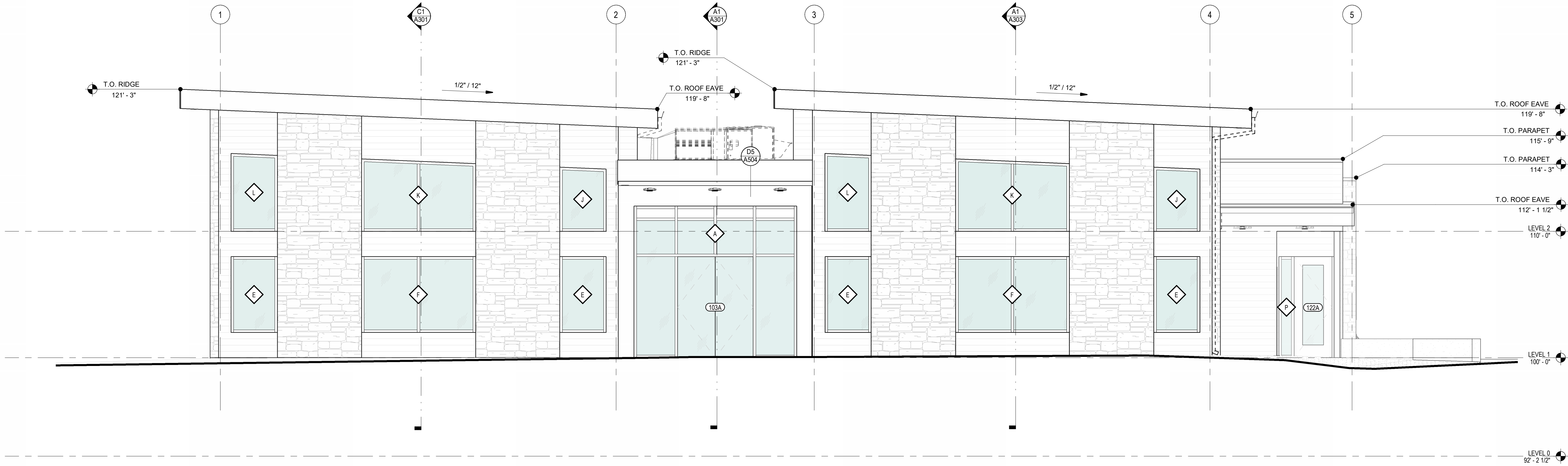
SCALE: 1/4" = 1'-0"



A1

WEST ELEVATION

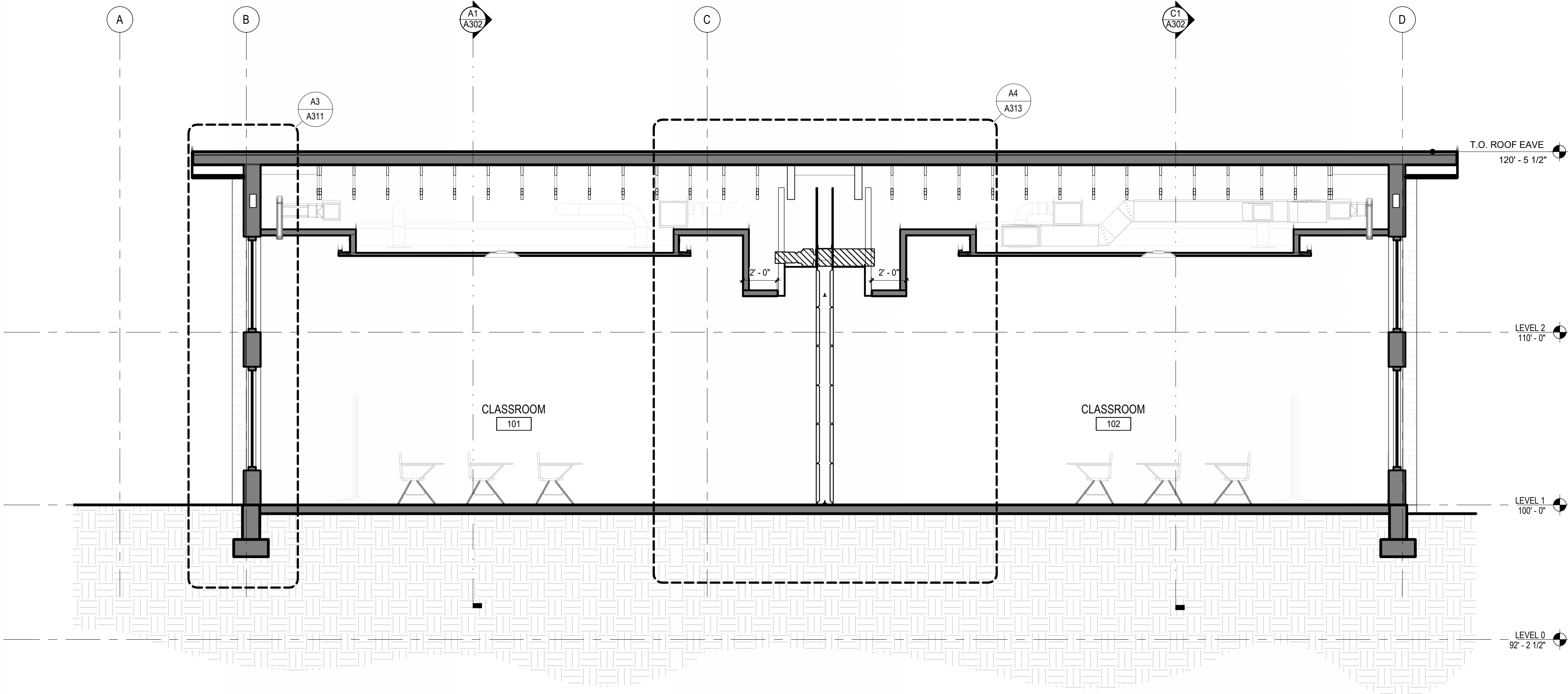
SCALE: 1/4" = 1'-0"



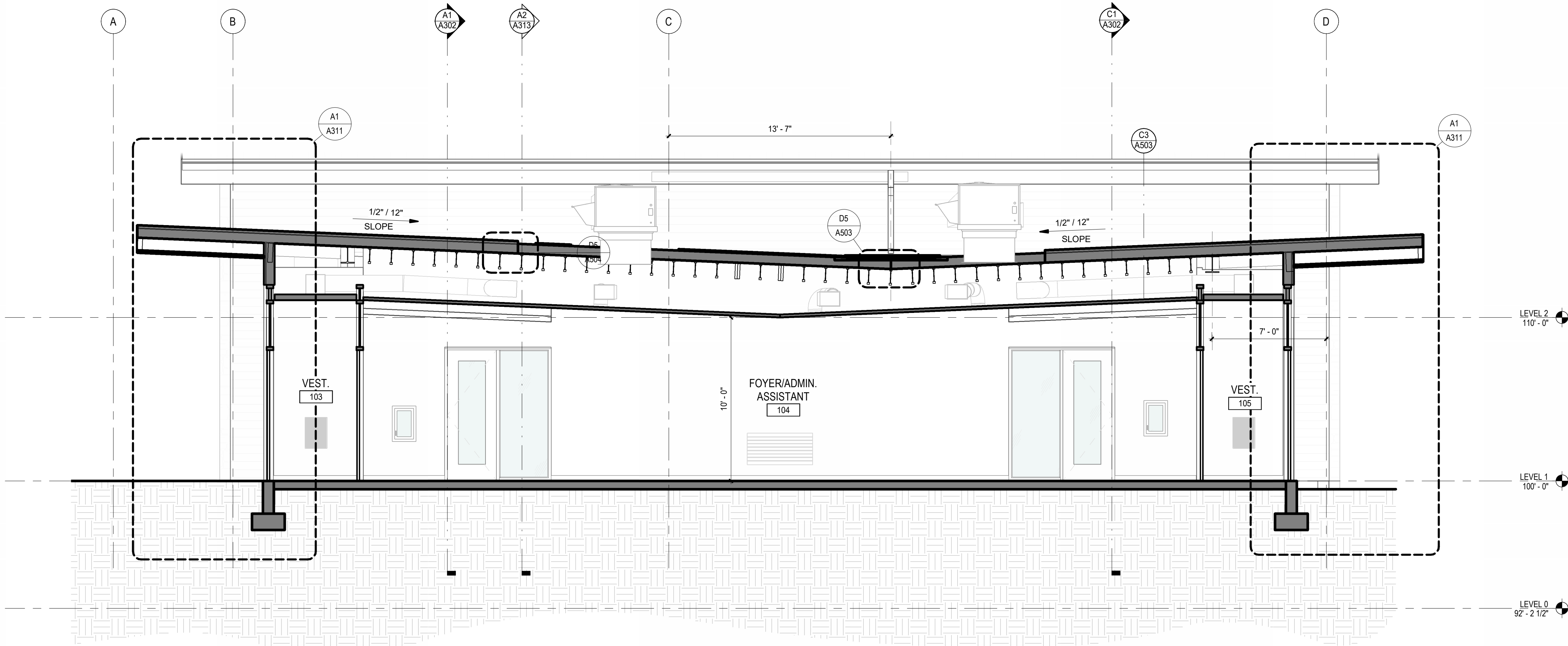
5/09/2024 9:22:05 a.m.

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

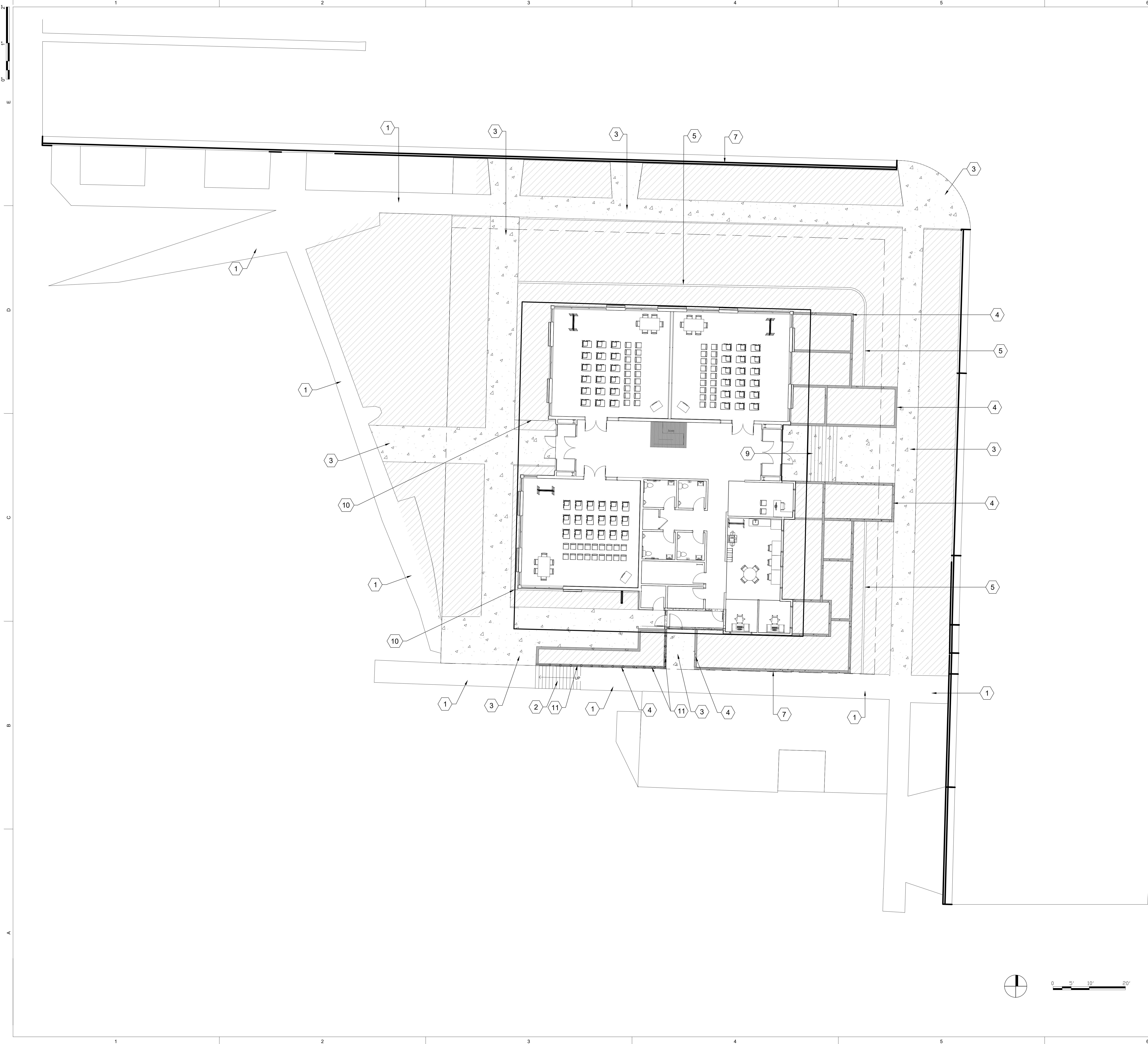
REFERENCE NOTES



C1 LOGAN UT SEMINARY - LONGITUDINAL SECTION B
SCALE: 1/4" = 1'-0"



A1 LOGAN UT SEMINARY - LONGITUDINAL SECTION A
SCALE: 1/4" = 1'-0"



REFERENCE NOTES

- EXISTING SIDEWALK, SEE CIVIL
- EXISTING CONCRETE STAIRS TO REMAIN
- CONCRETE PAVING, SEE CIVIL DWGS
- CONCRETE WALL - SEE DETAIL B5/LA400
- CONCRETE MOW CURB - SEE DETAIL C6/LA400
- CONCRETE, CURB, AND GUTTER, SEE CIVIL
- STAIRS AND CHEEKWALL, SEE DETAIL A3/LA400
- METAL EDGING - SEE DETAIL C5/LA400
- DECORATIVE METAL FENCE - SEE DETAIL D6/LA400

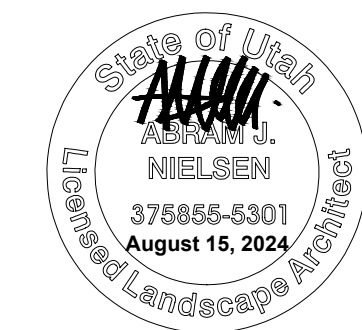
LEGEND

- LANDSCAPE AREA - SEE PLANTING PLAN

NOTES:

- SOURCE OF BASE DATA IS AND IS ASSUMED TO BE CORRECT. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
- VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER CONTRACTS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT OWNER'S REPRESENTATIVES FOR INSTRUCTIONS PRIOR TO COMMENCING WORK.
- PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND BY HAND IF NECESSARY. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
- EXISTING UNDERGROUND UTILITIES ARE SHOWN PER AVAILABLE RECORDS. VERIFY THE ACTUAL LOCATION AND ELEVATION IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION OF THE NEW FACILITIES. PROTECT EXISTING UTILITIES TO REMAIN.
- DEBRIS CREATED BY CONSTRUCTION OPERATIONS BECOMES PROPERTY OF THE CONTRACTOR AND IS TO BE LEGALLY REMOVED AND DISPOSED OF AWAY FROM THE JOB SITE.

LOGAN HIGH SCHOOL SEMINARY REBUILD
110 W 100 S LOGAN, UT 84321
CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS
100% CONSTRUCTION DOCUMENTS - 09.05.24



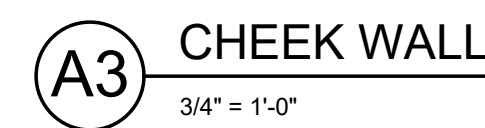
DATE REVISION

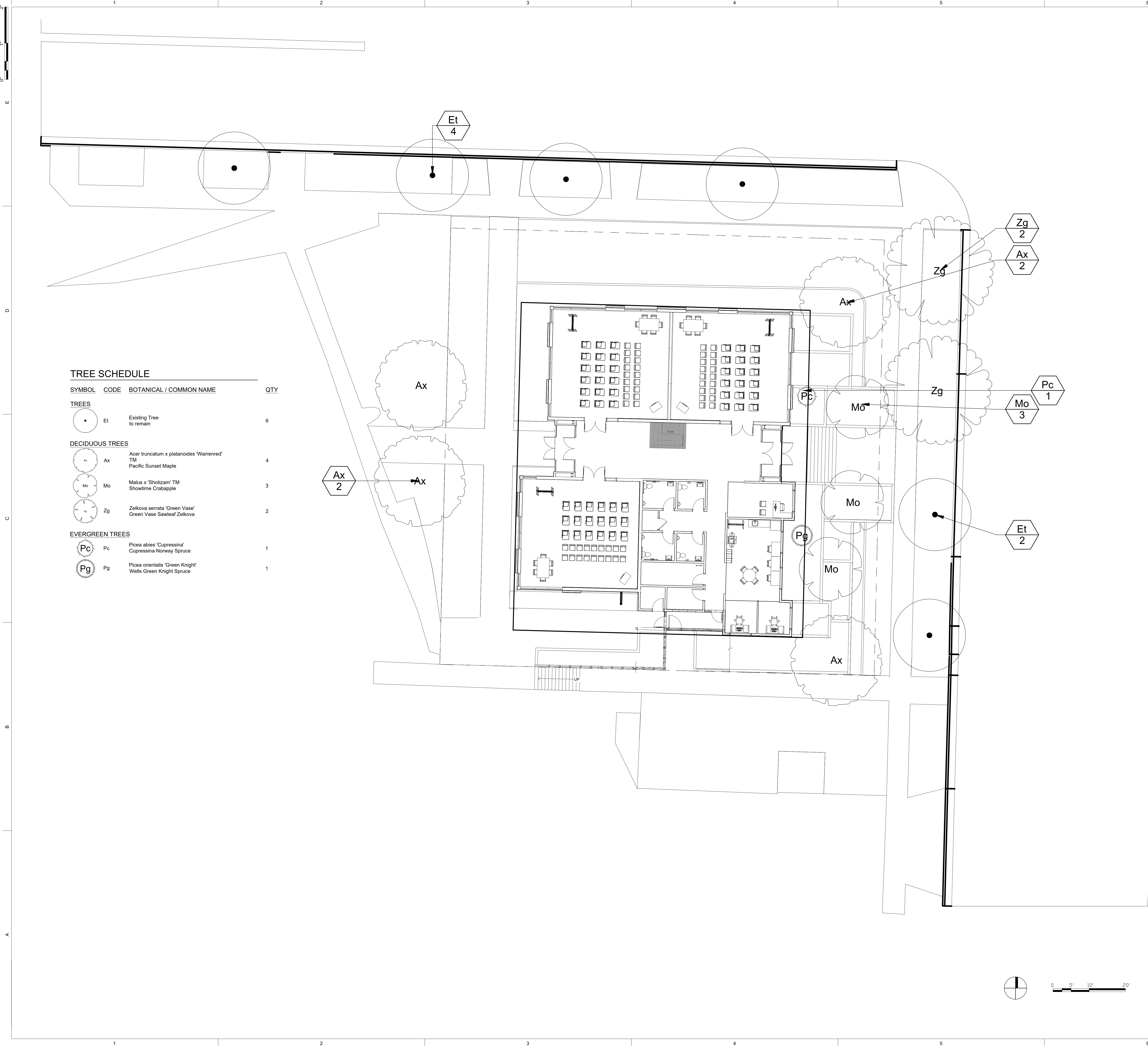
PROJECT NUMBER 24003

SITE
MATERIALS
PLAN

LA101

FFKR ARCHITECTS
730 Pacific Avenue • Salt Lake City, Utah 84104
© 2012/21/21/26 • FFKR.COM





TREE SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	QTY
TREES			
	Et	Existing Tree to remain	6
DECIDUOUS TREES			
	Ax	Acer truncatum x platanoides 'Warrenred' TM Pacific Sunset Maple	4
	Mo	Malus x 'Shotzlam' TM Showtime Crabapple	3
	Zg	Zelkova serrata 'Green Vase' Green Vase Sawleaf Zelkova	2
EVERGREEN TREES			
	Pc	Picea abies 'Cupressina' Cupressina Norway Spruce	1
	Pg	Picea orientalis 'Green Knight' Wells Green Knight Spruce	1

REFERENCE NOTES

NOTES:

- REFER TO SHEET L 404 FOR PLANT SCHEDULE
- REFER TO CIVIL ENGINEERS UTILITY AND PRECISE GRADING PLANS FOR UTILITY LOCATION AND FINAL GRADING. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY AS TO HOW TO PROCEED.
- VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT OWNER'S REPRESENTATIVE IMMEDIATELY PRIOR TO COMMENCING WORK.
- EXACT LOCATIONS OF PLANT MATERIALS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN FIELD, FOR CONTRACTOR TO THEN INSTALL.
- VERIFY PLANT COUNTS AND SQUARE FOOTAGES. QUANTITIES ARE PROVIDED FOR OWNER INFORMATION ONLY. IF QUANTITIES ON PLANT LIST DIFFER FROM GRAPHIC INDICATIONS THEN GRAPHICS SHALL PREVAIL.
- PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND IF NECESSARY BY HAND. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
- TREES SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE AT NURSERY.
- PROVIDE MATCHING FORMS AND SIZES FOR PLANT MATERIALS WITHIN EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS.
- PRUNE NEWLY PLANTED TREES ONLY AS DIRECTED BY LANDSCAPE ARCHITECT.
- ALIGN AND EQUALLY SPACE IN ALL DIRECTIONS SHRUBS SO DESIGNATED PER THESE NOTES AND DRAWINGS.
- FINISH GRADES OF SHRUB AREAS AND LAWNS/GRASSES SHALL BE 1" INCH BELOW ADJACENT PAVING OR EDGING.
- PROVIDE BURLAP WRAPPING TO SECOND BRANCH WITH 50% OVERLAP.

LOGAN HIGH SCHOOL SEMINARY REBUILD
110 W 100 S LOGAN, UT 84321
CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS
100% CONSTRUCTION DOCUMENTS - 09.05.24



Δ DATE REVISION

PROJECT NUMBER 24003










LANDSCAPE
TREE
PLANTING
PLAN




LA501






FFKR ARCHITECTS
730 Pacific Avenue • Salt Lake City, Utah 84104
© 801.521.6186 • FFKR.COM

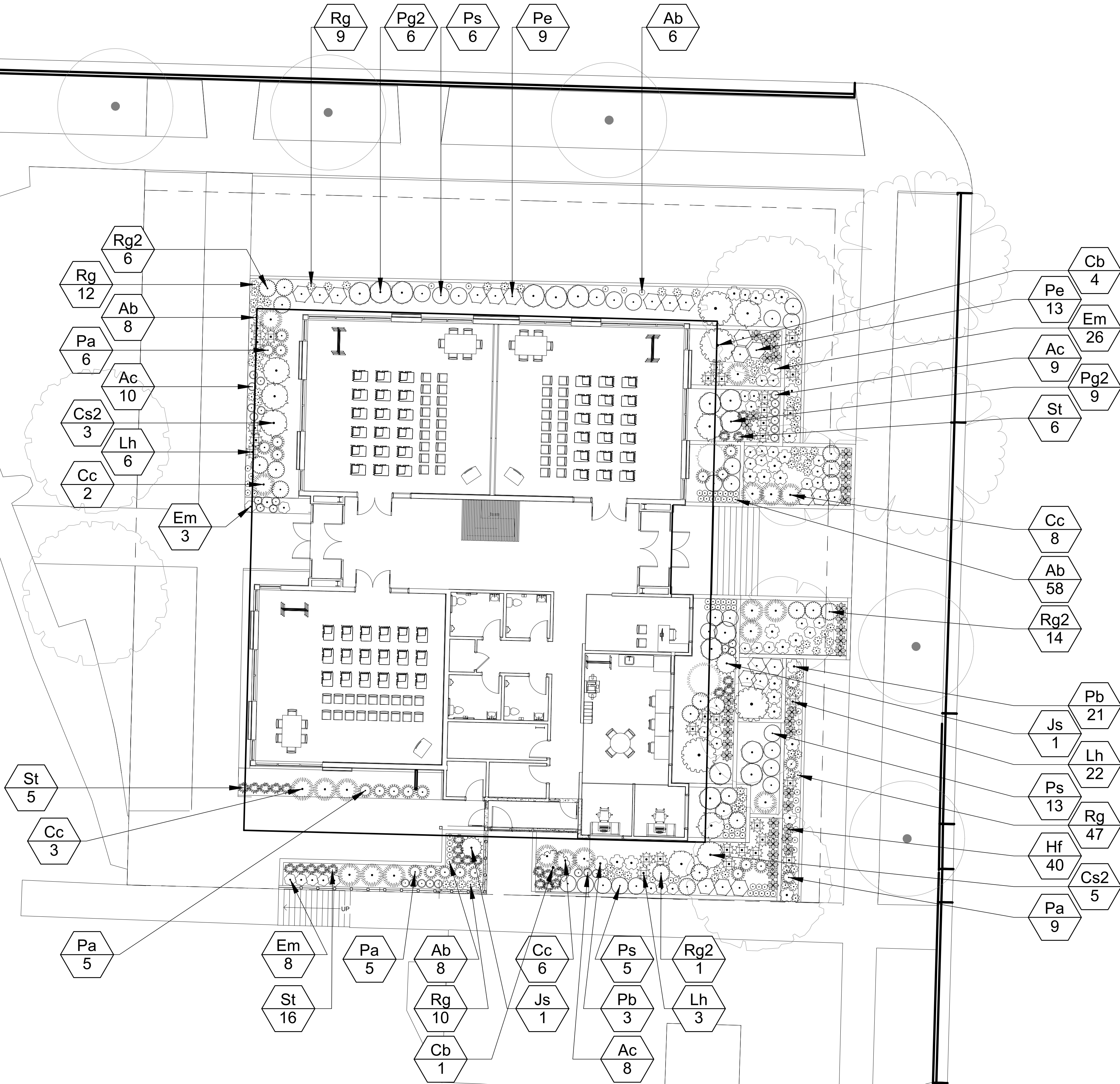
A
B
C
D
E
6'
5'4'3'2'1'

SHRUB SCHEDULE

SHRUBS		
	Cb	Cornus alba 'Bud's Yellow' Bud's Yellow Dogwood
	Cs2	Cornus sericea 'Cardinal' Cardinal Red Twig Dogwood
	Js	Juniperus scopulorum 'Skyrocket' Skyrocket Juniper
	Lh	Lavandula angustifolia 'Hidcote Blue' Hidcote Blue English Lavender
	Pe	Perovskia atriplicifolia 'Sage Advice' Sage Advice Russian Sage
	Ps	Pinus mugo 'Slowmound' Slowmound Mugo Pine
	Pg2	Potentilla fruticosa 'Goldfinger' Goldfinger Bush Cinquefoil
	Pb	Potentilla fruticosa 'Hanchdon' TM Bella Sol Bush Cinquefoil
	Rg2	Ribes alpinum 'Green Mound' Green Mound Alpine Currant

ORNAMENTAL GRASSES		
	Cc	Calamagrostis arundinacea 'Caspian' Caspian Feather Reed Grass
	Pa	Pennisetum alopecuroides Fountain Grass
	St	Schizachyrium scoparium 'Twilight Zone' Twilight Zone Little Bluestem

PERENNIALS		
	Ac	Agastache cana 'Sinning' TM Sonoran Sunset Hummingbird Mint
	Ab	Ameria matthiana 'Bloodstone' Bloodstone Sea Thrift
	Em	Echinacea purpurea 'Magnus' Magnus Purple Coneflower
	Hf	Heuchera x 'Firefly' Firefly Coral Bells
	Rg	Rudbeckia fulgida sullivantii 'Goldsturm' Goldsturm Coneflower



REFERENCE NOTES

NOTES:

1. REFER TO SHEET L 404 FOR PLANT SCHEDULE
2. REFER TO CIVIL ENGINEERS UTILITY AND PRECISE GRADING PLANS FOR UTILITY LOCATION AND FINAL GRADING. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY AS TO HOW TO PROCEED.
3. VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT OWNER'S REPRESENTATIVE IMMEDIATELY PRIOR TO COMMENCING WORK.
4. EXACT LOCATIONS OF PLANT MATERIALS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN FIELD, FOR CONTRACTOR TO THEN INSTALL.
5. VERIFY PLANT COUNTS AND SQUARE FOOTAGES. QUANTITIES ARE PROVIDED FOR OWNER INFORMATION ONLY. IF QUANTITIES ON PLANT LIST DIFFER FROM GRAPHIC INDICATIONS THEN GRAPHICS SHALL PREVAIL.
6. PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND IF NECESSARY BY HAND. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
7. TREES SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE AT NURSERY.
8. PROVIDE MATCHING FORMS AND SIZES FOR PLANT MATERIALS WITHIN EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS.
9. PRUNE NEWLY PLANTED TREES ONLY AS DIRECTED BY LANDSCAPE ARCHITECT.
10. ALIGN AND EQUALLY SPACE IN ALL DIRECTIONS SHRUBS SO DESIGNATED PER THESE NOTES AND DRAWINGS.
11. FINISH GRADES OF SHRUB AREAS AND LAWNS/GRASSES SHALL BE 1" INCH BELOW ADJACENT PAVING OR EDGING.
12. PROVIDE BURLAP WRAPPING TO SECOND BRANCH WITH 50% OVERLAP.

LOGAN HIGH SCHOOL SEMINARY REBUILD

110 W 100 S LOGAN, UT 84321
CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS
100% CONSTRUCTION DOCUMENTS - 09.05.24



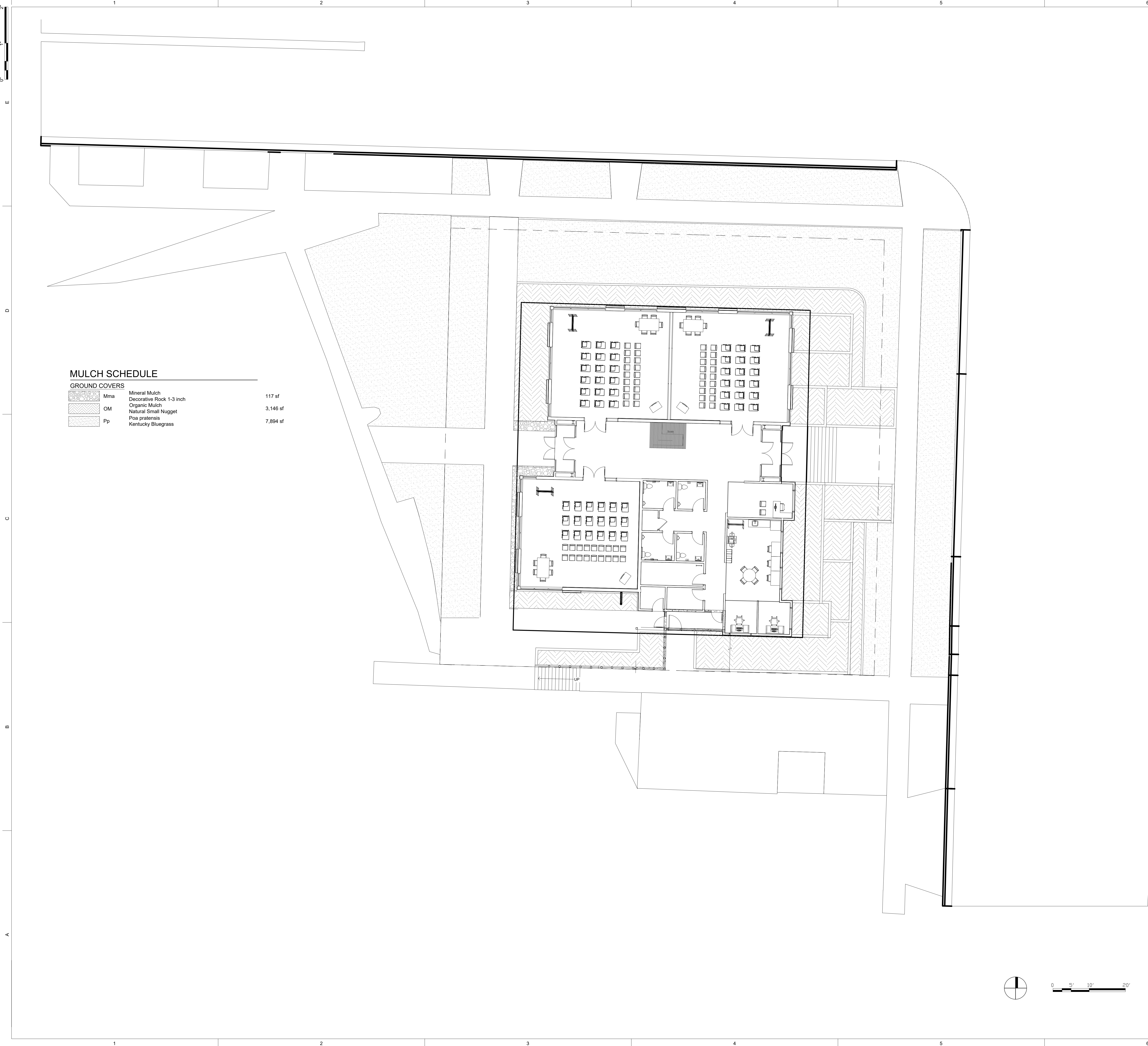
DATE REVISION

PROJECT NUMBER 24003

LANDSCAPE SHRUB PLANTING PLAN

LA502

FFKR ARCHITECTS
730 Pacific Avenue • Salt Lake City, Utah 84104
© 601.621.6186 • FFKR.COM



MULCH SCHEDULE

GROUND COVERS		
Mma	Mineral Mulch	117 sf
OM	Decorative Rock 1-3 inch	3,146 sf
Pp	Organic Mulch	7,894 sf
	Natural Small Nugget	
	Poa pratensis	
	Kentucky Bluegrass	

REFERENCE NOTES

NOTES:

1. REFER TO SHEET L 404 FOR PLANT SCHEDULE
2. REFER TO CIVIL ENGINEERS UTILITY AND PRECISE GRADING PLANS FOR UTILITY LOCATION AND FINAL GRADING. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY AS TO HOW TO PROCEED.
3. VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT OWNER'S REPRESENTATIVE IMMEDIATELY PRIOR TO COMMENCING WORK.
4. EXACT LOCATIONS OF PLANT MATERIALS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN FIELD, FOR CONTRACTOR TO THEN INSTALL.
5. VERIFY PLANT COUNTS AND SQUARE FOOTAGES. QUANTITIES ARE PROVIDED FOR OWNER INFORMATION ONLY. IF QUANTITIES ON PLANT LIST DIFFER FROM GRAPHIC INDICATIONS THEN GRAPHICS SHALL PREVAIL.
6. PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND IF NECESSARY BY HAND. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
7. TREES SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE AT NURSERY.
8. PROVIDE MATCHING FORMS AND SIZES FOR PLANT MATERIALS WITHIN EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS.
9. PRUNE NEWLY PLANTED TREES ONLY AS DIRECTED BY LANDSCAPE ARCHITECT.
10. ALIGN AND EQUALLY SPACE IN ALL DIRECTIONS SHRUBS SO DESIGNATED PER THESE NOTES AND DRAWINGS.
11. FINISH GRADES OF SHRUB AREAS AND LAWNS/GRASSES SHALL BE 1 INCH BELOW ADJACENT PAVING OR EDGING.
12. PROVIDE BURLAP WRAPPING TO SECOND BRANCH WITH 50% OVERLAP.

LOGAN HIGH SCHOOL SEMINARY REBUILD
110 W 100 S LOGAN, UT 84321
CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS
100% CONSTRUCTION DOCUMENTS - 09.05.24



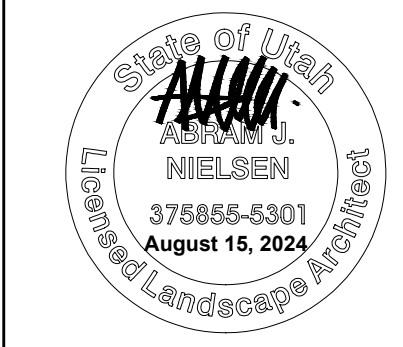
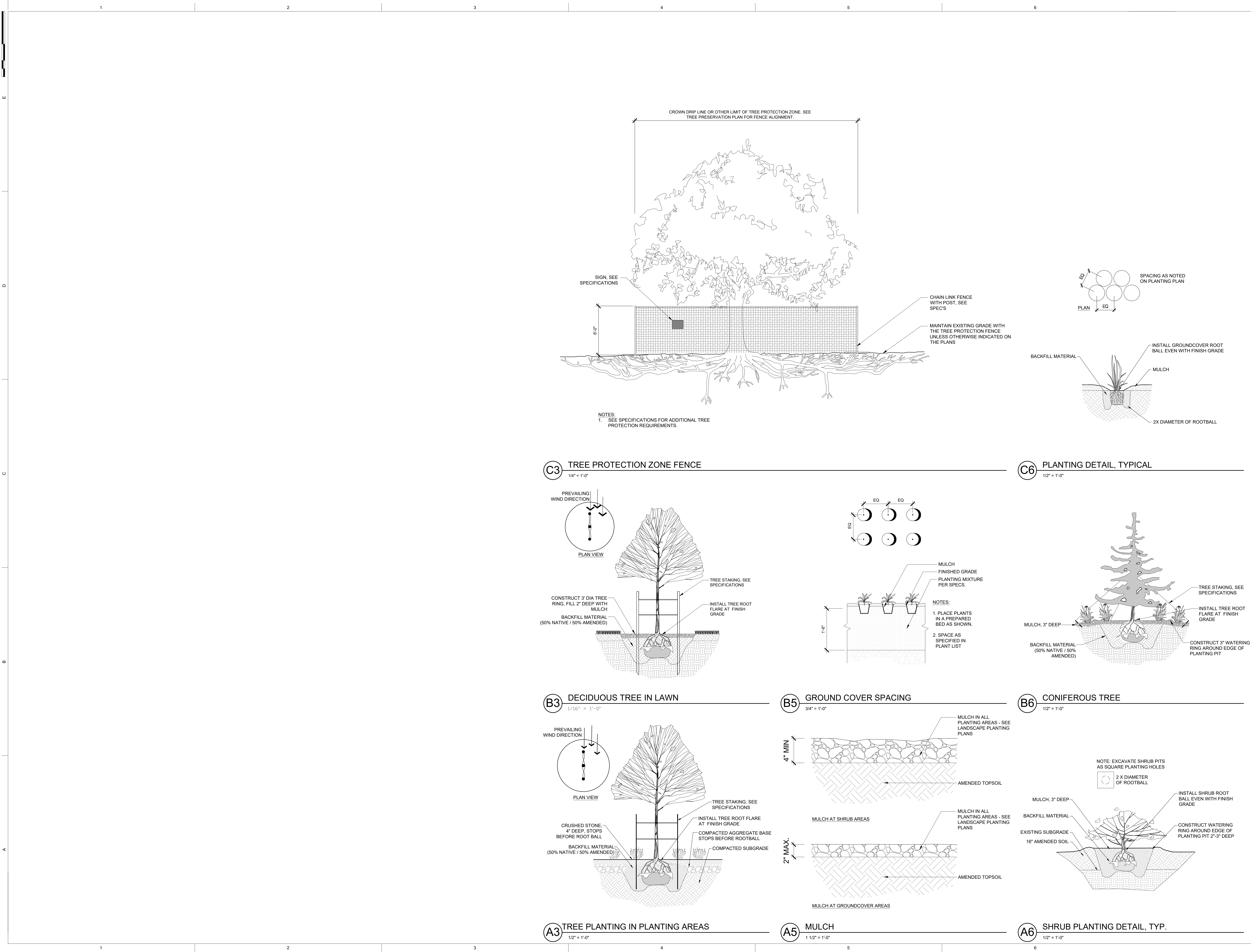
Δ DATE REVISION

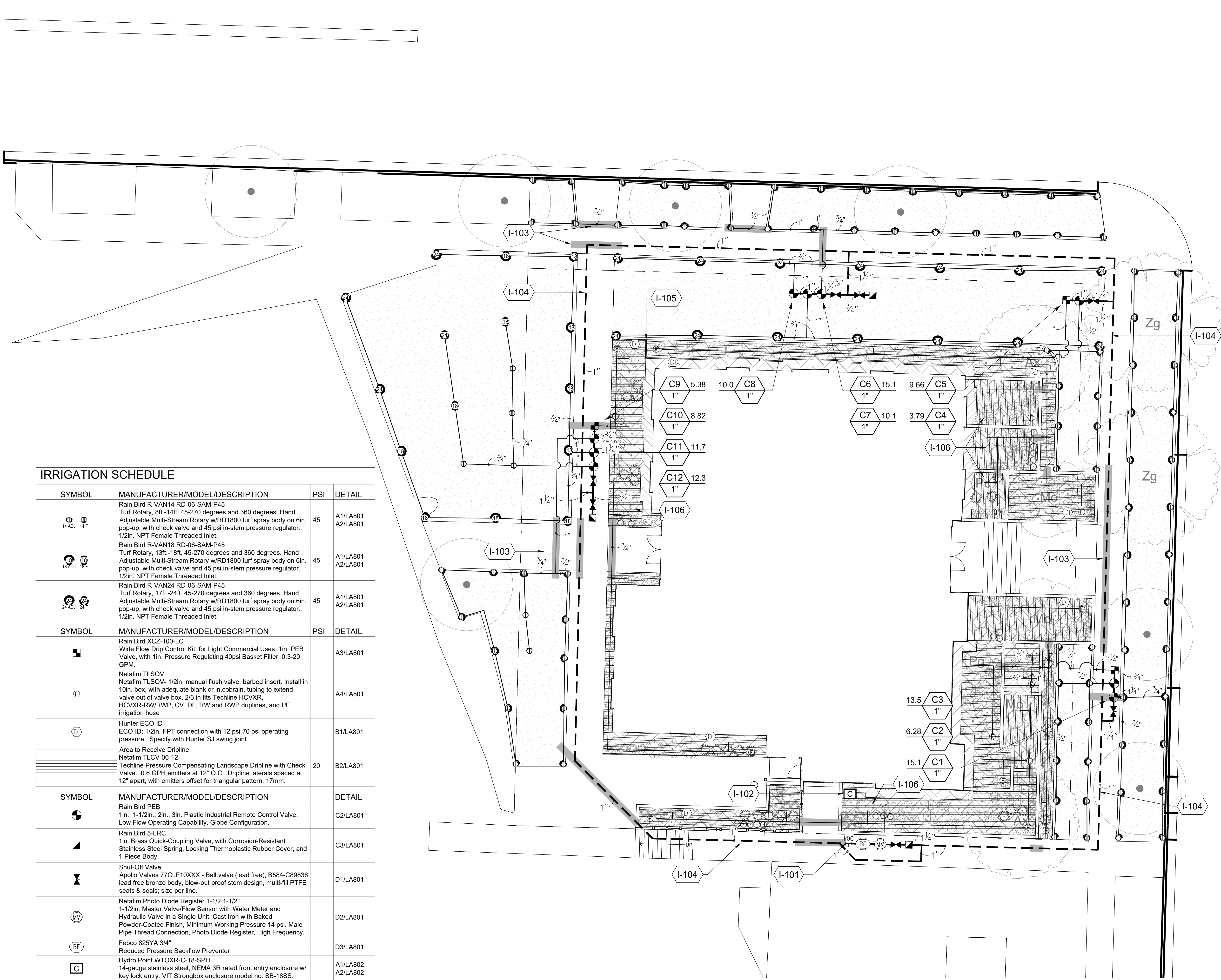
PROJECT NUMBER 24003

LANDSCAPE
MULCH
PLAN

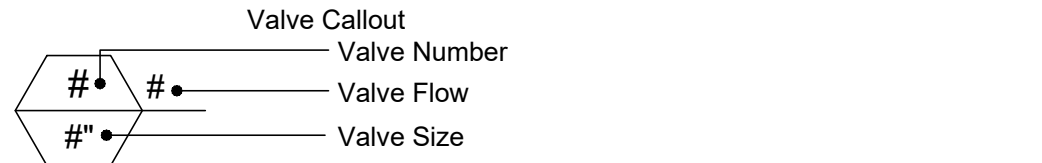
LA503

FFKR ARCHITECTS
730 Pacific Avenue • Salt Lake City, Utah 84104
O 801.521.6186 • FFKR.COM





IRRIGATION SCHEDULE			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	Rain Bird R-VAN14 RD-06-SAM-P45 Turf Rotary, 8ft.-14ft. 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 6in. pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2in. NPT Female Threaded Inlet.	45	A1/LA801 A2/LA801
	Rain Bird R-VAN18 RD-06-SAM-P45 Turf Rotary, 13ft.-18ft. 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 6in. pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2in. NPT Female Threaded Inlet.	45	A1/LA801 A2/LA801
	Rain Bird R-VAN24 RD-06-SAM-P45 Turf Rotary, 17ft.-24ft. 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/RD1800 turf spray body on 6in. pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2in. NPT Female Threaded Inlet.	45	A1/LA801 A2/LA801
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	Rain Bird XCZ-100-LC Wide Flow Drip Control Kit, for Light Commercial Uses. 1in. PEB Valve, with 1in. Pressure Regulating 40psi Basket Filter. 0.3-20 GPM.		A3/LA801
	Netafim TLSOV- 1/2in. manual flush valve, barbed insert. Install in 10in. box, with adequate blank or in.cobrain. tubing to extend valve out of valve box. 2/3 in fits Techline HCVXR, HCVXR-RWRWP, CV, DL, RW and RWP driplines, and PE irrigation hose		A4/LA801
	Hunter ECO-ID ECO-ID: 1/2in. FPT connection with 12 psi-70 psi operating pressure. Specify with Hunter SJ swing joint.		B1/LA801
	Area to Receive Dripline Netafim TLCOV-08-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.6 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.	20	B2/LA801
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		DETAIL
	Rain Bird PEB 1in., 1-1/2in., 2in., 3in. Plastic Industrial Remote Control Valve. Low Flow Operating Capability, Globe Configuration.		C2/LA801
	Rain Bird SLRC 1in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Locking Thermoplastic Rubber Cover, and 1-Piece Body.		C3/LA801
	Shut-Off Valve Apollo Valves 77CFL10XXX - Ball valve (lead free). B584-C89836 lead free bronze body, blow-out proof stem design, multi-fill PTFE seats & seals; size per line.		D1/LA801
	Netafim Photo Diode Register 1-1/2 1-1/2" 1-1/2in. Master Valve/Flow Sensor with Water Meter and Hydraulic Valve in a Single Unit. Cast iron with Baked Powder-Coated Finish, Minimum Working Pressure 14 psi. Male Pipe Thread Connection, Photo Diode Register, High Frequency.		D2/LA801
	Febco 825YA 3/4" Reduced Pressure Backflow Preventer		D3/LA801
	Hydro Point WTXR-C-18-SPH 14-gauge stainless steel, NEMA 3R rated front entry enclosure w/ key lock entry. VIT Strongbox enclosure model no. SB-18SS.		A1/LA802 A2/LA802
	Point of Connection Connect to building supply line.		Per Civil Plans
	Irrigation Lateral Line: PVC Schedule 40		A4/LA802
	Irrigation Mainline: PVC Schedule 40		A4/LA802
	Pipe Sleeve: PVC Class 200 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.		B1/LA802 B2/LA802



VALVE SCHEDULE								
NUMBER	MODEL	SIZE	TYPE	GPM	DESIGN PSI	PSI	PSI @ POC	PRECIP
C1	Rain Bird PEB	1"	Turf Rotary	15.08	45	49.0	67.4	1.12 in/h
C2	Rain Bird PEB	1"	Turf Rotary	6.28	45	47.1	65.5	1.72 in/h
C3	Rain Bird XCZ-100-LC	1"	Area for Dripline	13.48	20	39.0	57.4	0.96 in/h
C4	Rain Bird PEB	1"	Turf Rotary	3.79	45	46.8	67.7	1.25 in/h
C5	Rain Bird XCZ-100-LC	1"	Area for Dripline	9.66	20	32.6	53.5	0.97 in/h
C6	Rain Bird PEB	1"	Turf Rotary	15.1	45	48.7	69.6	1.28 in/h
C7	Rain Bird PEB	1"	Turf Rotary	10.06	45	47.9	68.9	0.51 in/h
C8	Rain Bird PEB	1"	Turf Rotary	10.01	45	47.9	69.0	0.51 in/h
C9	Rain Bird XCZ-100-LC	1"	Area for Dripline	5.38	20	28.0	49.0	0.96 in/h
C10	Rain Bird PEB	1"	Turf Rotary	8.82	45	48.2	69.1	1.07 in/h
C11	Rain Bird PEB	1"	Turf Rotary	11.66	45	48.8	69.7	0.49 in/h
C12	Rain Bird PEB	1"	Turf Rotary	12.26	45	48.8	69.7	0.52 in/h

IRRIGATION SCHEDULE	
SYMBOL	DESCRIPTION
I-101	IRRIGATION POINT OF CONNECTION - SYSTEM HAS BEEN DESIGNED FOR A REQUIRED MINIMUM STATIC PRESSURE OF 65 PSI AND A MAXIMUM SAFE FLOW OF 20 GPM. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE OPERATING PRESSURE IN THE FIELD AT THE POINT OF CONNECTION BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF DEFICIENT EQUIPMENT, HIGH/LOW PRESSURE, OR LOW FLOW CONDITIONS ARE ENCOUNTERED. IF THE CONTRACTOR FAILS TO NOTIFY THE OWNER'S REPRESENTATIVE OF SUCH DISCREPANCIES, THEN THE CONTRACTOR ASSUMES ALL LIABILITY AND COSTS ASSOCIATED WITH SYSTEM MODIFICATIONS TO ACCOMMODATE THE ACTUAL PRESSURE.
I-102	IRRIGATION CONTROLLER - FINAL LOCATION TO BE DETERMINED ON SITE WITH CONTRACTOR AND OWNER'S REPRESENTATIVE. COORDINATE 120V ELECTRICAL CONNECTION WITH ELECTRICIAN PRIOR TO INSTALLATION. PROVIDE ETHERNET CONNECTION.
I-103	IRRIGATION SLEEVE - MINIMUM 2" SIZE DIAMETER; EXTEND 18" MIN BEYOND HARDSCAPE.
I-104	IRRIGATION EQUIPMENT SHOWN IN HARDSCAPE FOR GRAPHIC CLARITY - ALL IRRIGATION EQUIPMENT TO BE INSTALLED IN LANDSCAPE AREAS.
I-105	DRIP AREA BREAK LINE
I-106	IRRIGATION DRIPLINE - SHOWN FOR GRAPHIC REPRESENTATION ONLY, CONTRACTOR TO LAYOUT DRIP TUBING ON SITE IN AN ORIENTATION BEST FITTING INSTALLATION AREA.

CRITICAL ANALYSIS

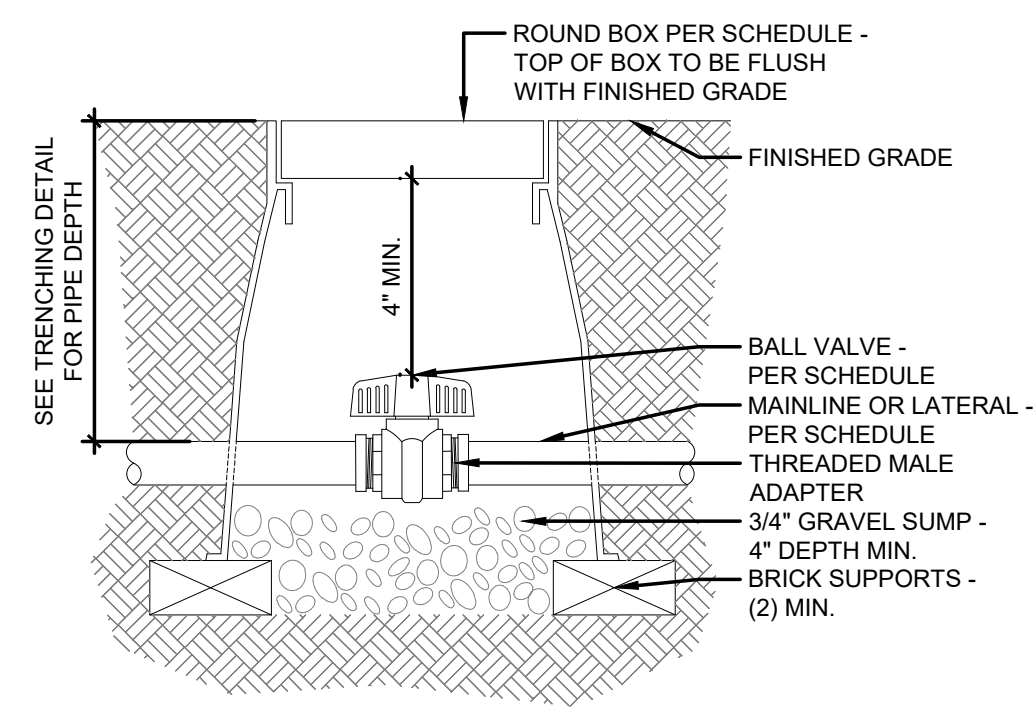
Generated:	2024-07-09 15:52
P.O.C. NUMBER: 01	
Water Source Information:	Connect to building supply line, downstream of building meter.
FLOW AVAILABLE	
Custom Max Flow:	20 GPM
Flow Available:	20 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	80 PSI
Pressure Available:	UNKNOWN
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	20 GPM
Flow Available at POC:	20 GPM
Residual Flow Available:	0 GPM
Critical Station:	C11
Design Pressure:	45 PSI
Friction Loss:	1.63 PSI
Fittings Loss:	0.16 PSI
Elevation Loss:	0 PSI
Loss through Valve:	1.98 PSI
Pressure Req. at Critical Station:	48.8 PSI
Loss for Fittings:	0.74 PSI
Loss for Main Line:	7.4 PSI
Loss for POC to Valve Elevation:	0 PSI
Pressure Req. for Backflow:	12.2 PSI
Loss for Master Valve:	2.9 PSI
Critical Station Pressure at POC:	72.0 PSI
Pressure Available:	80 PSI
Residual Pressure Available:	7.98 PSI

REFERENCE NOTES

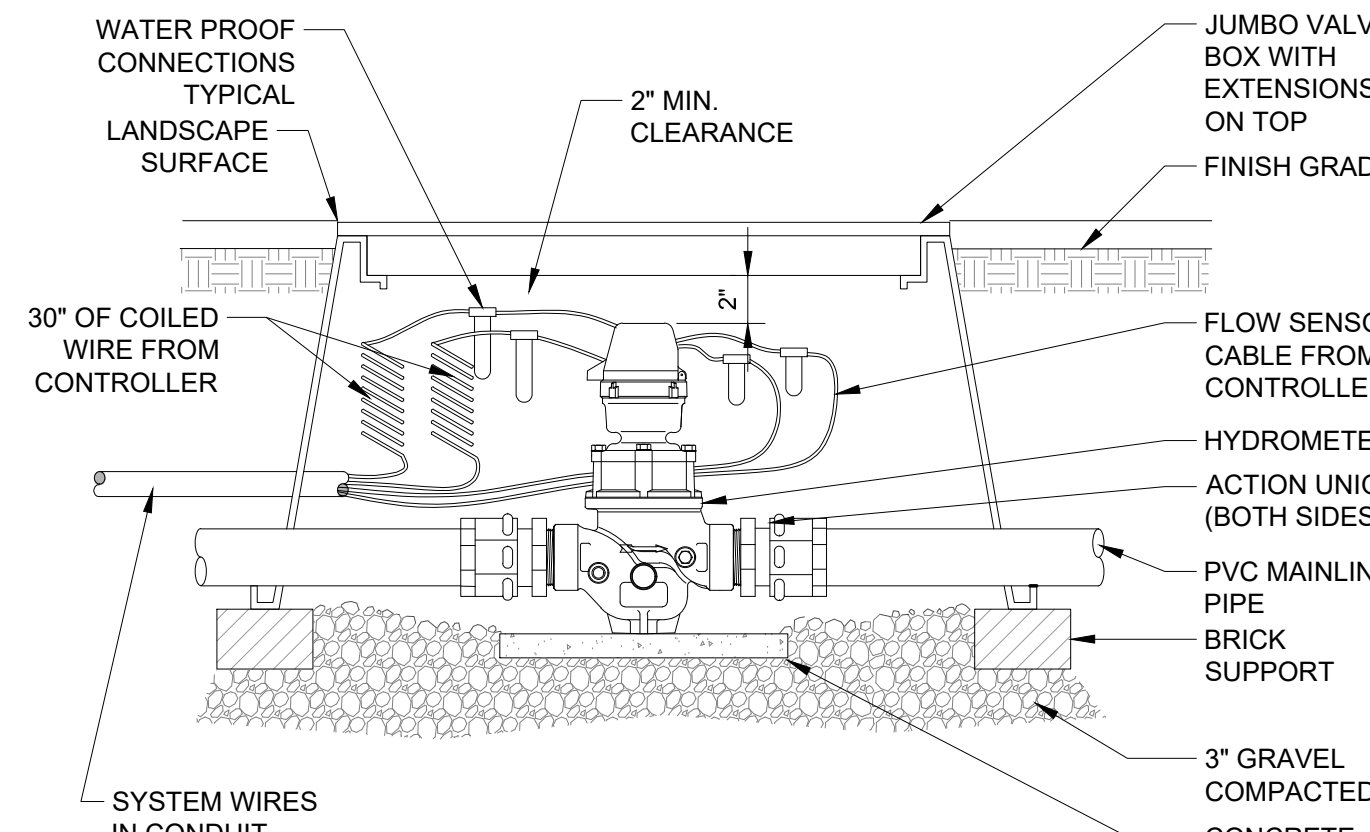
NOTES:

- CONTRACTOR SHALL VERIFY STATIC PRESSURE AT POINT OF CONNECTION AND OPERATING PRESSURE AT EACH HEAD AS INDICATED. INSUFFICIENT PRESSURE CONCERNS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY.
- MAKE THE MAINLINE CONNECTION TO THE EXISTING METER OR WATER SERVICE LINE AS REQUIRED BY LOCAL MUNICIPALITY CODES AND ORDINANCES.
- IRRIGATION CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PERMANENT POWER TO THE CONTROLLERS WITH OWNER AND ELECTRICAL CONTRACTOR.
- PROVIDE AND INSTALL ALL THE MANUFACTURER'S RECOMMENDED SURGE AND LIGHTNING PROTECTION EQUIPMENT ON ALL CONTROLLERS.
- NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF IRRIGATION LAYOUT SHOWS ANY DISCREPANCY BETWEEN DESIGNED IRRIGATION SYSTEM AND ACTUAL SITE CONDITIONS. FOR ANY DECISIONS WHICH ARE DEEMED NECESSARY FOR ADJUSTMENT OF DESIGNED SYSTEM, NO MAJOR CHANGES OR SUBSTITUTIONS SHALL BE MADE TO THE IRRIGATION SYSTEM WITHOUT WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- THE CONSTRUCTOR SHALL INSTALL AND ADJUST IRRIGATION HEADS AS NECESSARY TO ENSURE FULL AND COMPLETE SPRINKLER COVERAGE FOR ALL PLANTED AREAS. FLUSH AND ADJUST HEADS TO ENSURE MINIMAL OVERTHROW ONTO TO WALLS, STREETS, OR OTHER HARD SURFACES.
- THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES BY A LICENSED LANDSCAPE CONTRACTOR AND EXPERIENCED WORKERS, AND ALL PERMITS SHALL BE OBTAINED AND FEES PAID BY THE CONTRACTOR.
- NO CHANGES IN MATERIALS SHALL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT.
- THE AUTOMATIC CONTROLLER SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. USE GALVANIZED SLEEVE FOR ELECTRICAL WIRING FROM THE CONTROLLER TO THE 18" BELOW GRADE. THE POWER LINE SHALL BE ENCLOSED AS PER CODE.

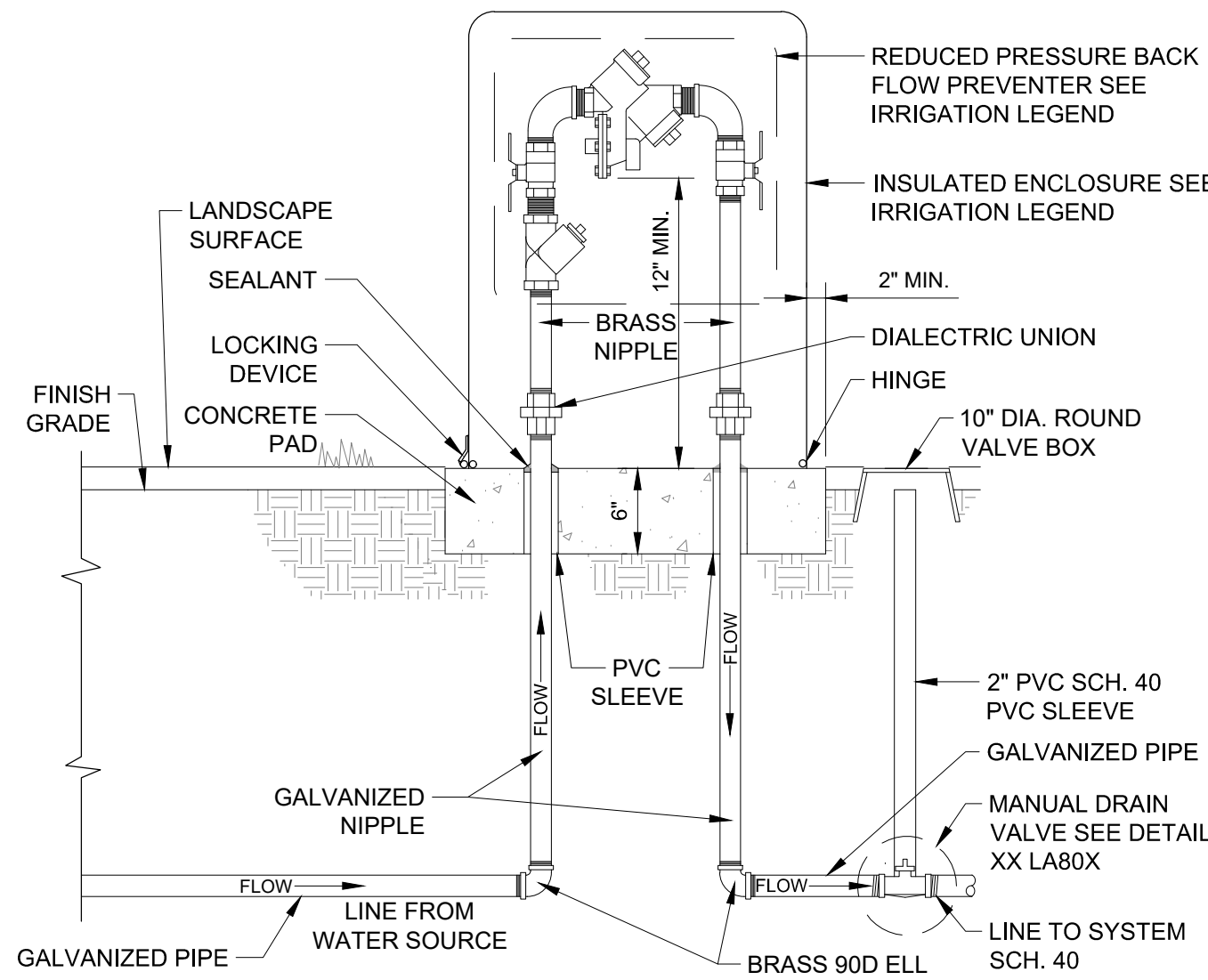
- NOTES:**
1. COMPACT SOIL AROUND BALL VALVE ASSEMBLY TO THE SAME DENSITY AS ADJACENT, UNDISTURBED SUBGRADE.
 2. DO NOT REST VALVE BOX OR ACCESS SLEEVE ON MAINLINE OR LATERAL LINE.
 3. ALL THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.



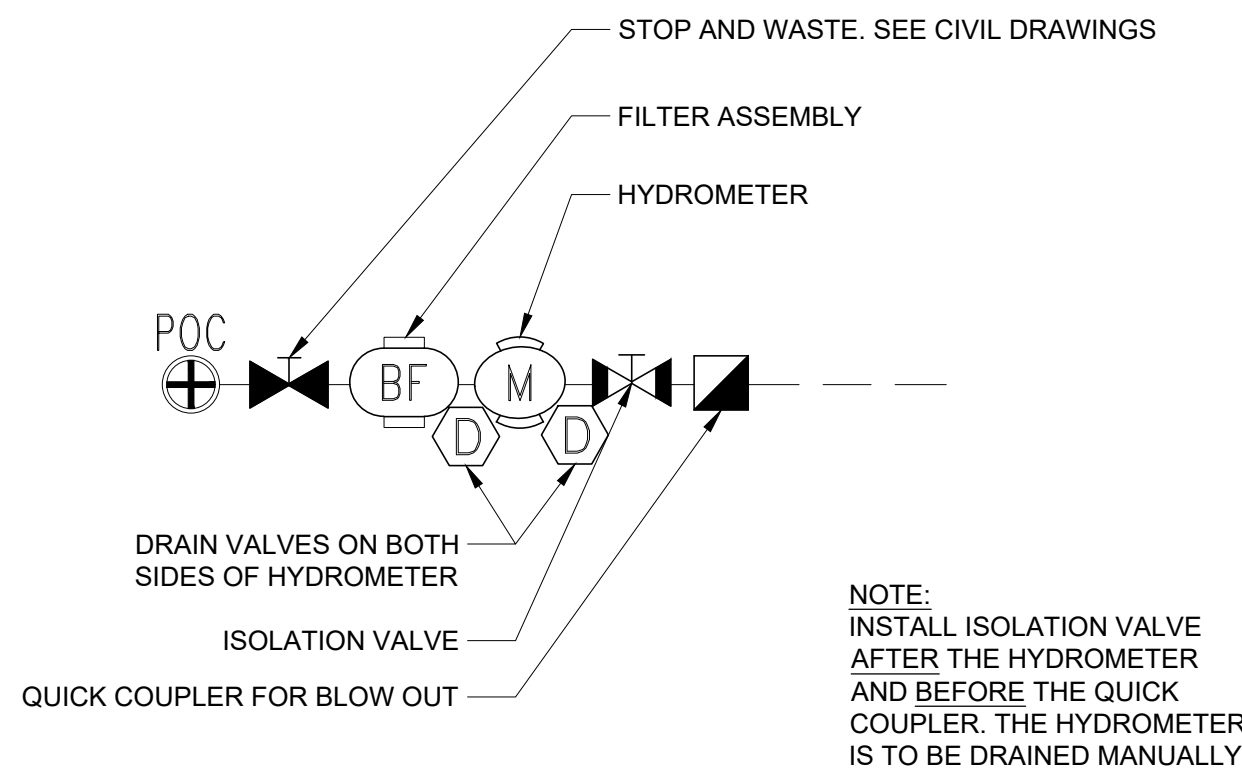
D1 BALL VALVE - 2-1/2" OR SMALLER
NOT TO SCALE



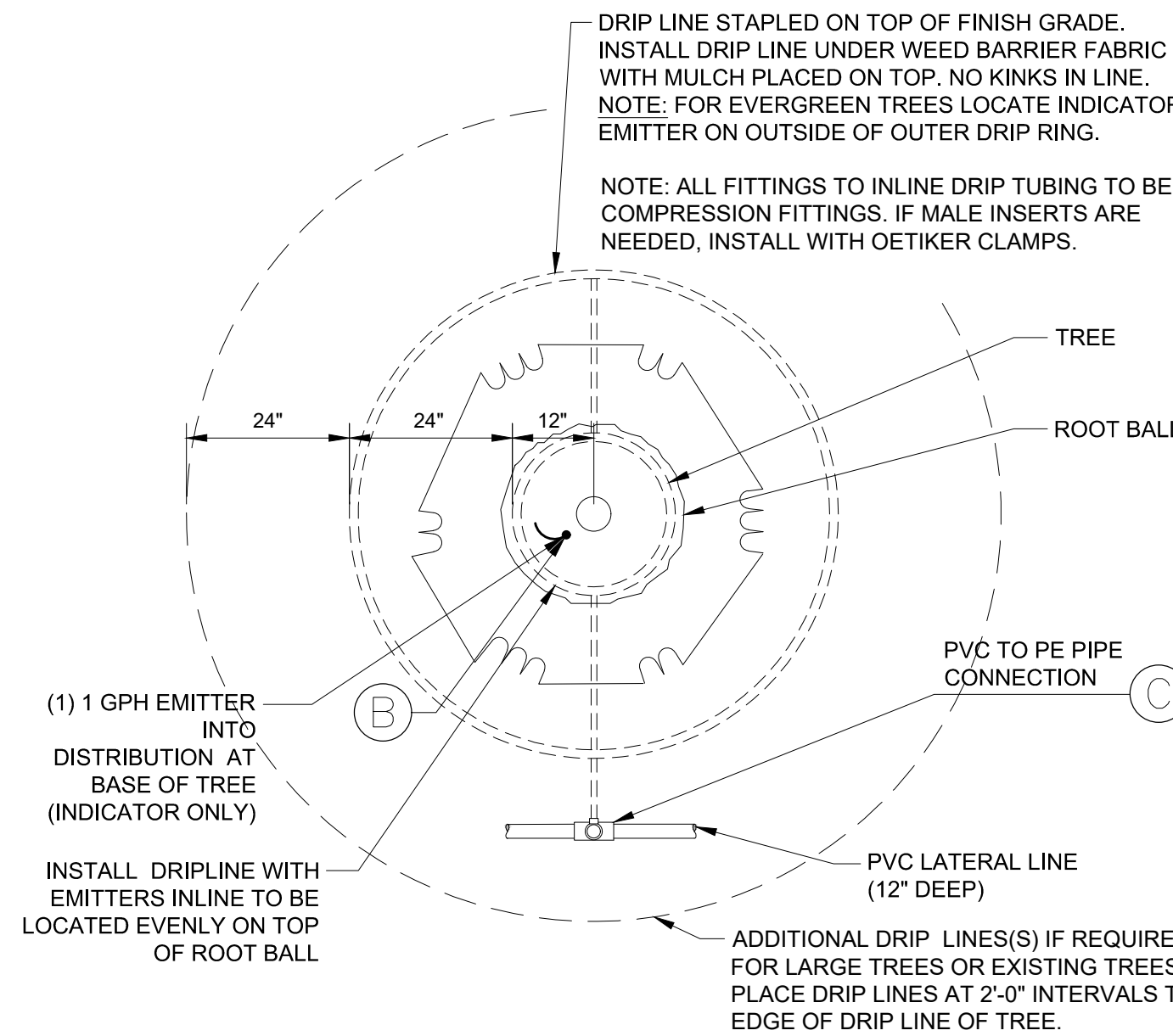
D2 HYDROMETER
1 1/2" = 1'-0"



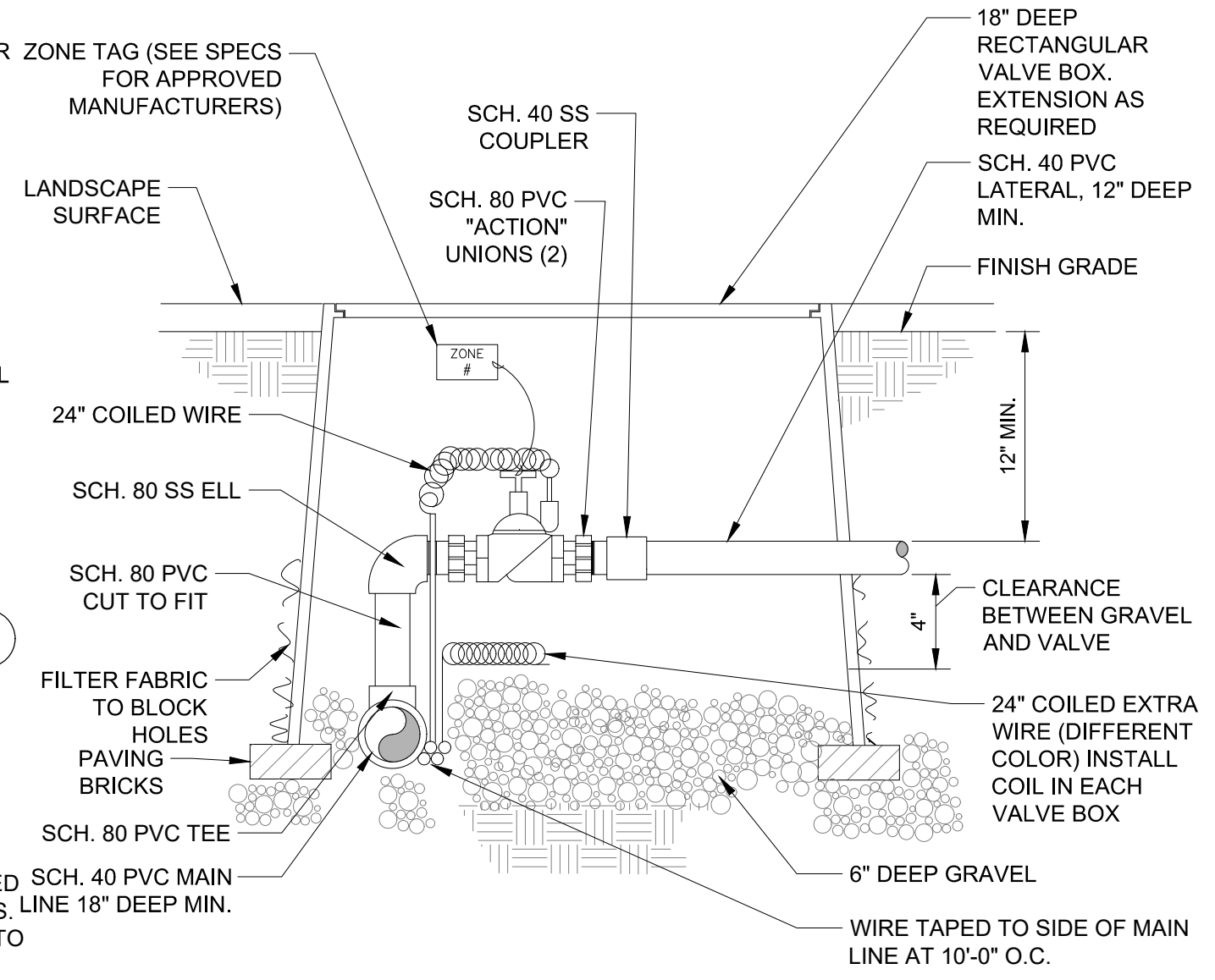
D3 REDUCED PRESSURE BACKFLOW PREVENTER
1 1/2" = 1'-0"



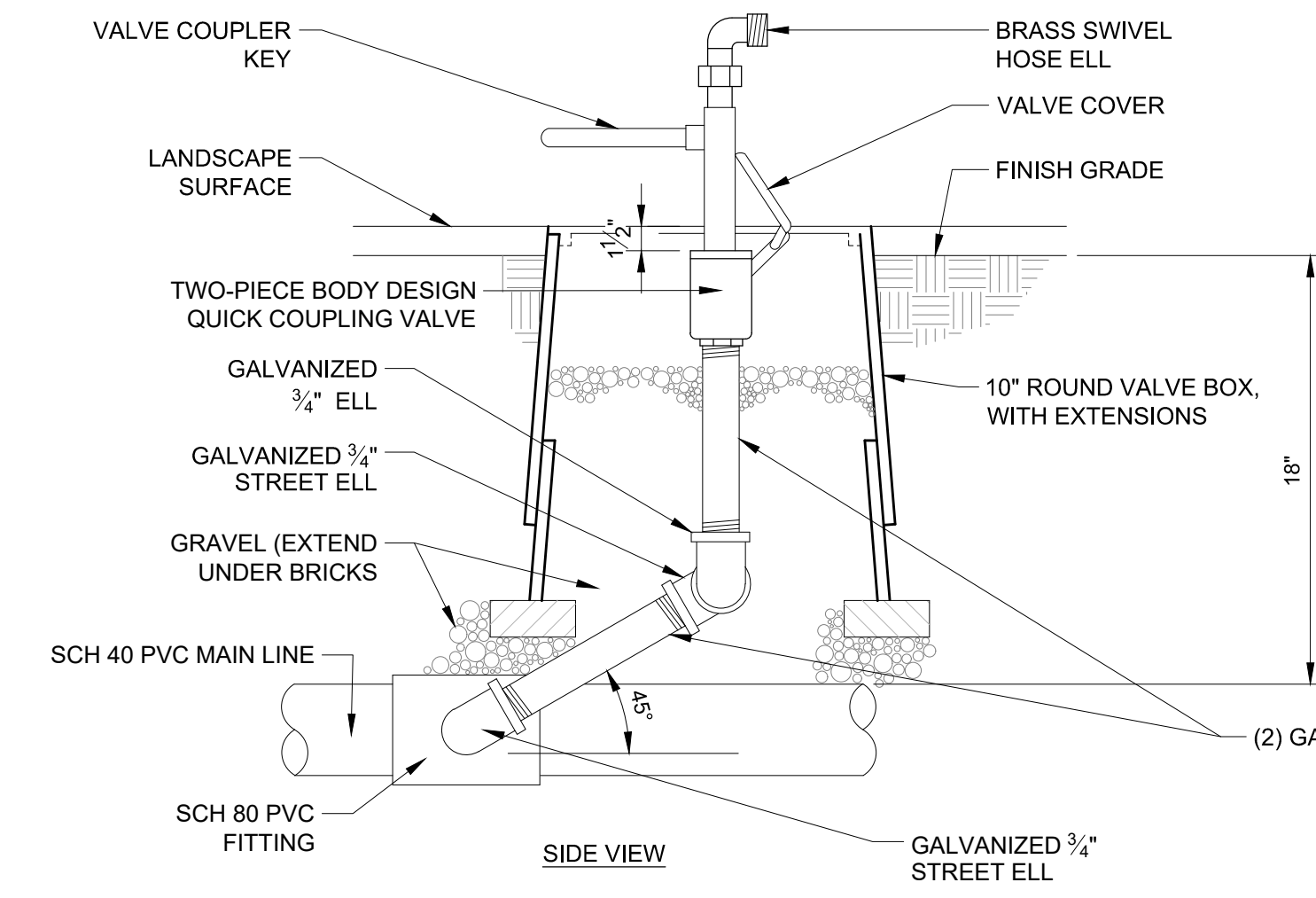
D4 POC SCHEMATIC LAYOUT W/ BACKFLOW ASSEMBLY
3" = 1'-0"



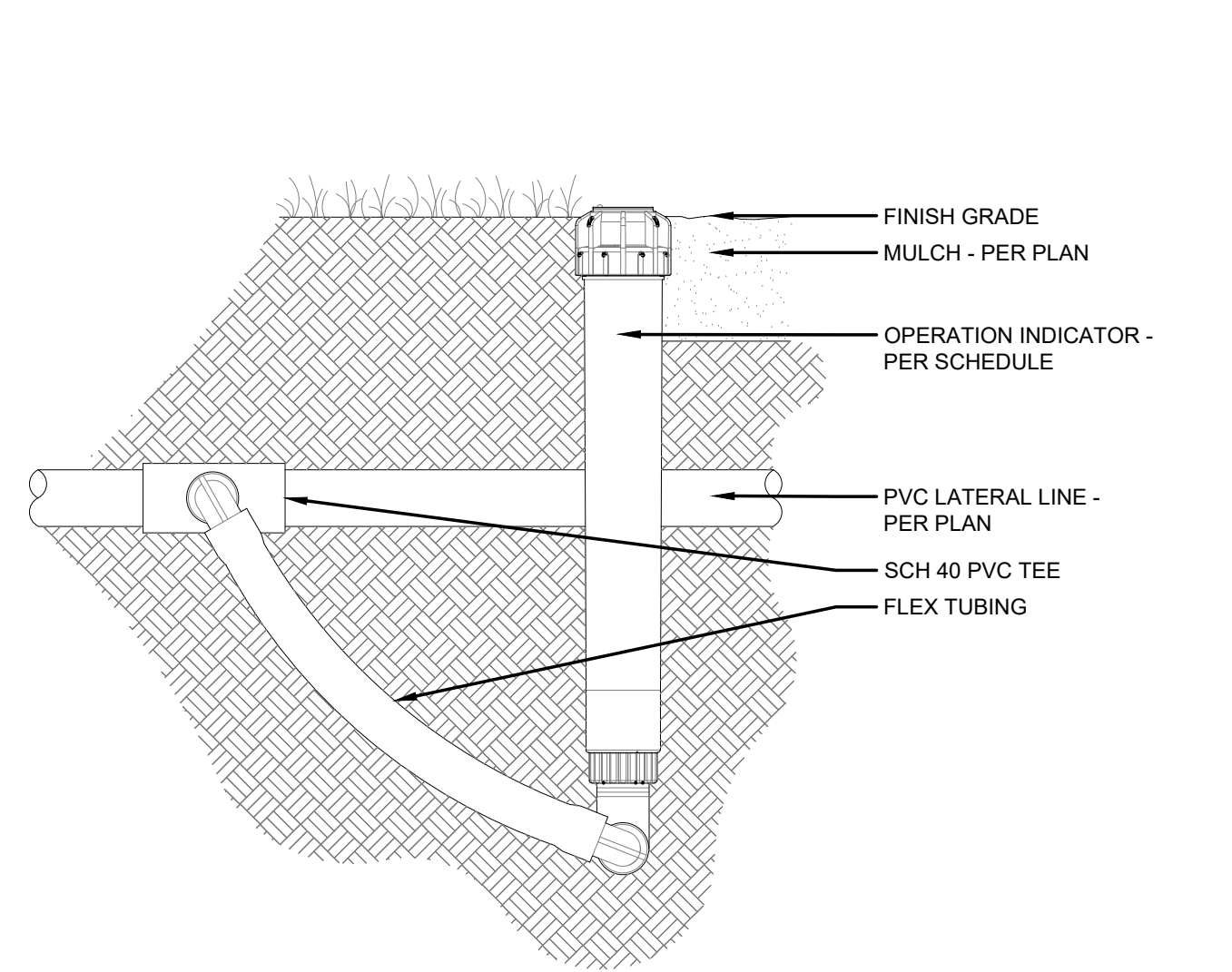
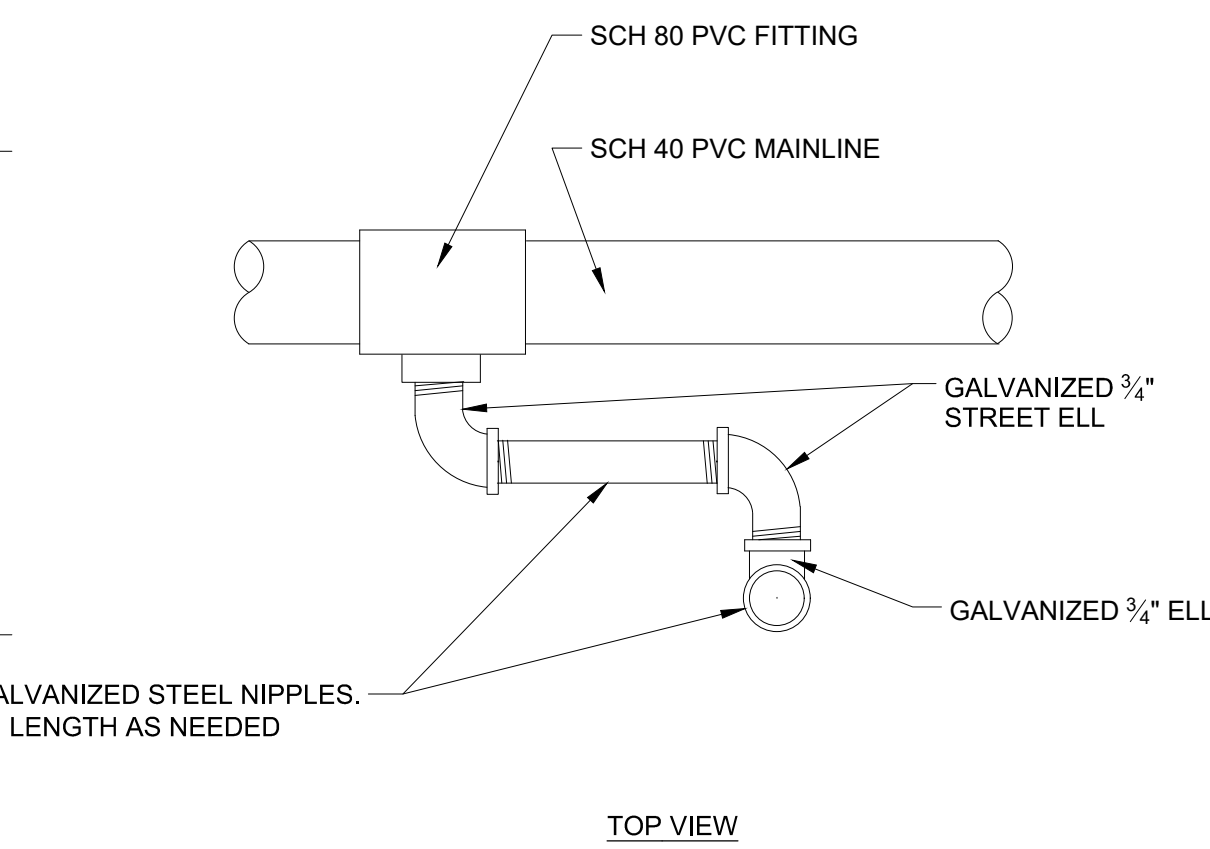
C1 TREE DRIP - PLAN VIEW (PLANTER AREAS)
1/2" = 1'-0"



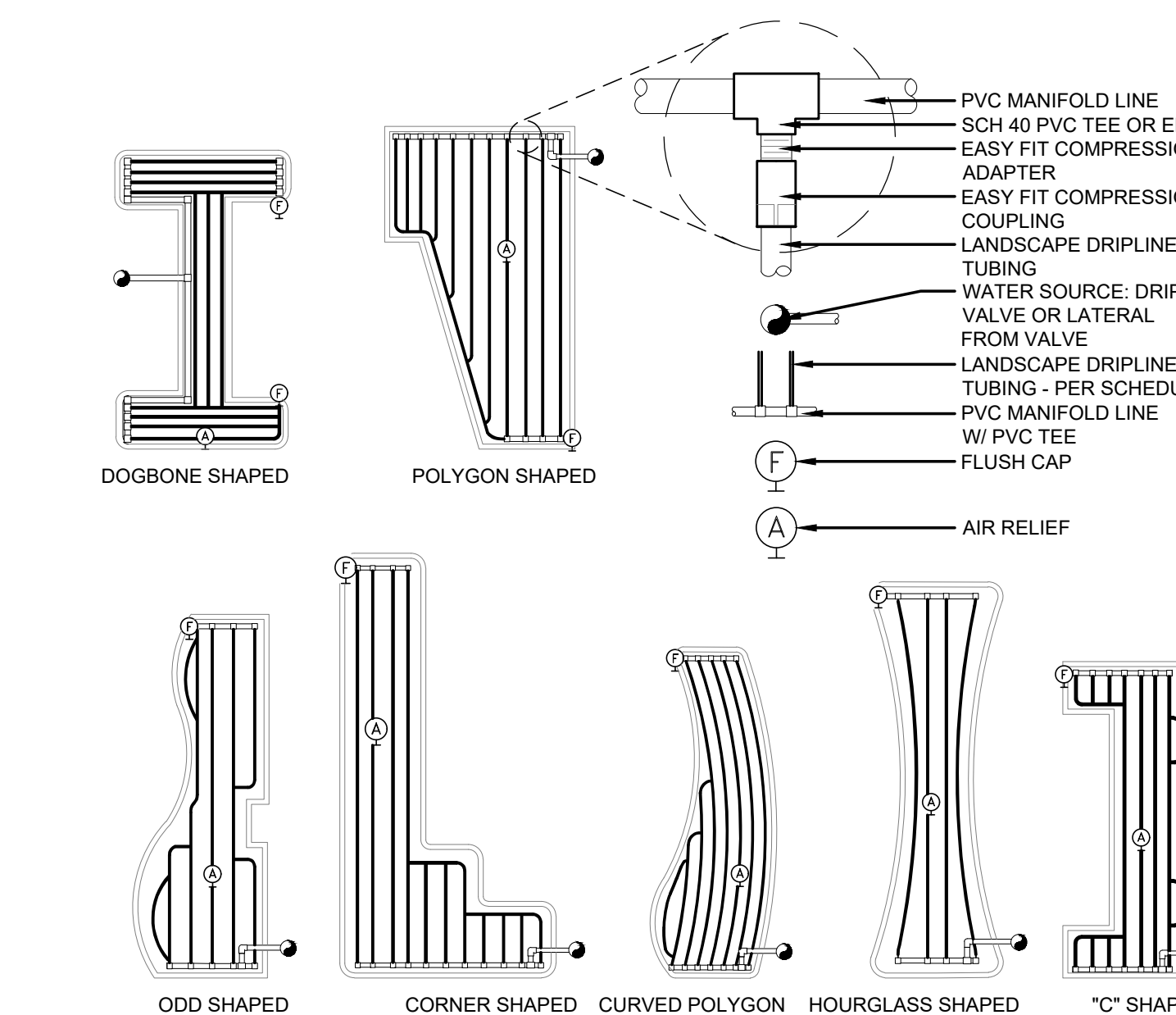
C2 AUTOMATIC VALVE W/ CONVENTIONAL WIRE SYSTEM
1" = 1'-0"



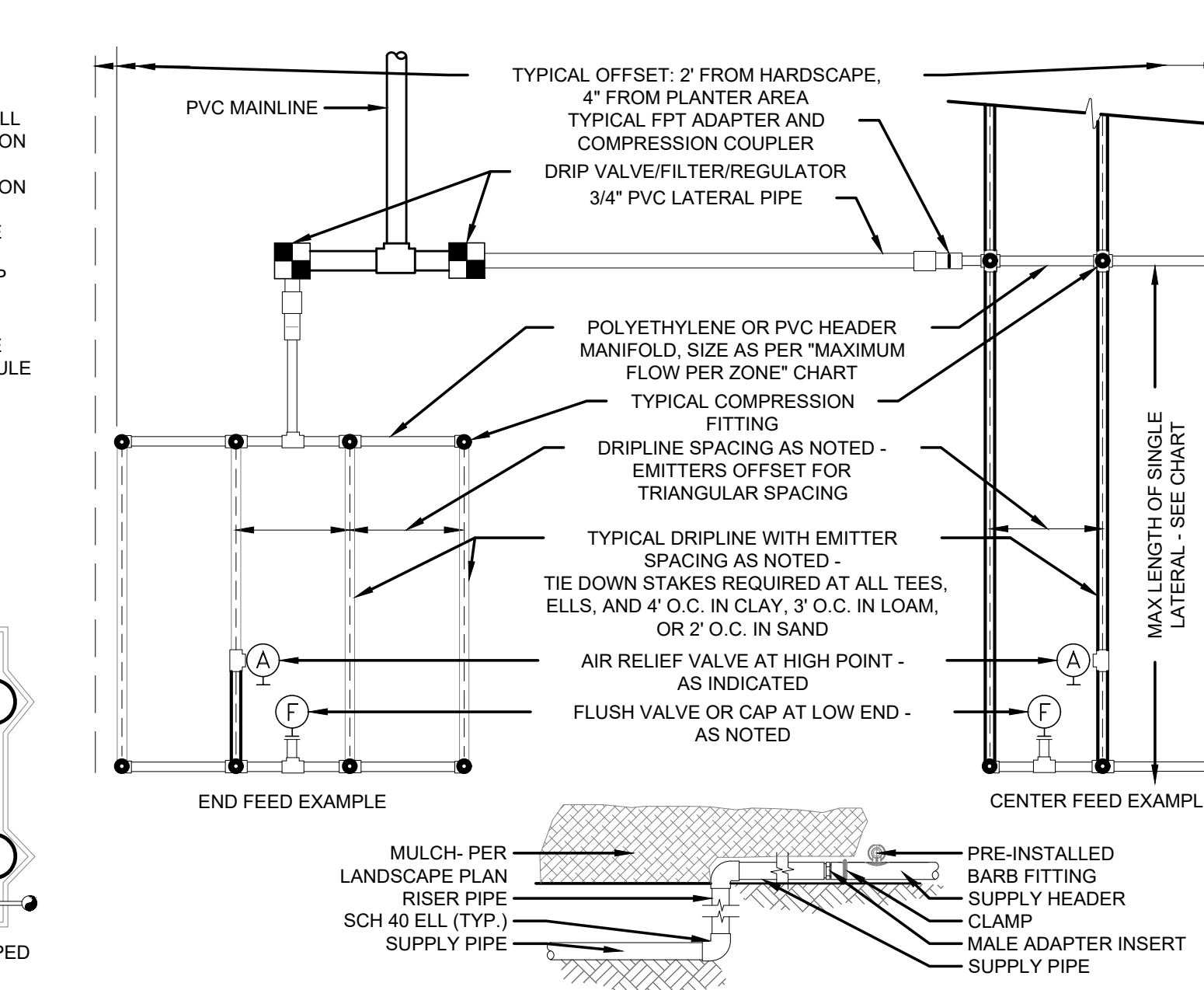
C3 QUICK COUPLING VALVE
1" = 1'-0"



B1 DRIPLINE OPERATION INDICATOR (HUNTER)
NOT TO SCALE



B2 INLINE ON-SURFACE DRIP
NOT TO SCALE



SLOPED CONDITION NOTES:

1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
2. INSTALL AIR RELIEF VALVE AT THE HIGHEST POINT.
3. NORMAL SPACING WITHIN THE TOP 20% OF SLOPE.
4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM 1/3 THE SLOPE.
5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM 3 ON A SEPARATE VALVE.

GRID PRECIPITATION RATES (IN/HR)			
EMITTER SPACING	LATERAL SPACING	EMITTER FLOW RATE	PSI LOSS
12	12	0.6	0.9
18	18	0.96	1.44
24	24	0.69	1.03
		0.28	0.41

MAXIMUM FLOW PER ZONE			
EMITTER FLOW RATE	MAX GPM	PSI LOSS	
1/2" 4.7 GPM	7.7	PSI	
3/4" 8.3 GPM	5.6	PSI	
1" 13.5 GPM	4.2	PSI	
1-1/2" 33.9 GPM	2.9	PSI	
2" 52.4 GPM	1.9	PSI	

LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.8 GPH	1.5 GPM	1.0 GPM	0.75 GPM

POLY PIPE HEADER SIZE			
EMITTER FLOW RATE	1/2" 4.7 GPM	3/4" 8.3 GPM	1" 13.5 GPM
0.6 GPH	8.8	6.3	4.8
0.8 GPH	31.8	2.9	2.2
	52.4	PSI	PSI

MAXIMUM LATERAL LENGTH (FEET)

EMITTER FLOW RATE GPH

PSI	12" SPACING	18" SPACING	24" SPACING
10	125	96	175
20	249	191	350
30	307	236	434
40	350	268	495
50	125	96	175
60	125	96	175

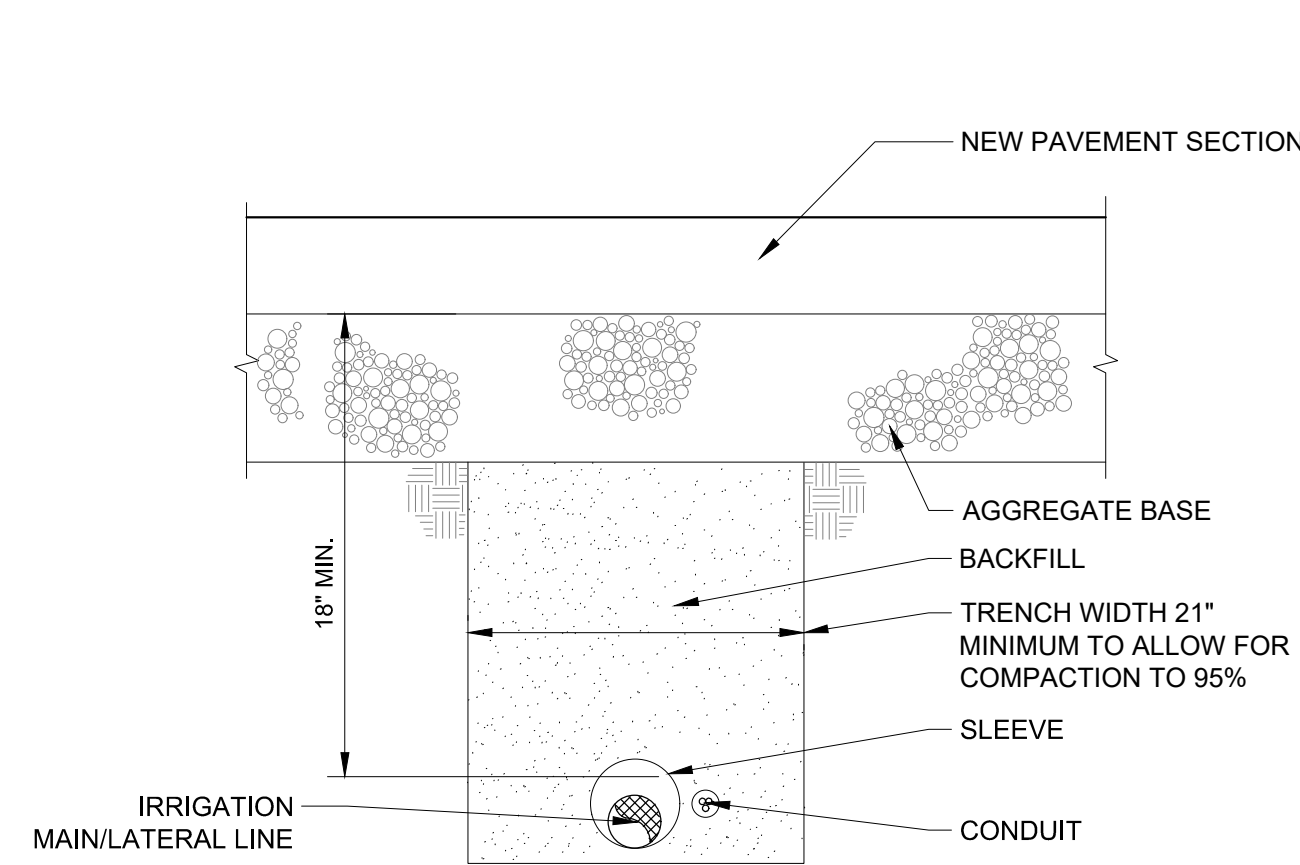
A1 SPRAY HEAD ASSEMBLY
1 1/2" = 1'-0"

A2 SPRAY HEAD OR ROTOR AT CURB OR WALK
1 1/2" = 1'-0"

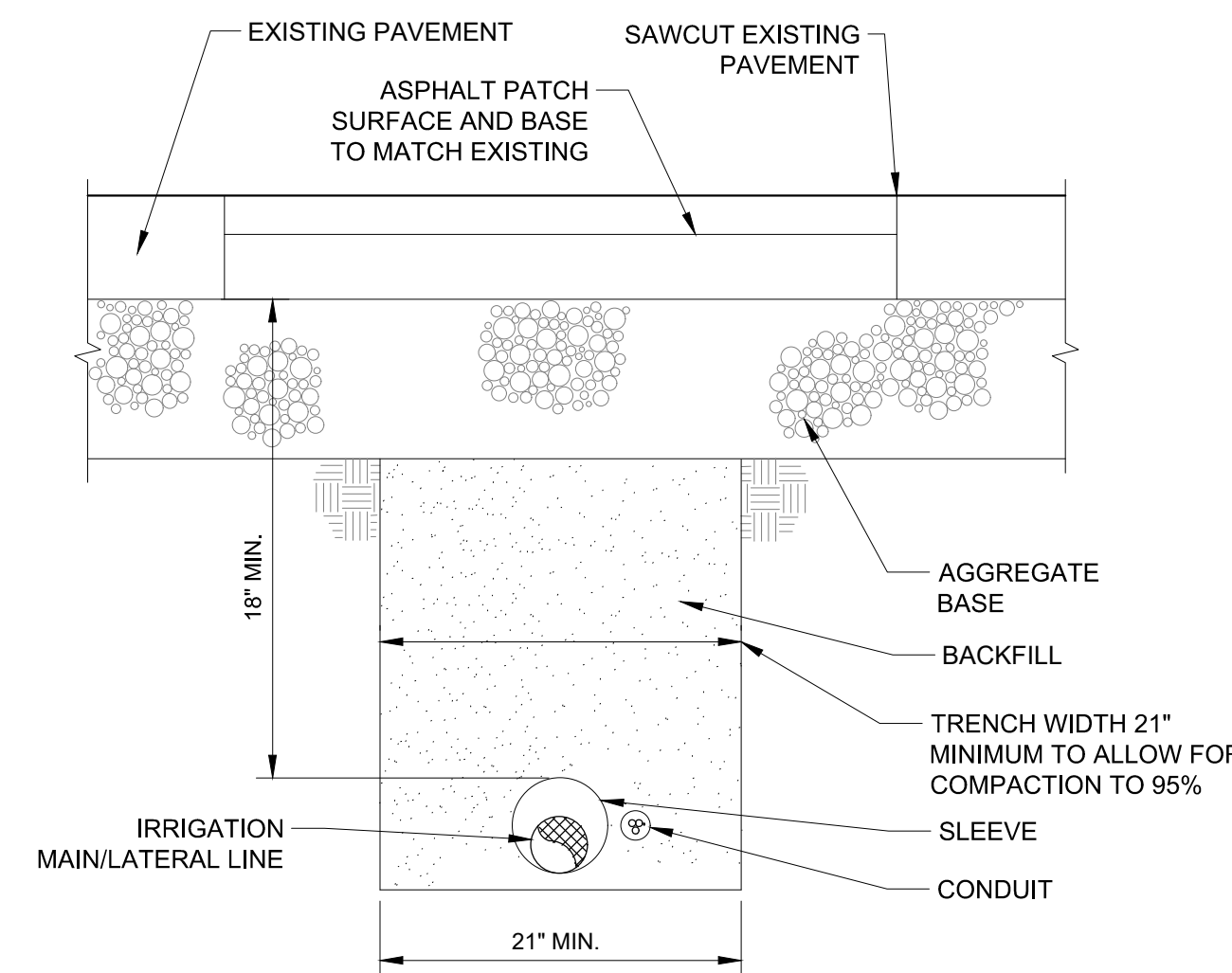
A3 DRIP VALVE ASSEMBLY - CONVENTIONAL WIRING
NTS

A4 INLINE DRIP FLUSH VALVE
NTS

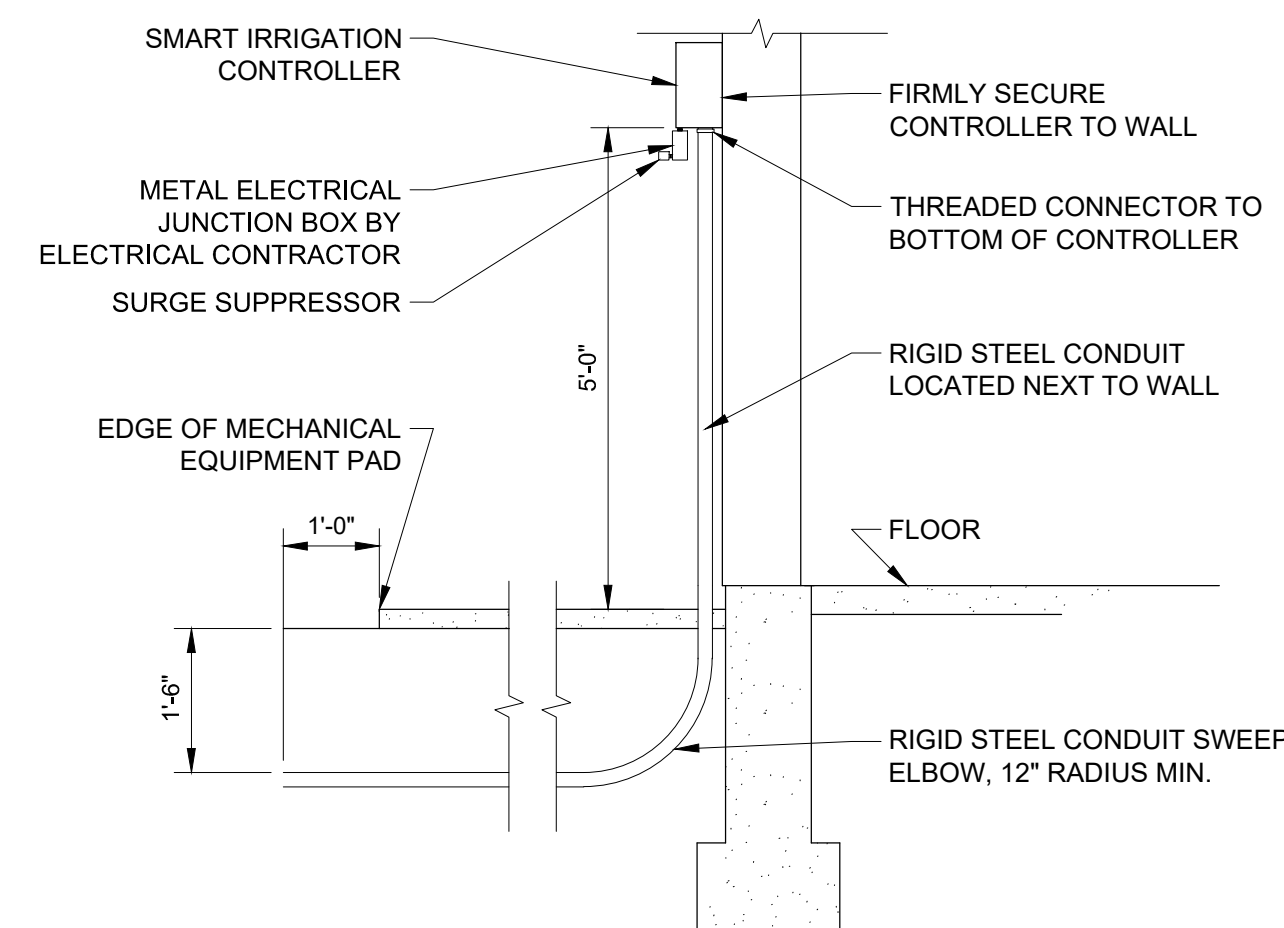
REFERENCE NOTES



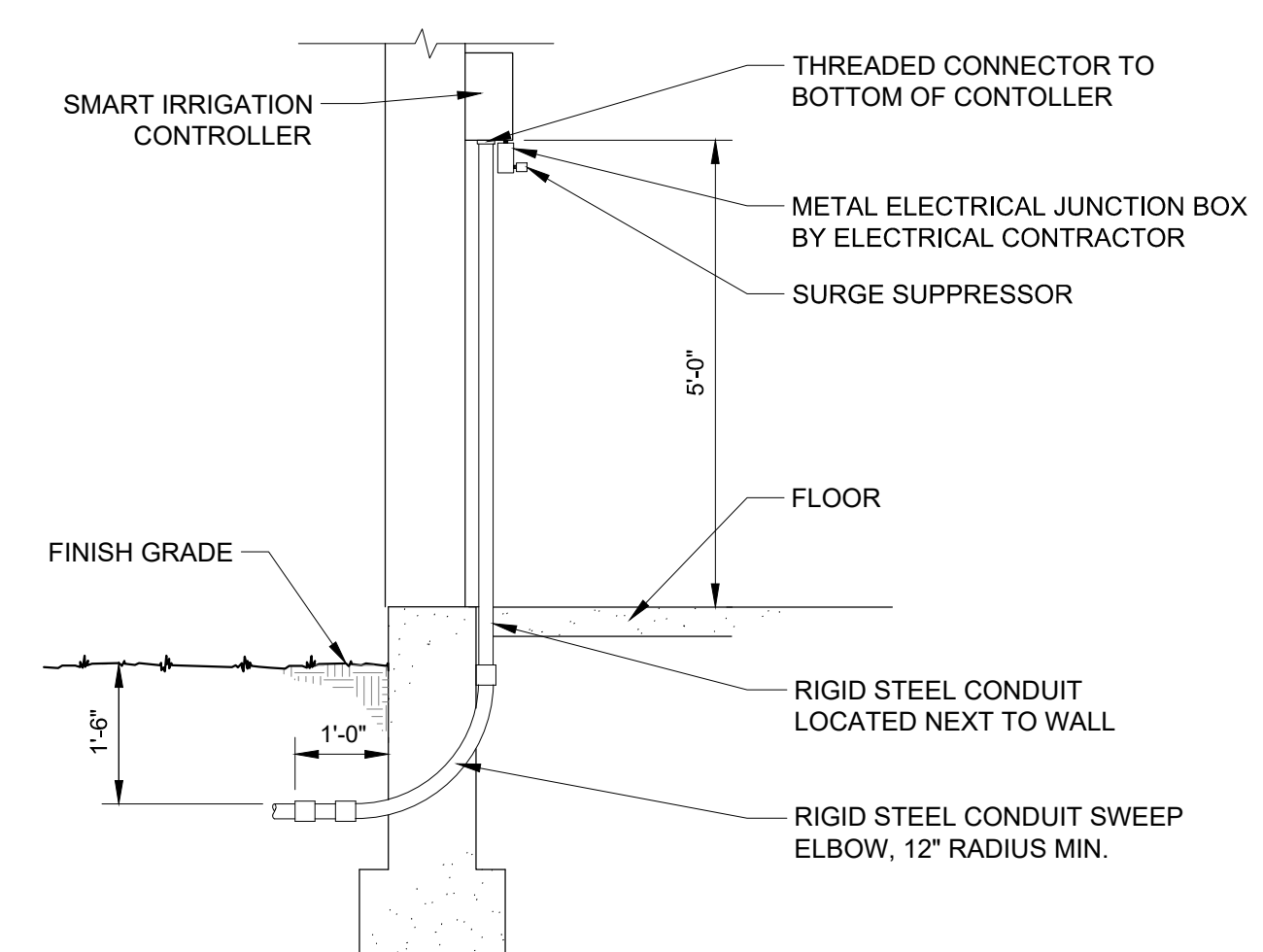
B1 PIPE TRENCH UNDER NEW PAVEMENT
1" = 1'-0"



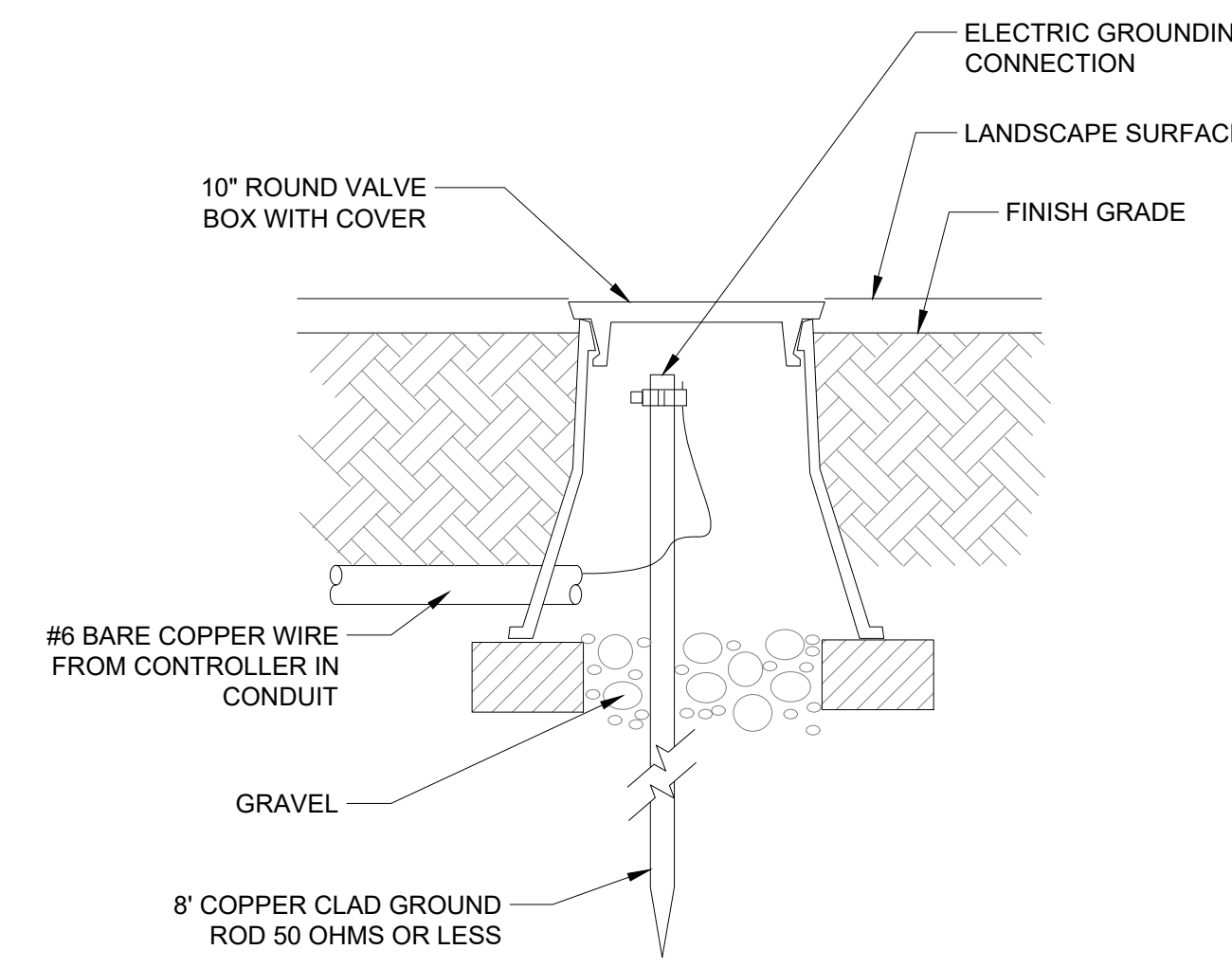
B2 PIPE TRENCHING UNDER EXISTING PAVEMENT
1" = 1'-0"



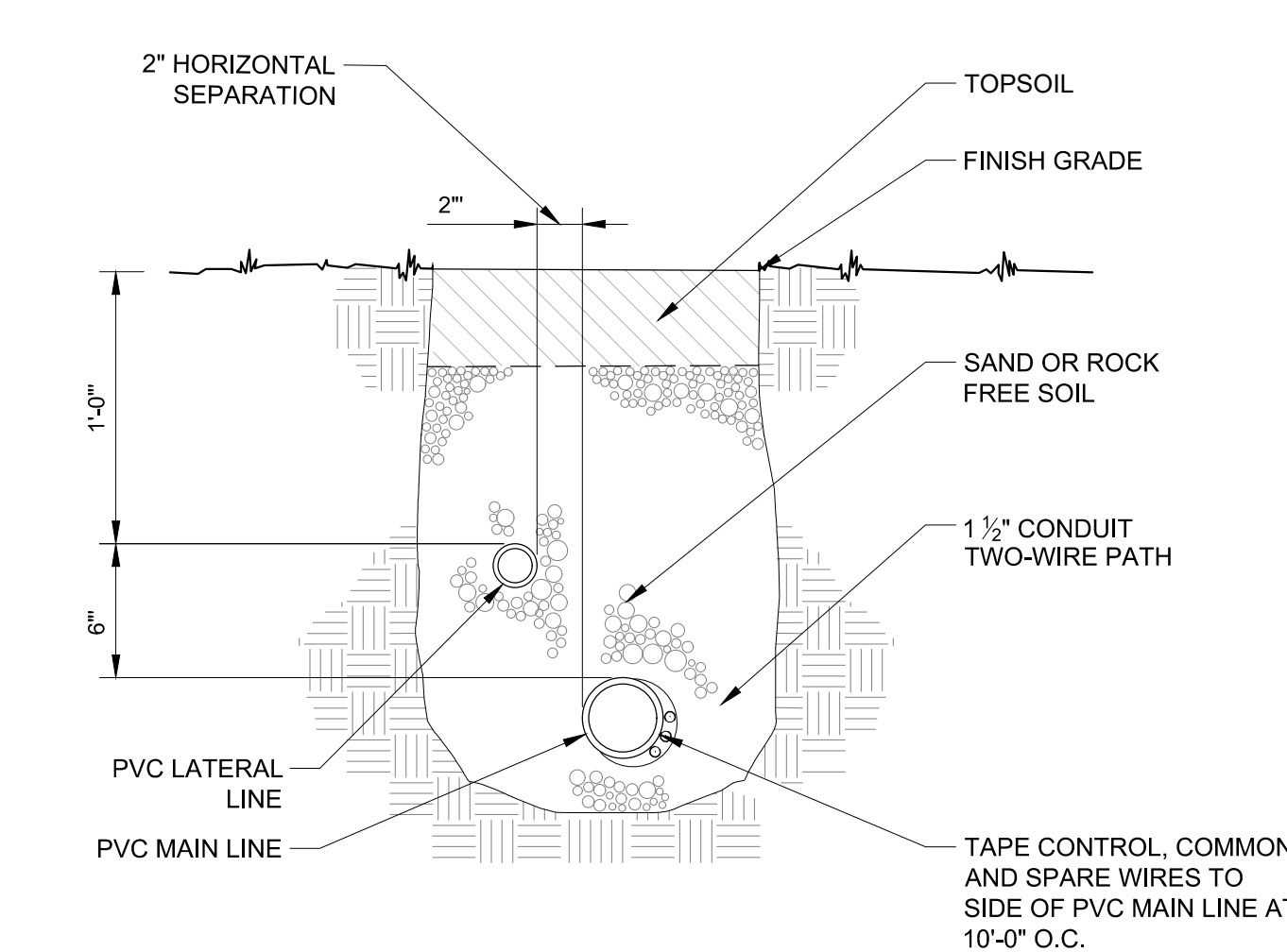
A1 IRRIGATION CONTROLLER - EXTERIOR MOUNT
1/2" = 1'-0"



A2 IRRIGATION CONTROLLER - INTERIOR MOUNT
1/2" = 1'-0"



A3 LIGHTNING ARRESTOR - CONVENTIONAL SYSTEM
1 1/2" = 1'-0"



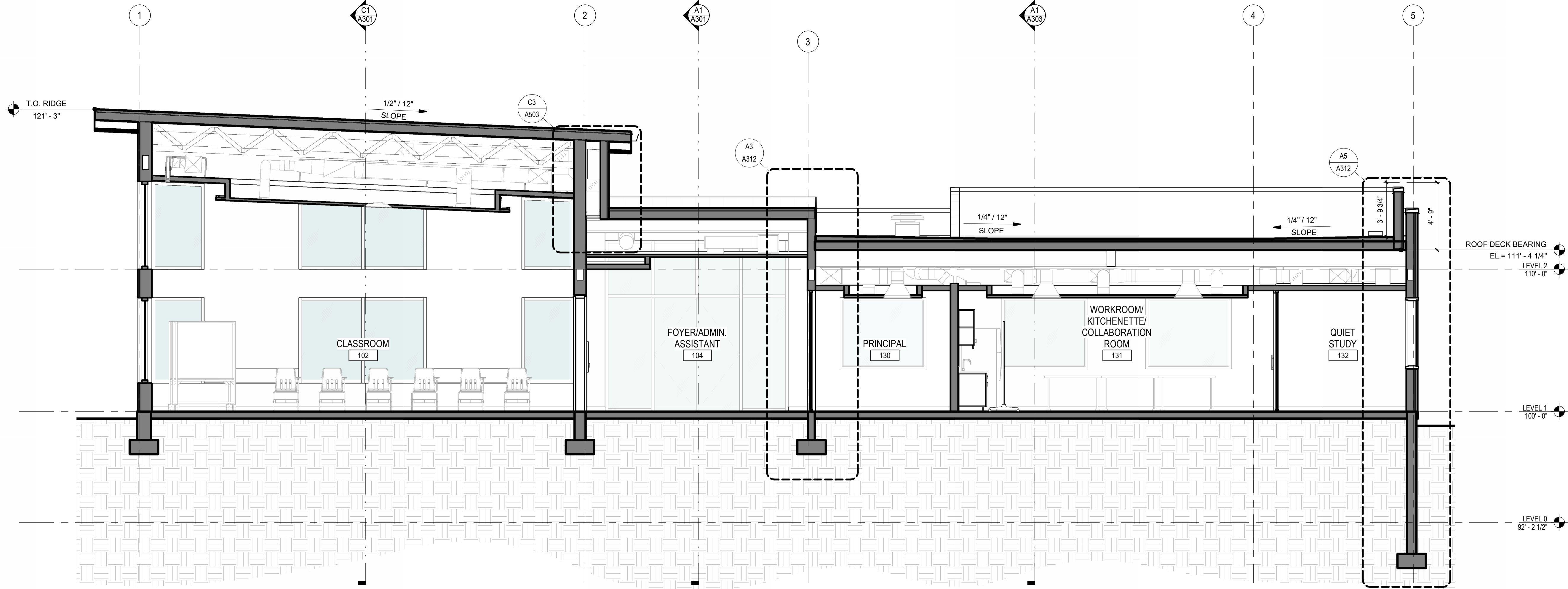
A4 TRENCH SECTION - CONVENTIONAL WIRE SYSTEM
1 1/2" = 1'-0"

REFERENCE NOTES

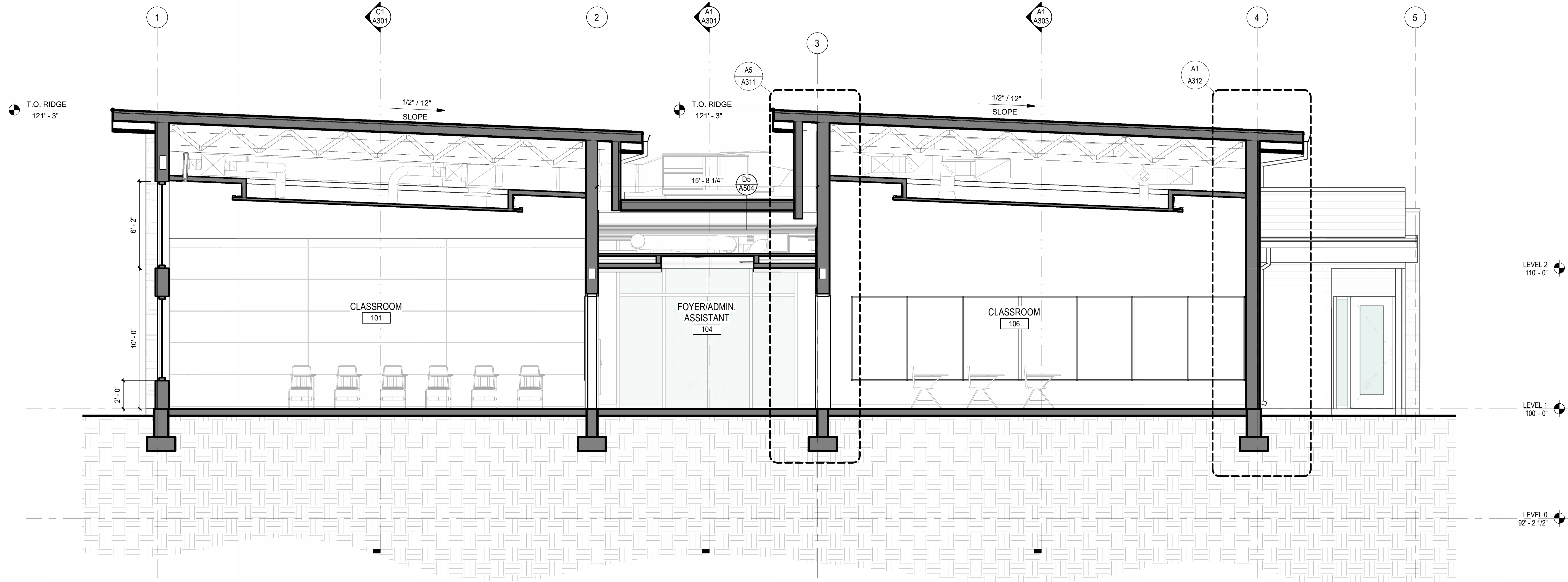
5/09/2024 9:22:08 a.m.

A B C D E F

REFERENCE NOTES



C1 LOGAN UT SEMINARY - LONGITUDINAL SECTION D
SCALE: 1/4" = 1'-0"



A1 LOGAN UT SEMINARY - LONGITUDINAL SECTION C
SCALE: 1/4" = 1'-0"

5/09/2024 9:22:10 a.m.

A B C D E

1

2

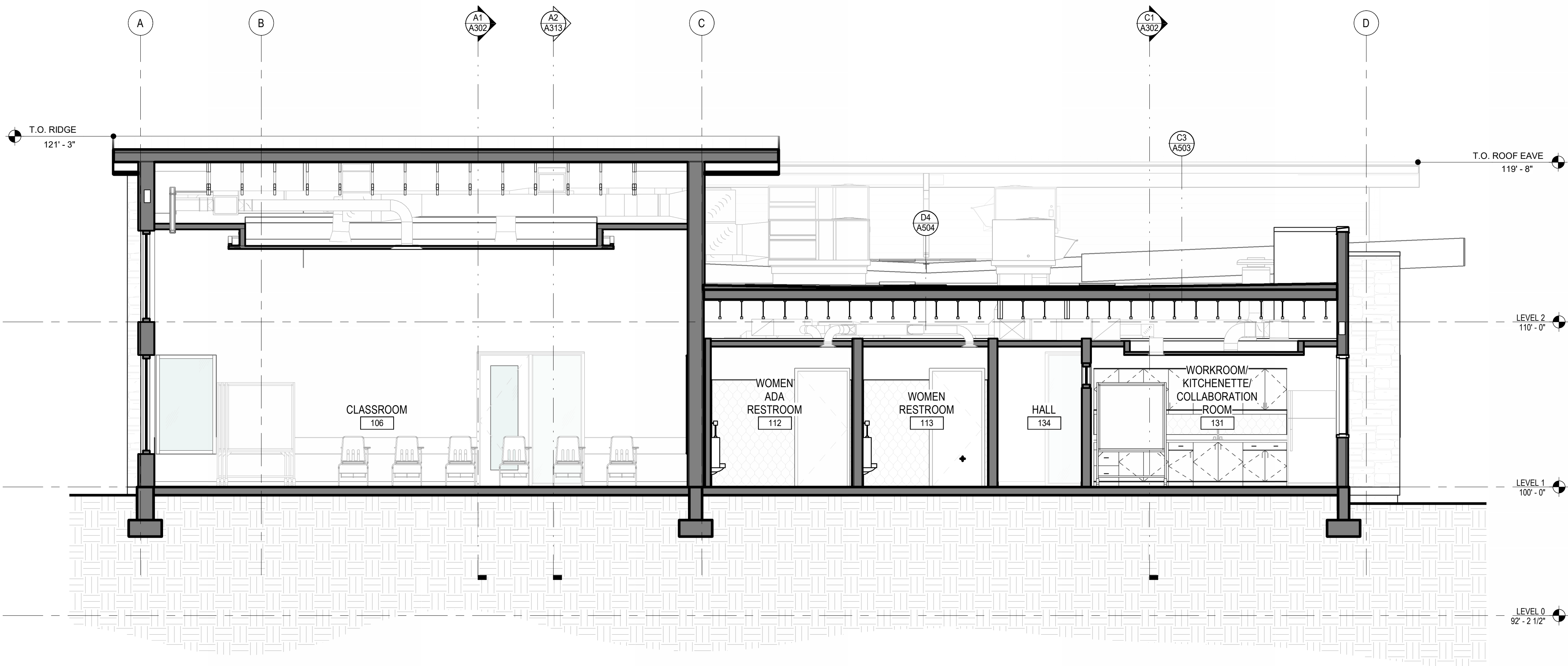
3

4

5

6

REFERENCE NOTES



A1

LOGAN UT SEMINARY - LONGITUDINAL SECTION E
SCALE: 1/4" = 1'-0"

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.24



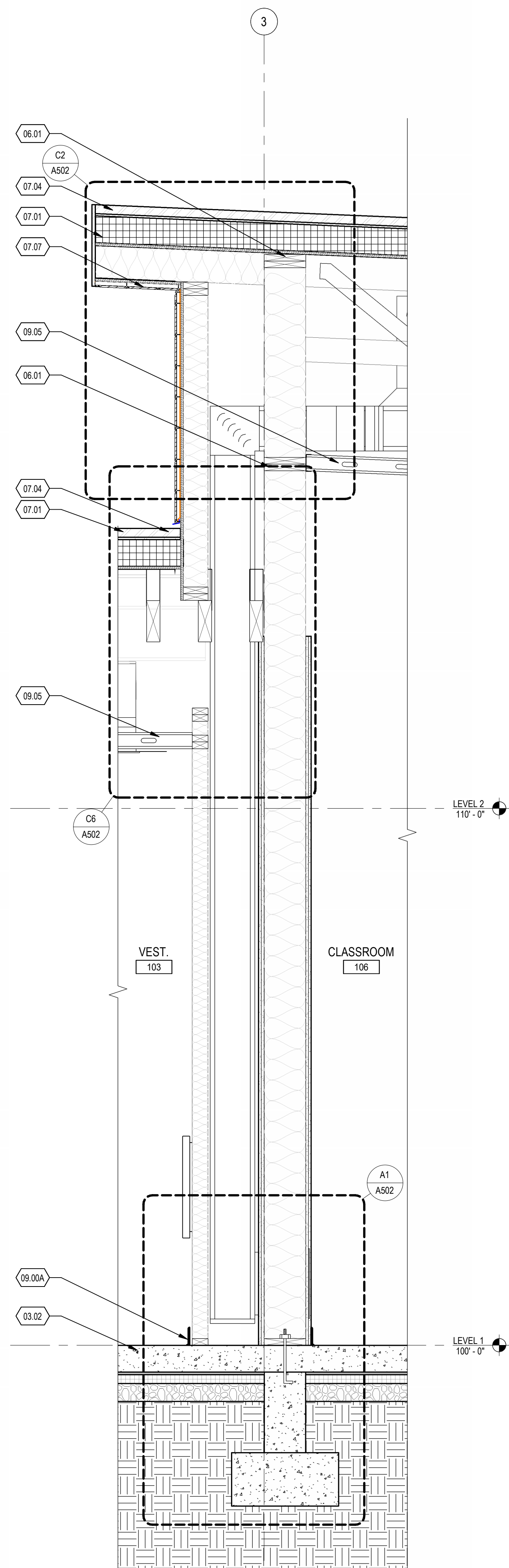
DATE REVISION

PROJECT NUMBER 24003

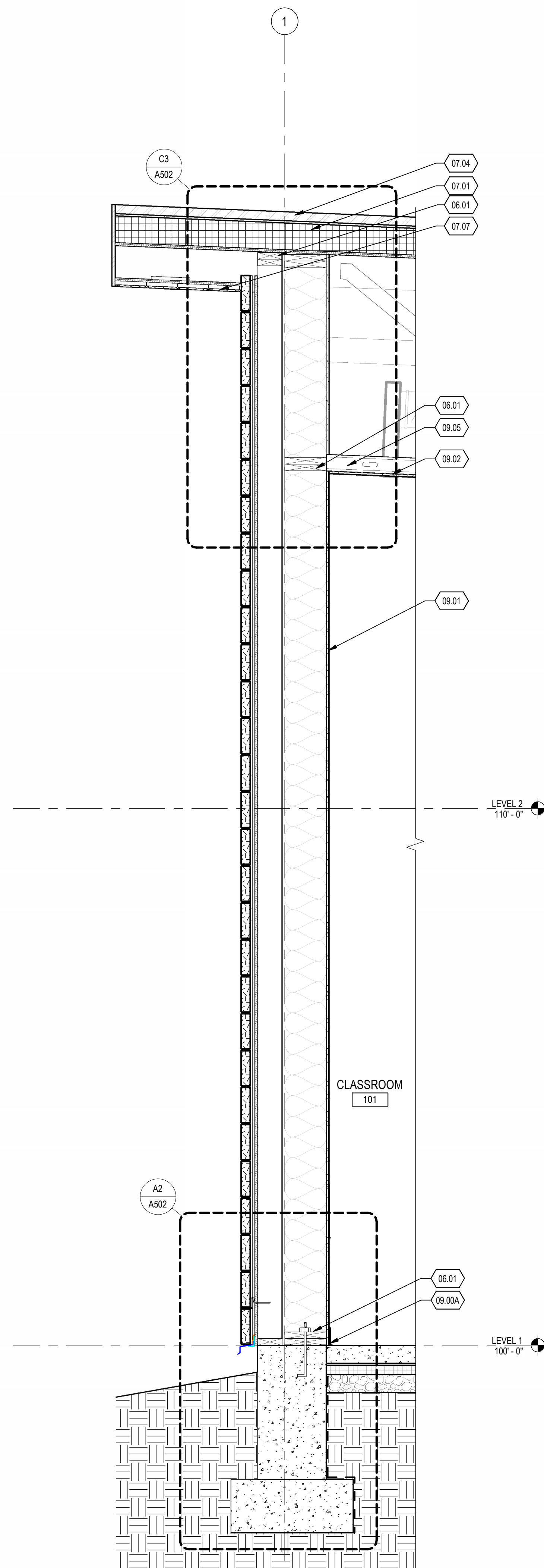
BUILDING
SECTIONS

A303

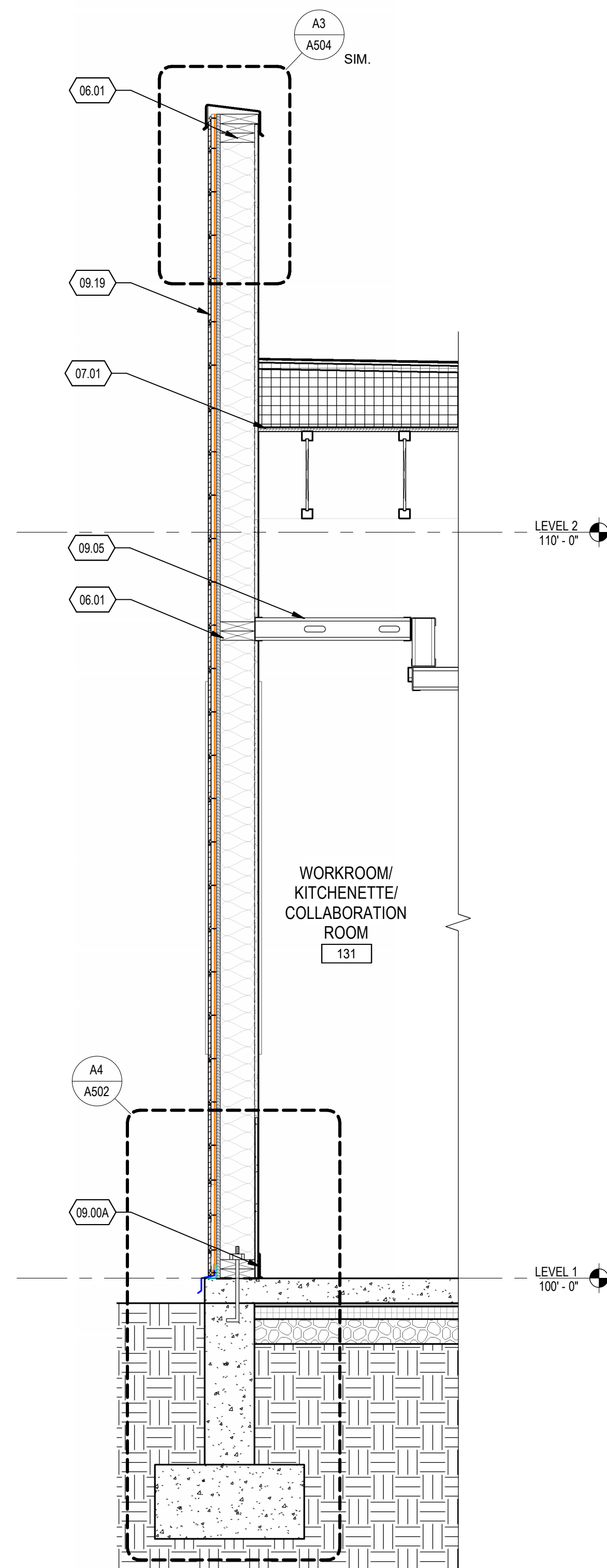
FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 - FFKR.COM



A1 WALL SECTION @ CLASSROOM 106



A3 WALL SECTION @ CLASSROOM 101
SCALE: 3/4" = 1'-0"



A5 WALL SECTION @ WORKROOM/ KITCHENETTE/ COLLABORATION ROOM
SCALE: 3/4" = 1'-0"

- ## REFERENCE NOTES
- | | |
|--------|--|
| 03.02 | CONCRETE FLOOR |
| 06.01 | 2 X WOOD FRAMING |
| 07.01 | RIGID ROOF INSULATION |
| 07.04 | STANDING SEAM METAL ROOF |
| 07.07 | TRESPA SOFFIT |
| 09.00A | SCHEDULED WALL BASE |
| 09.01 | 5/8" TYPE "X" GYPSUM BOARD |
| 09.02 | SCHEDULED CEILING, SEE REFLECTED CEILING PLANS |
| 09.05 | 3 5/8" METAL STUD |
| 09.19 | TRESPA PURA, SEE SPECS |



DATE	REVISION

5/09/2024 9:22:14 a.m.

A B C D E

1' 0"

0' 0"

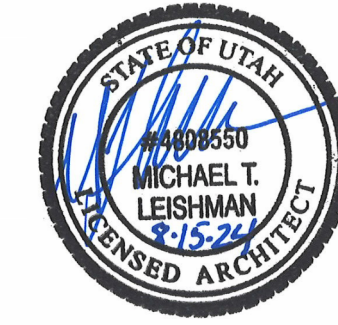
1 2 3 4 5 6

REFERENCE NOTES

- 03.02 CONCRETE FLOOR
- 06.01 2 X WOOD FRAMING
- 07.01 RIGID ROOF INSULATION
- 07.04 STANDING SEAM METAL ROOF
- 07.07 TRESPA SOFFIT
- 08.03 SCHEDULED DOOR
- 08.05 WINDOW, SEE WINDOW SCHEDULE
- 09.00A SCHEDULED WALL BASE
- 09.01 5/8" TYPE 'X' GYPSUM BOARD
- 09.02 SCHEDULED CEILING, SEE REFLECTED CEILING PLANS
- 09.05 3 5/8" METAL STUD
- 09.19 TRESPA PURA, SEE SPECS
- 10.06 ELECTRIC ROLLER SHADES, TYP AT ALL CLASSROOM WINDOWS.
- 22.16 GALVANIZED HALF GUTTER, SEE ROOF PLAN FOR DOWNSPOUT LOCATION

FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 - FFKR.COM

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.24



DATE REVISION

PROJECT NUMBER 24003

WALL SECTIONS

A311

A1

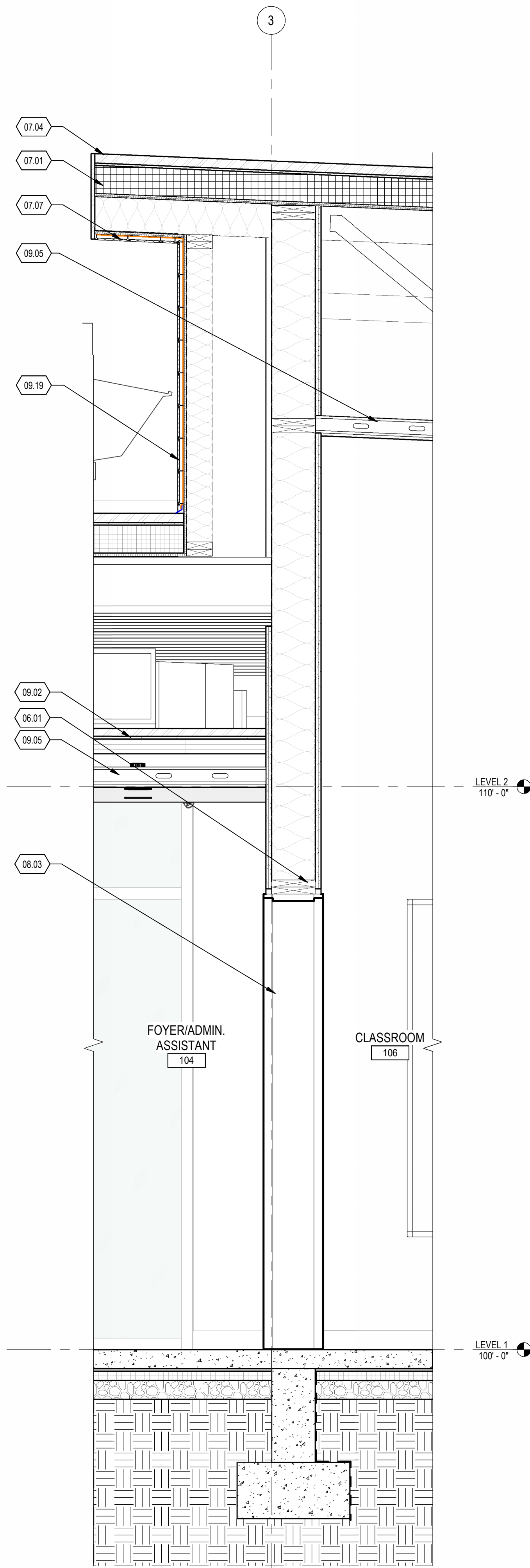
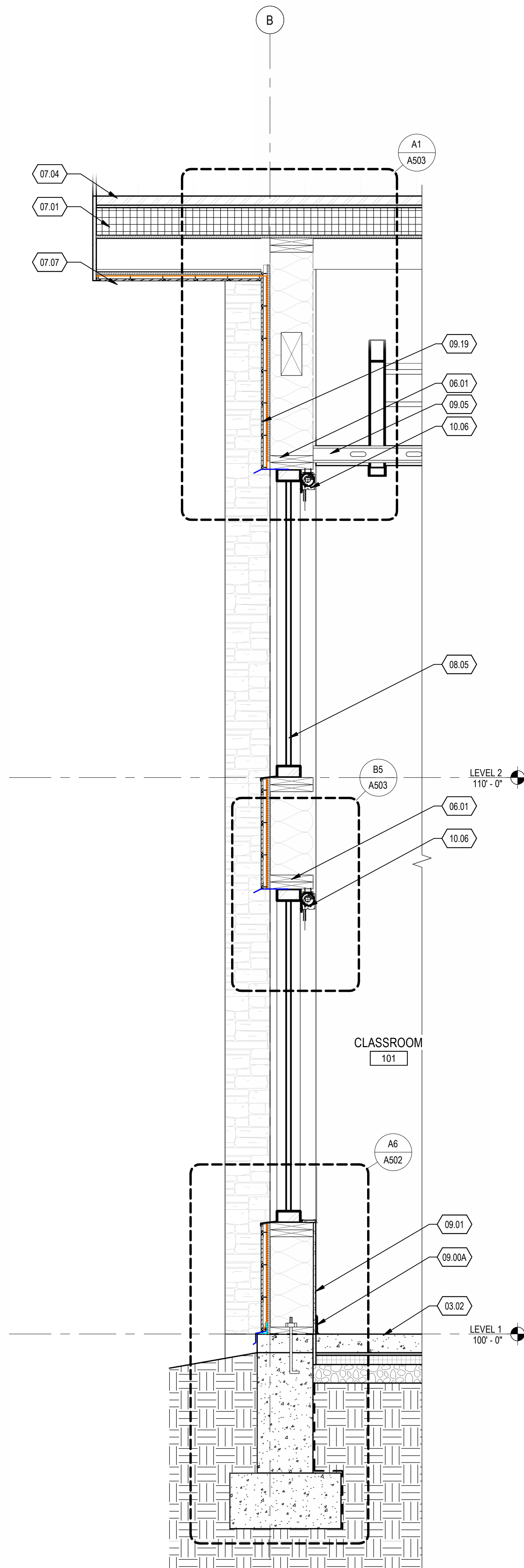
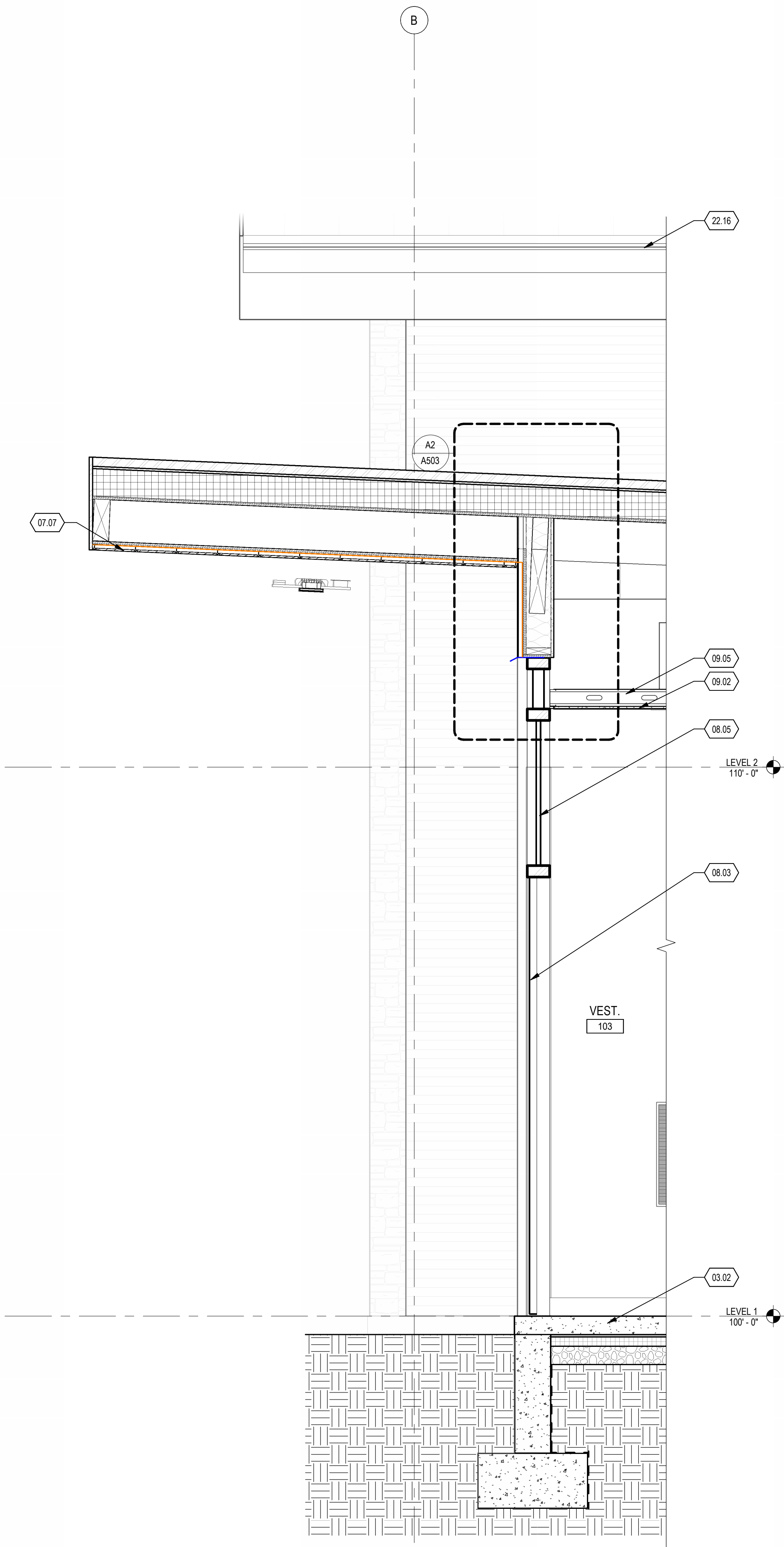
WALL SECTION @VEST. 103
SCALE: 3/4" = 1'-0"

A3

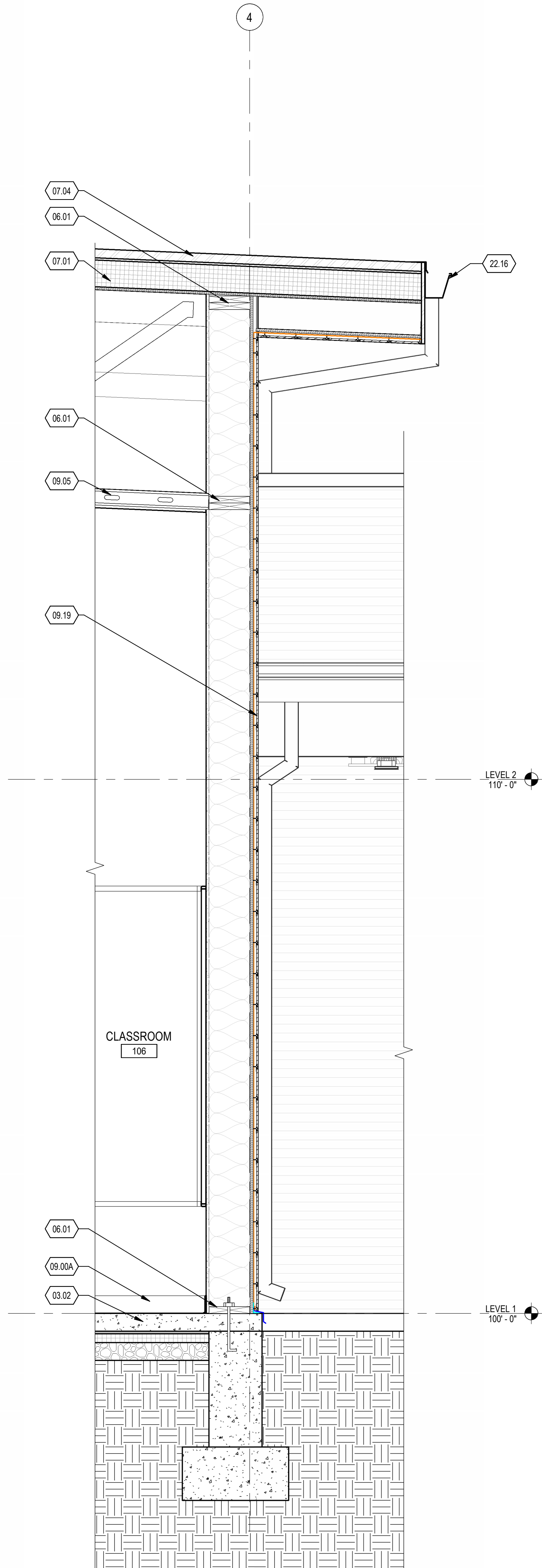
WALL SECTION @CLASSROOM 101
SCALE: 3/4" = 1'-0"

A5

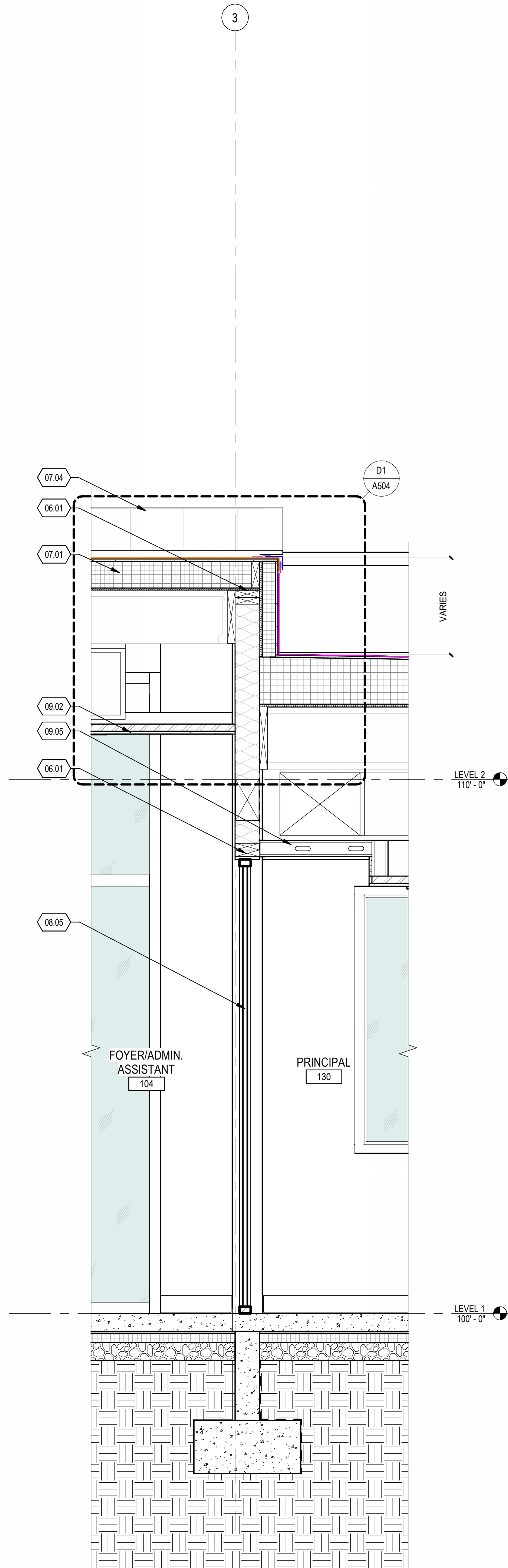
WALL SECTION @FOYER/ADMIN. ASSISTANT 104 / CLASSROOM 106
SCALE: 3/4" = 1'-0"



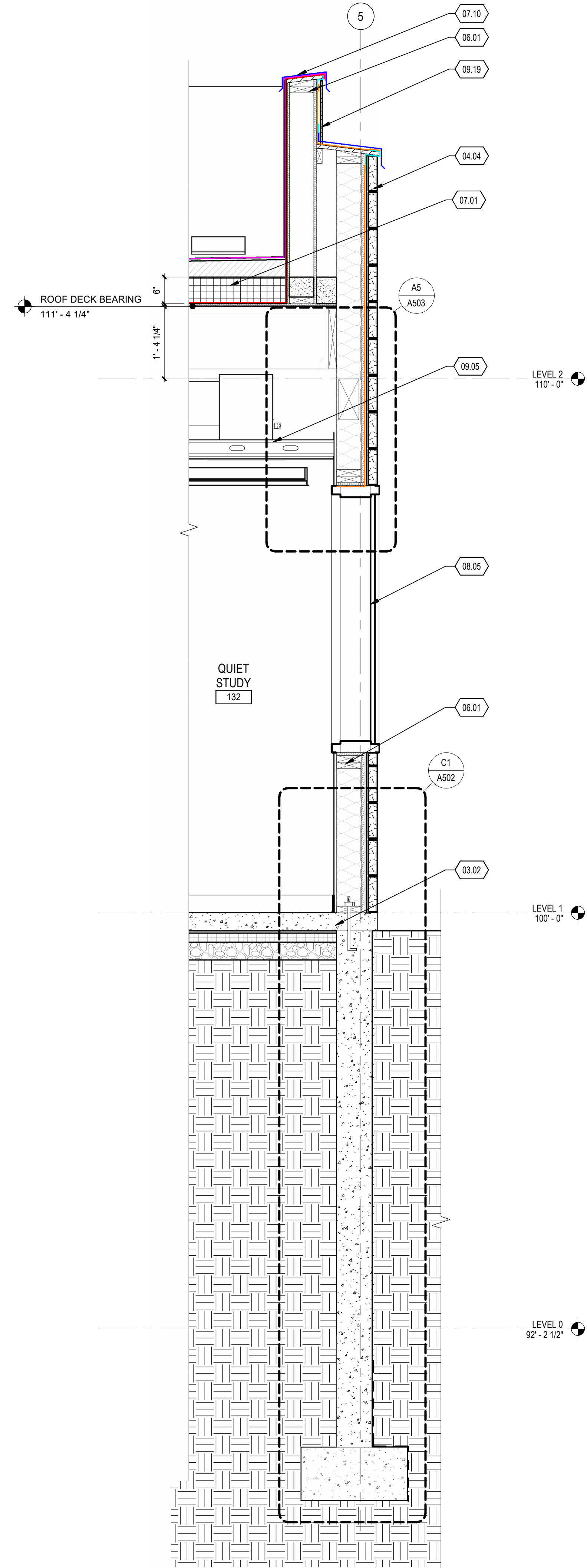
5/09/2024 9:22:16 a.m. A B C D E F' 0" 1" 2" 3" 4" 5" 6"



A1 WALL SECTION @CLASSROOM 106
SCALE: 3/4" = 1'-0"



A3 WALL SECTION @FOYER/ADMIN. ASSISTANT 104 / PRINCIPAL 130
SCALE: 3/4" = 1'-0"



A5 WALL SECTION @QUIET STUDY 132
SCALE: 3/4" = 1'-0"

REFERENCE NOTES

- 03.02 CONCRETE FLOOR
- 04.04 STONE ANCHOR BY STONE INSTALLER
- 06.01 2 X WOOD FRAMING
- 07.01 RIGID ROOF INSULATION
- 07.04 STANDING SEAM METAL ROOF
- 07.10 PREFINISHED METAL PARAPET CAP
- 08.05 WINDOW, SEE WINDOW SCHEDULE
- 09.00A SCHEDULED WALL BASE
- 09.02 SCHEDULED CEILING, SEE REFLECTED CEILING PLANS
- 09.05 3 5/8" METAL STUD
- 09.19 TRESPA PURA, SEE SPECS
- 22.16 GALVANIZED HALF GUTTER, SEE ROOF PLAN FOR DOWNSPOUT LOCATION

5/09/2024 9:22:18 a.m.

A B C D E

0' 1' 2'

1

2

3

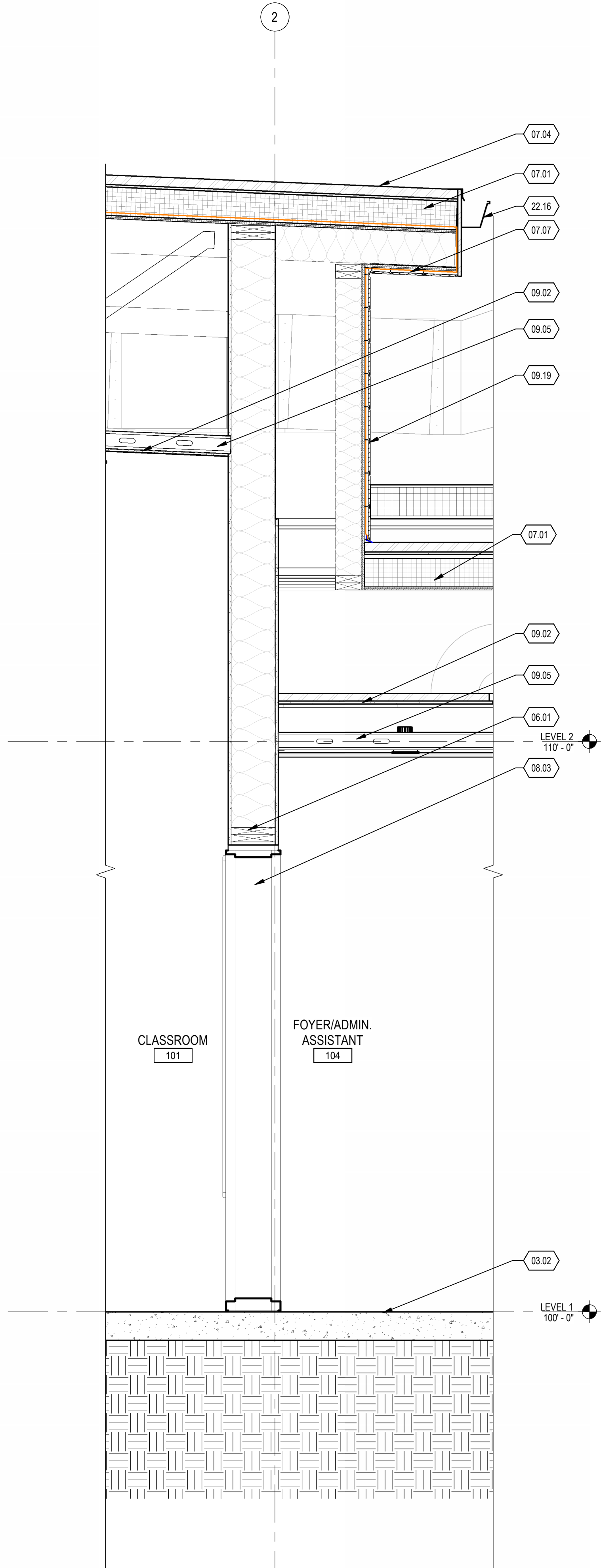
4

5

6

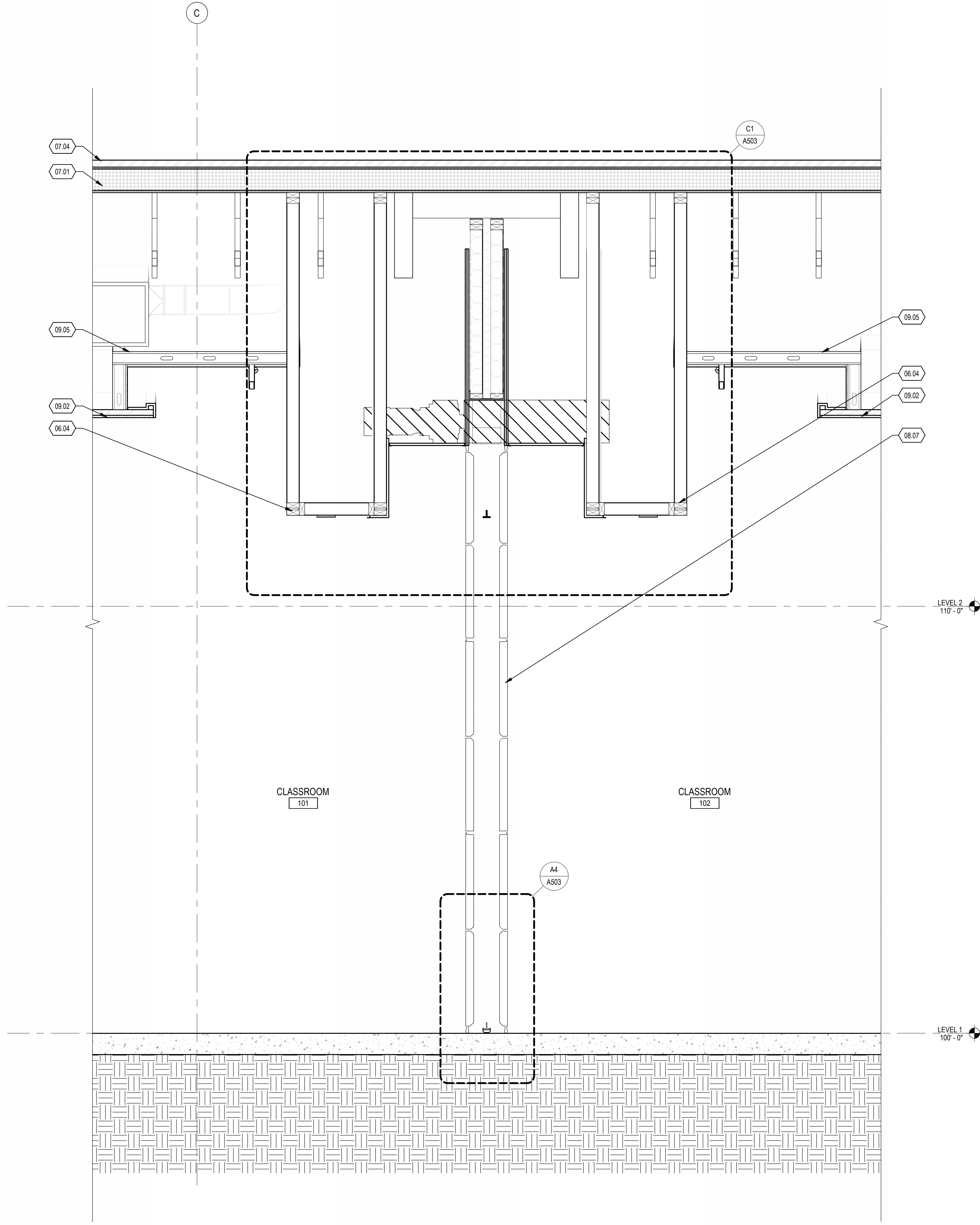
A2

WALL SECTION FOYER/ADMIN. ASSISTANT / CLASSROOM 101
SCALE: 3/4" = 1'-0"



A4

WALL SECTION @CLASSROOM 101 / CLASSROOM 102
SCALE: 3/4" = 1'-0"



REFERENCE NOTES

- 03.02 CONCRETE FLOOR
- 06.01 2 X WOOD FRAMING
- 06.04 WOOD BLOCKING
- 07.01 RIGID ROOF INSULATION
- 07.04 STANDING SEAM METAL ROOF
- 07.07 TRESPA SOFFIT
- 08.03 SCHEDULED DOOR
- 08.07 SKYFOLD FOLDING WALL SYSTEM WITH FULL WRITABLE SURFACE
- 09.02 SCHEDULED CEILING, SEE REFLECTED CEILING PLANS
- 09.05 3 5/8" METAL STUD
- 09.19 TRESPA PURA, SEE SPECS
- 22.16 GALVANIZED HALF GUTTER; SEE ROOF PLAN FOR DOWNSPOUT LOCATION

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.24



DATE REVISION

PROJECT NUMBER 24003

WALL SECTIONS

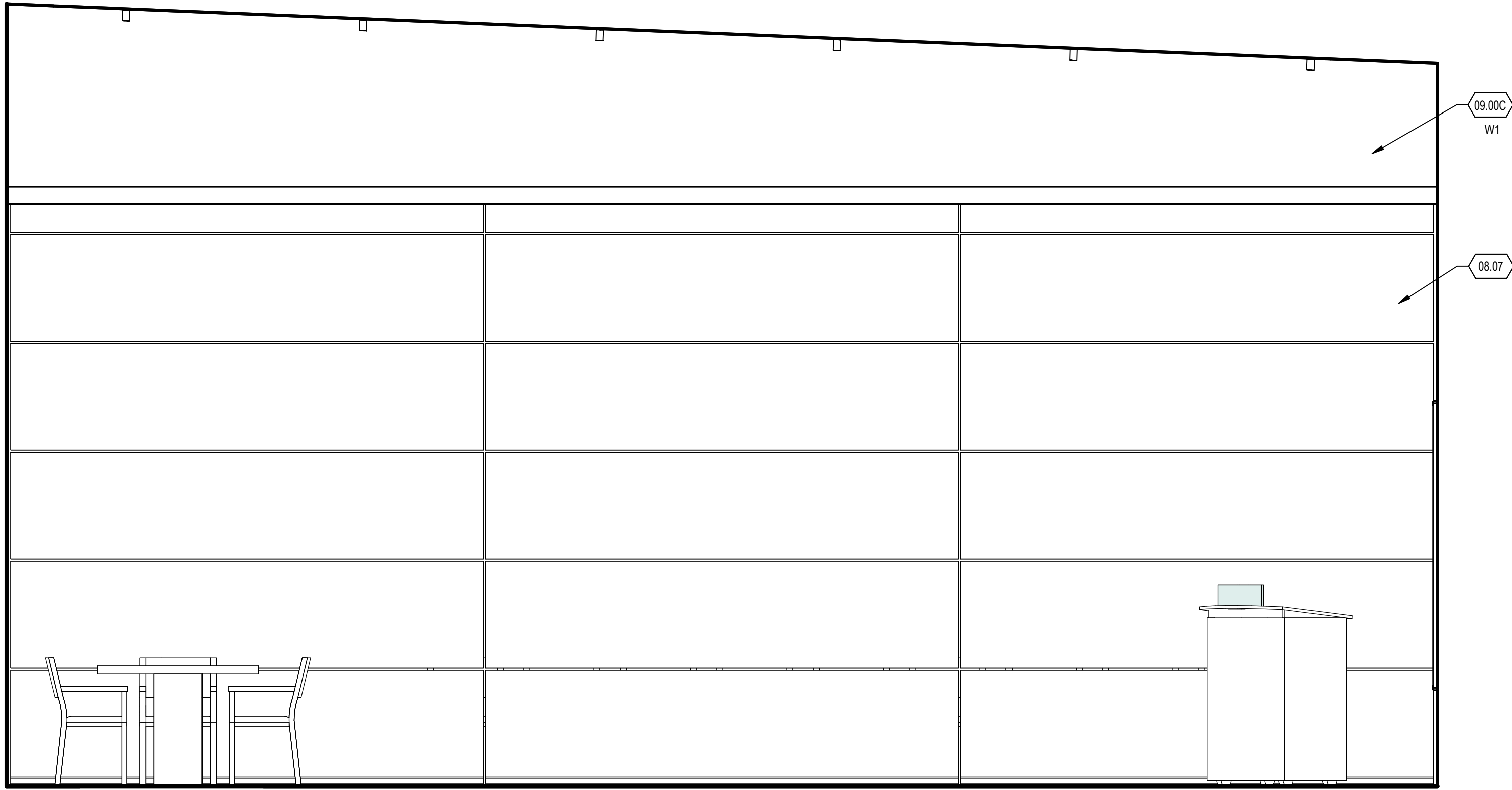
A313

FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 • FFKR.COM

5/09/2024 9:22:20 a.m.

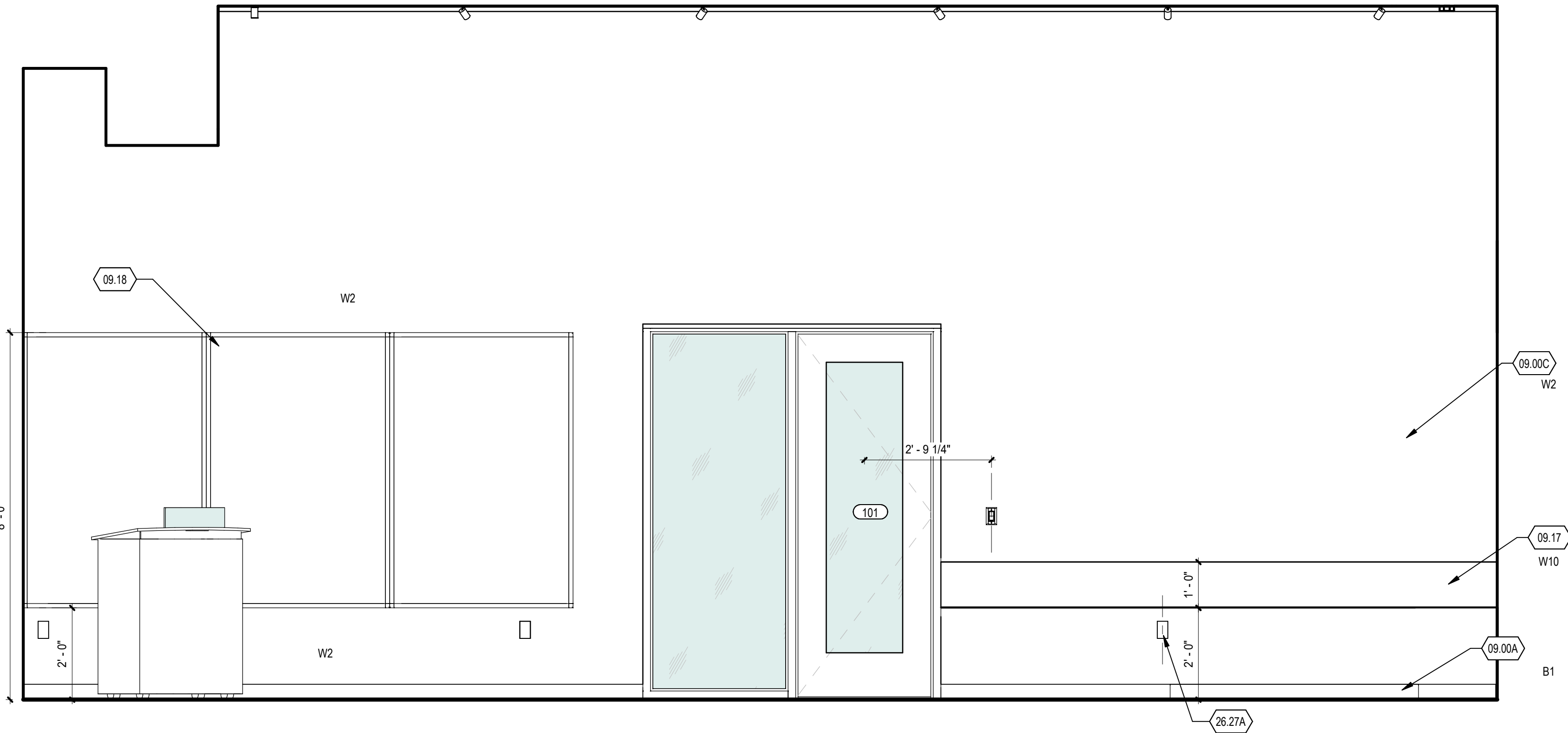
A B C D E

1 2 3 4 5 6



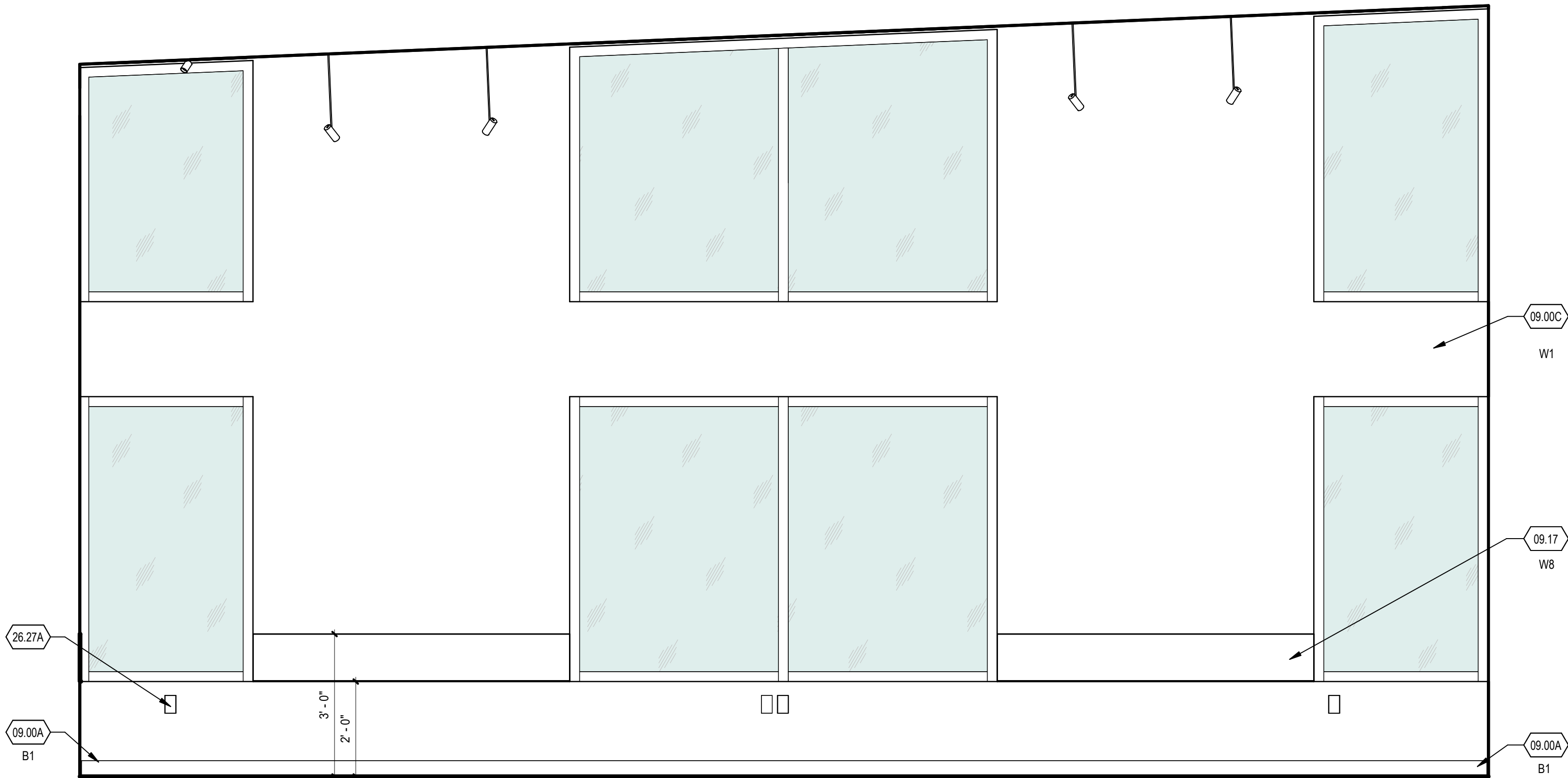
C1 CLASSROOM 101 - EAST ELEVATION

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



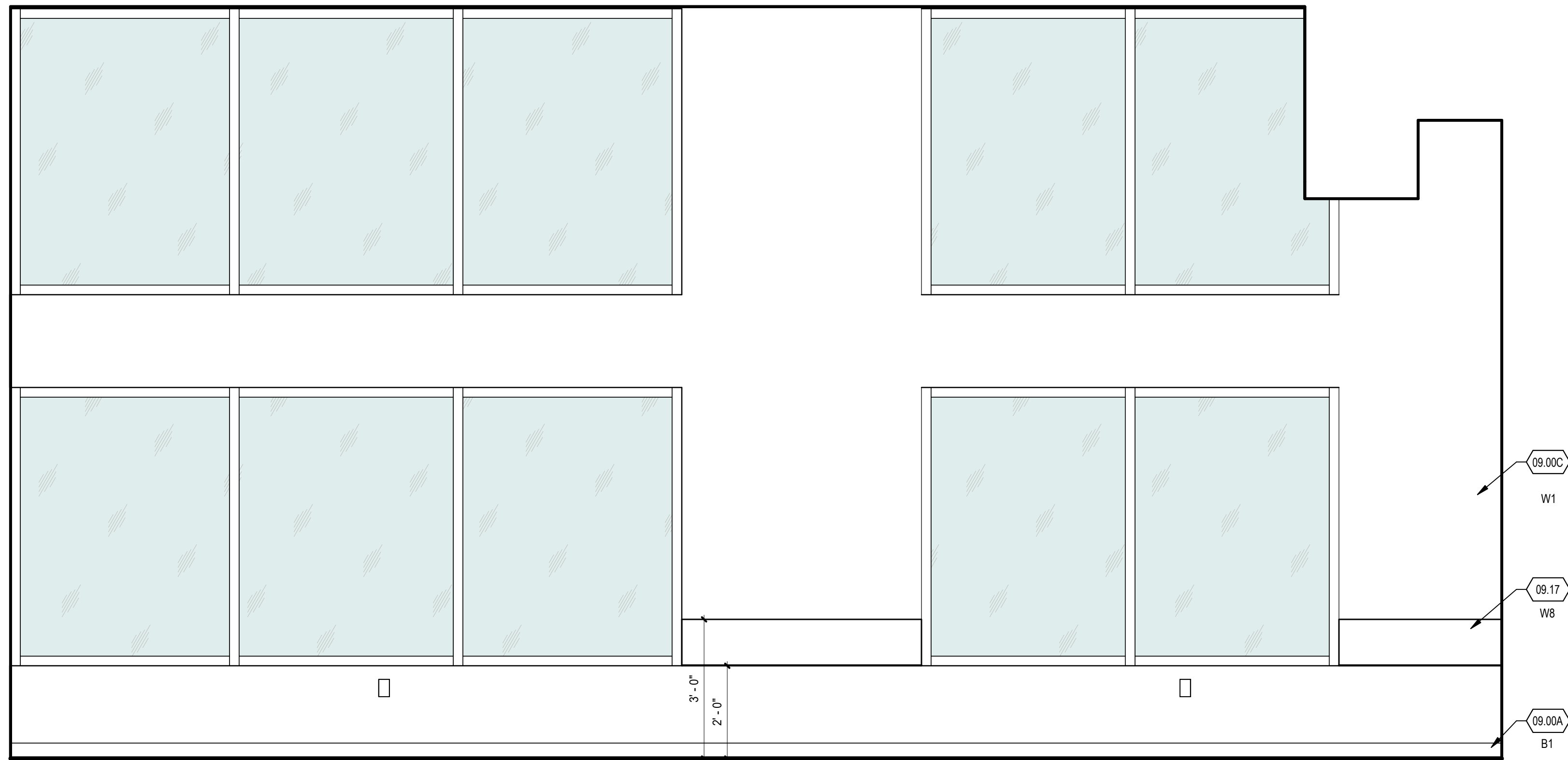
C4 CLASSROOM 101 - SOUTH ELEVATION

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



A1 CLASSROOM 101 - WEST ELEVATION

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



A4 CLASSROOM 101 - NORTH ELEVATION

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

REFERENCE NOTES

- 08.07 SKYFOLD FOLDING WALL SYSTEM WITH FULL WRITABLE SURFACE
- 09.00A SCHEDULED WALL BASE
- 09.00C PAINTED GYP BOARD
- 09.17 WALL PROTECTION
- 09.18 WHITEBOARDS
- 26.27A DUPLEX ELECTRICAL OUTLET

5/09/2024 9:22:21 a.m. A B C D E F

1

2

3

4

5

6

REFERENCE NOTES

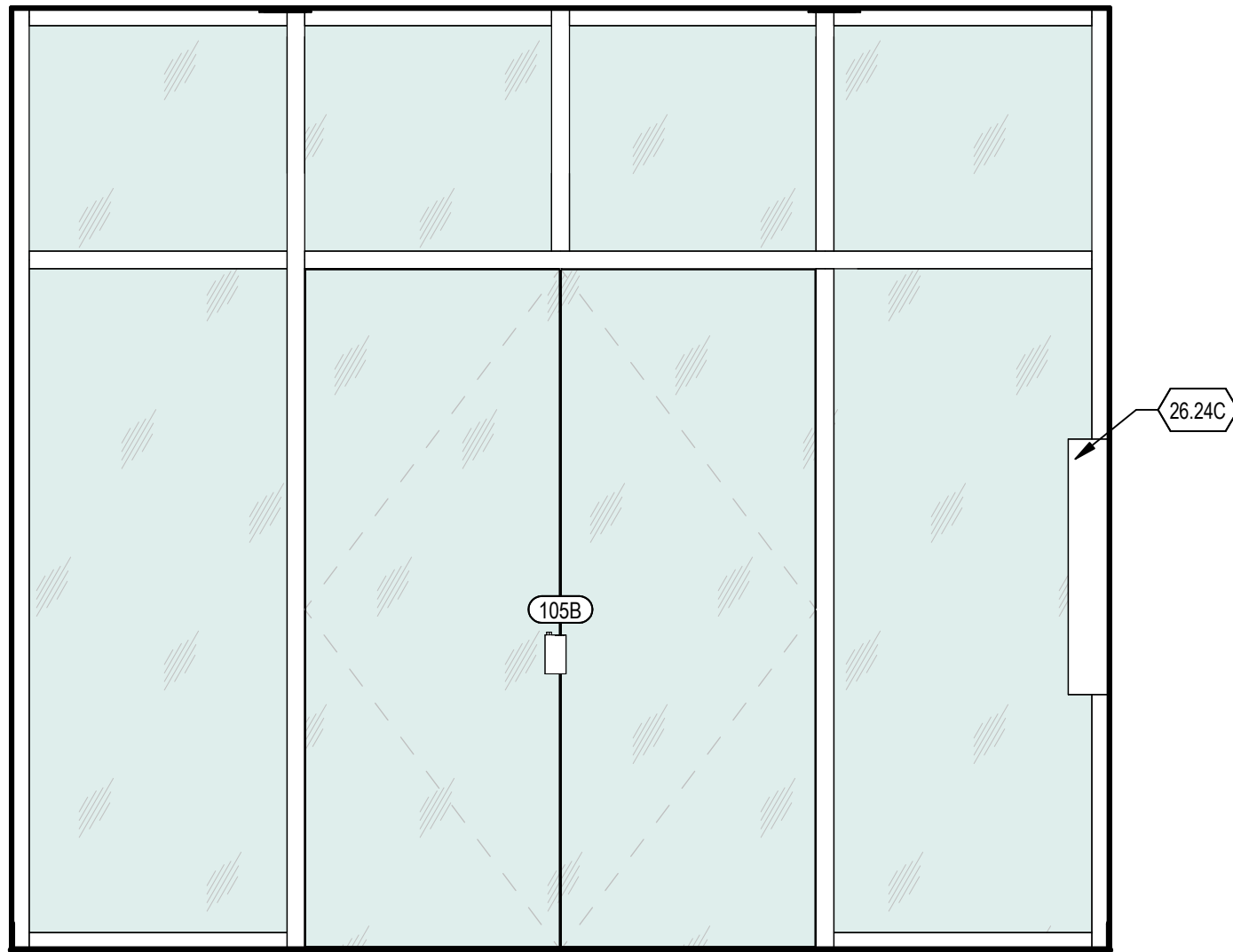
09.00A SCHEDULED WALL BASE
09.00C PAINTED GYP BOARD
26.24C ELECTRICAL PANEL RE: ELECTRICAL



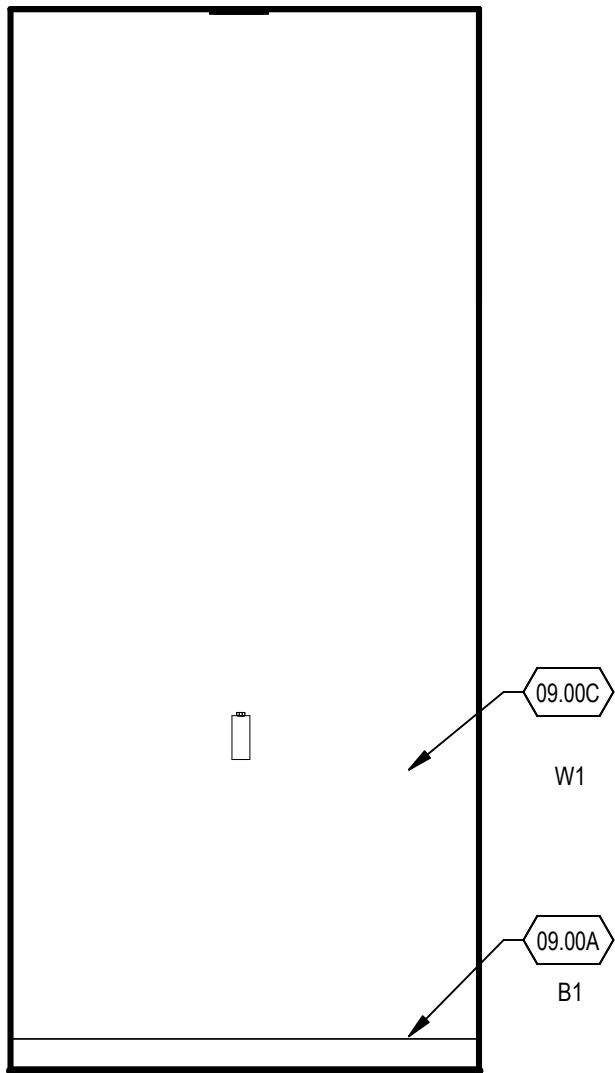
△ DATE REVISION

PROJECT NUMBER 24003

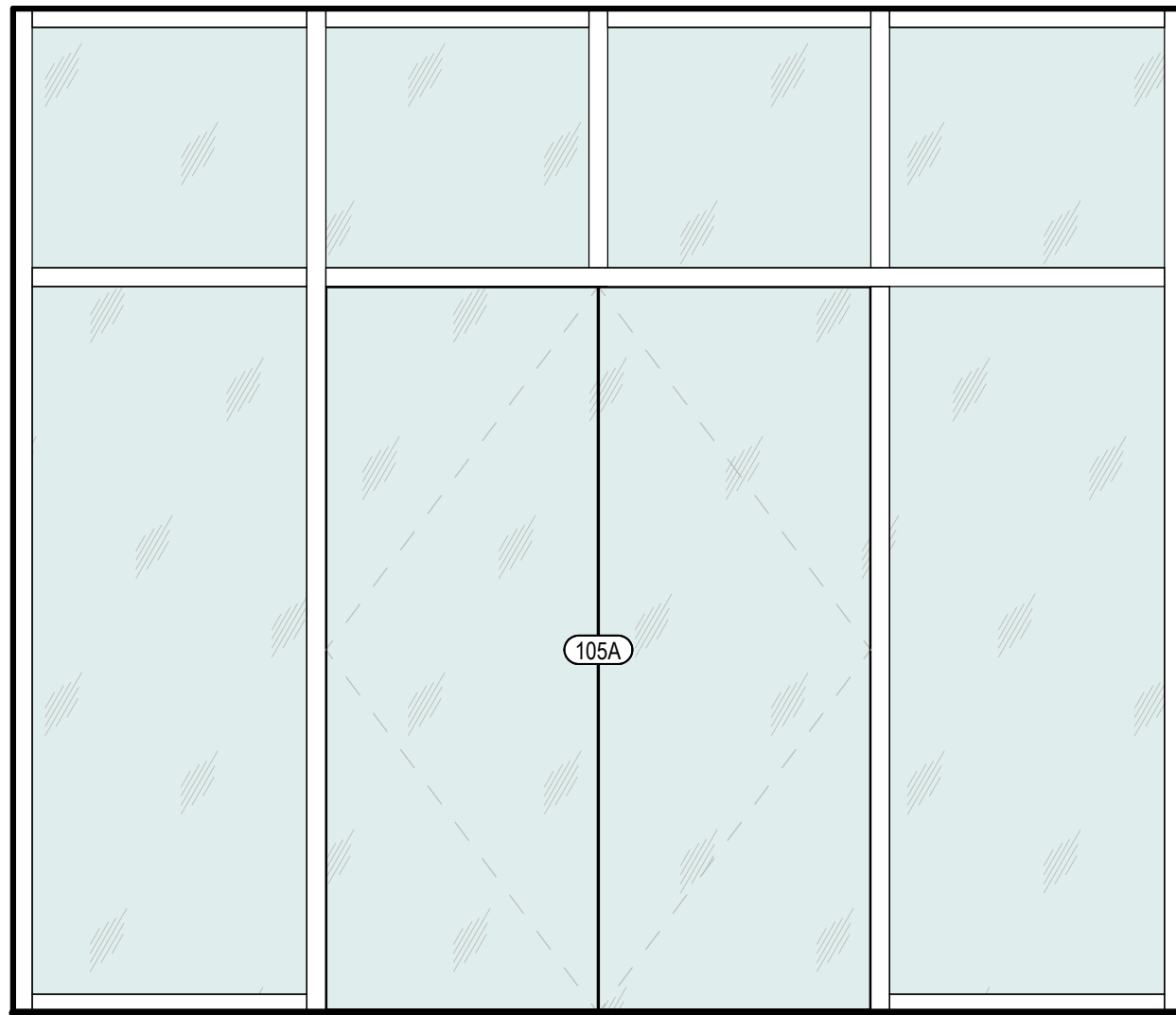
VEST. 103
& 105 - INT
ELEV.



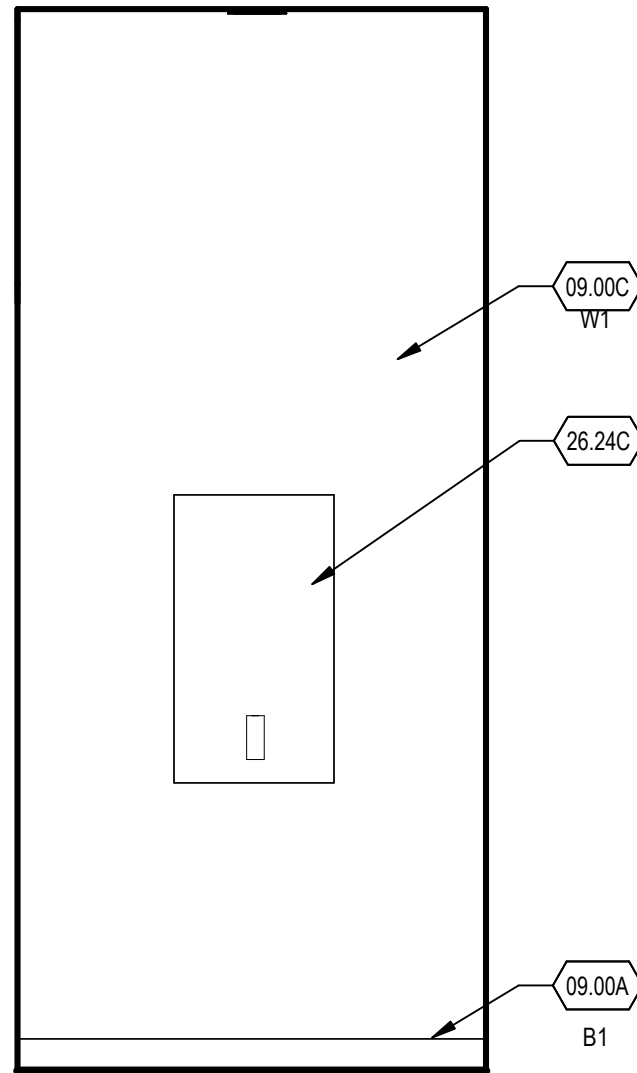
B1 VEST 105 - WEST ELEVATION
SCALE: 1/2" = 1'-0"



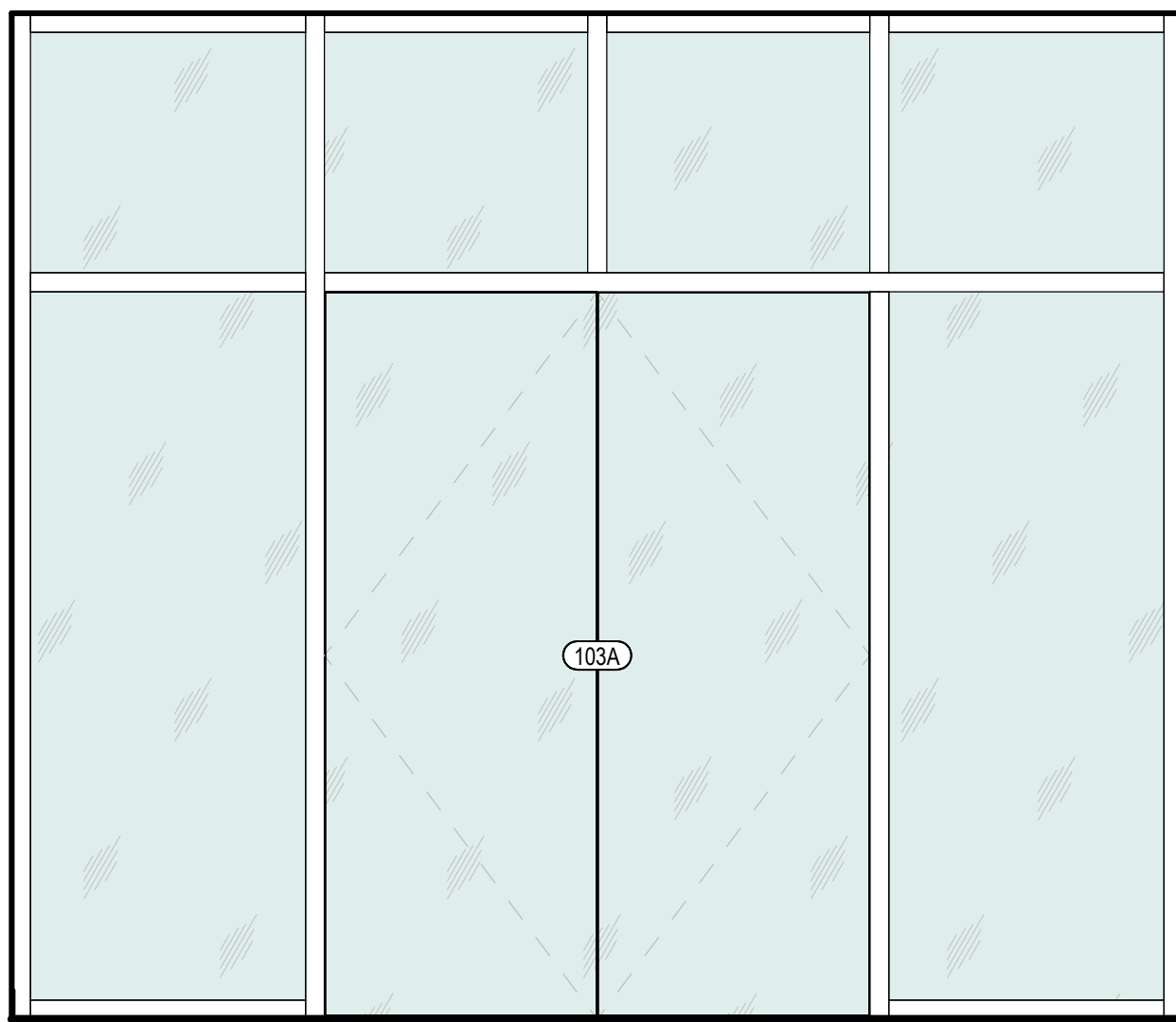
B2 VEST. 105 - NORTH ELEVATION
SCALE: 1/2" = 1'-0"



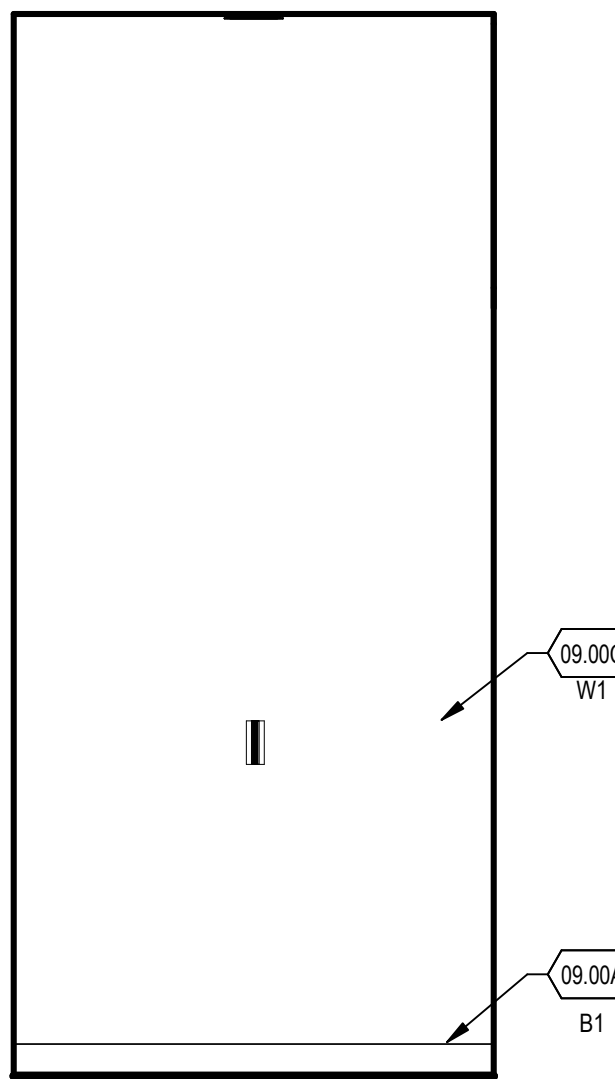
B4 VEST. 105 - EAST ELEVATION
SCALE: 1/2" = 1'-0"



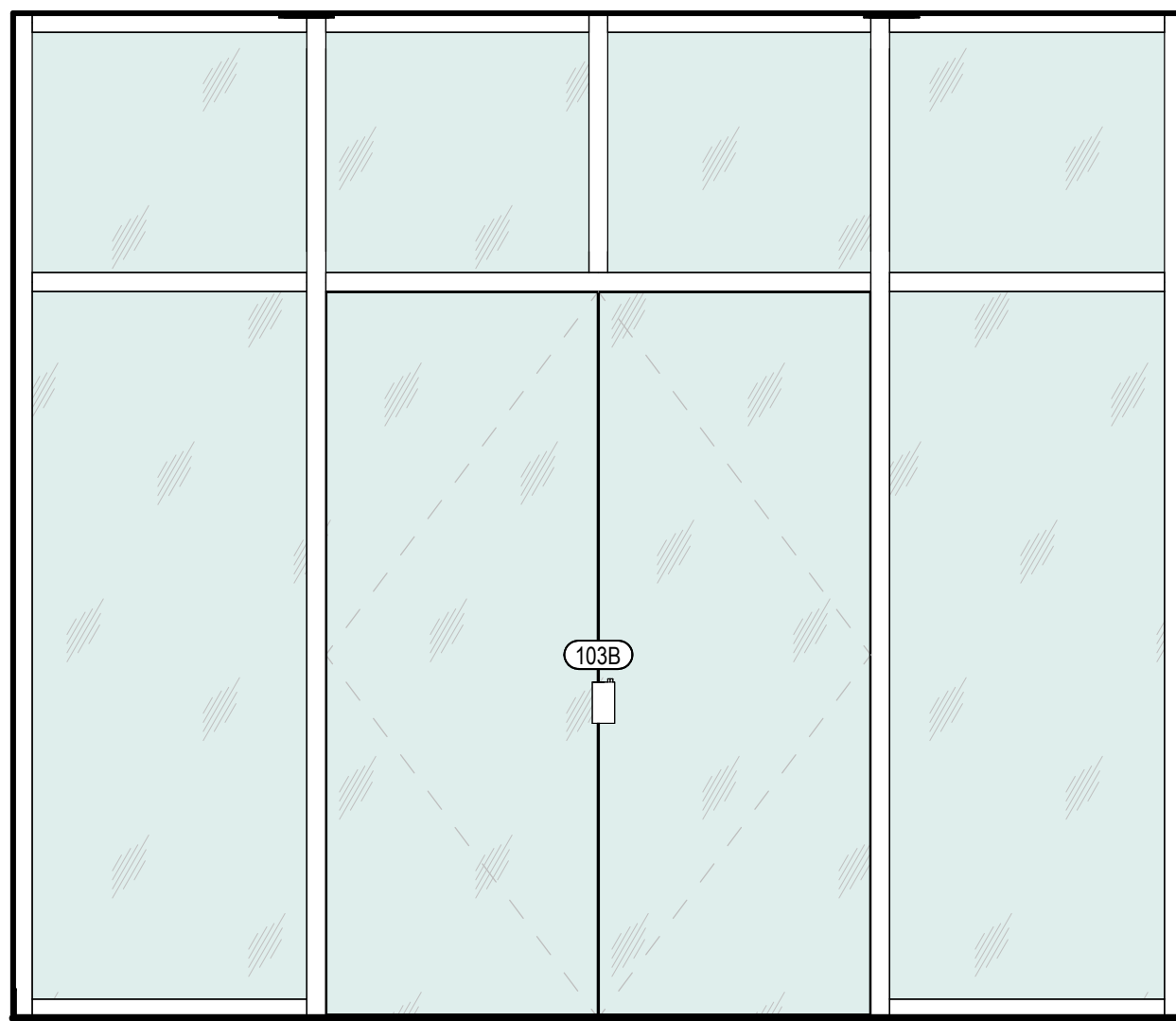
B5 VEST. 105 - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



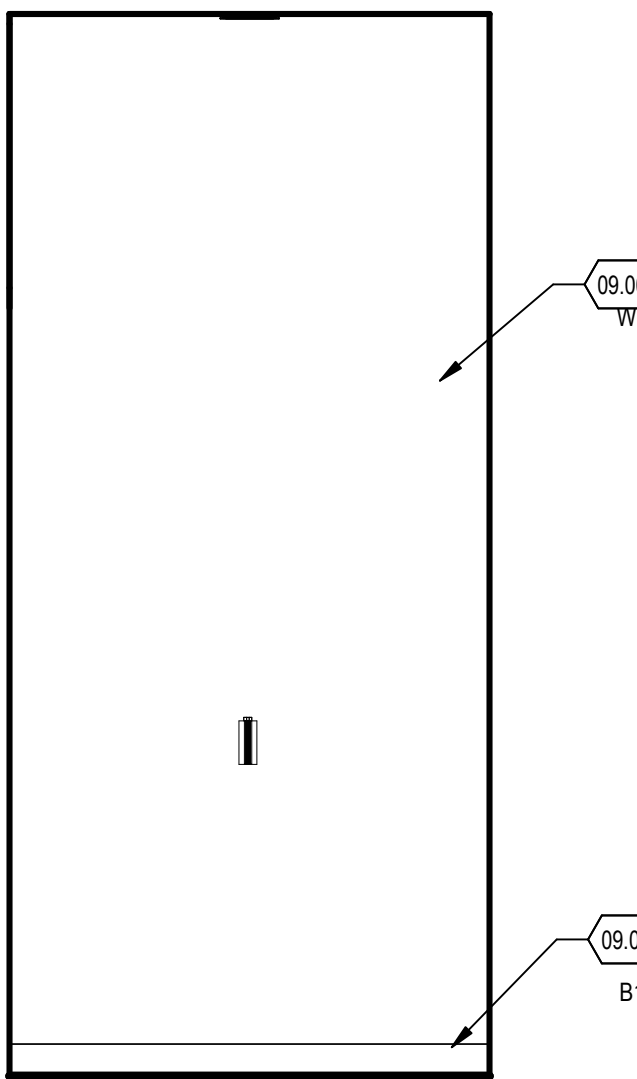
A1 VEST 103 - WEST ELEVATION
SCALE: 1/2" = 1'-0"



A2 VEST 103 - NORTH ELEVATION
SCALE: 1/2" = 1'-0"



A4 VEST 103 - EAST ELEVATION
SCALE: 1/2" = 1'-0"



A5 VEST 103 - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"

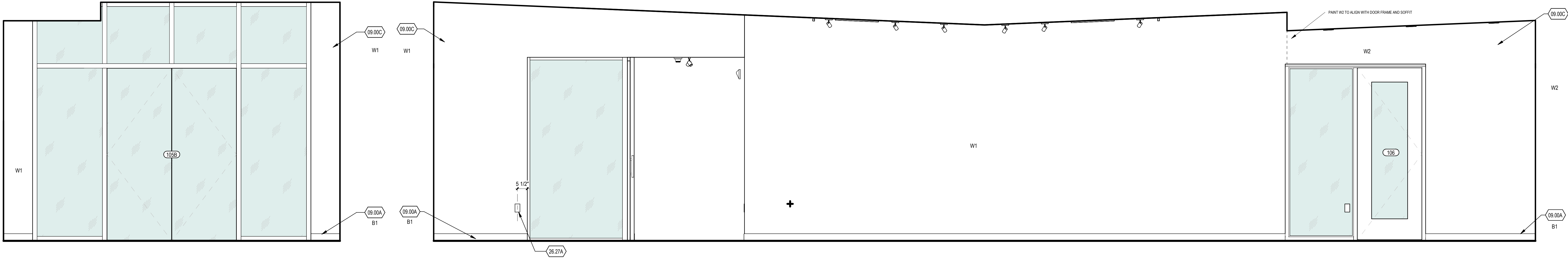
5/09/2024 9:22:22 a.m.

A B C D E



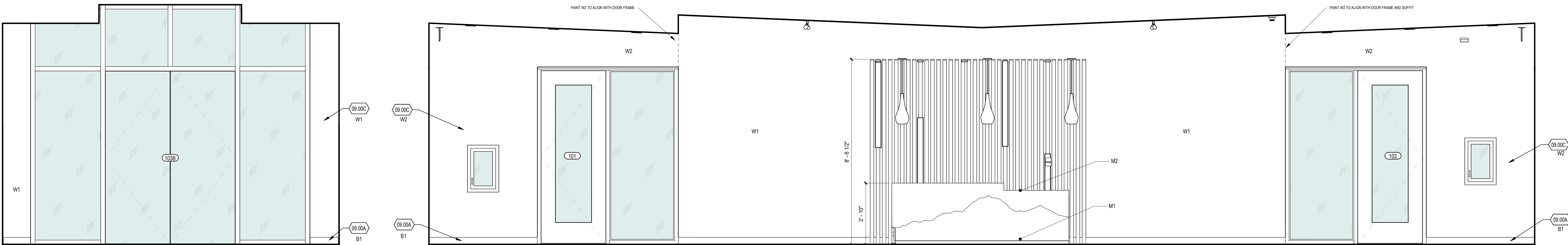
REFERENCE NOTES

09.00A SCHEDULED WALL BASE
09.00C PAINTED GYP BOARD
26.27A DUPLEX ELECTRICAL OUTLET



C1 FOYER/ADMIN. ASSISTANT - EAST ELEVATION
SCALE: 1/2" = 1'-0"

C2 FOYER/ADMIN. ASSISTANT - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"

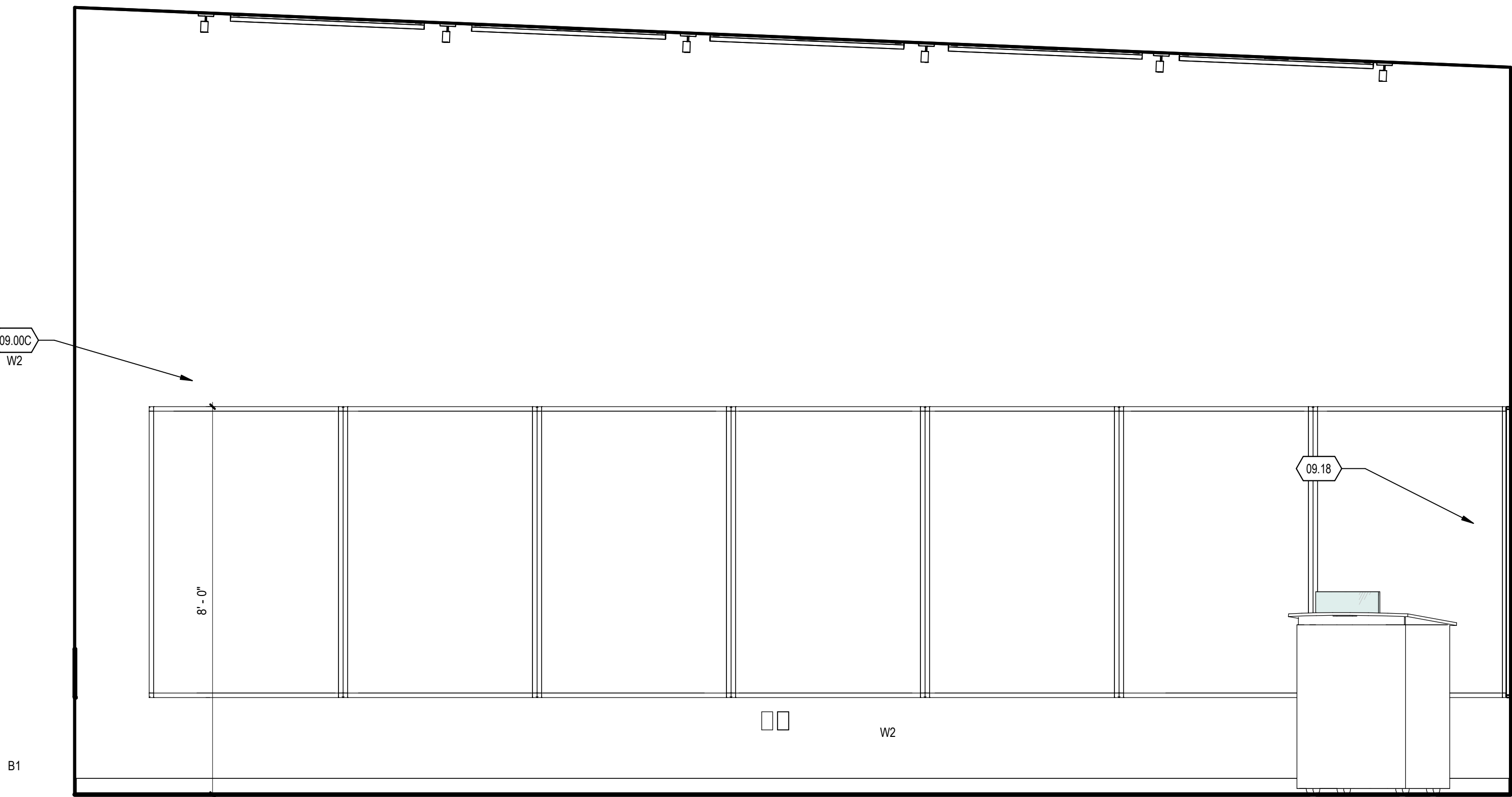


A1 FOYER/ADMIN. ASSISTANT - WEST ELEVATION
SCALE: 1/2" = 1'-0"

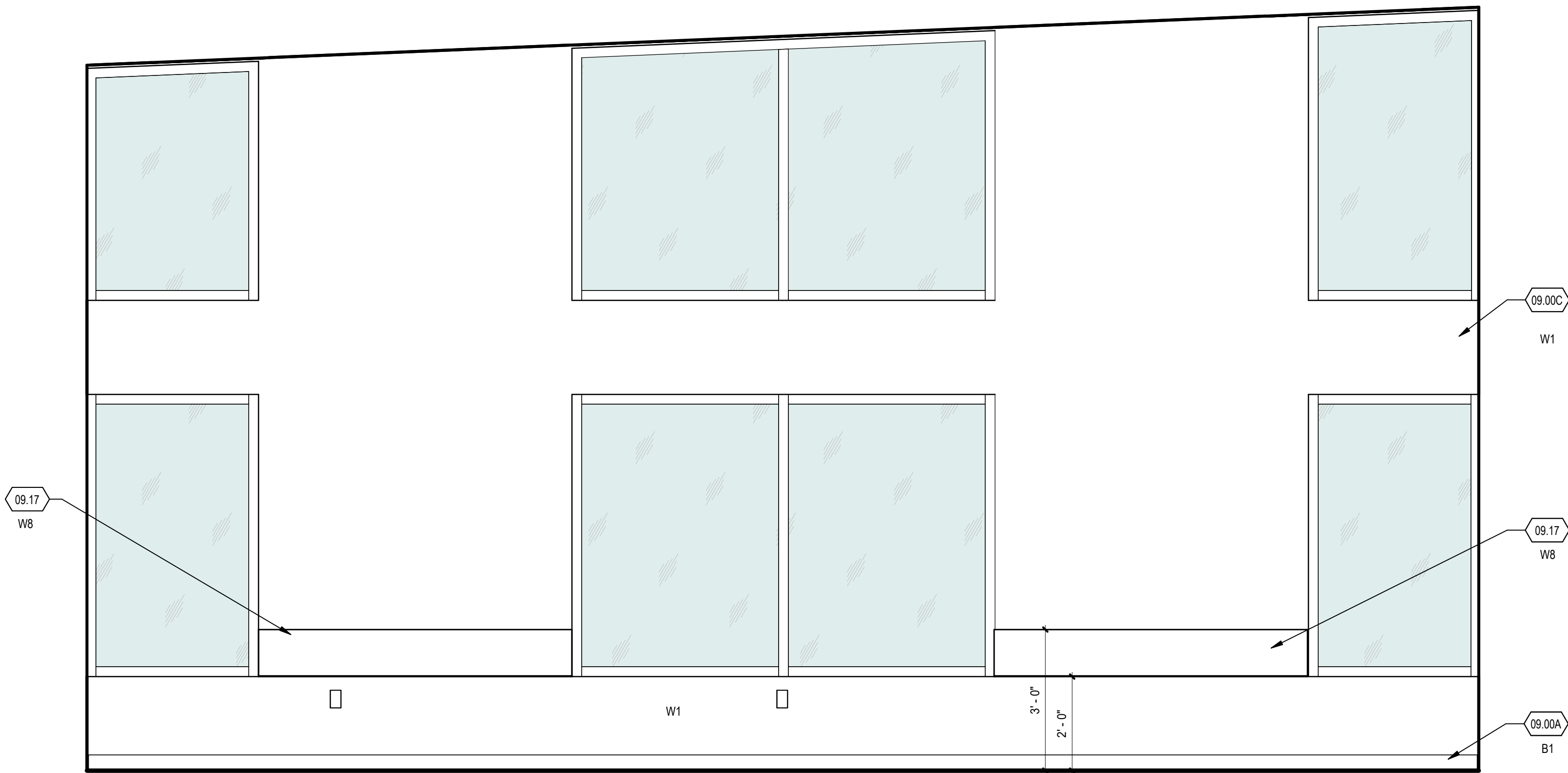
A2 FOYER/ADMIN. ASSISTANT - NORTH ELEVATION
SCALE: 1/2" = 1'-0"

5/09/2024 9:22:24 a.m.

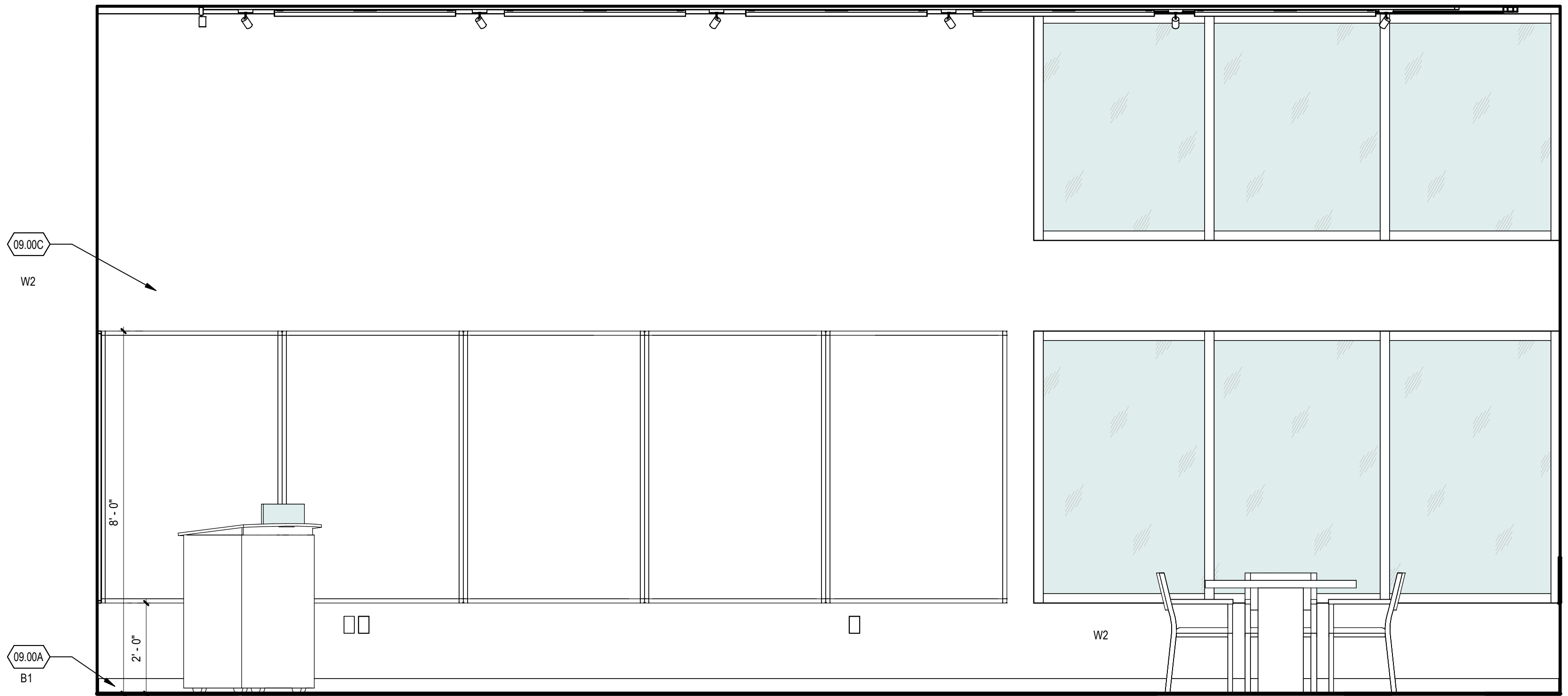
A B C D E



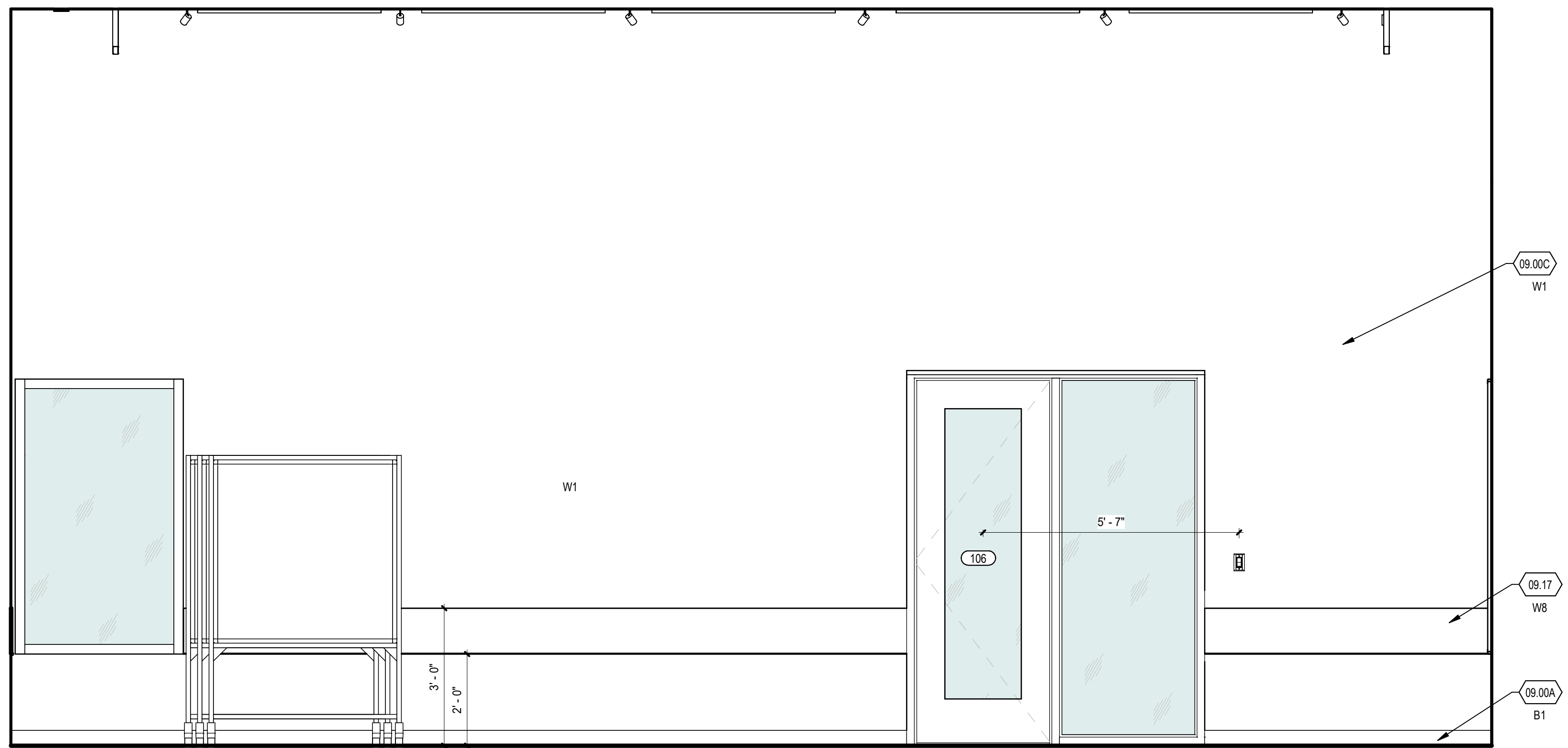
C1 CLASSROOM 106 - EAST ELEVATION
SCALE: 1/2" = 1'-0"



A1 CLASSROOM 106 - WEST ELEVATION
SCALE: 1/2" = 1'-0"



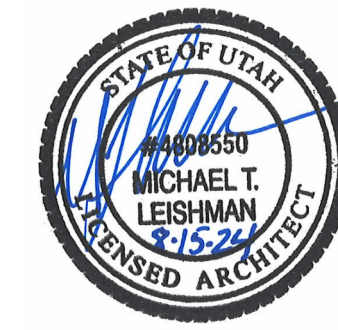
C4 CLASSROOM 106 - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



A4 CLASSROOM 106 - NORTH ELEVATION
SCALE: 1/2" = 1'-0"

REFERENCE NOTES

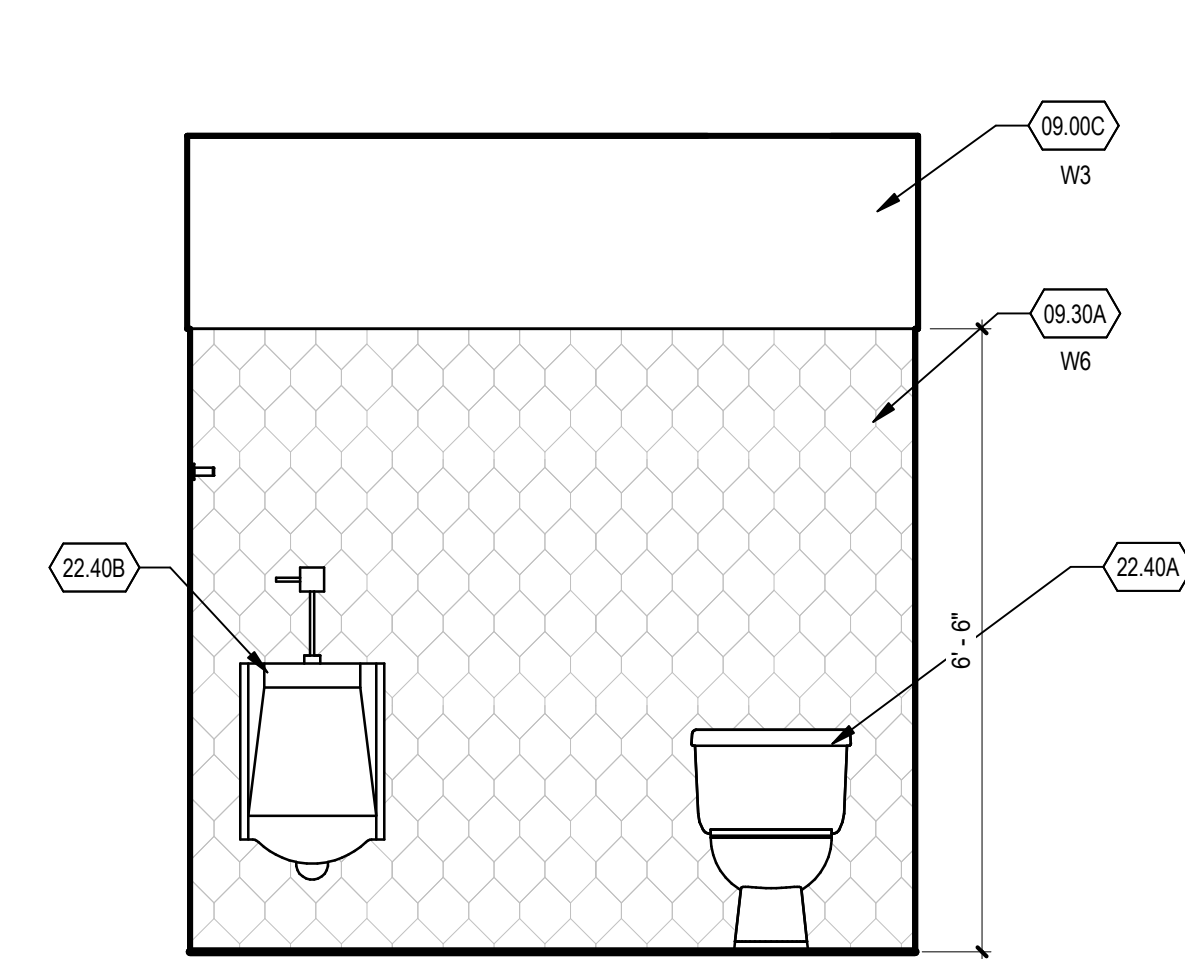
09.00A SCHEDULED WALL BASE
09.00C PAINTED GYP BOARD
09.17 WALL PROTECTION
09.18 WHITEBOARDS



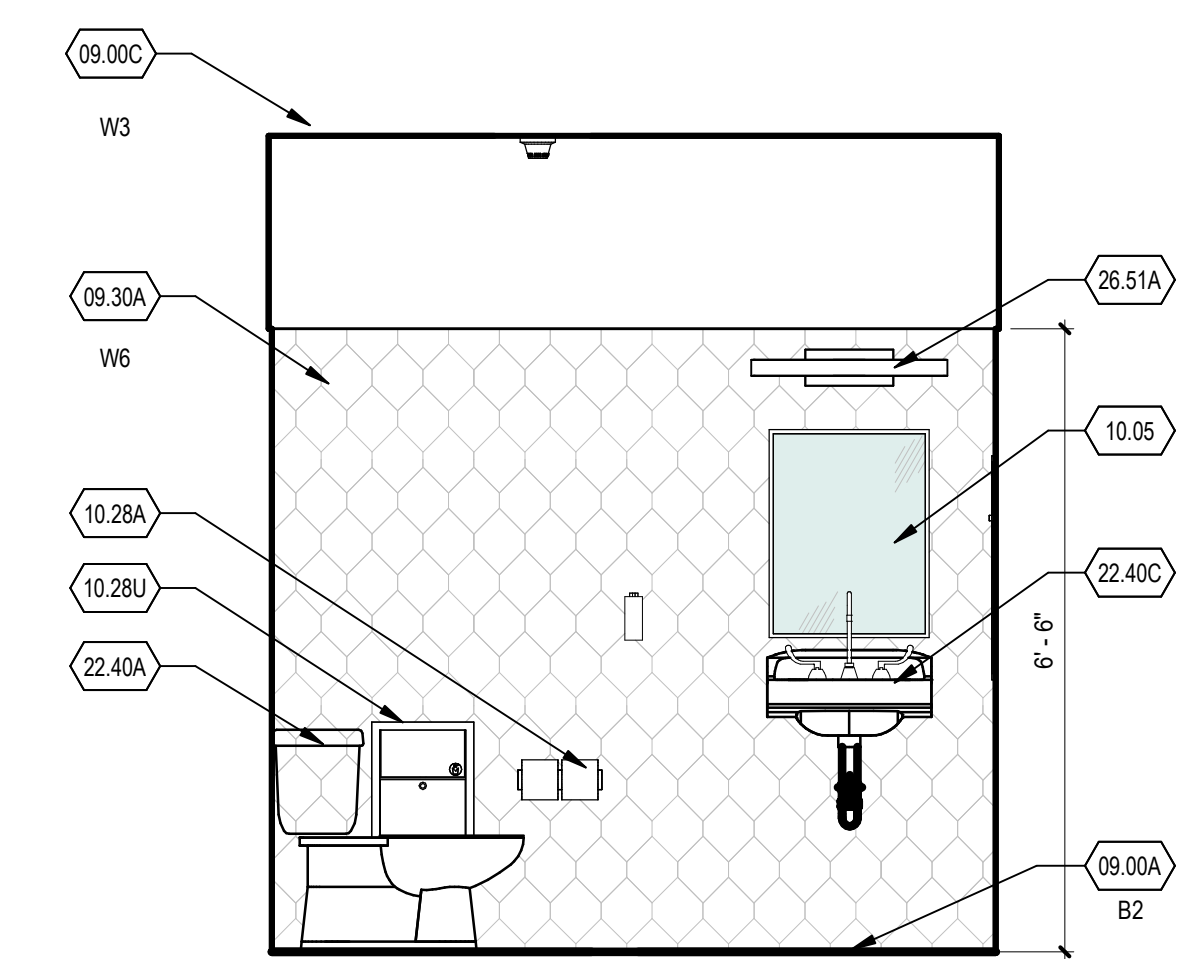
DATE REVISION

PROJECT NUMBER 24003

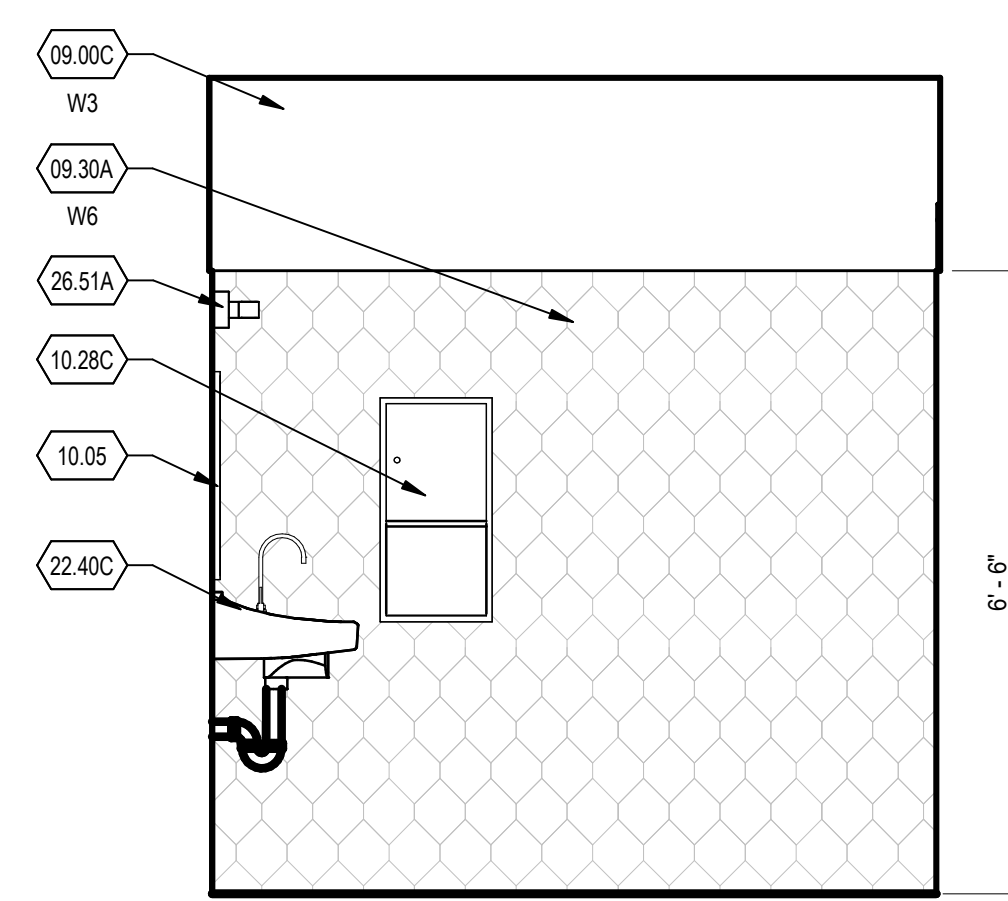
CLASSROOM
106 - INT
ELEV.



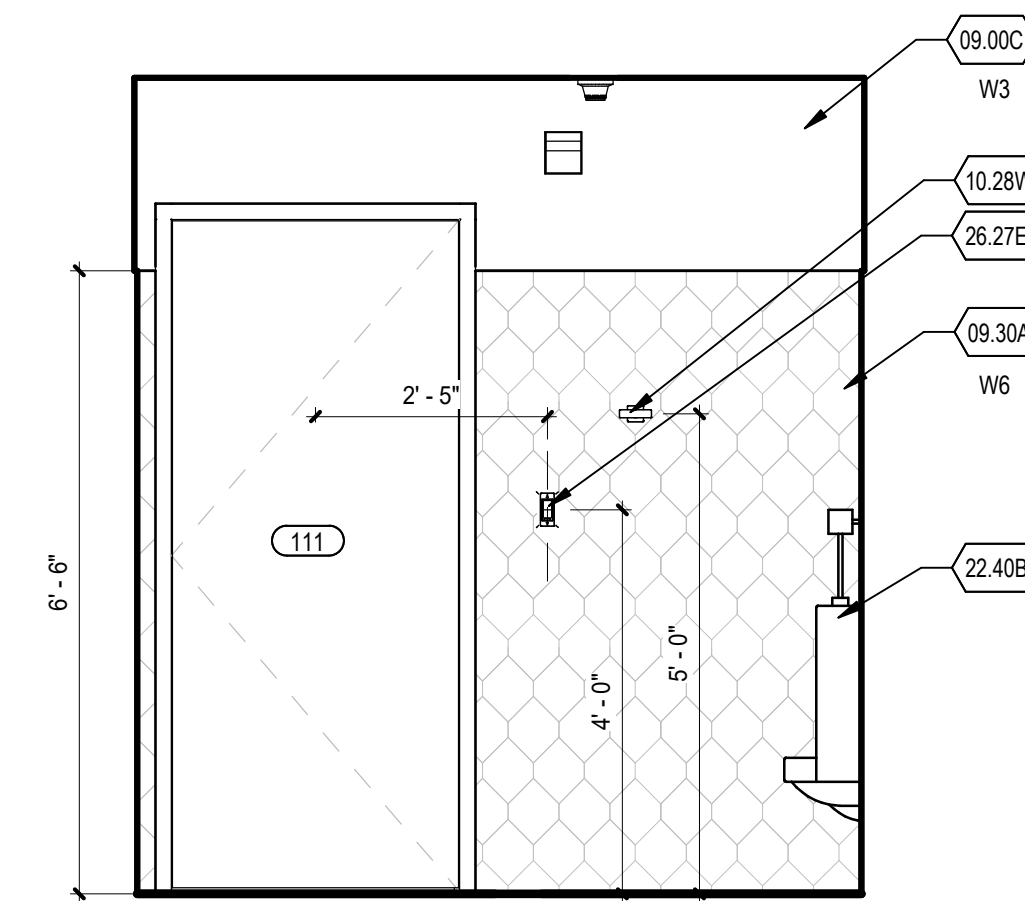
D1 RESTROOM - WEST ELEVATION
SCALE: 1/2" = 1'-0"



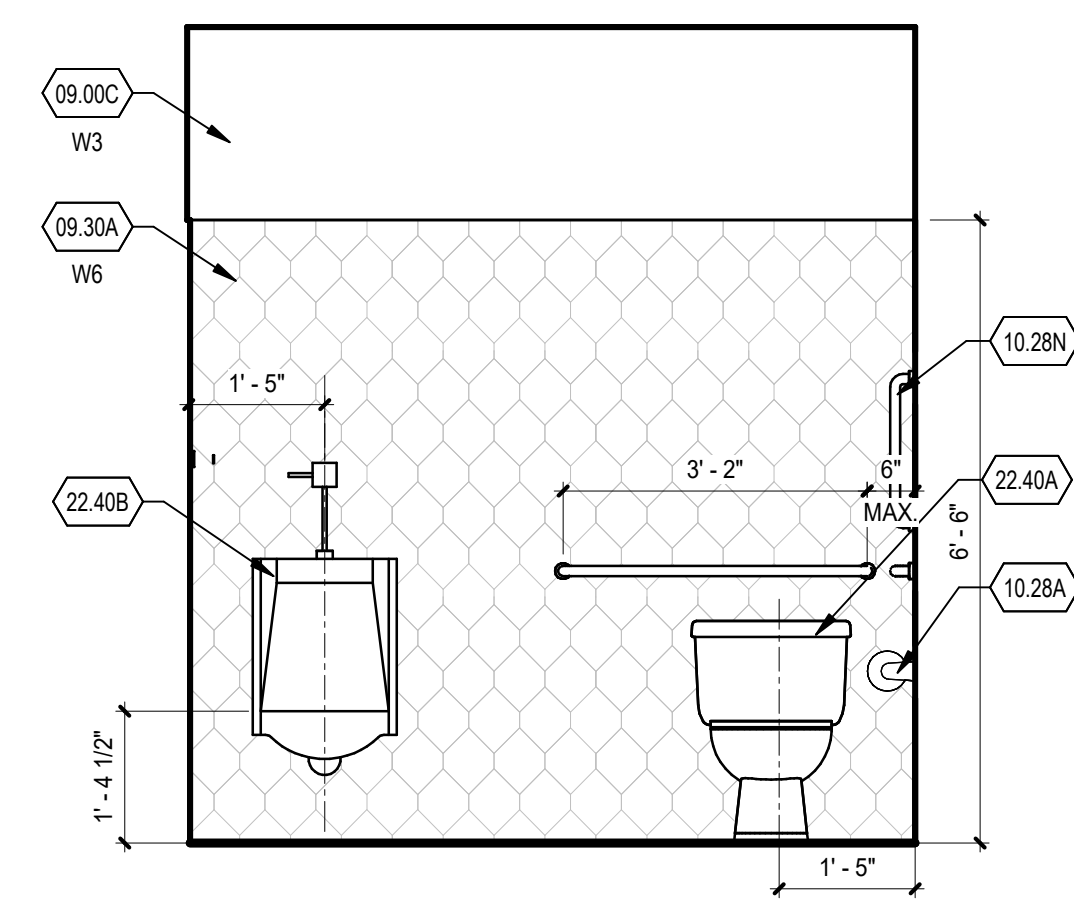
D2 RESTROOM - NORTH ELEVATION
SCALE: 1/2" = 1'-0"



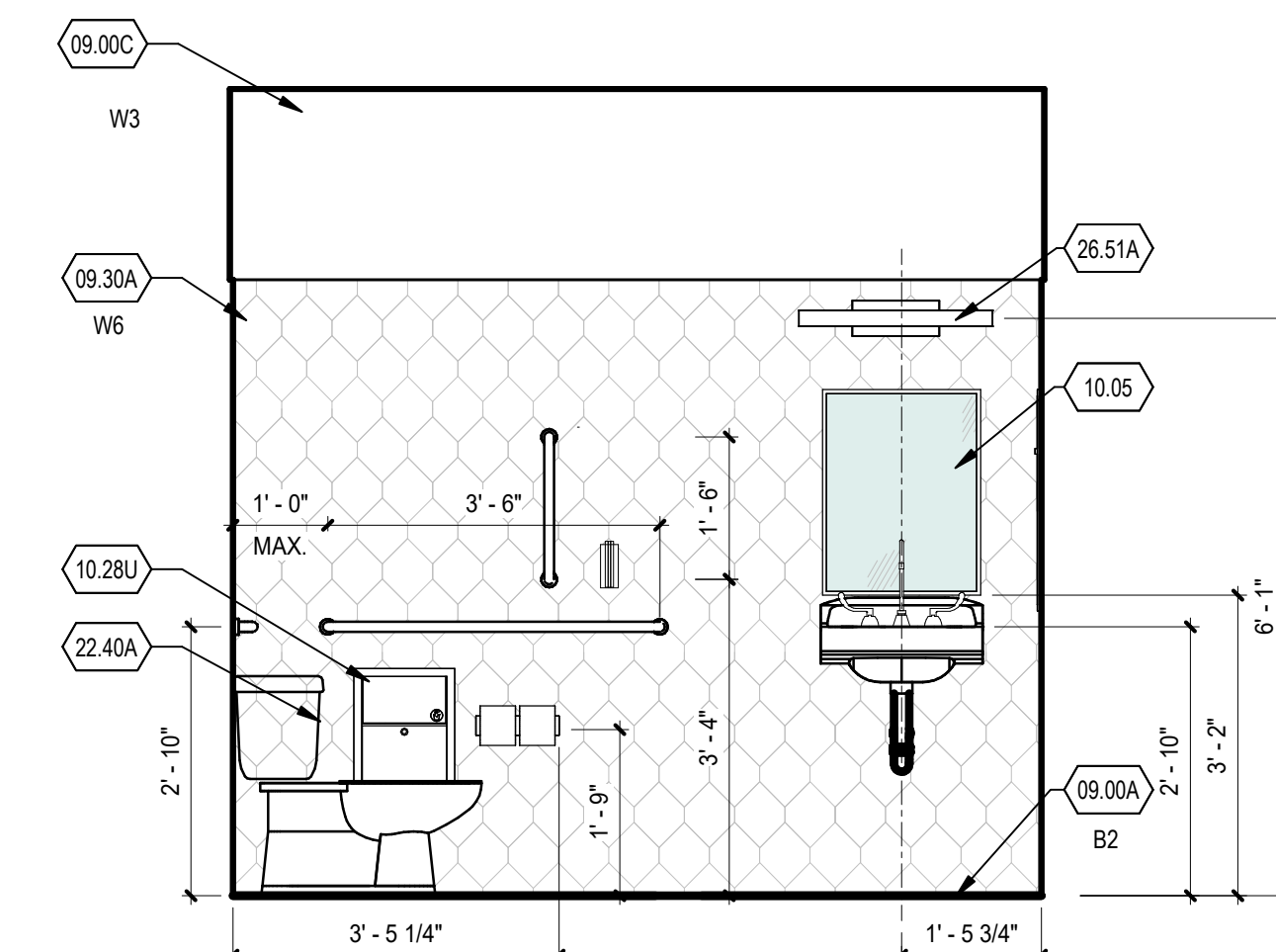
D3 RESTROOM - EAST ELEVATION
SCALE: 1/2" = 1'-0"



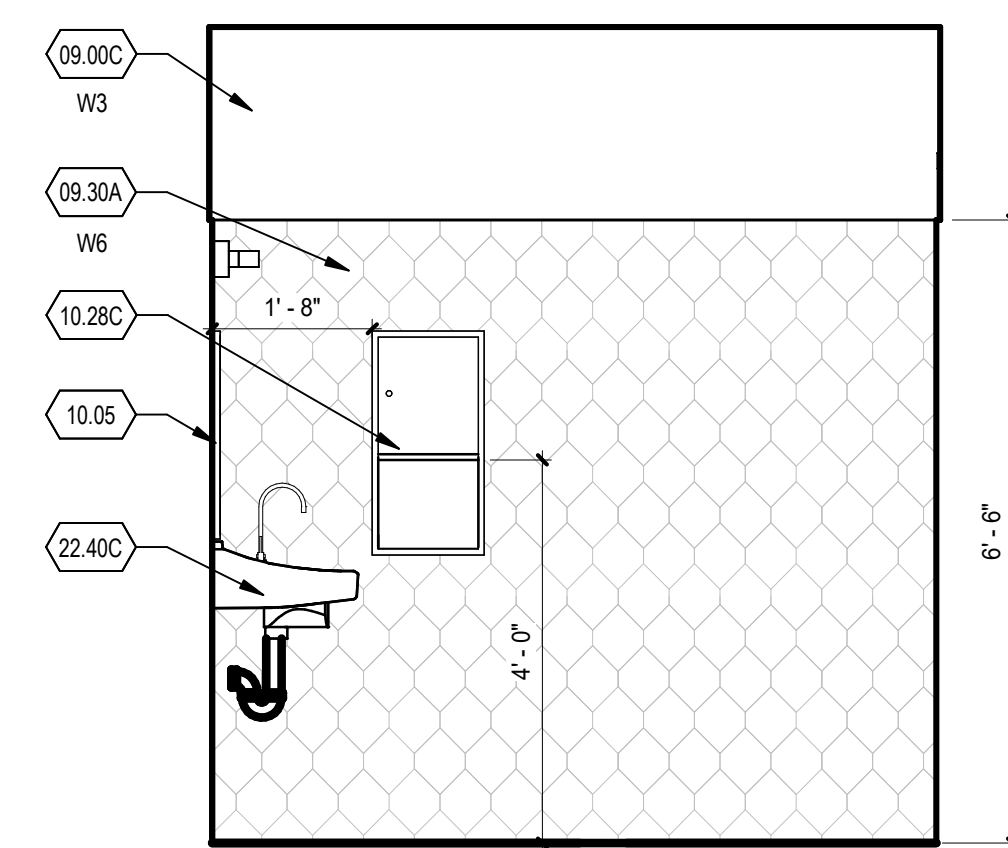
D4 RESTROOM - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



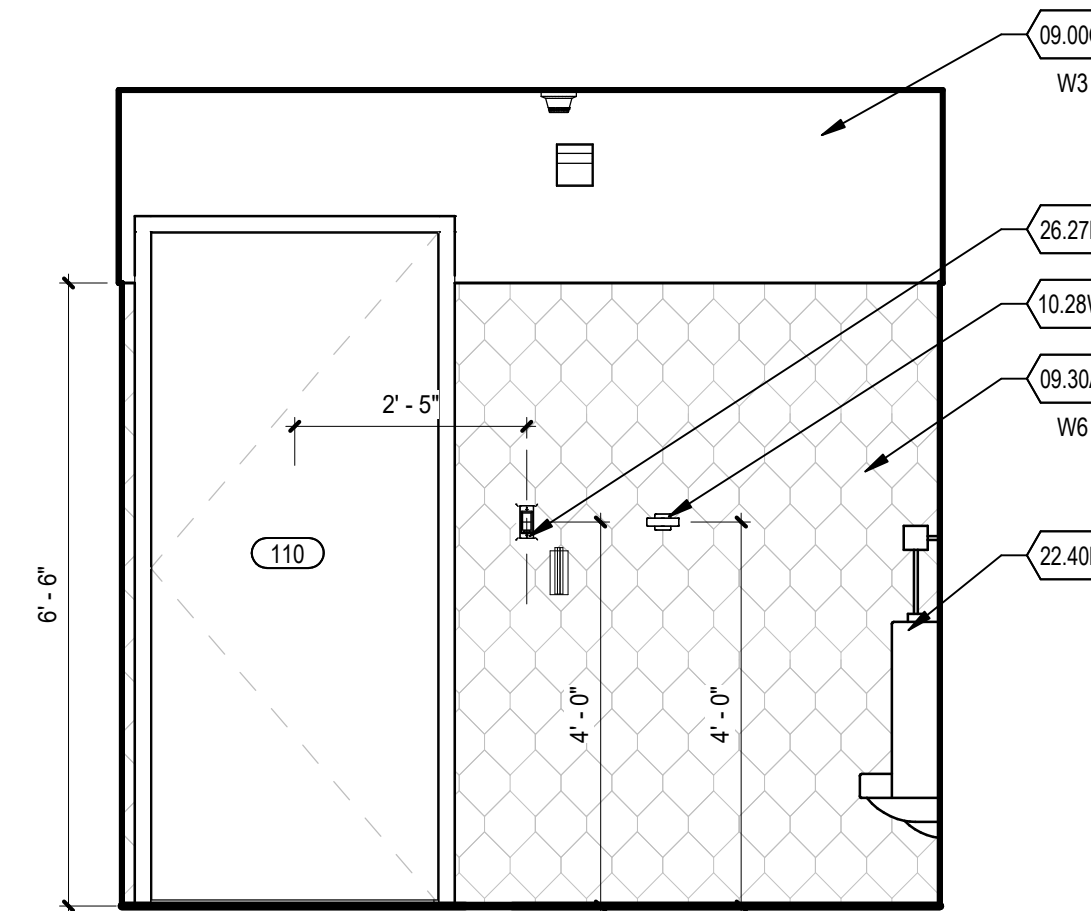
C1 ADA RESTROOM - WEST ELEVATION
SCALE: 1/2" = 1'-0"



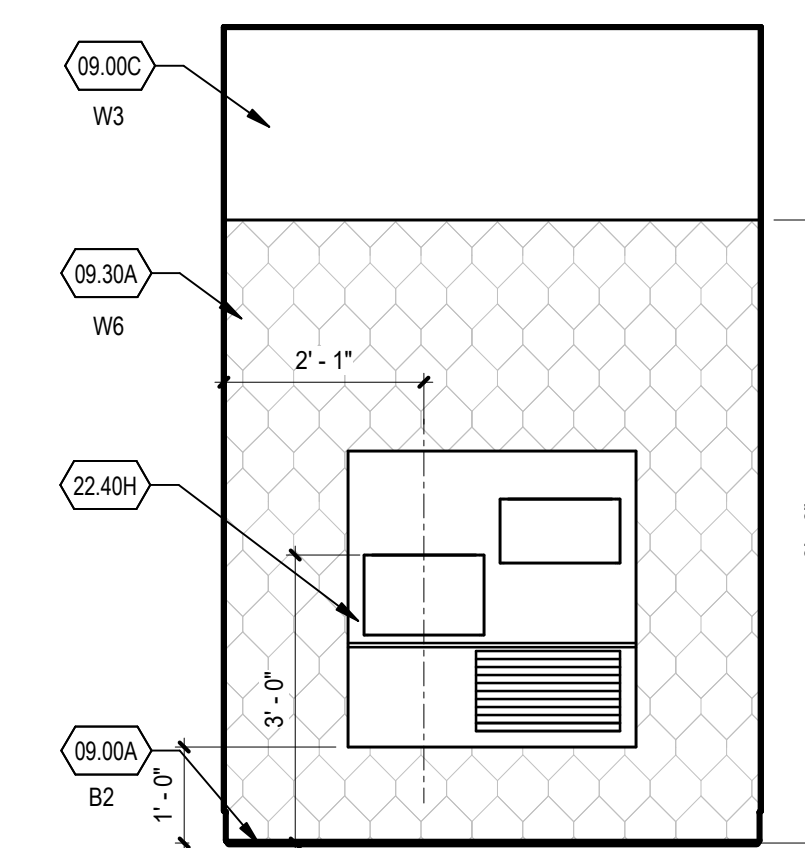
C2 **ADA RESTROOM - NORTH ELEVATION**
SCALE: 1/2" = 1'-0"



C3 ADA RESTROOM - EAST ELEVATION
SCALE: 1/2" = 1'-0"



C4 ADA RESTROOM - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"

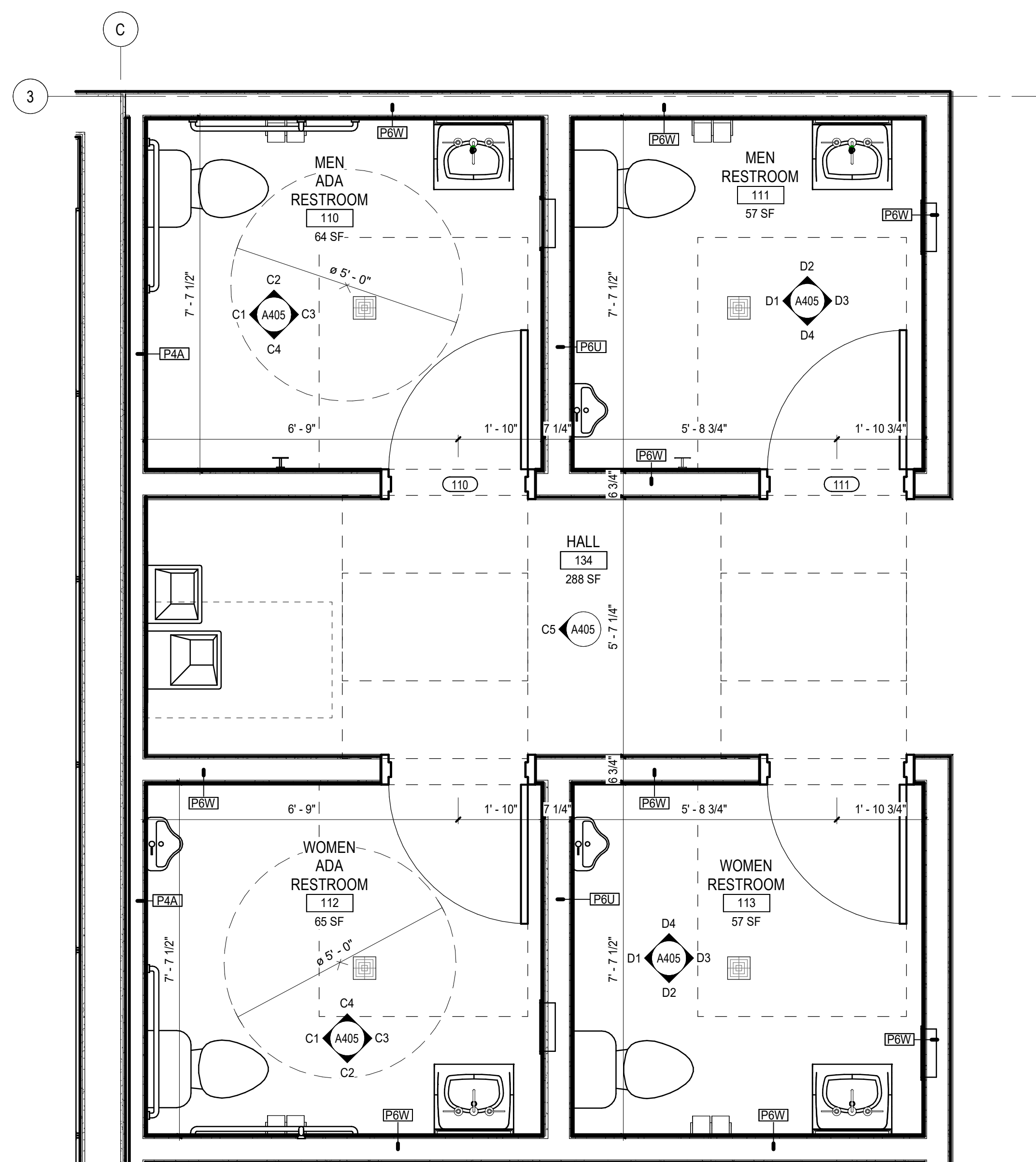
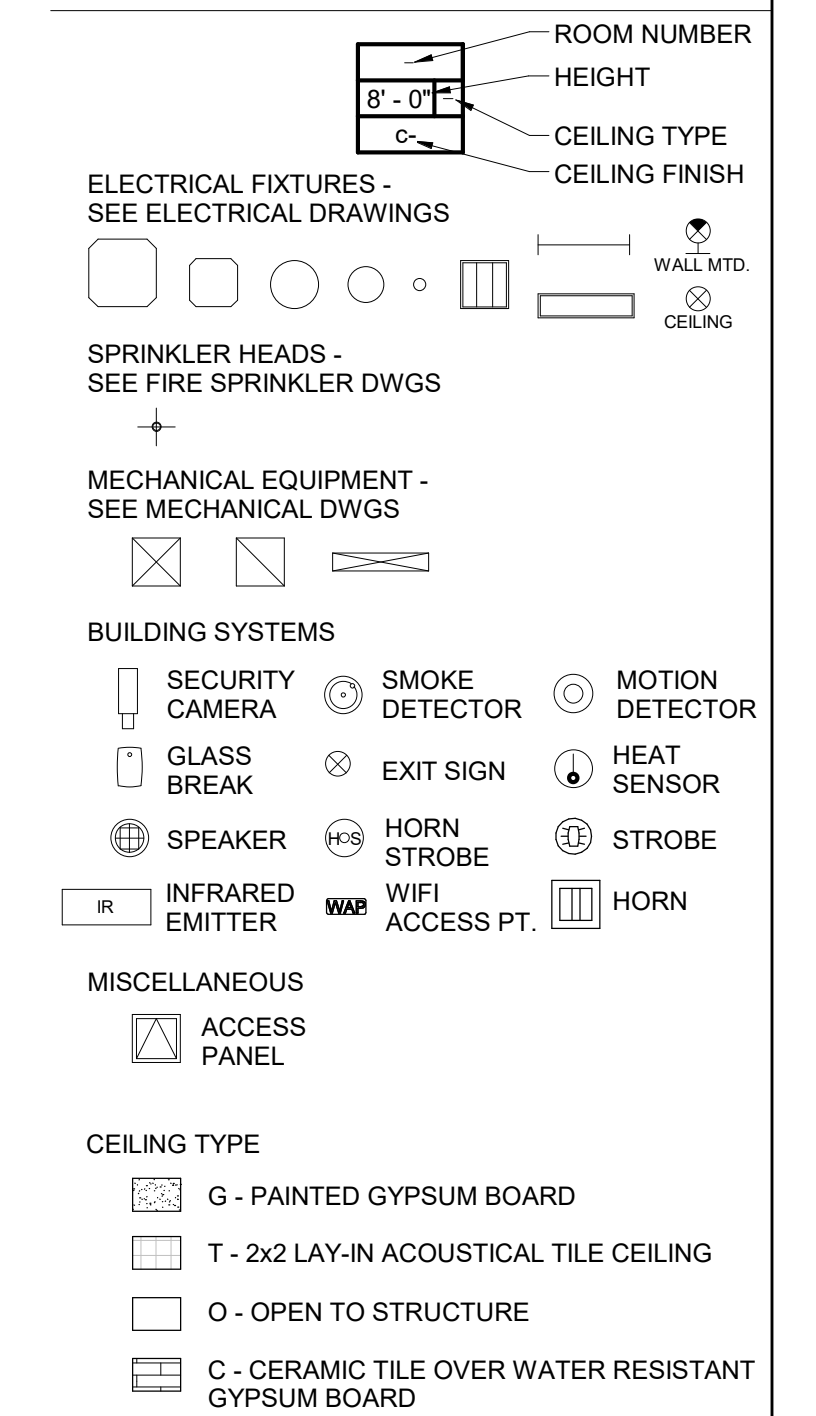


C5 HALL 134 - WEST ELEVATION
SCALE: 1/2" = 1'-0"

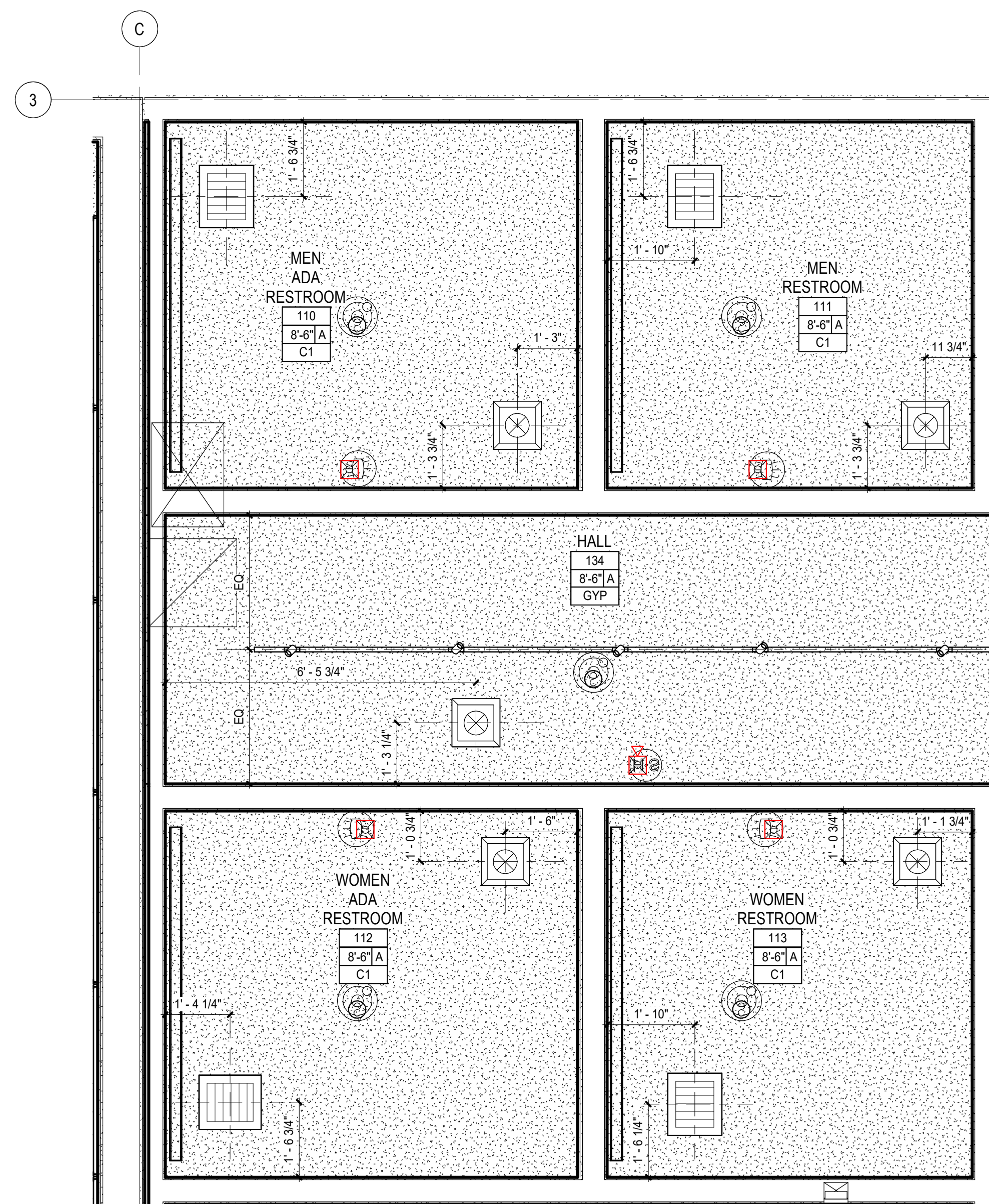
- ## REFERENCE NOTES

- 09.00A SCHEDULED WALL BASE
09.00Z PAINTED GYP BOARD
09.30A WALL TILE
10.05 MIRROR
10.28A TOILET PAPER DISPENSER
10.28Z RECESSED MEDIUM CAPACITY PAPER TOWER
DISPENSER
10.28N ADA GRAB BARS 1-1/2" O.D.
10.28U FEMININE WASTE
10.28W TOWEL OR CLOTHING HOOK
22.40A WATER CLOSET
22.40B URINAL
22.40C LAVATORY / SINK
22.49H DRINKING FOUNTAIN ELKAY DUAL HEIGHT WITH BOTTLE
FILLING STATION
26.27E ELECTRICAL SWITCH, RE: ELECTRICAL
26.51A LIGHT FIXTURE, RE: ELECTRICAL

CEILING LEGEND



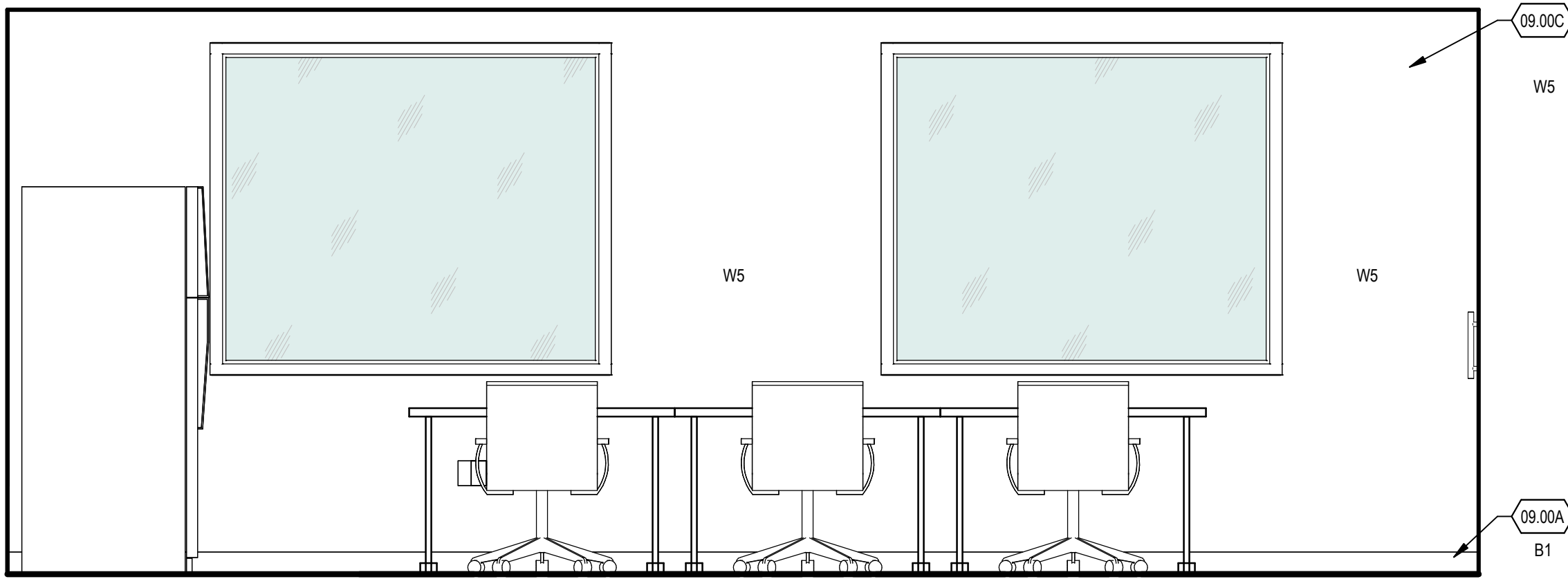
A1 **RESTROOMS ENLARGED FLOOR PLAN**
SCALE: 1/2" = 1'-0"



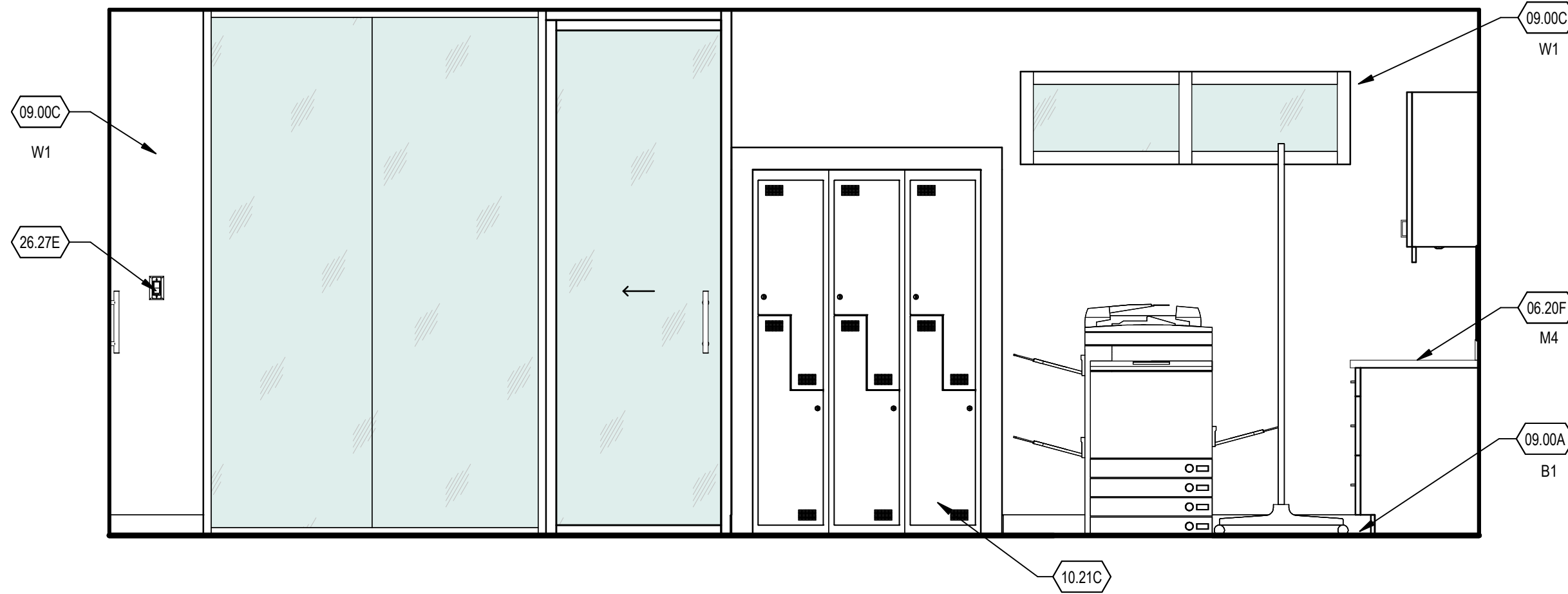
A3 RESTROOMS ENLARGED REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"

5/09/2024 9:22:29 a.m. A B C D E F

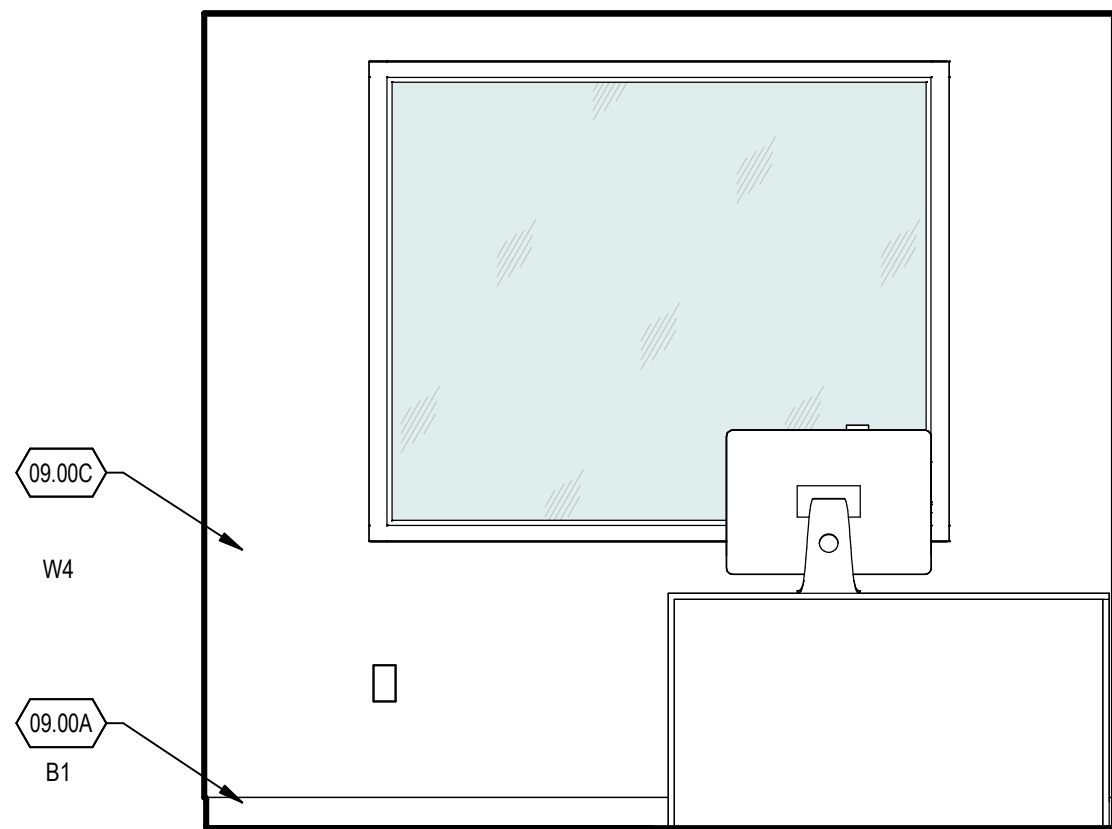
1 2 3 4 5 6



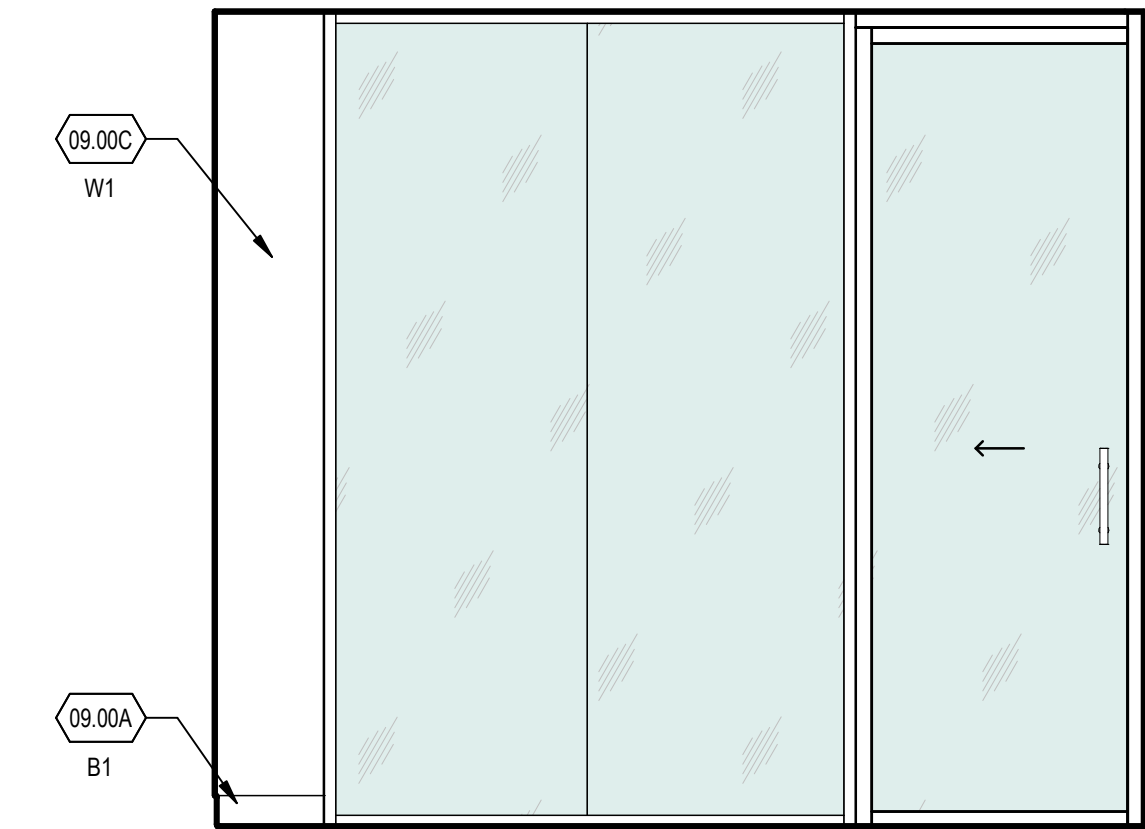
D1 WORKROOM/ KITCHENETTE/ COLLABORATION ROOM - EAST ELEVATION
SCALE: 1/2" = 1'-0"



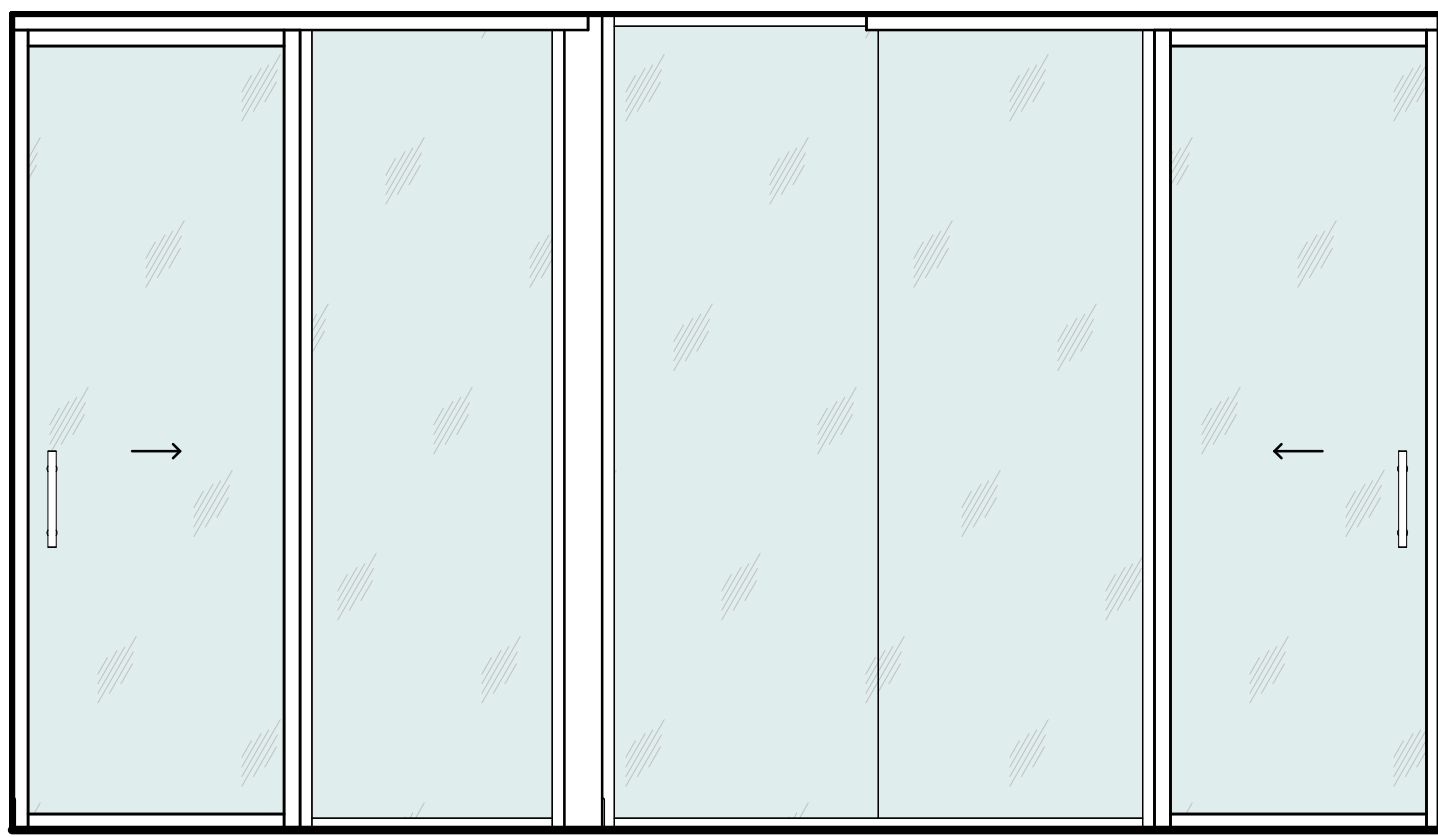
C1 WORKROOM/ KITCHENETTE/ COLLABORATION ROOM - WEST ELEVATION
SCALE: 1/2" = 1'-0"



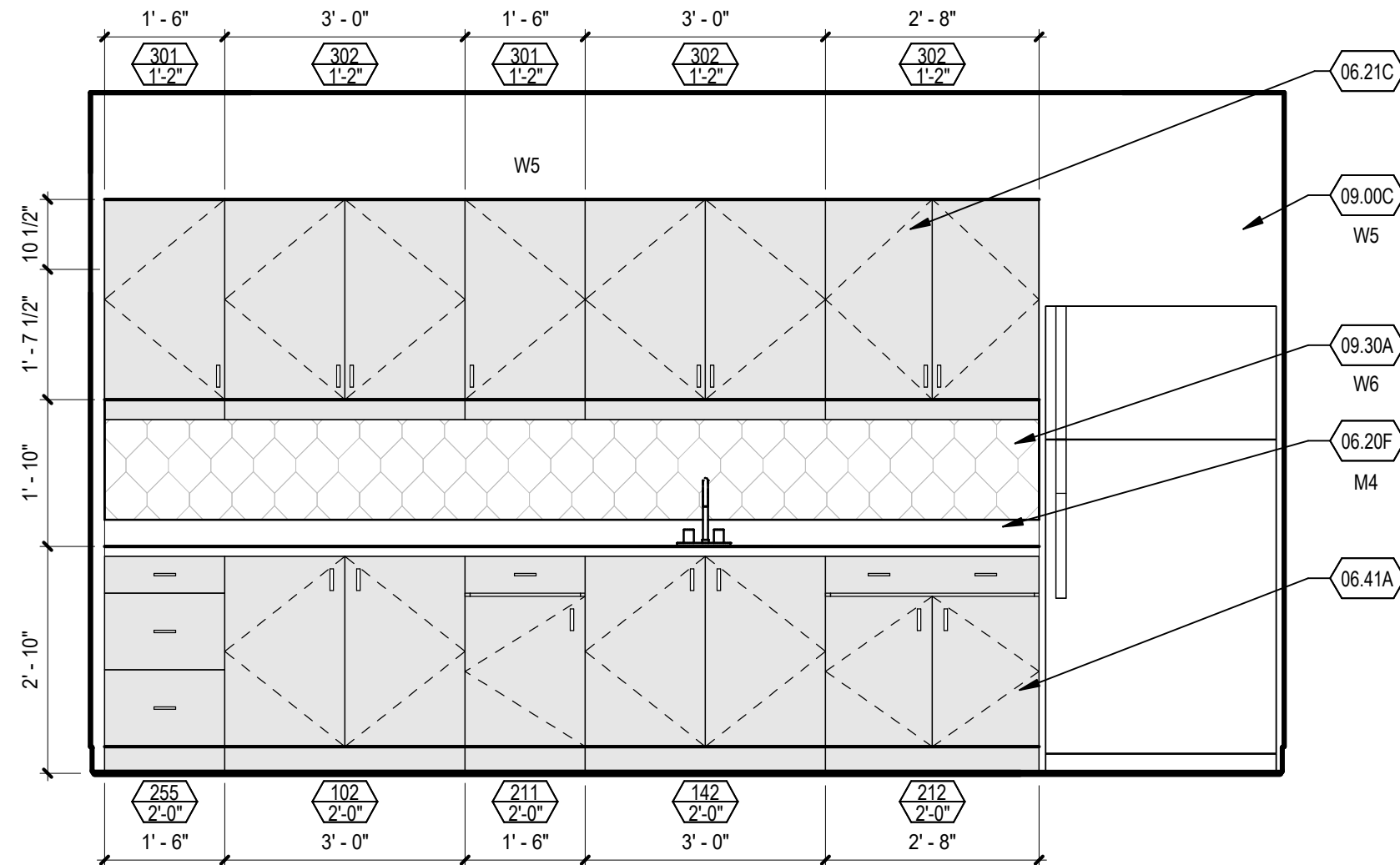
B1 PRINCIPAL - EAST ELEVATION
SCALE: 1/2" = 1'-0"



A1 PRINCIPAL - WEST ELEVATION
SCALE: 1/2" = 1'-0"



D3 WORKROOM/ KITCHENETTE/ COLLABORATION ROOM - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"

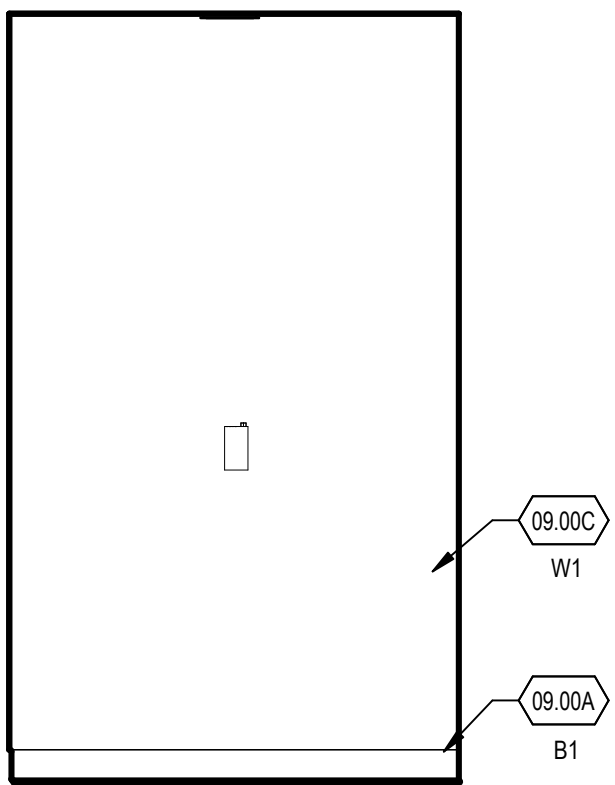


5/09/2024 9:22:32 a.m.

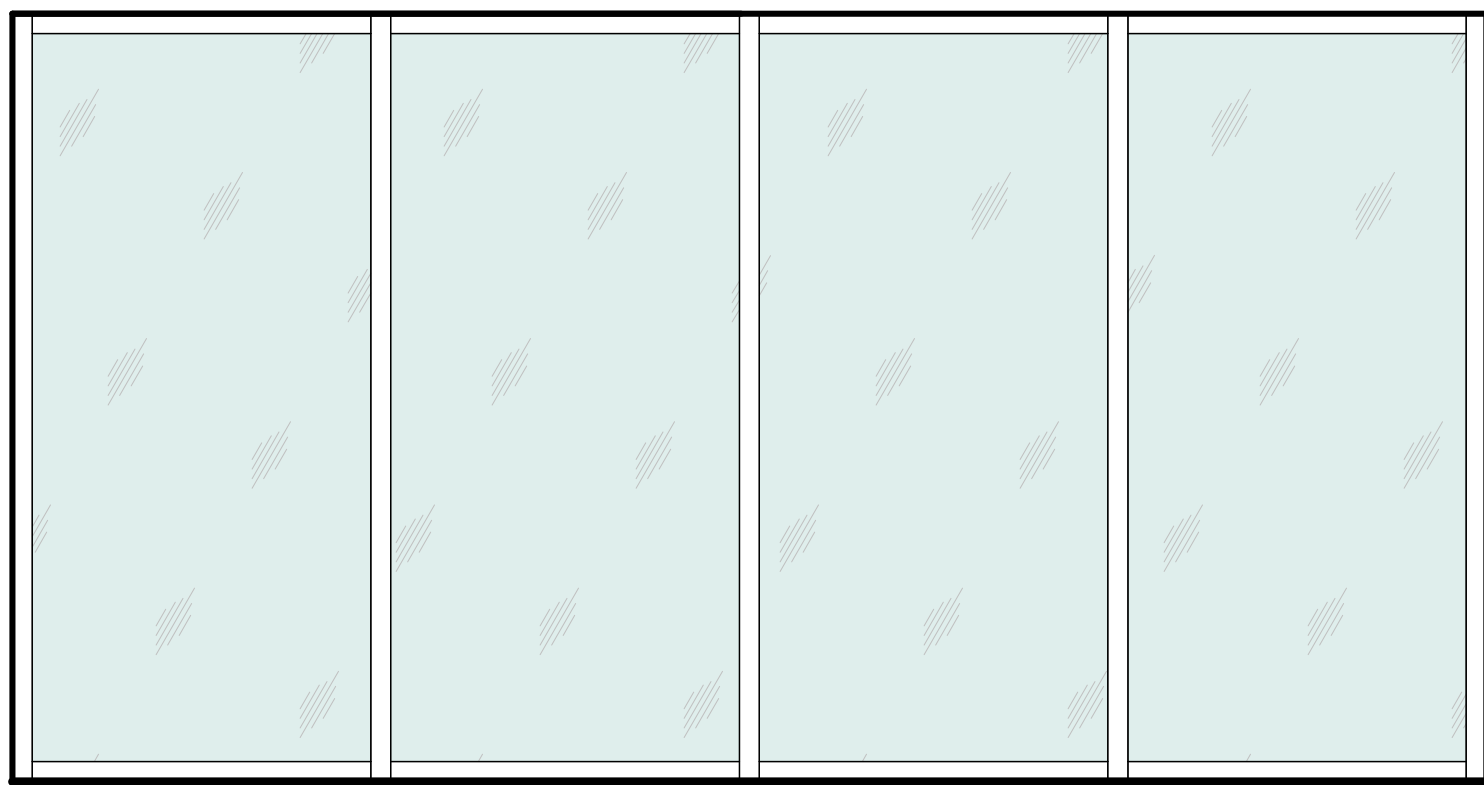
A B C D E



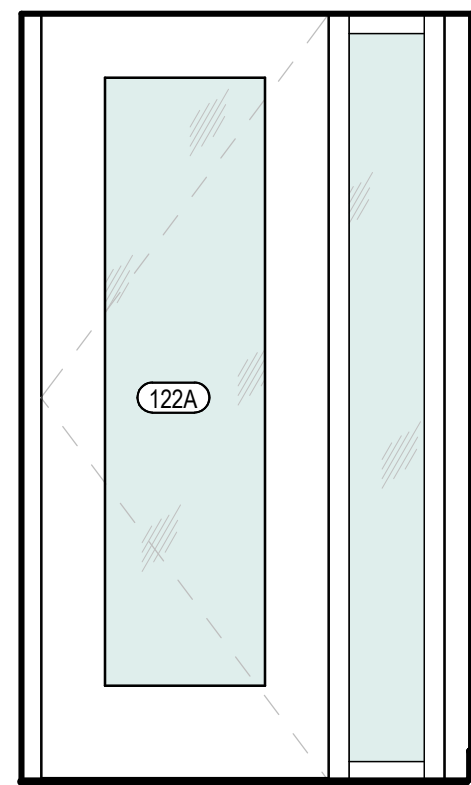
A1 VEST. 122 - NORTH ELEVATION
SCALE: 1/2" = 1'-0"



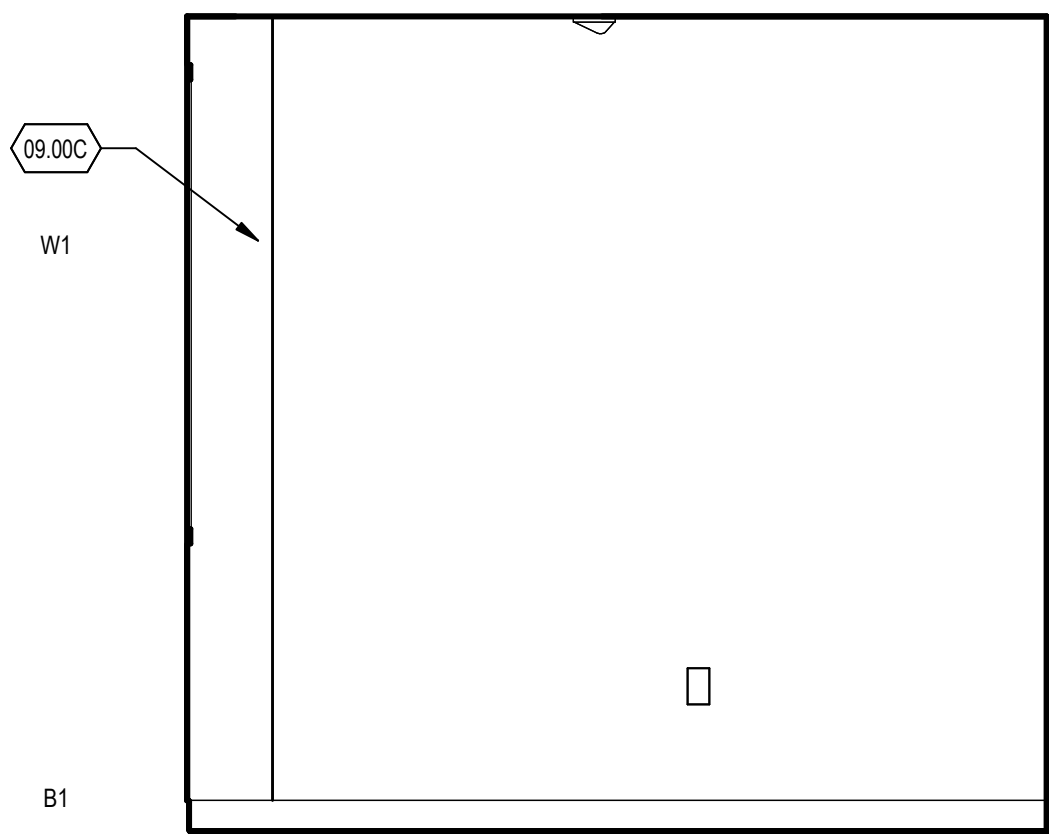
A2 VEST. 122 - EAST ELEVATION
SCALE: 1/2" = 1'-0"



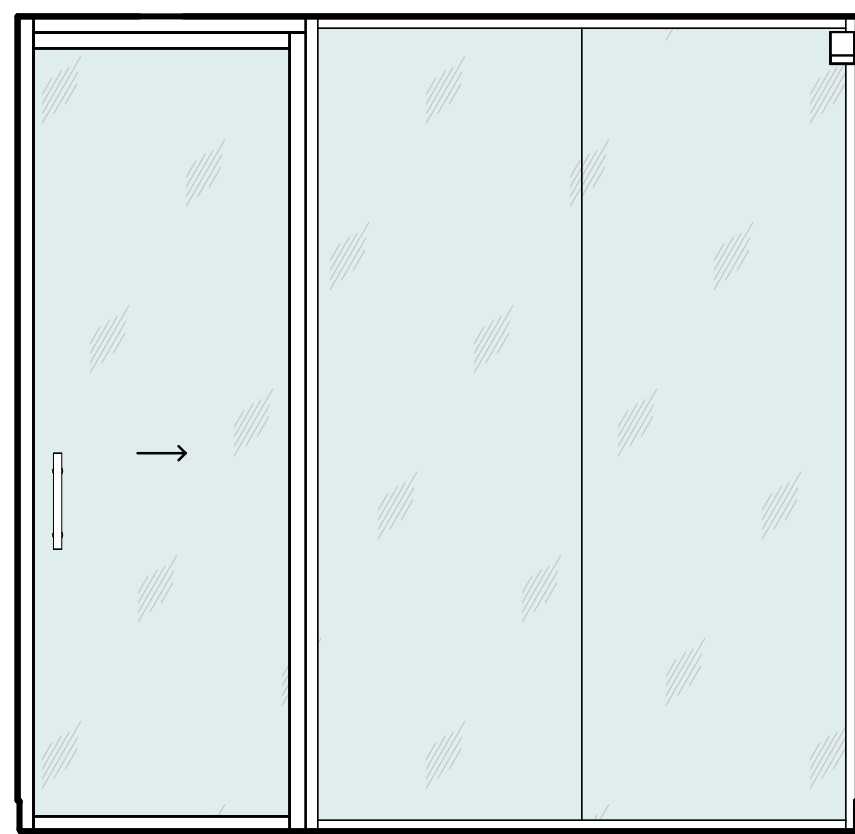
A3 VEST. 122 - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



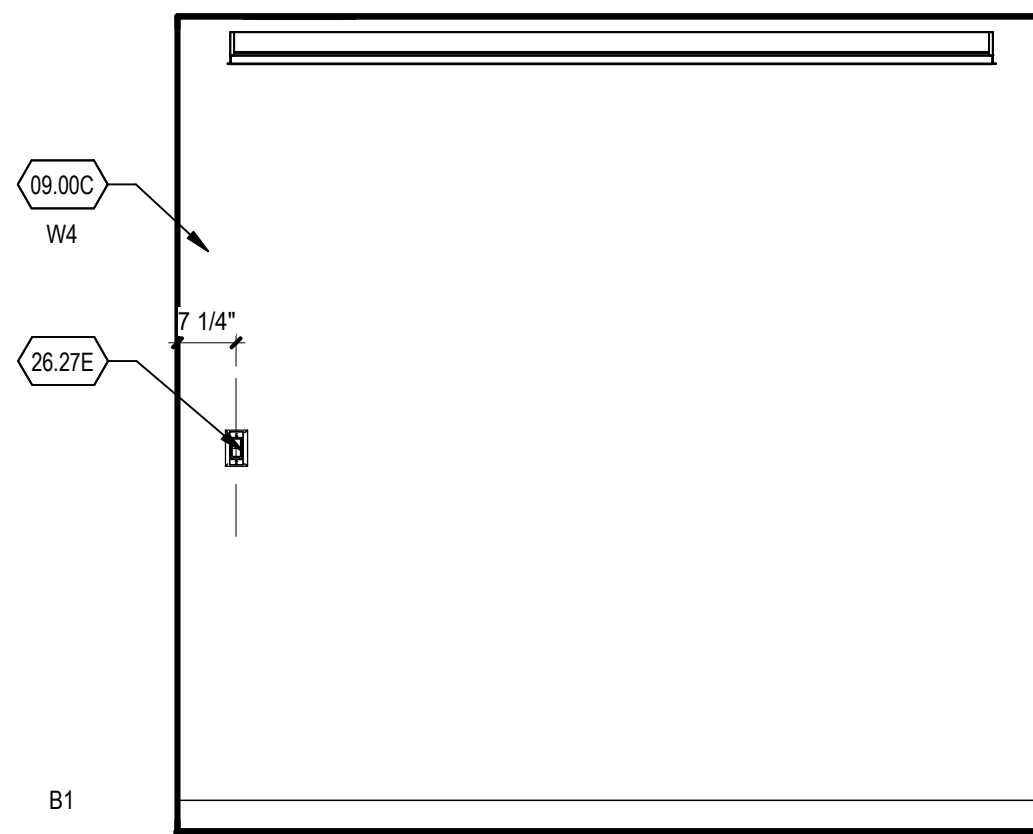
A5 VEST. 122 - WEST ELEVATION
SCALE: 1/2" = 1'-0"



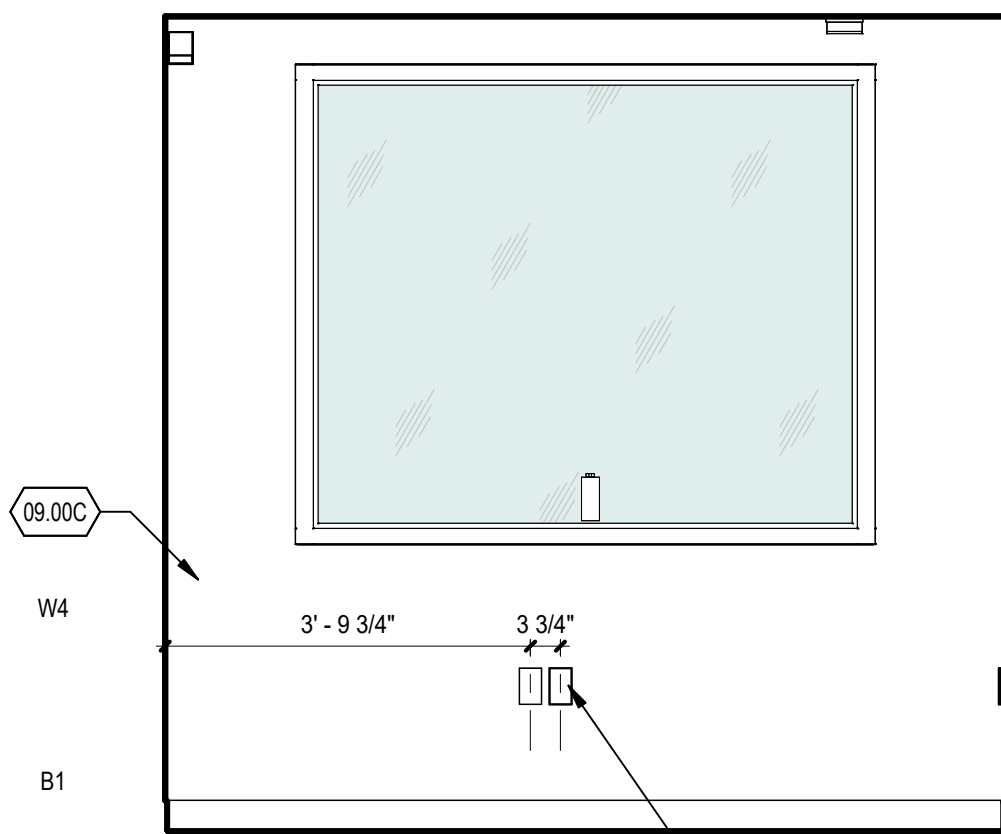
B1 QUIET STUDY 132 - WEST ELEVATION
SCALE: 1/2" = 1'-0"



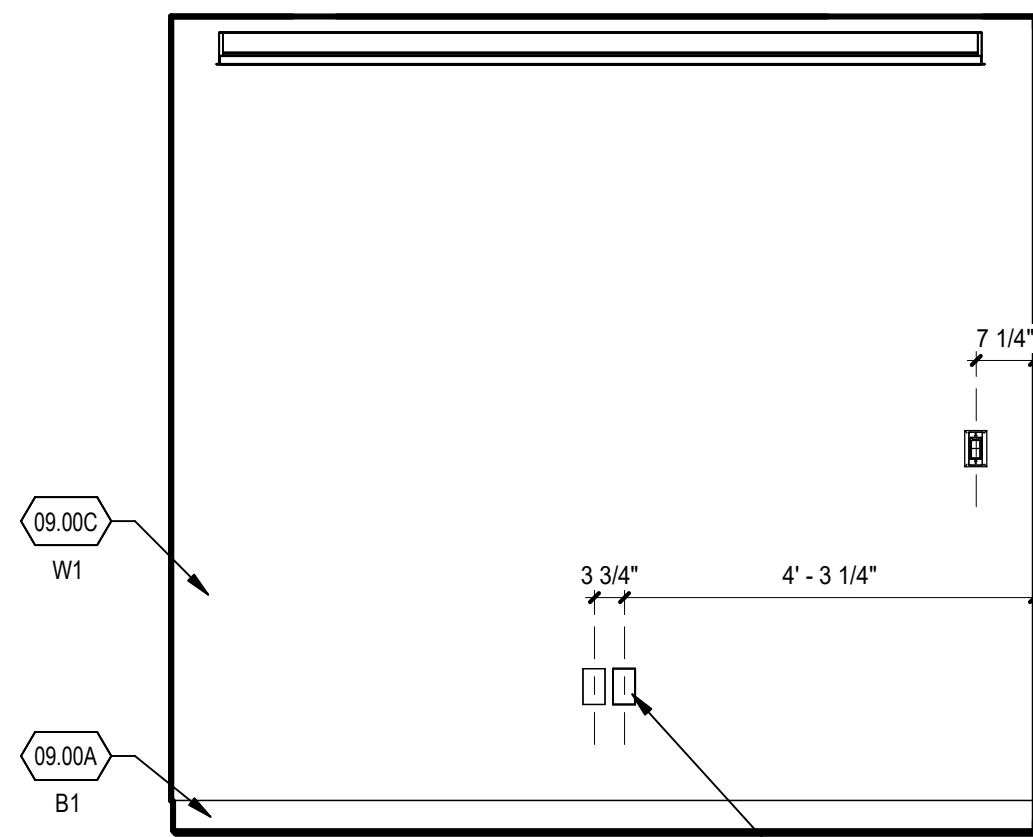
B2 QUIET STUDY 132 - NORTH ELEVATION
SCALE: 1/2" = 1'-0"



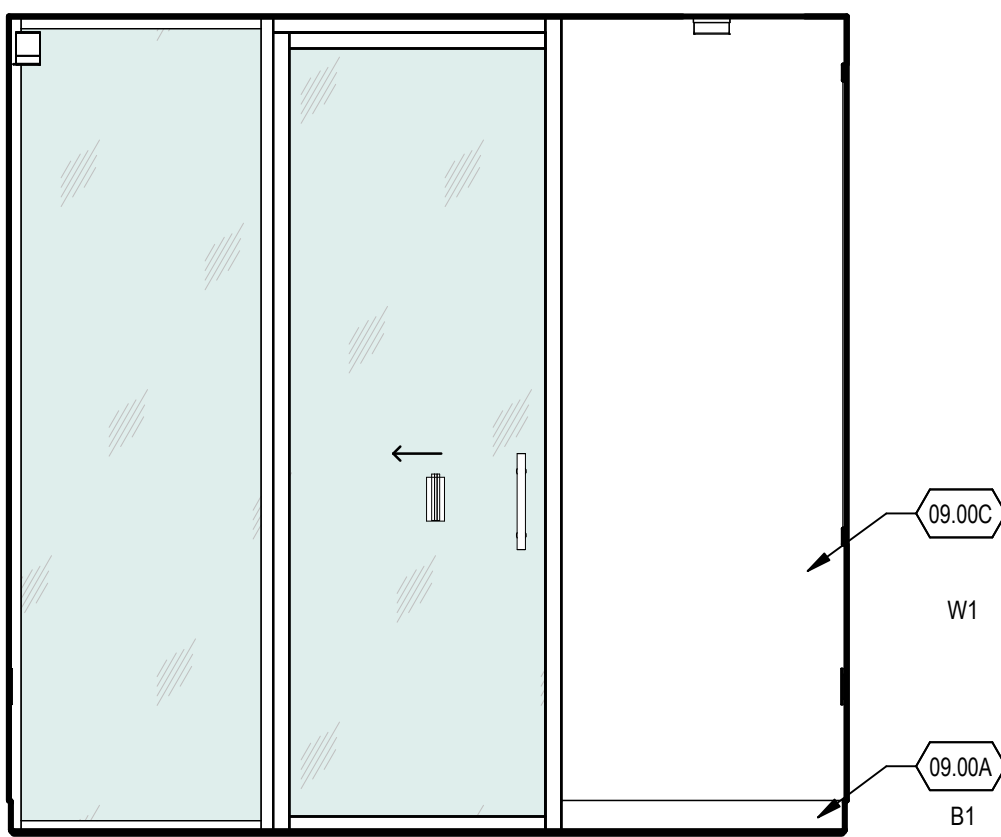
B4 QUIET STUDY 132 - EAST ELEVATION
SCALE: 1/2" = 1'-0"



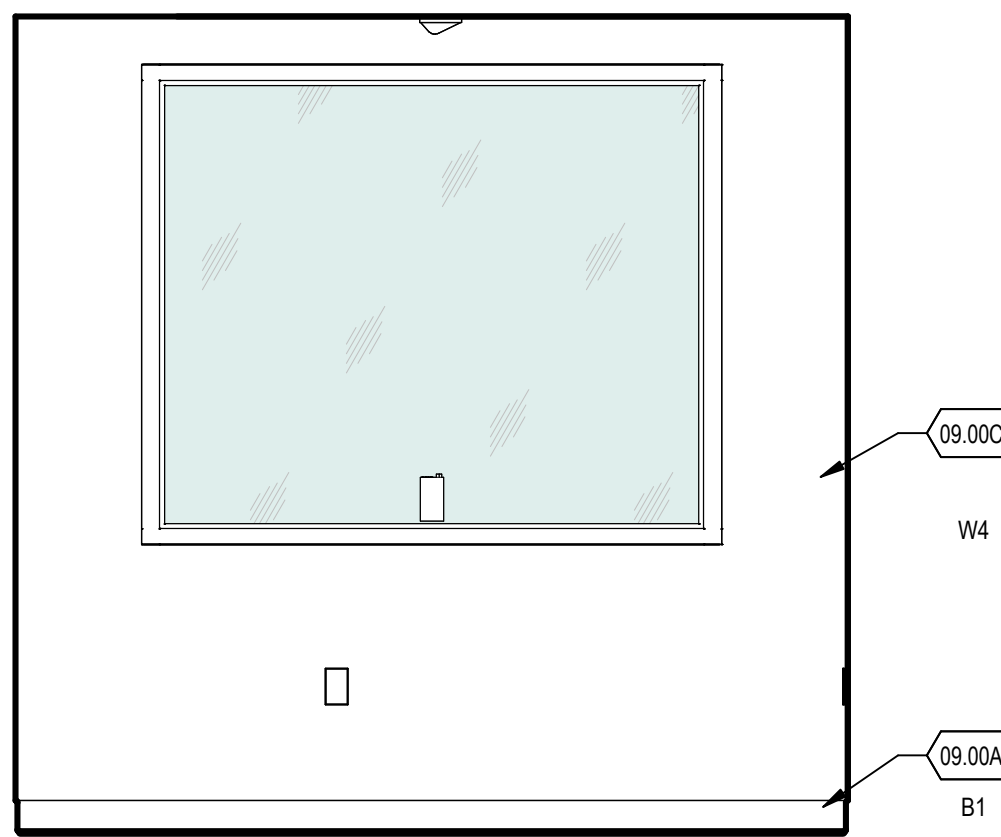
B5 QUIET STUDY 132 - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



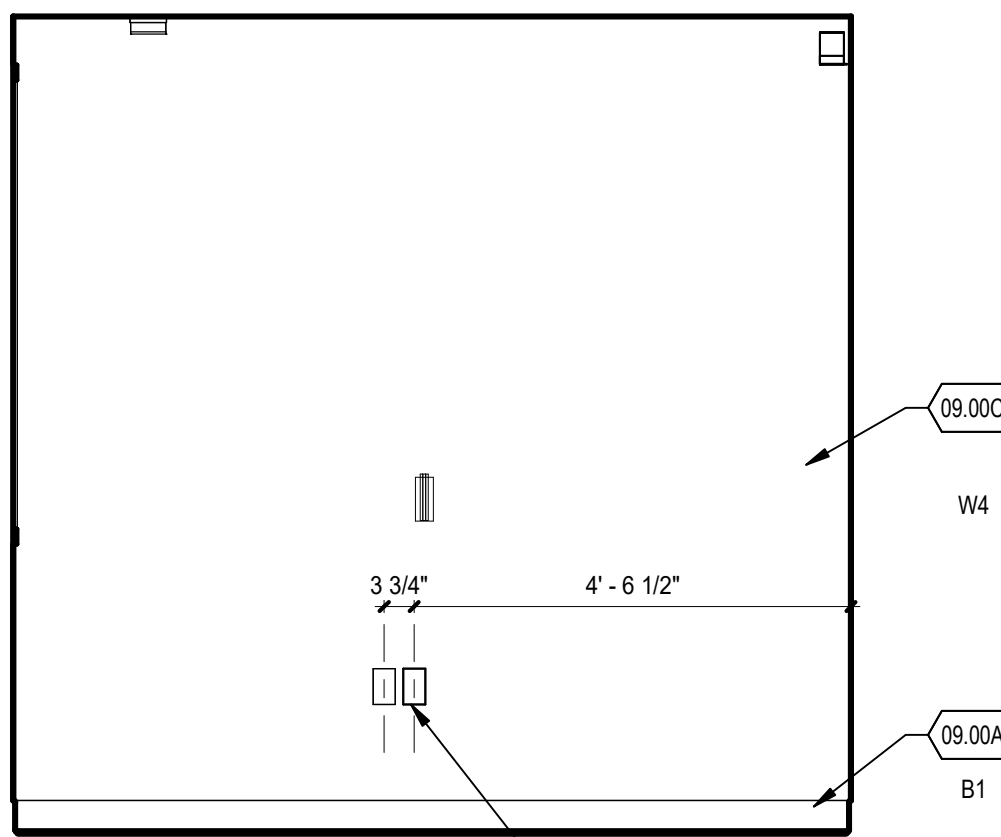
C1 QUIET STUDY 133 - WEST ELEVATION
SCALE: 1/2" = 1'-0"



C2 QUIET STUDY 133 - NORTH ELEVATION
SCALE: 1/2" = 1'-0"



C4 QUIET STUDY 133 - EAST ELEVATION
SCALE: 1/2" = 1'-0"

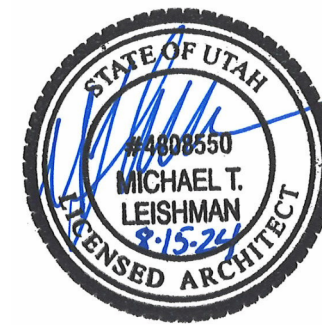


C5 QUIET STUDY 133 - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"

REFERENCE NOTES

09.00A SCHEDULED WALL BASE
09.00C PAINTED GYP BOARD
26.27A DUPLEX ELECTRICAL OUTLET
26.27E ELECTRICAL SWITCH, RE. ELECTRICAL

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.24



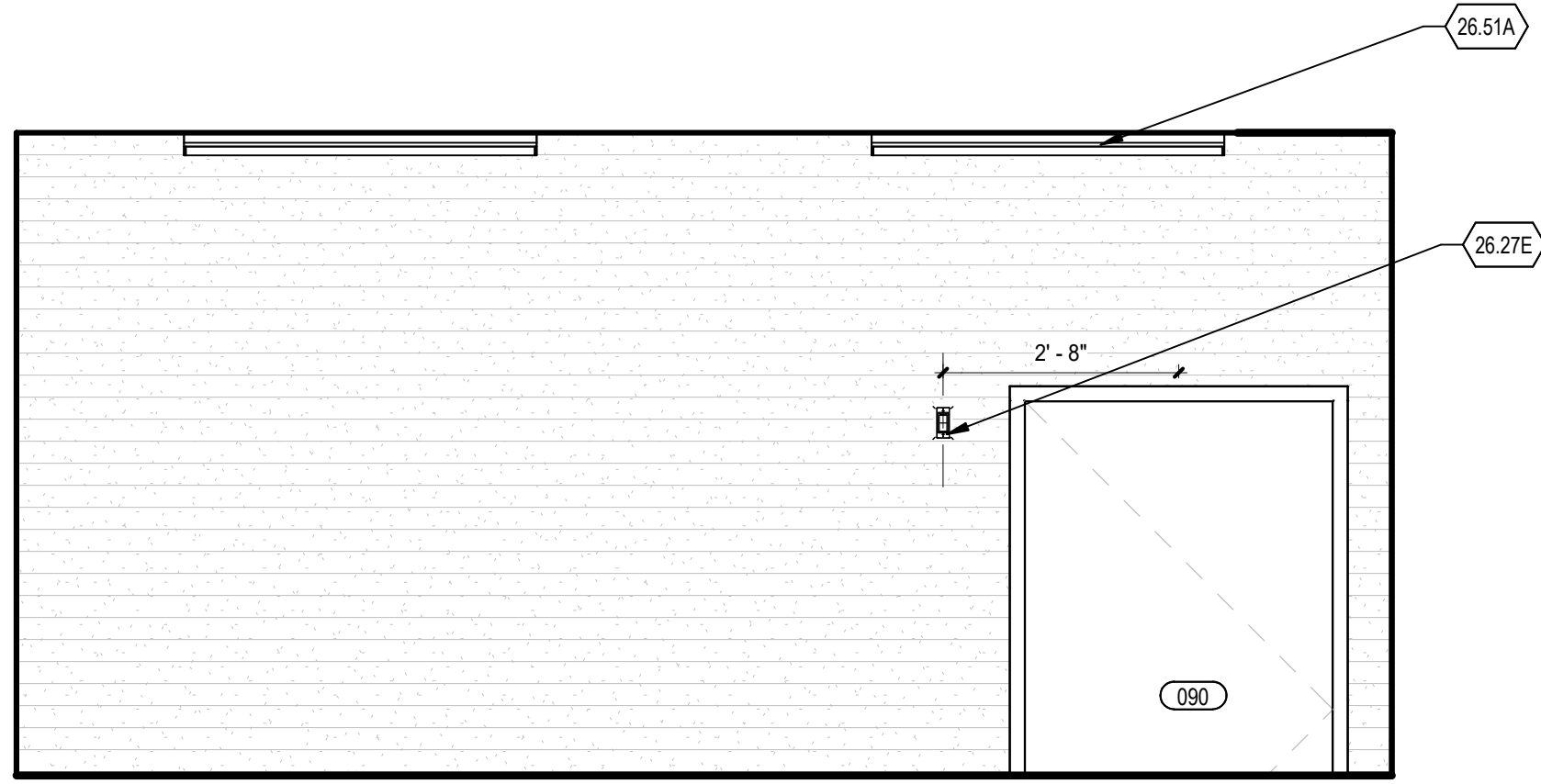
DATE REVISION

PROJECT NUMBER 24003

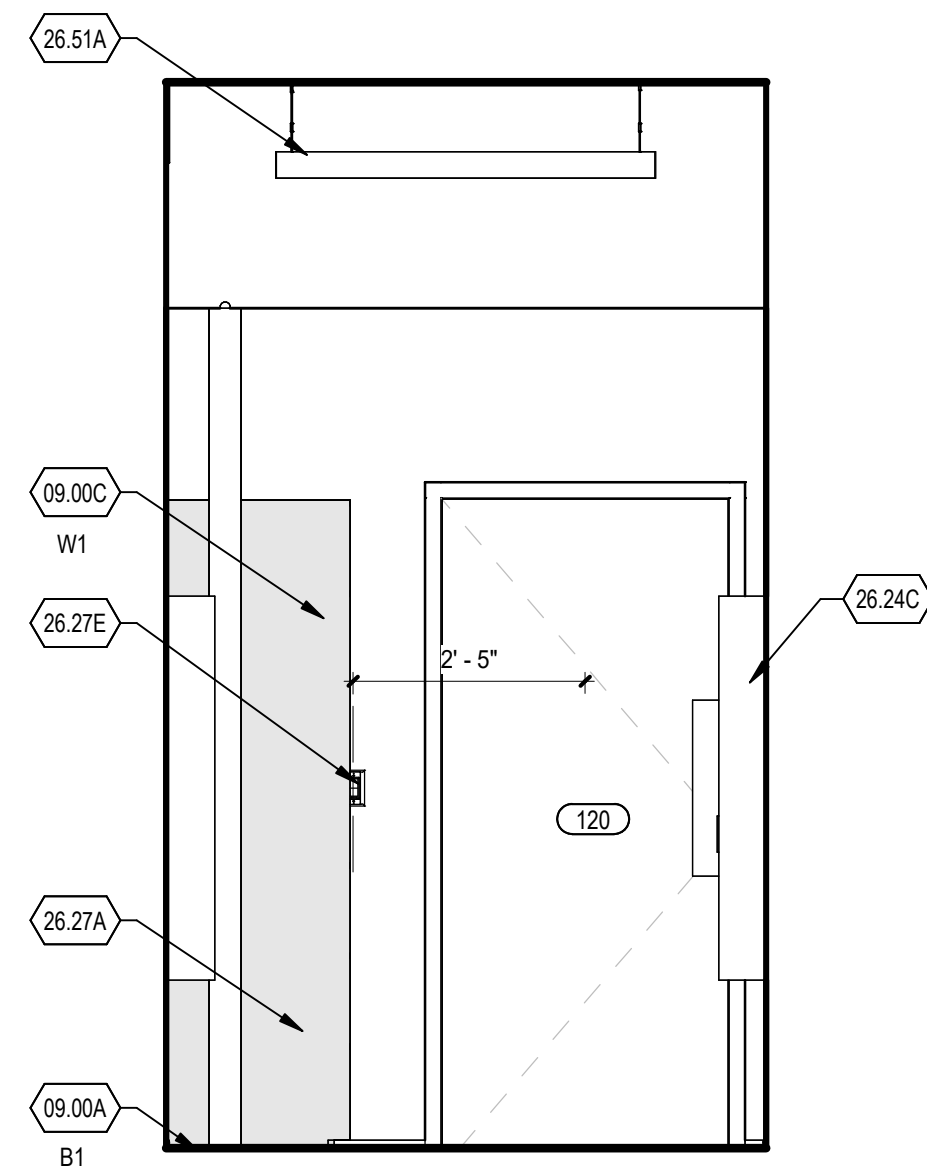
QUIET
STUDY &
VEST 122 -
INT ELEV.

5/09/2024 9:22:33 a.m.

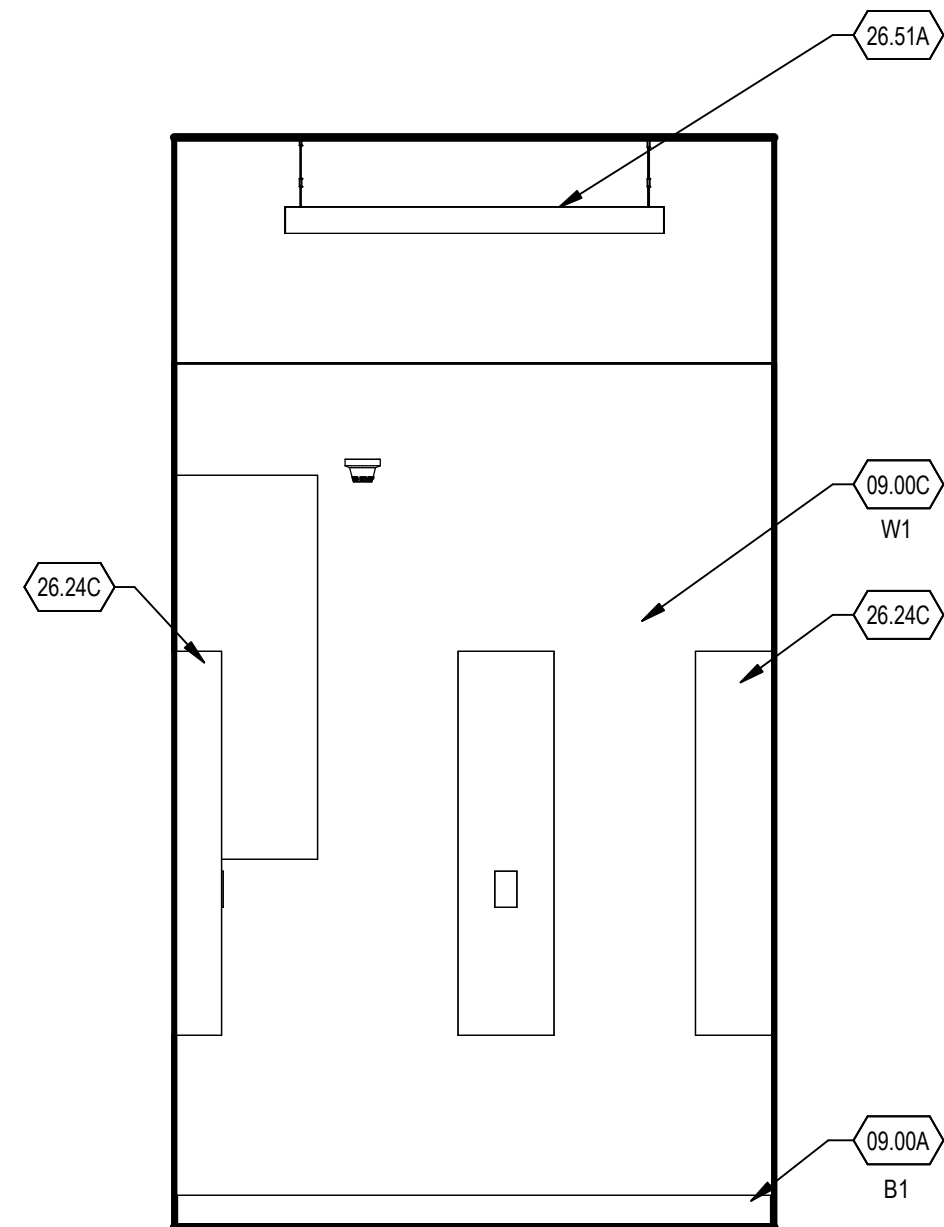
A B C D E F



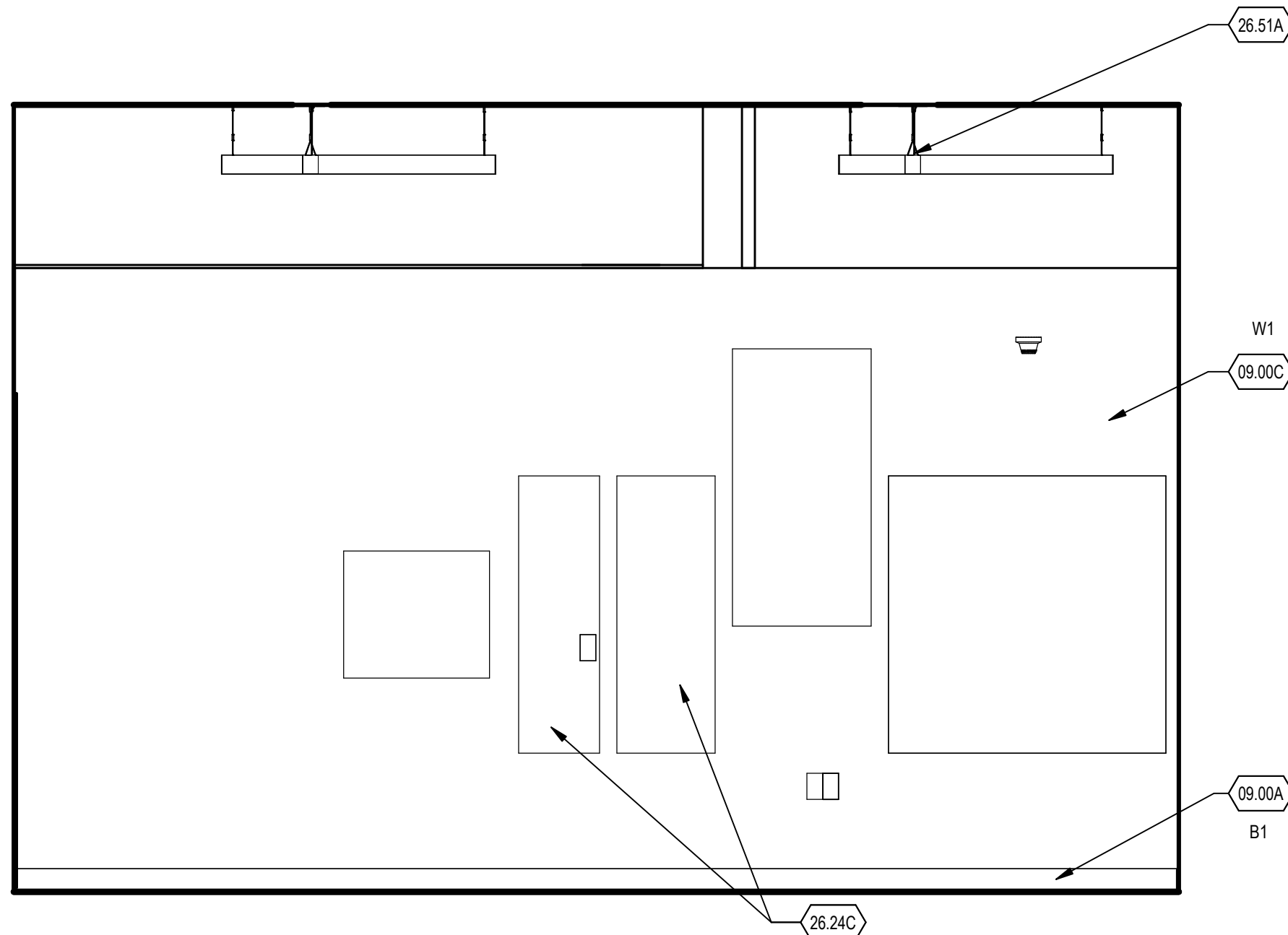
D1 STOR. 090 SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



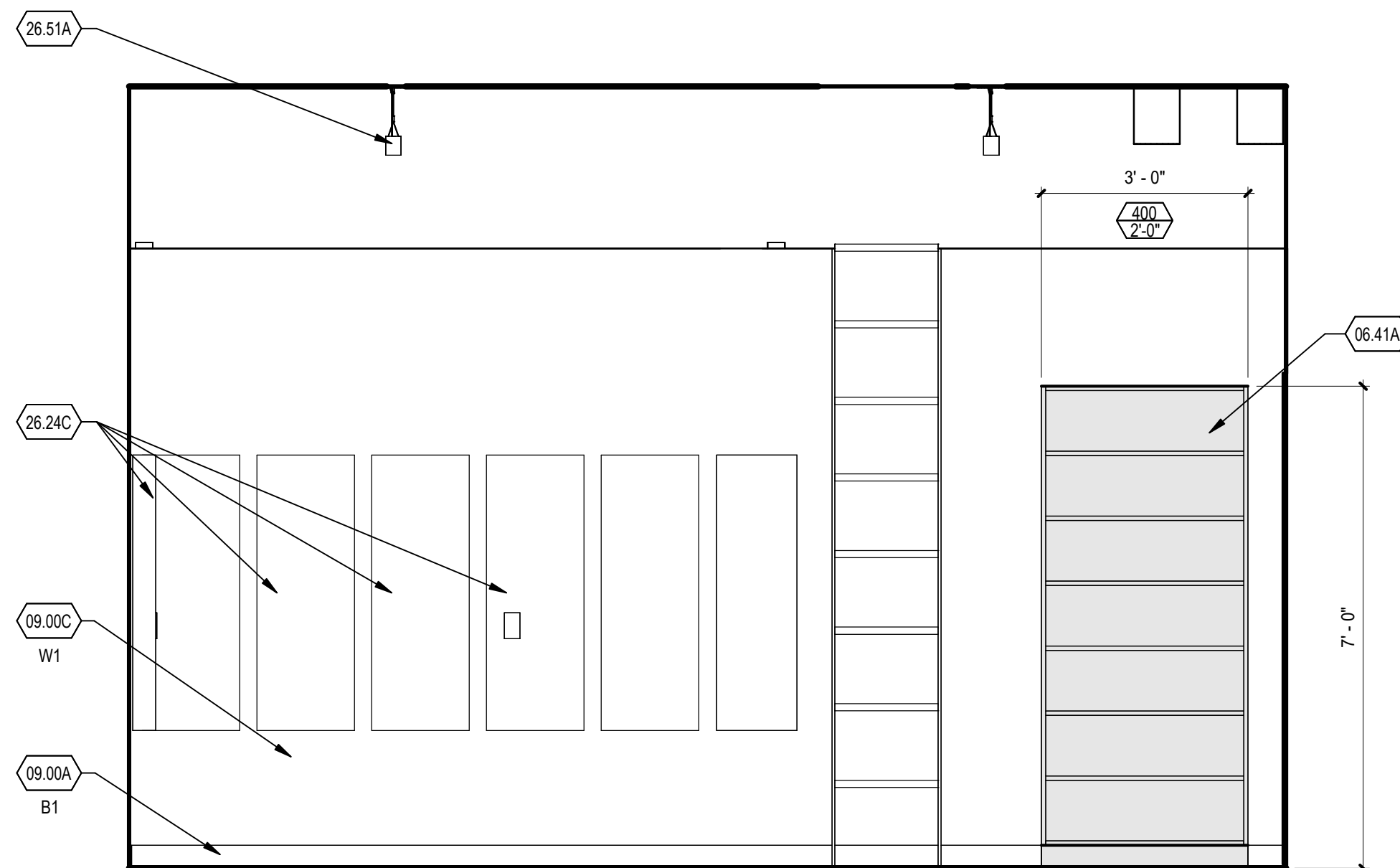
B1 STOR. 120 - EAST ELEVATION
SCALE: 1/2" = 1'-0"



A1 STOR. 120 - WEST ELEVATION
SCALE: 1/2" = 1'-0"



B3 STOR. 120 - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



A3 STOR. 120 - NORTH ELEVATION
SCALE: 1/2" = 1'-0"

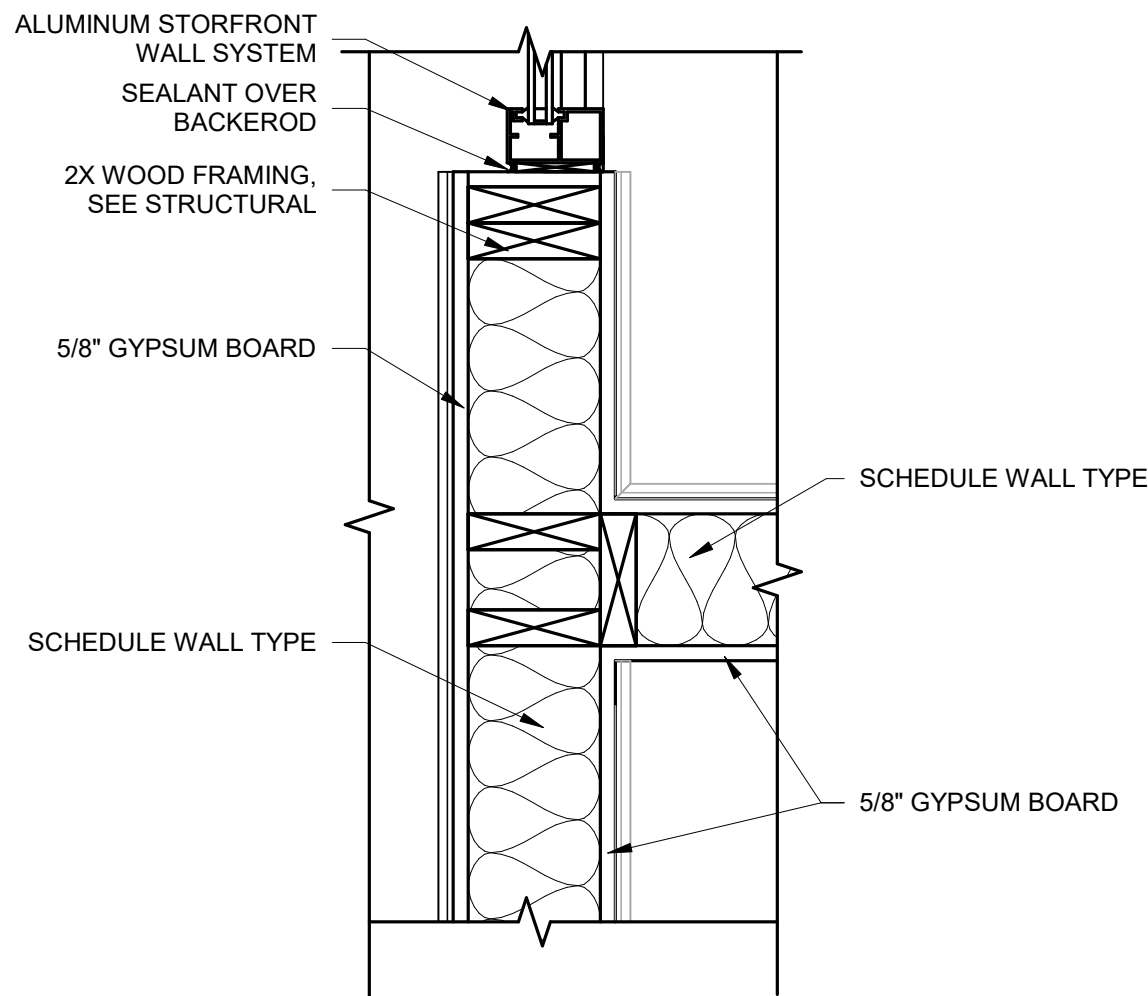
REFERENCE NOTES

- 06.41A CASEWORK
- 09.00A SCHEDULED WALL BASE
- 09.00C PAINTED GYP BOARD
- 26.24C ELECTRICAL PANEL, RE: ELECTRICAL
- 26.27A DUPLEX ELECTRICAL OUTLET
- 26.27E ELECTRICAL SWITCH, RE: ELECTRICAL
- 26.51A LIGHT FIXTURE, RE: ELECTRICAL

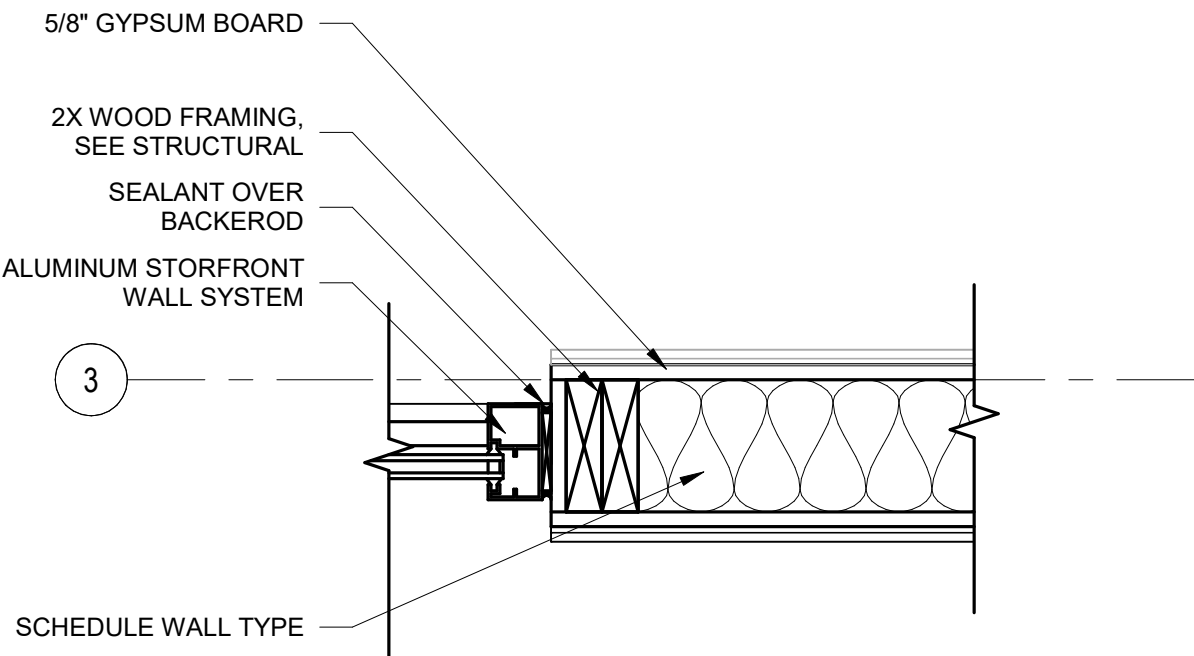


5/09/2024 9:22:35 a.m.

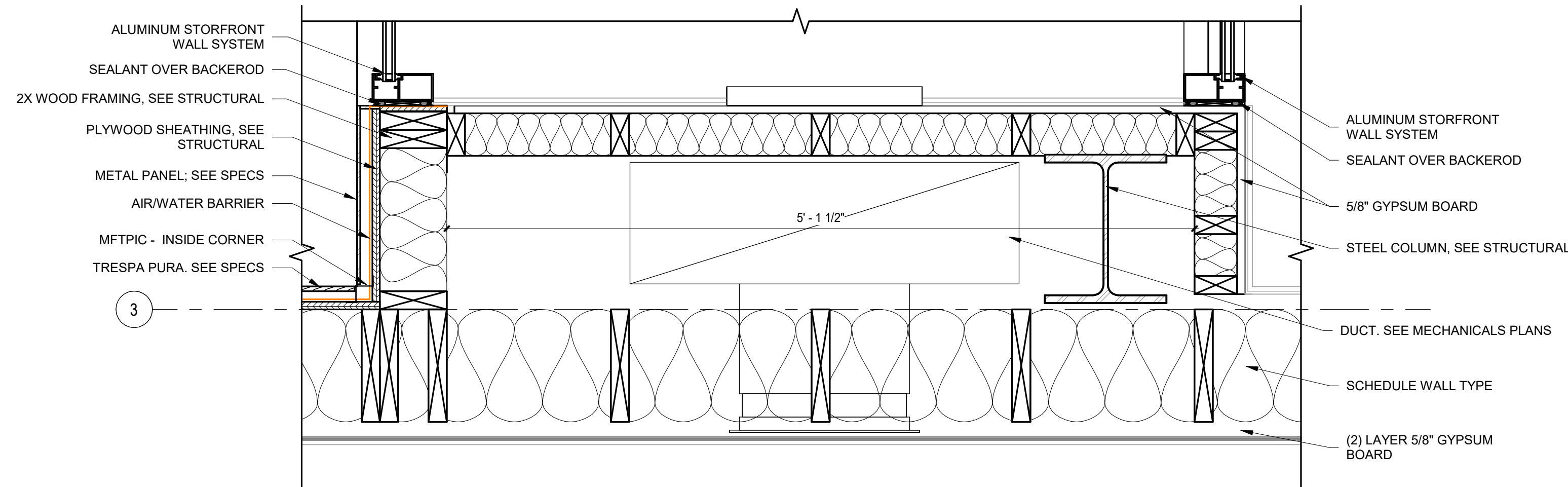
A B C D E F



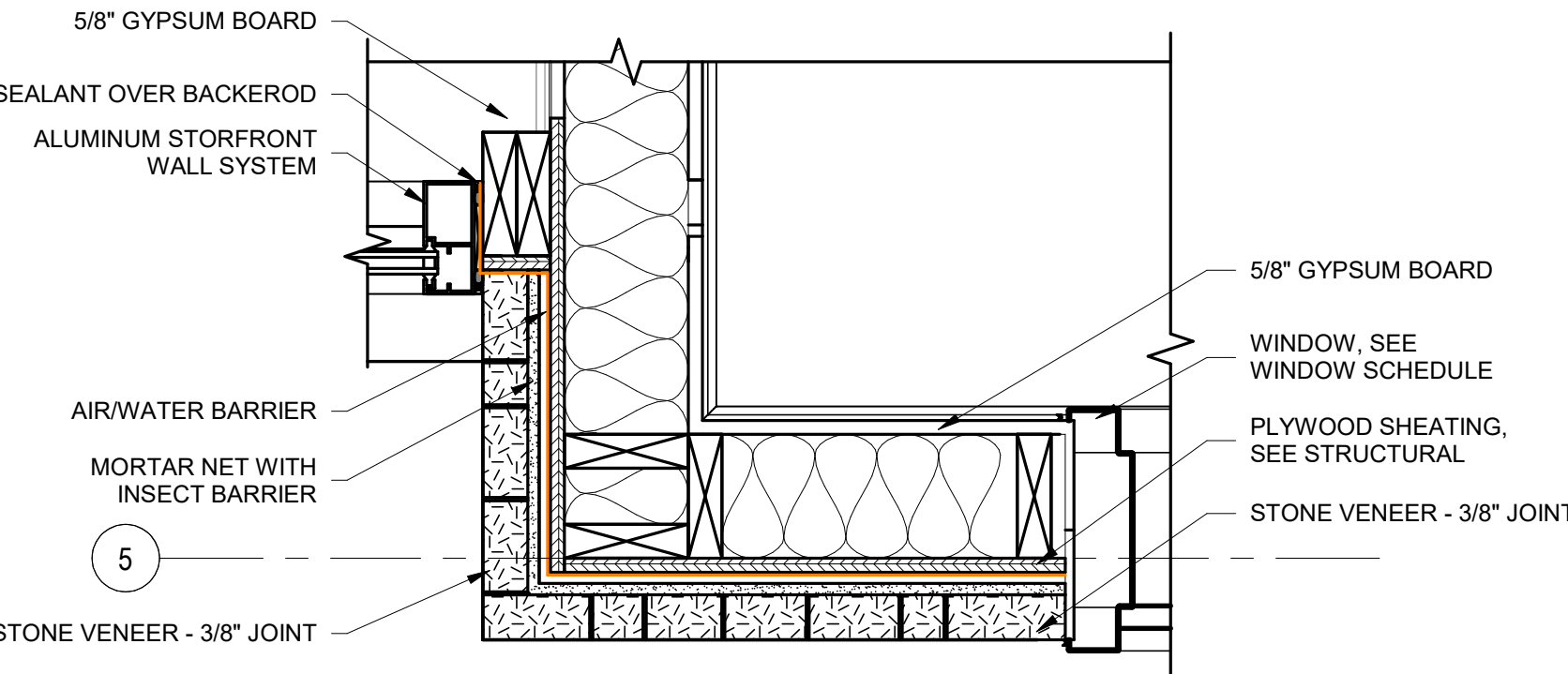
C1 PRINCIPAL 130 - PLAN DETAIL 11
SCALE: 1 1/2" = 1'-0"



C2 PRINCIPAL 130 - PLAN DETAIL 10
SCALE: 1 1/2" = 1'-0"

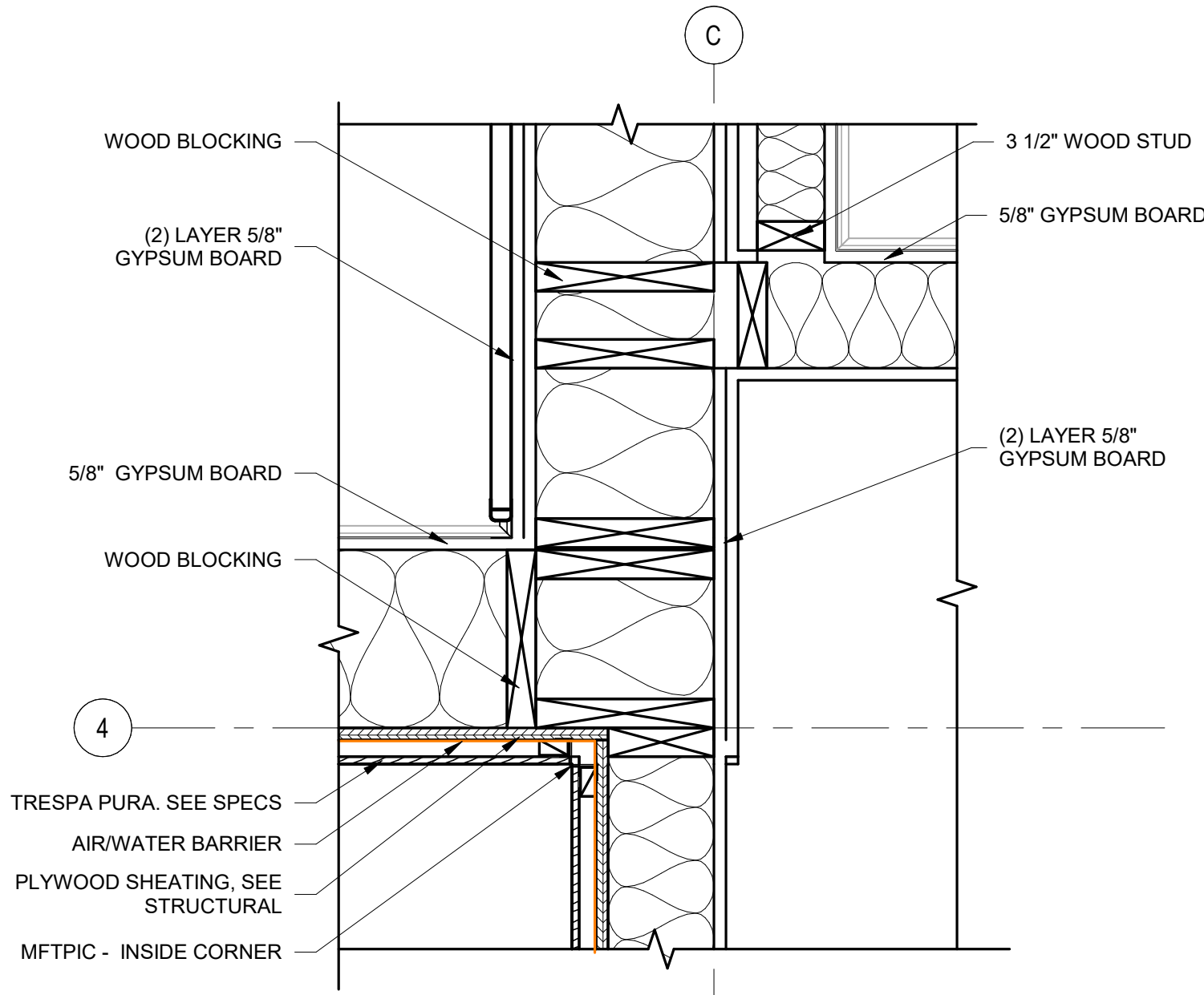
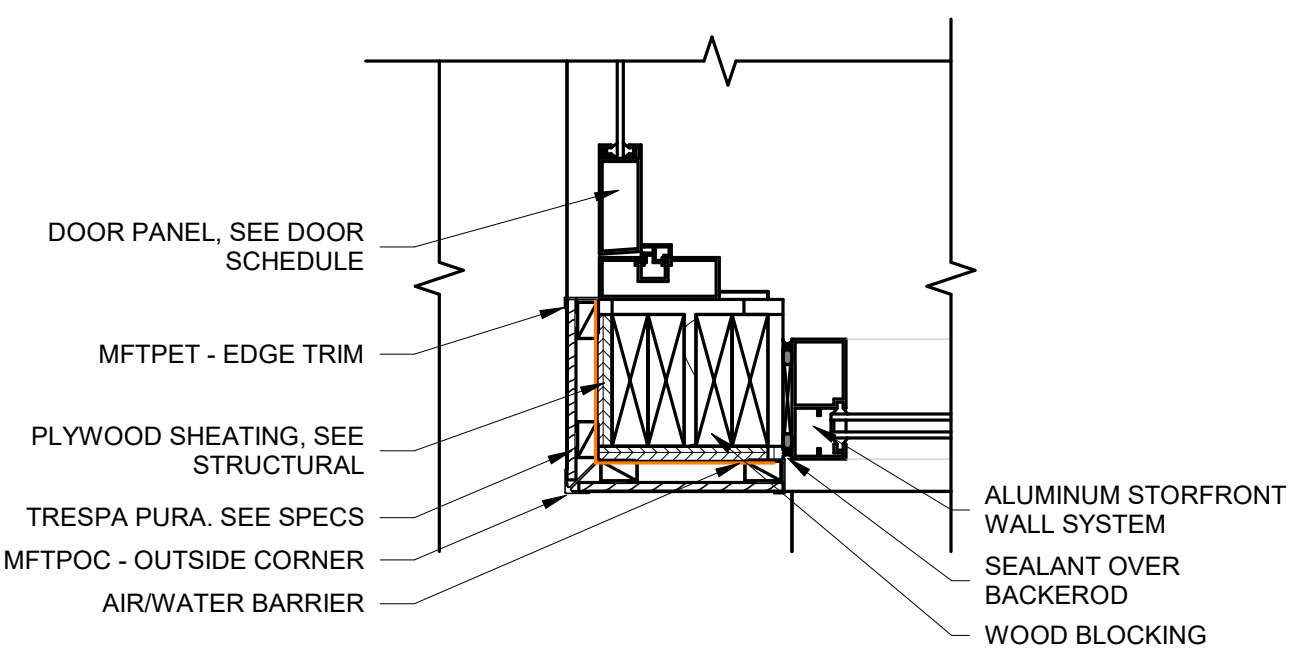


C4 PRINCIPAL 130 - PLAN DETAIL 09
SCALE: 1 1/2" = 1'-0"



C5 ADA RESTROOM 110 - PLAN DETAIL 08
SCALE: 1 1/2" = 1'-0"

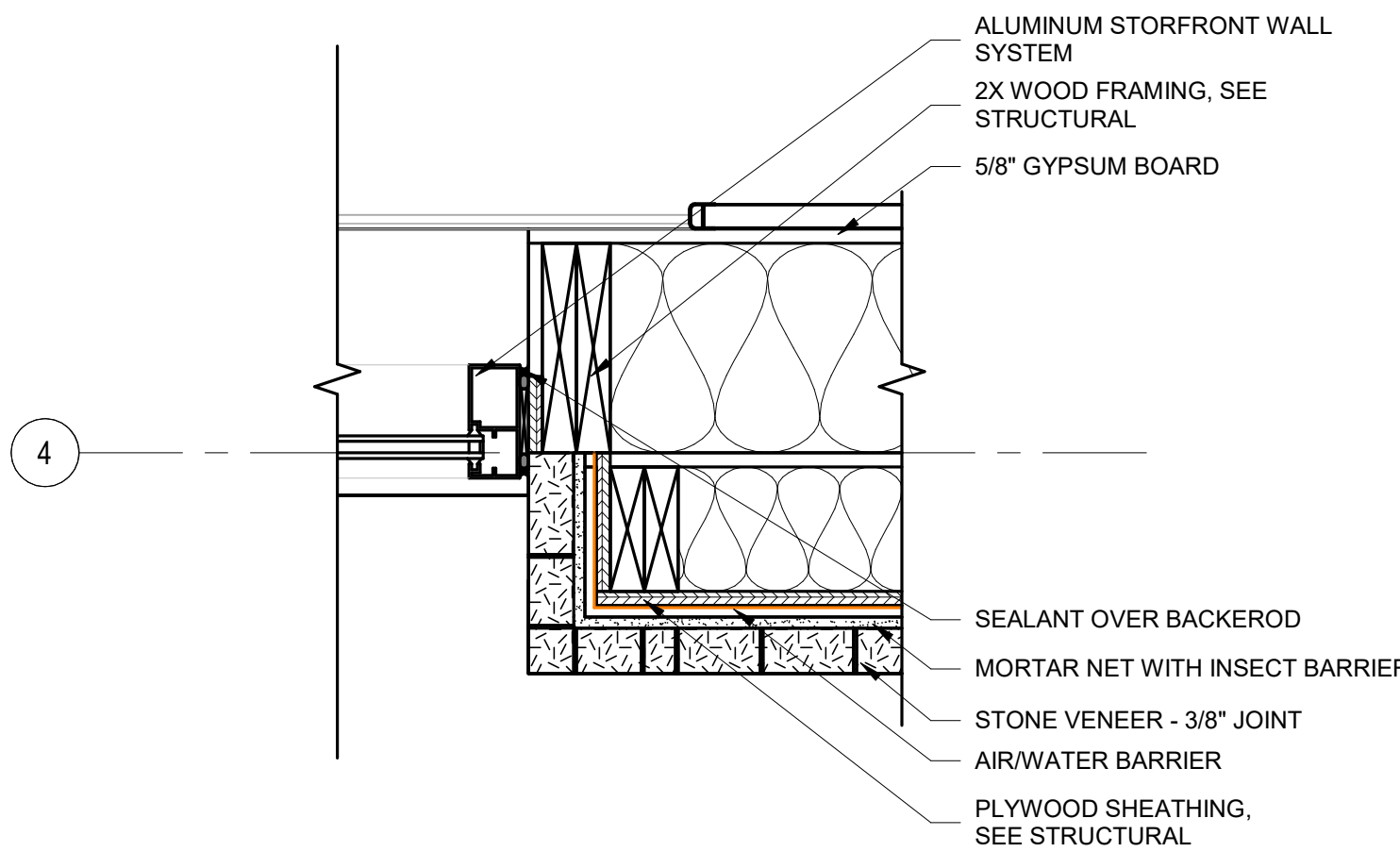
B1 VEST. 103 - PLAN DETAIL 07
SCALE: 1 1/2" = 1'-0"



A2 CLASSROOM 106 - PLAN DETAIL 03
SCALE: 1 1/2" = 1'-0"

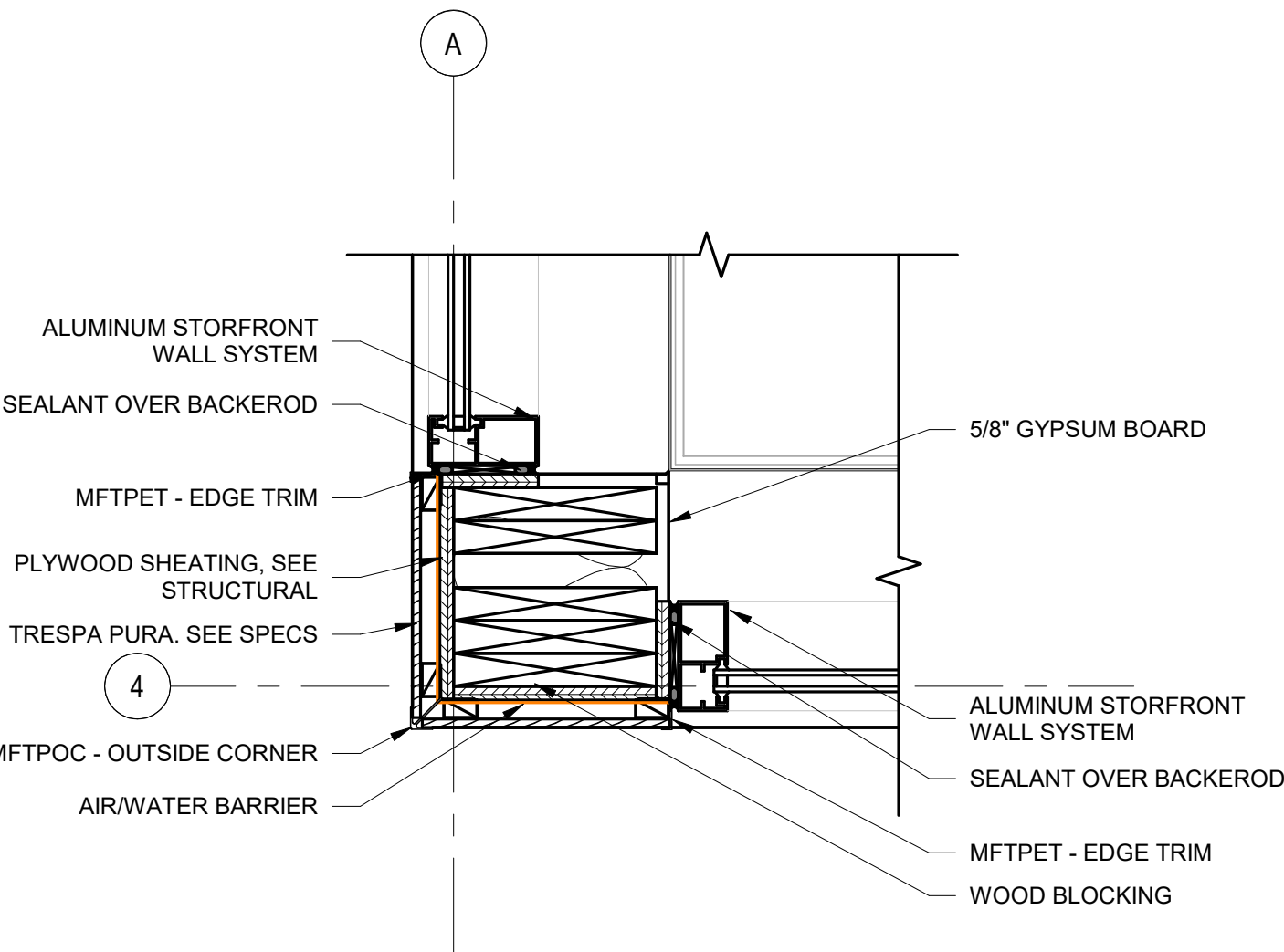
A1 VEST 122 - PLAN DETAIL 04
SCALE: 1 1/2" = 1'-0"

B4 QUIET STUDY 132 - PLAN DETAIL 06
SCALE: 1 1/2" = 1'-0"



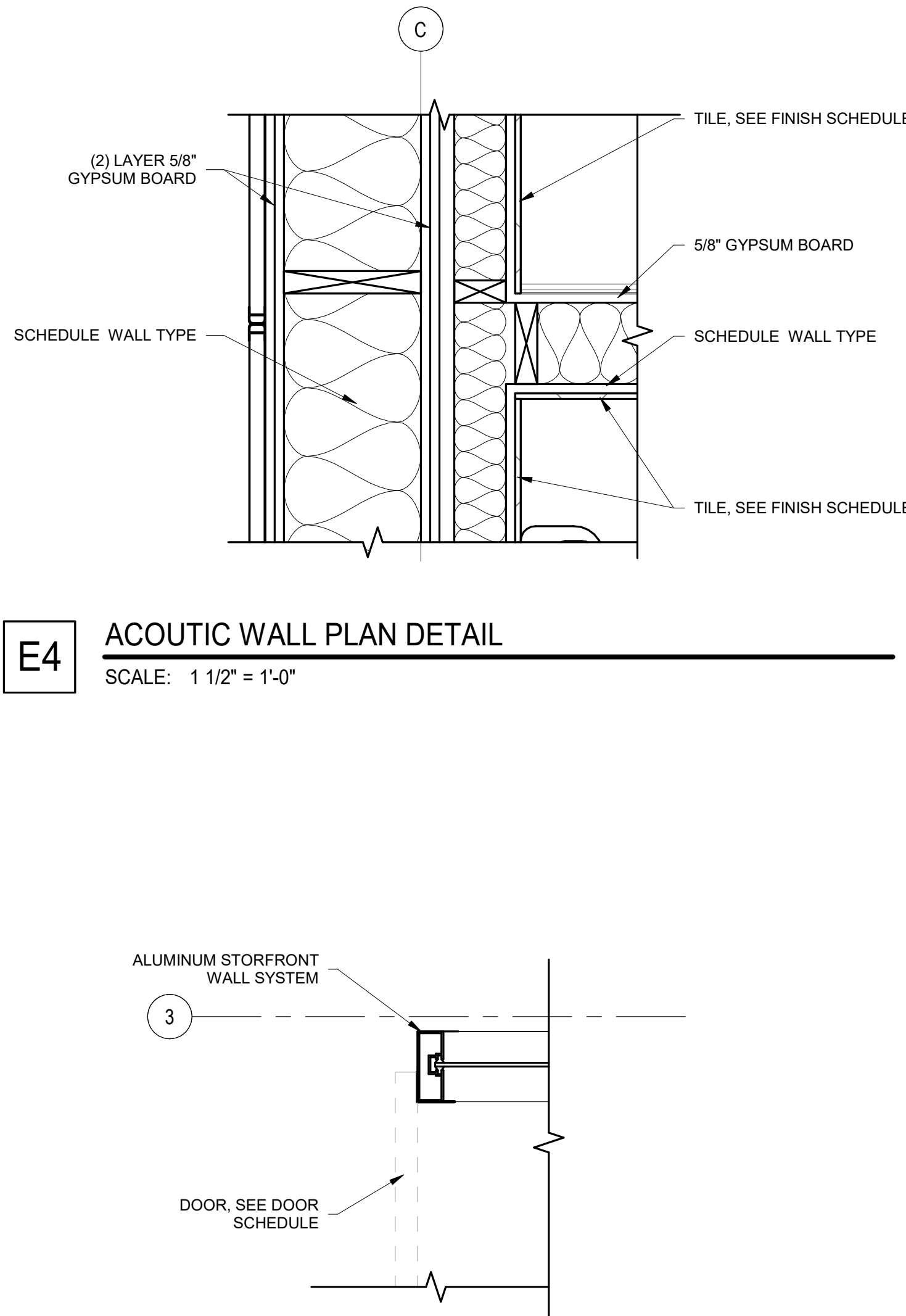
A4 CLASSROOM 106 - PLAN DETAIL 02
SCALE: 1 1/2" = 1'-0"

B5 CUST. 121 - PLAN DETAIL 05
SCALE: 1 1/2" = 1'-0"

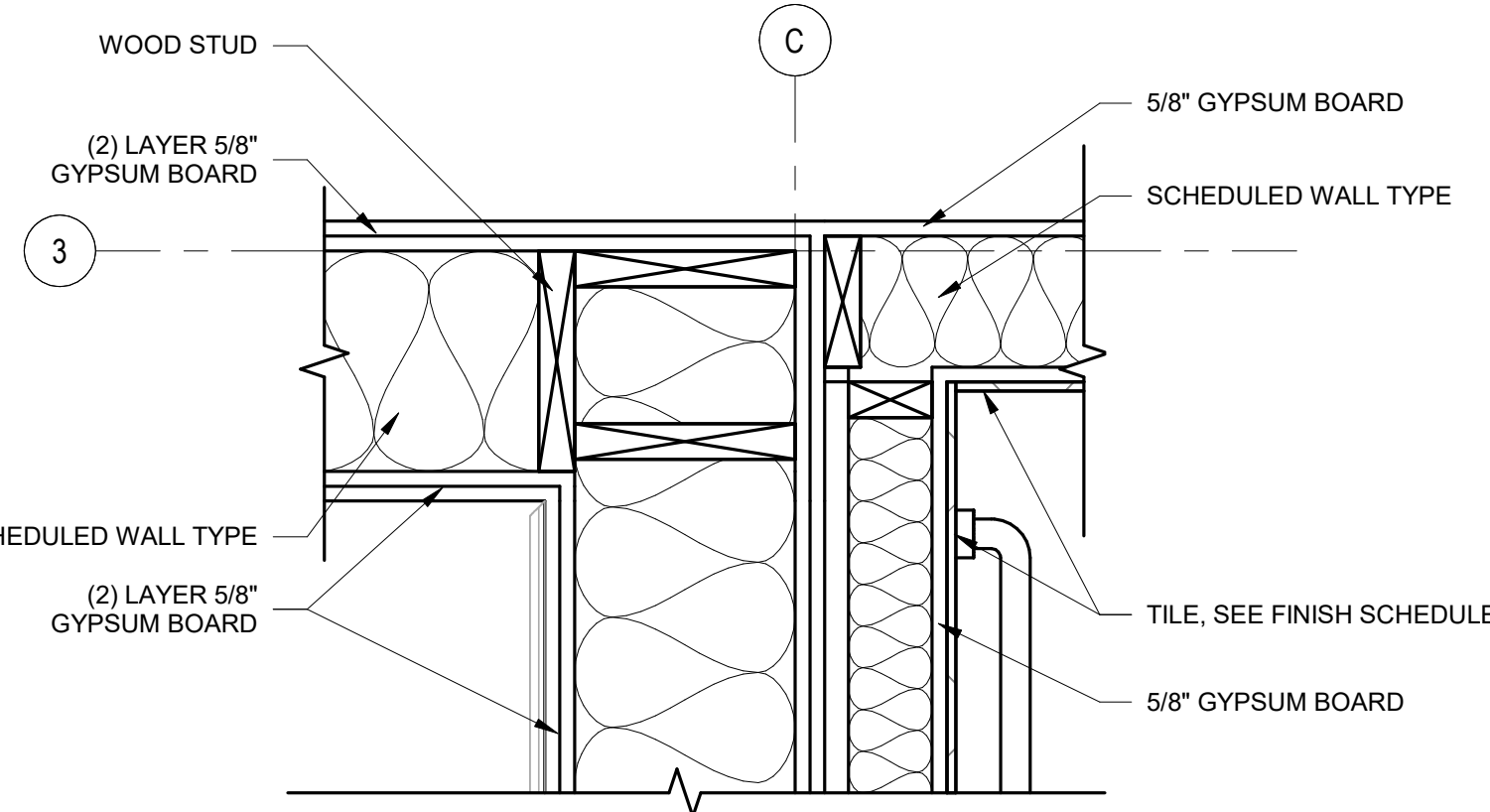


A5 CLASSROOM 106 - PLAN DETAIL 01
SCALE: 1 1/2" = 1'-0"

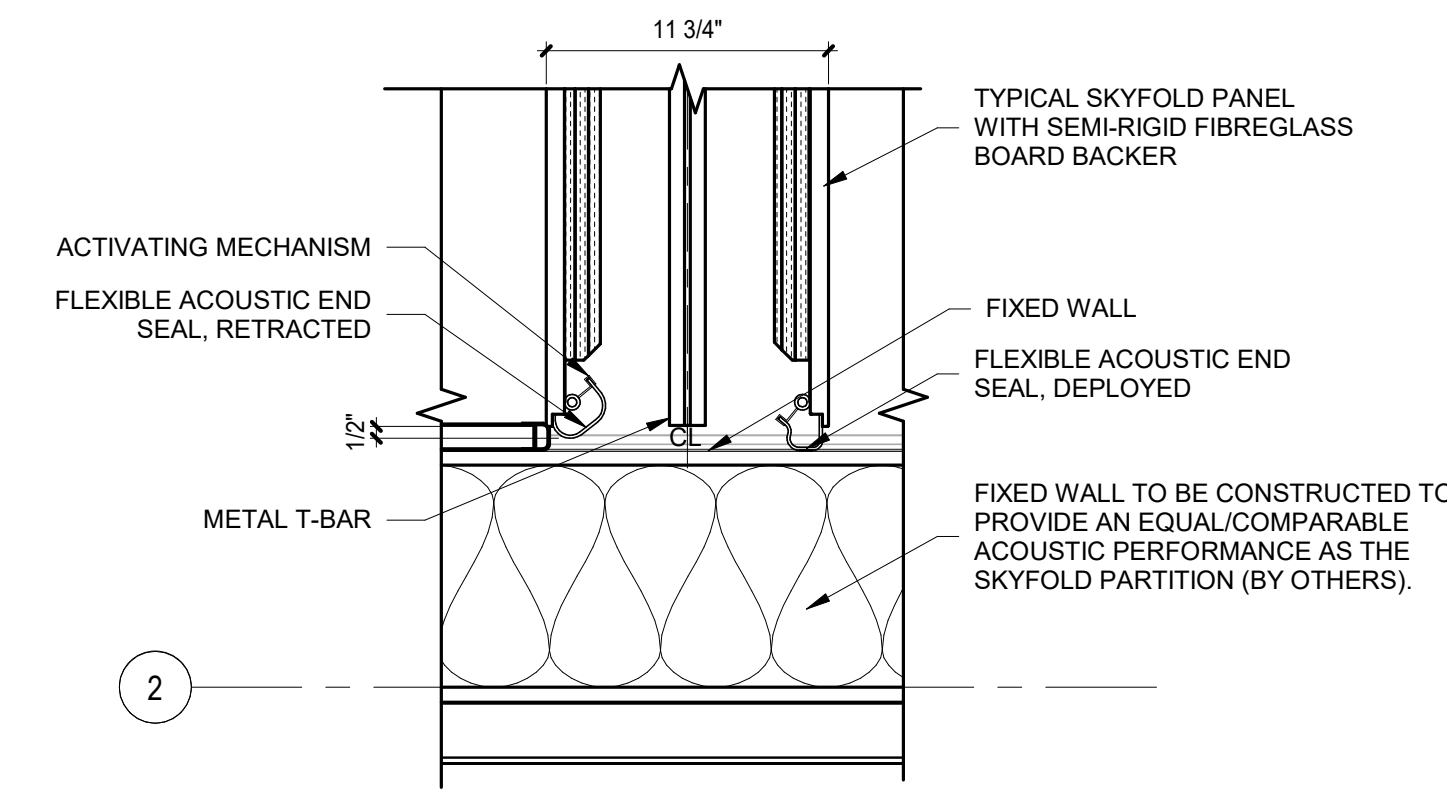
E4 ACOUTIC WALL PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



E5 FOYER/ADMIN. ASSISTANT 104 - PLAN DETAIL 12
SCALE: 1 1/2" = 1'-0"



REFERENCE NOTES

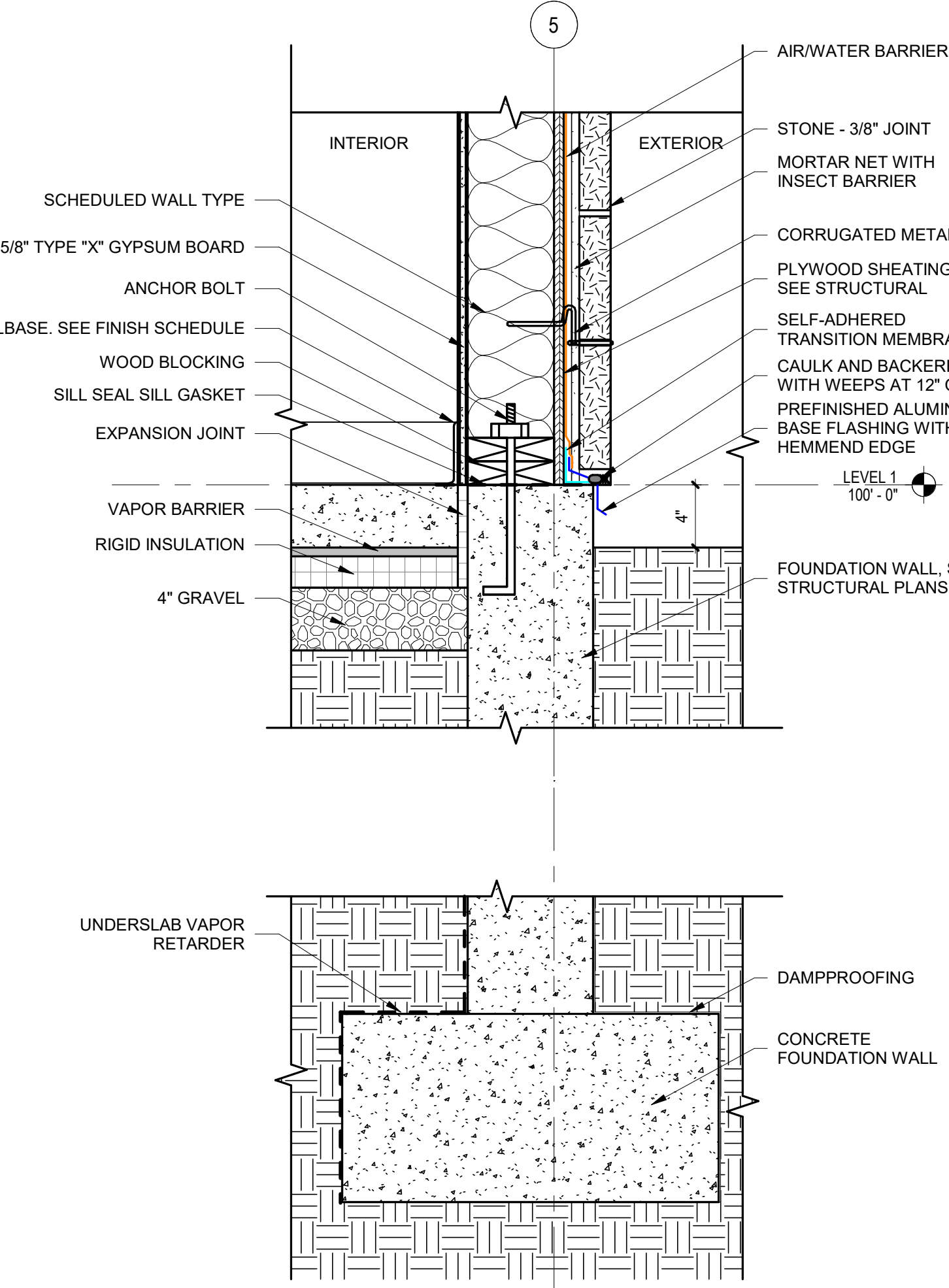


5/09/2024 9:22:36 a.m.

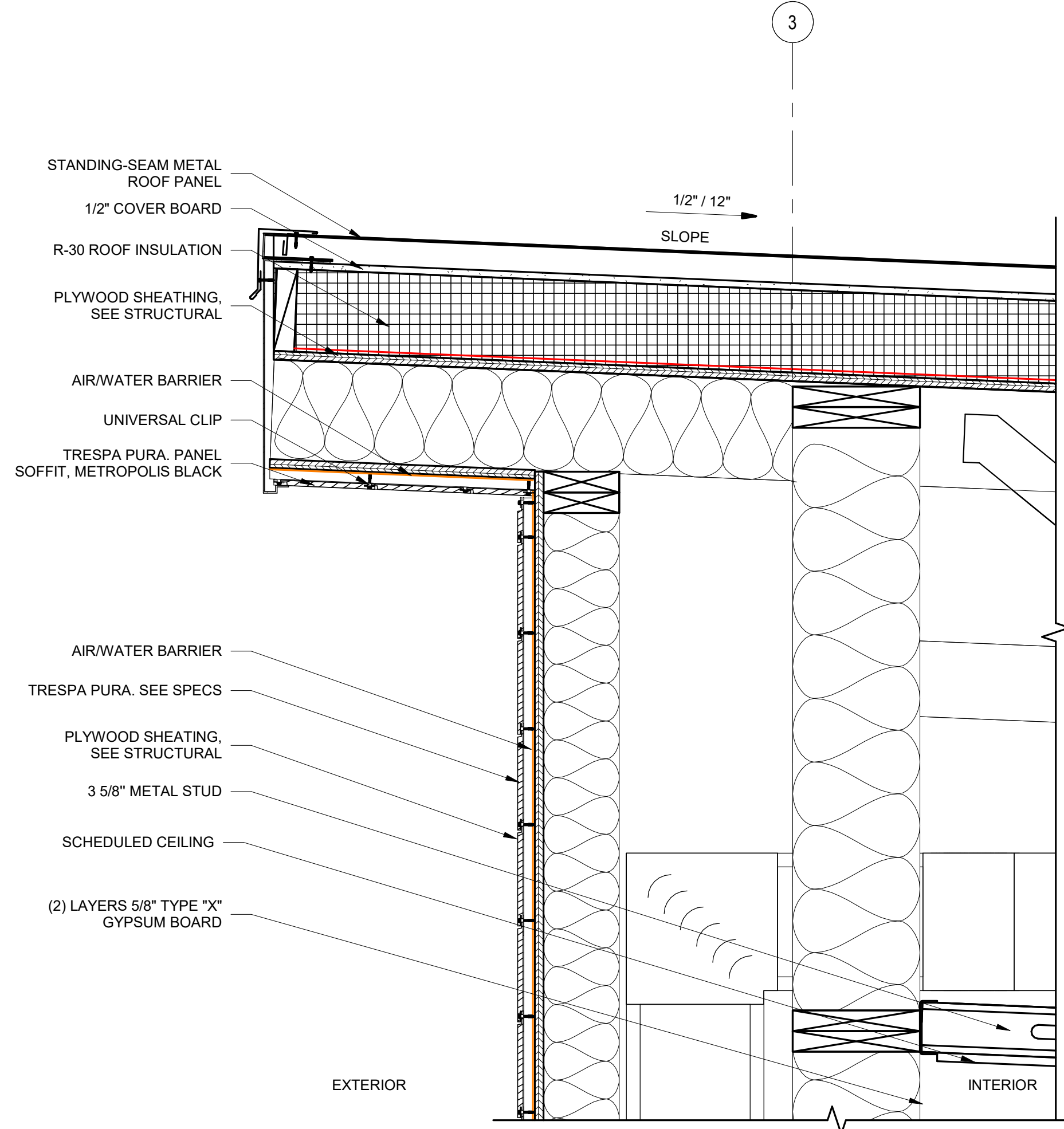
1 2 3 4 5 6

A B C D E

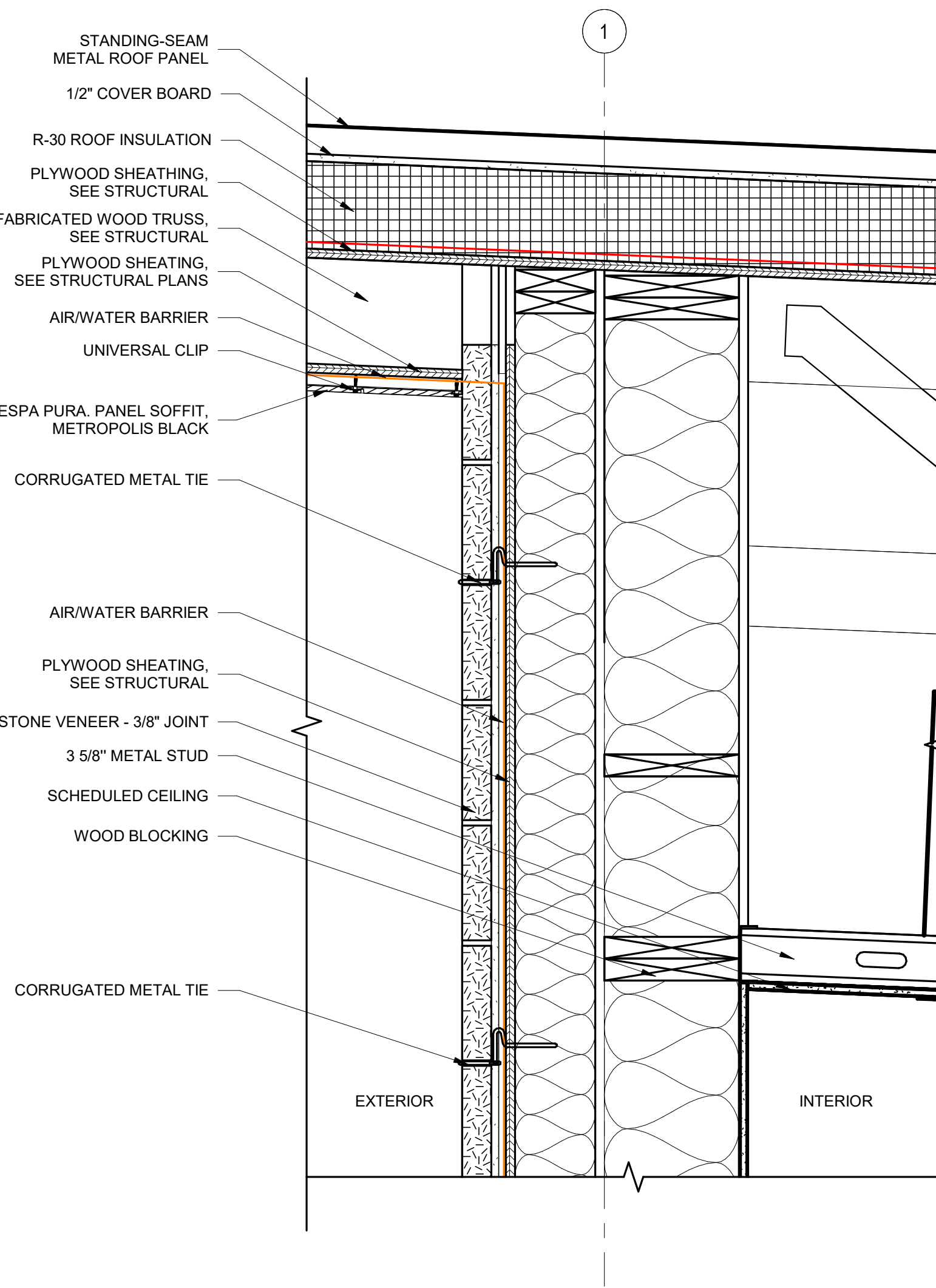
REFERENCE NOTES



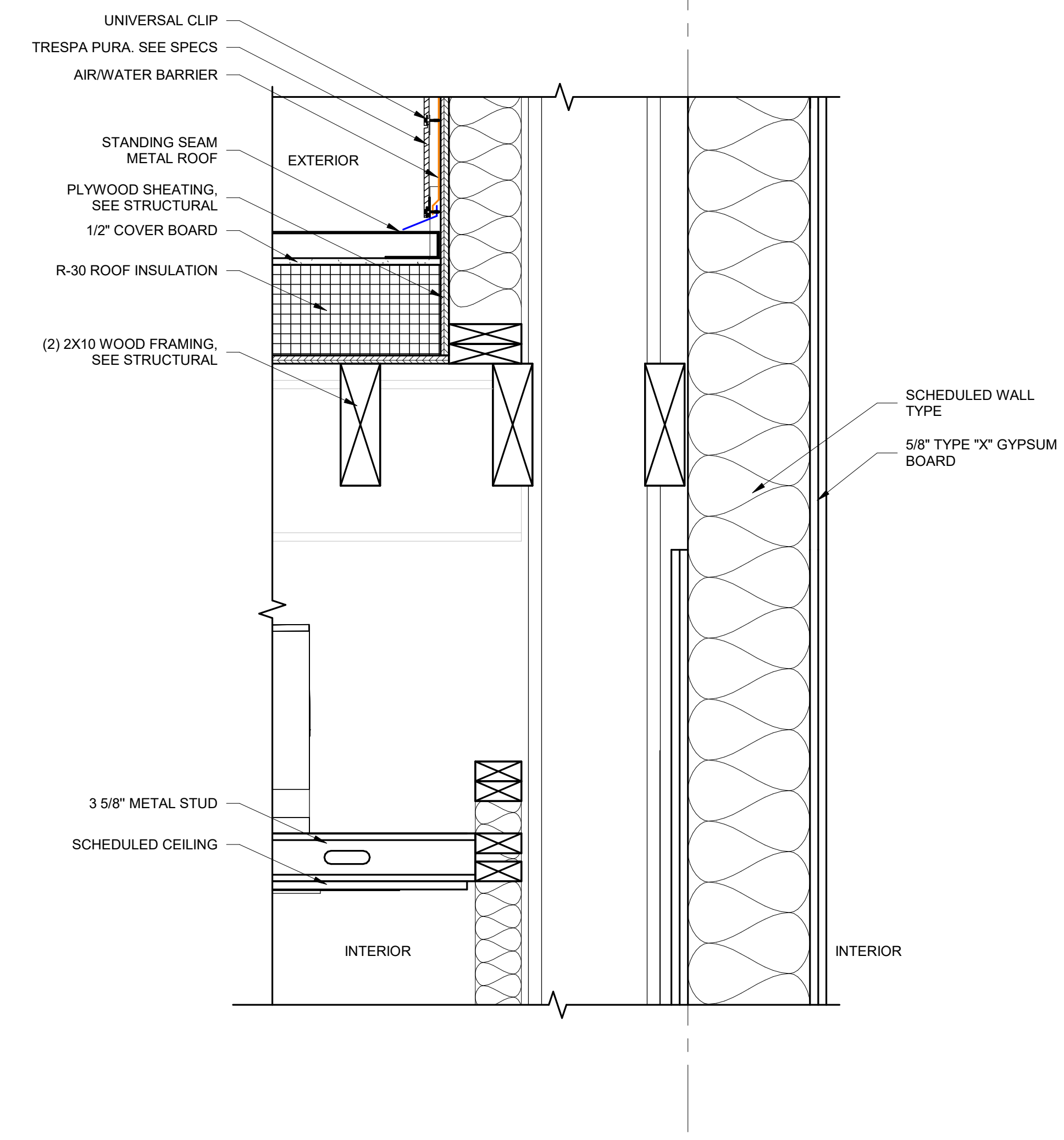
C1 DETAIL 05 @QUIET STUDY 132
SCALE: 1 1/2" = 1'-0"



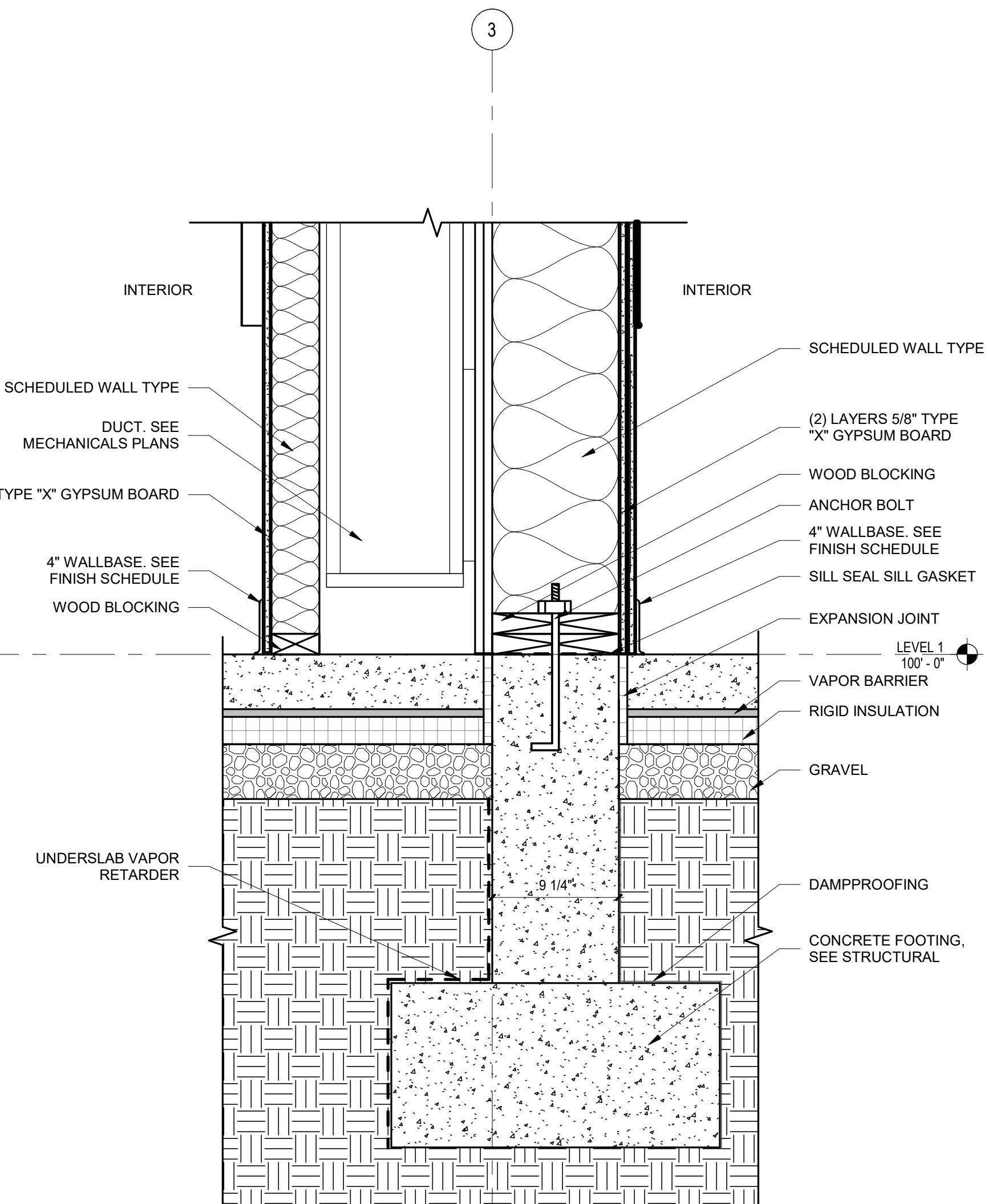
C2 DETAIL 06 @CLASSROOM 106
SCALE: 1 1/2" = 1'-0"



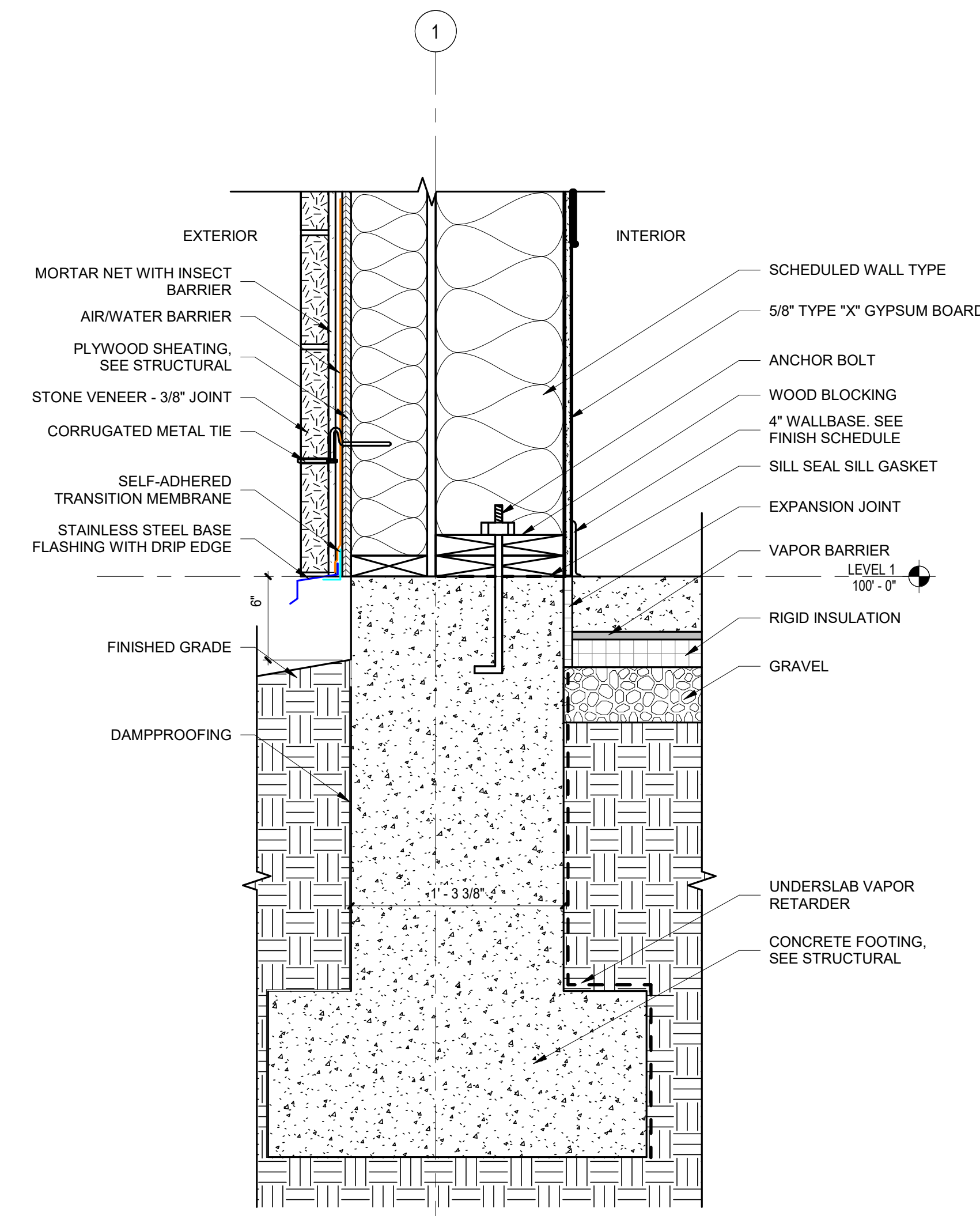
C3 DETAIL 07 @CLASSROOM 101
SCALE: 1 1/2" = 1'-0"



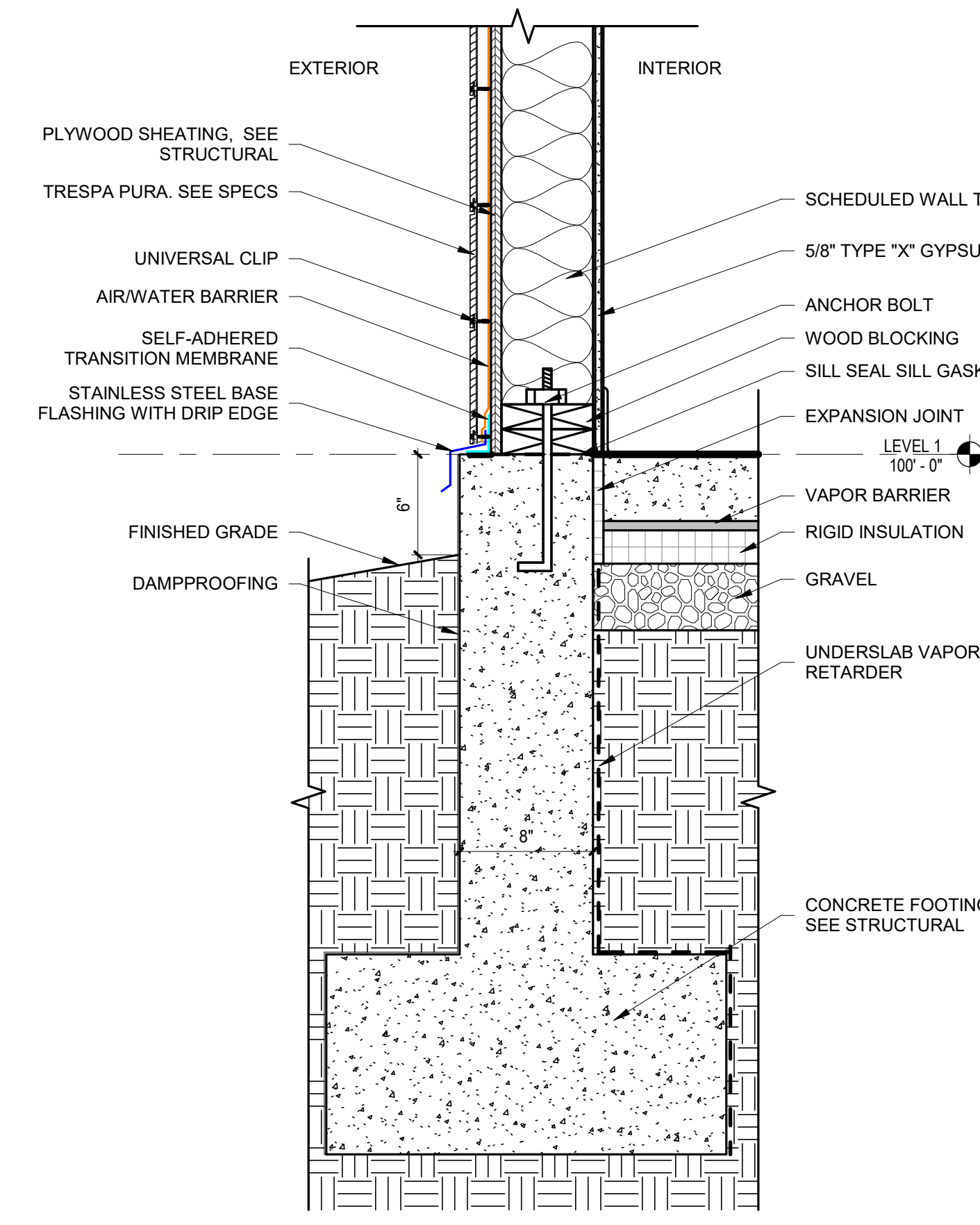
C6 DETAIL 08 @CLASSROOM 106
SCALE: 1 1/2" = 1'-0"



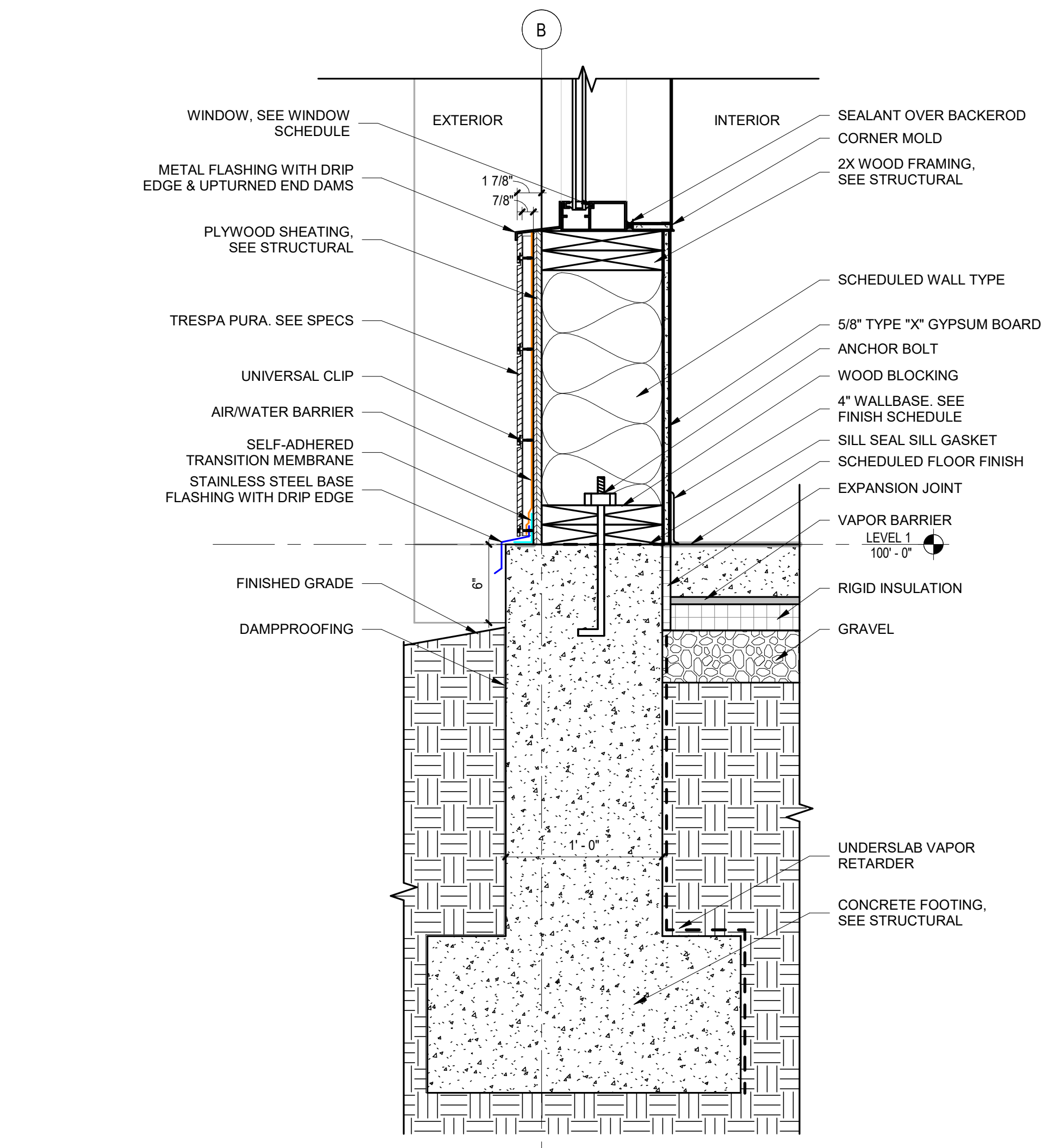
A1 DEATIL 01 @CLASSROOM 106
SCALE: 1 1/2" = 1'-0"



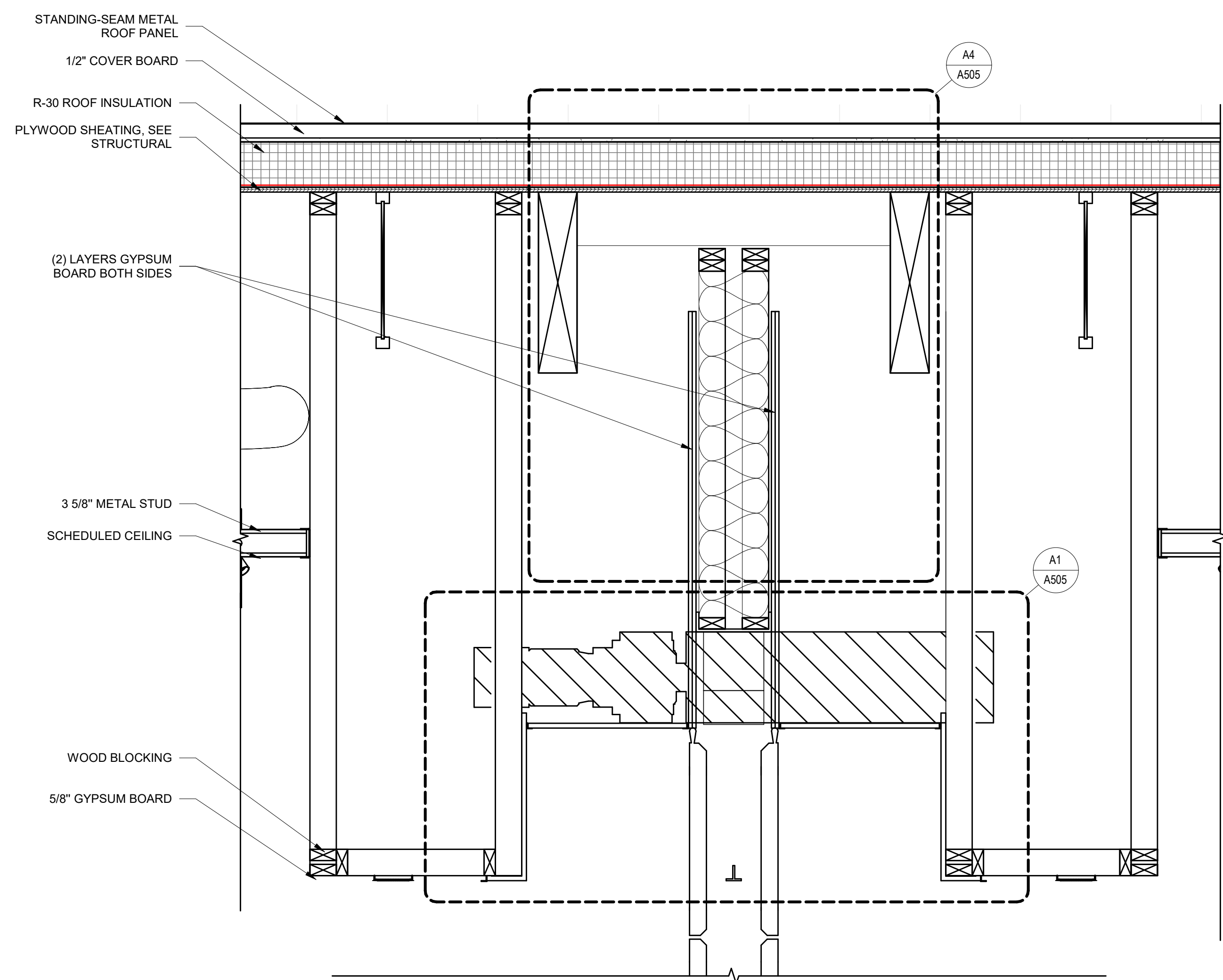
A2 DETAIL 02 @CLASSROOM 101
SCALE: 1 1/2" = 1'-0"



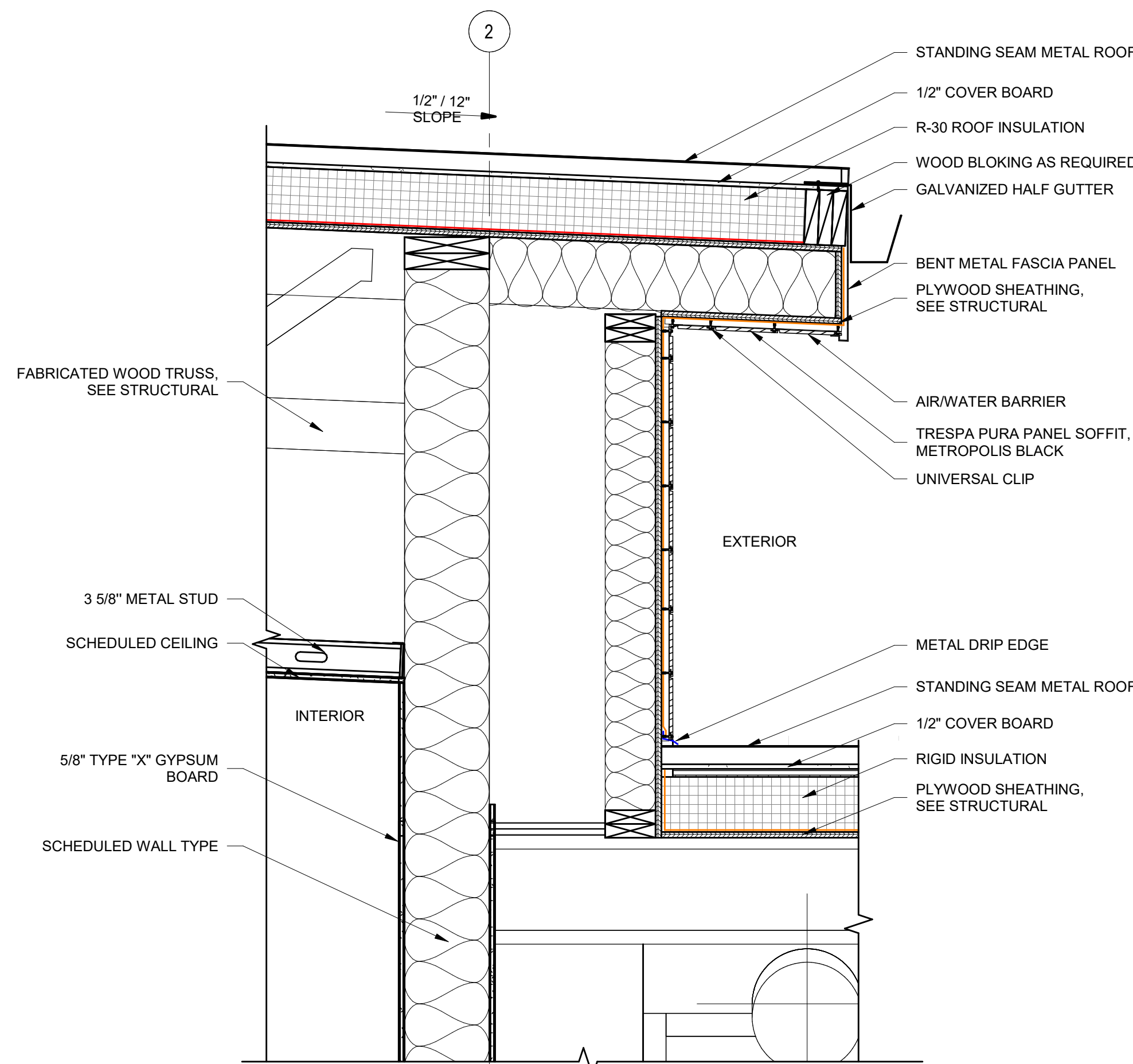
A4 DETAIL 03 @WORKROOM/ KITCHENETTE
SCALE: 1 1/2" = 1'-0"



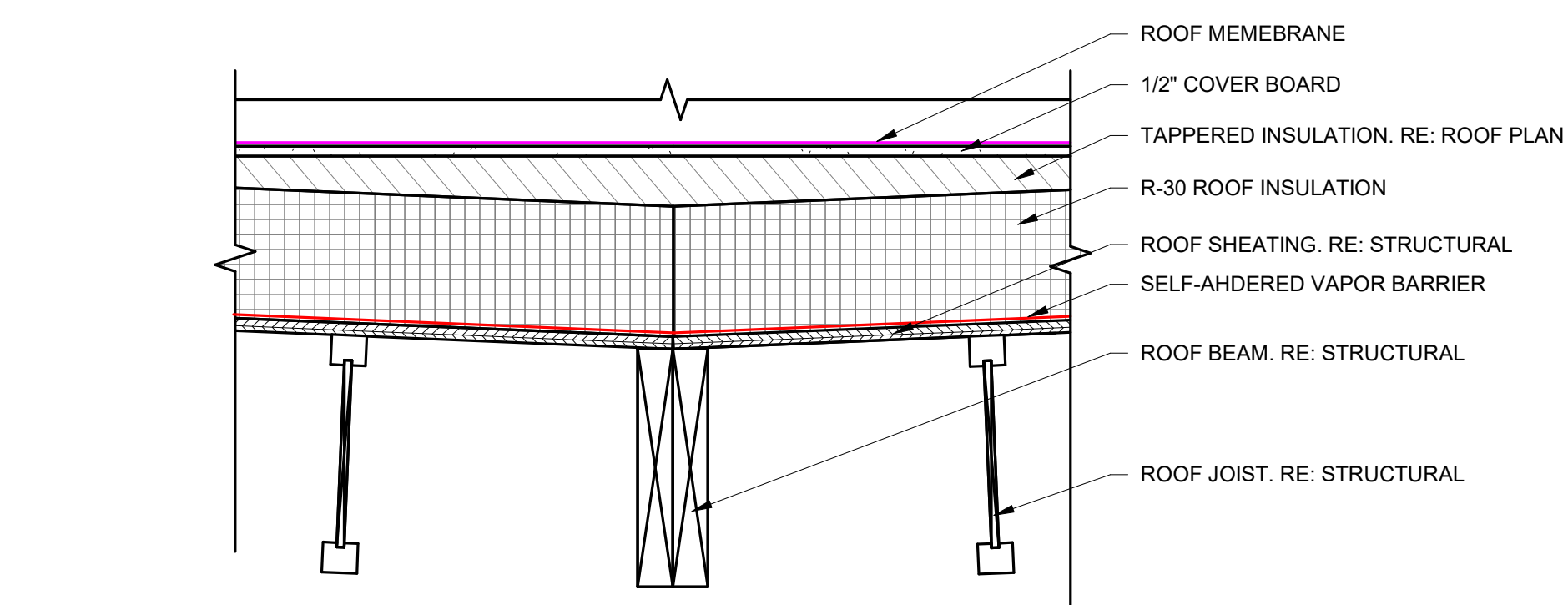
A6 DETAIL 04 @CLASSROOM 101
SCALE: 1 1/2" = 1'-0"



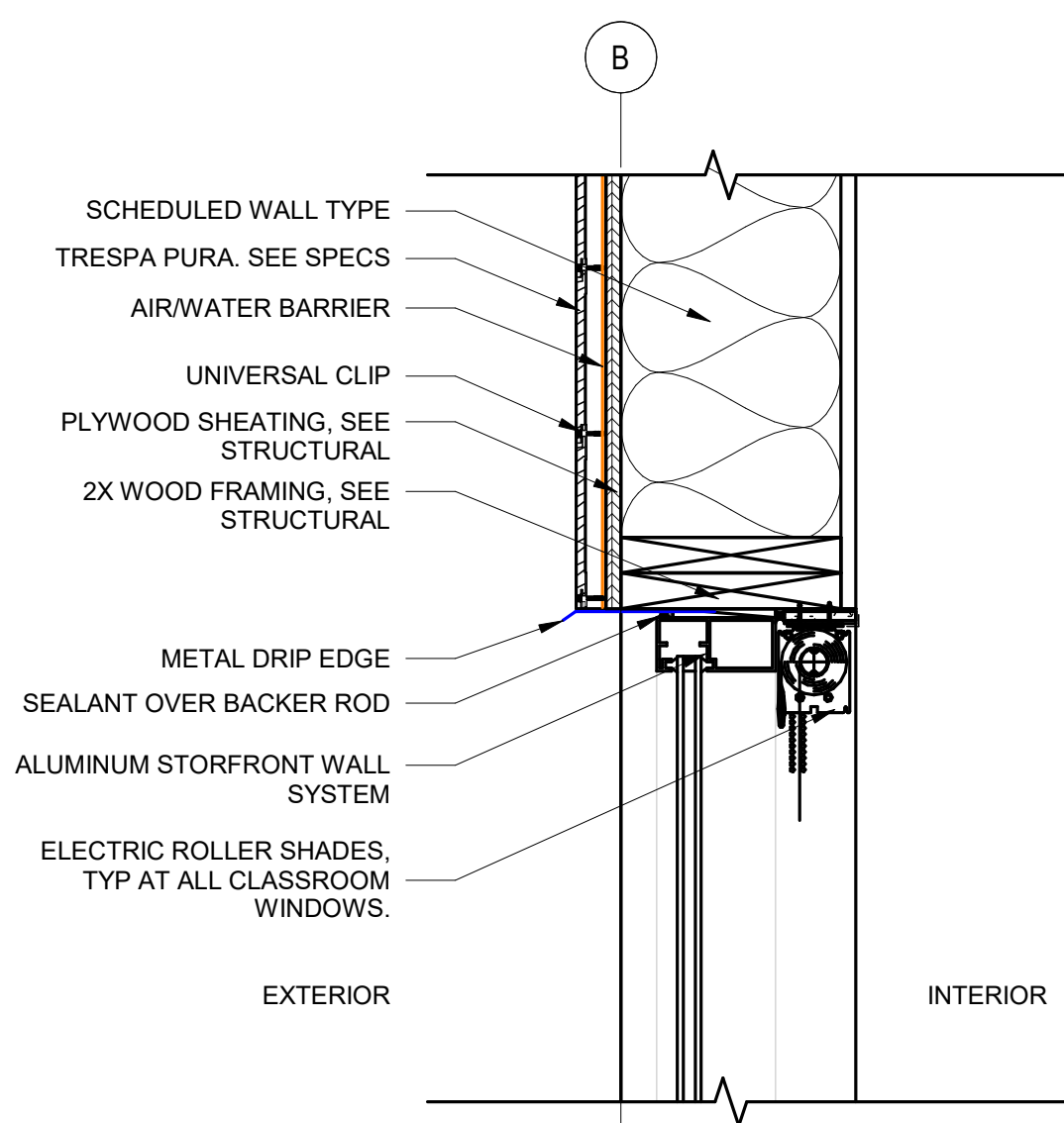
C1 DETAIL 05 @CLASSROOM 101 / CLASSROOM 102
SCALE: 1" = 1'-0"



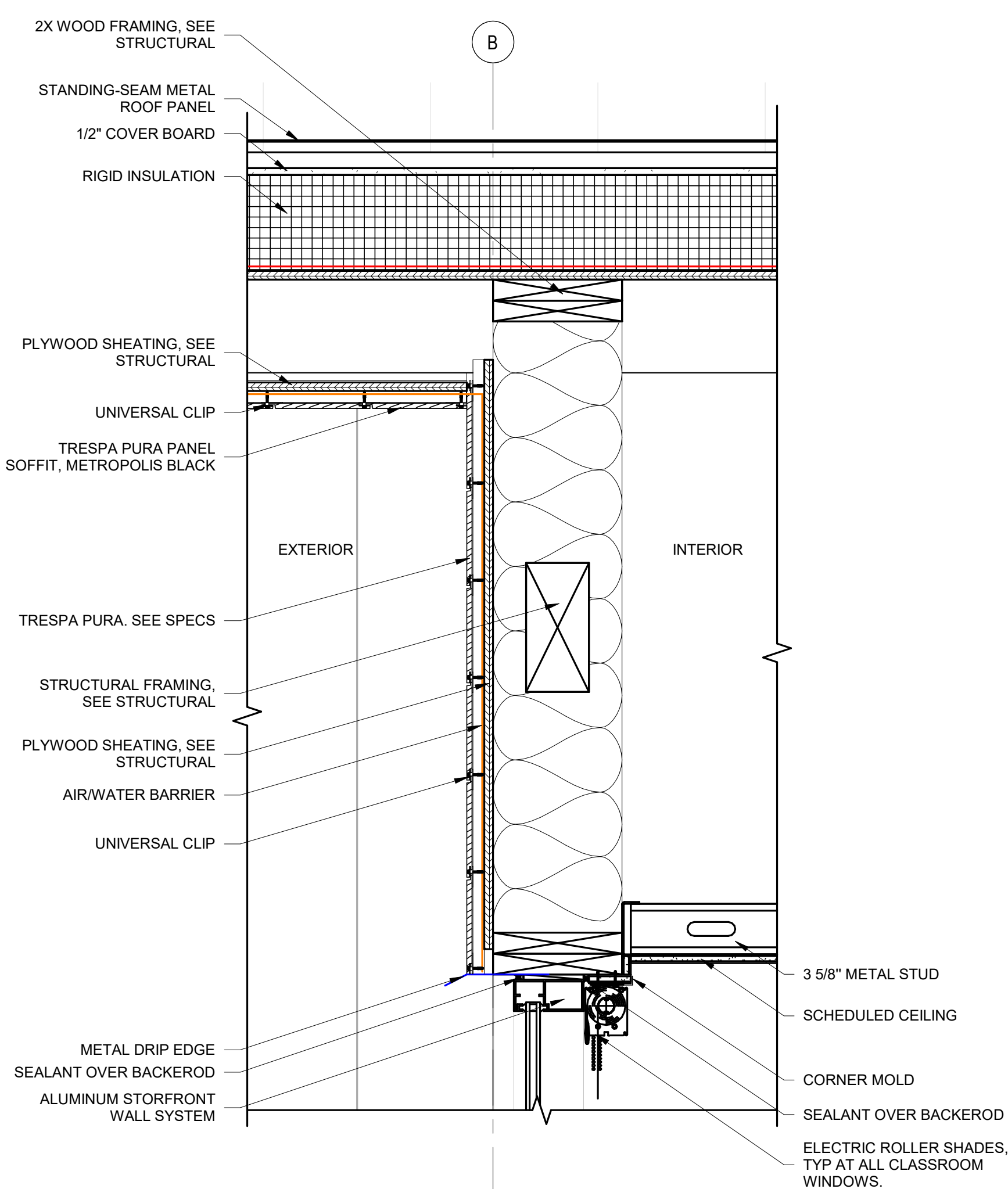
C3 ROOF DETAIL 4
SCALE: 1" = 1'-0"



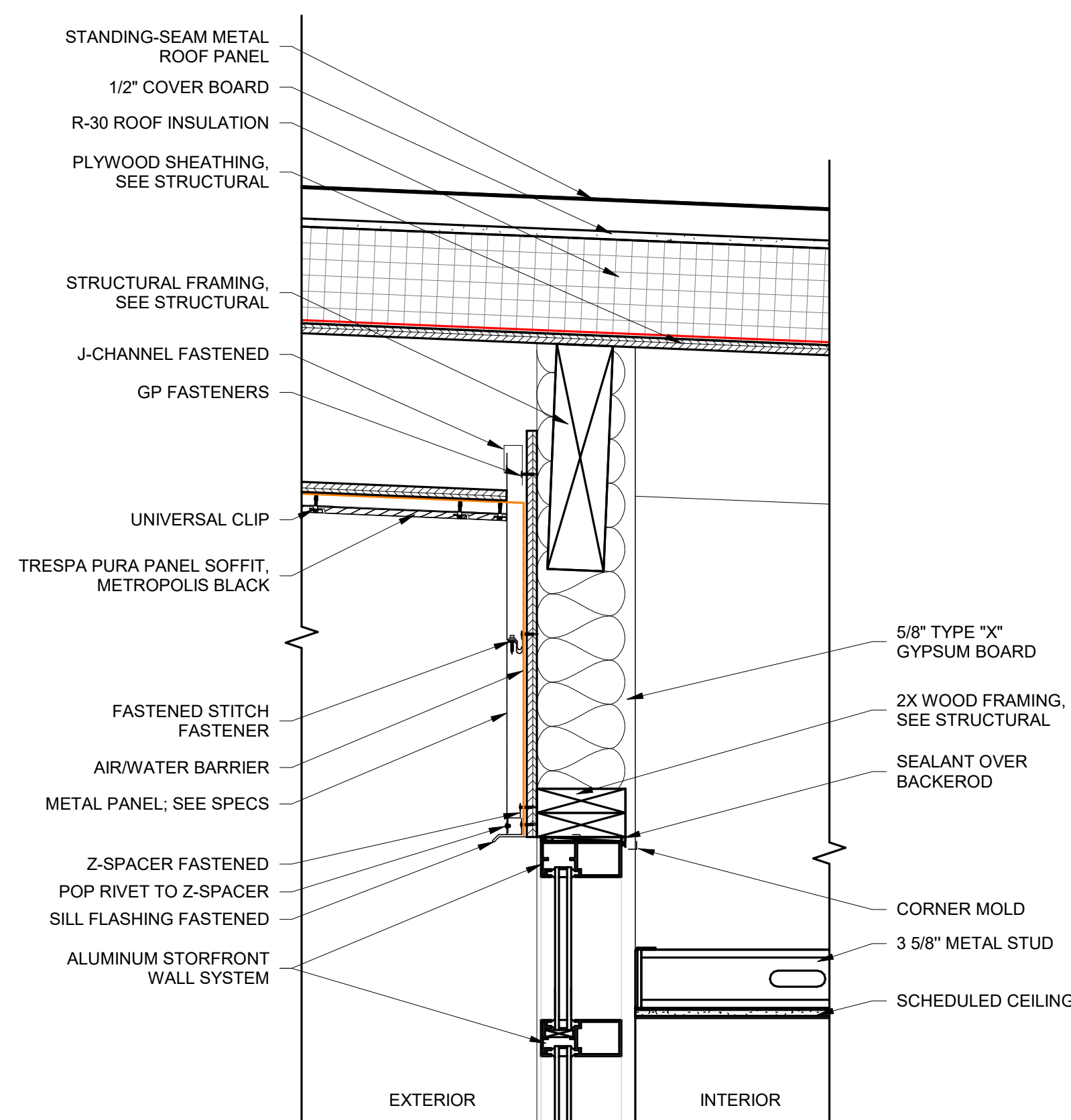
D5 VALLEY DETAIL
SCALE: 1 1/2" = 1'-0"



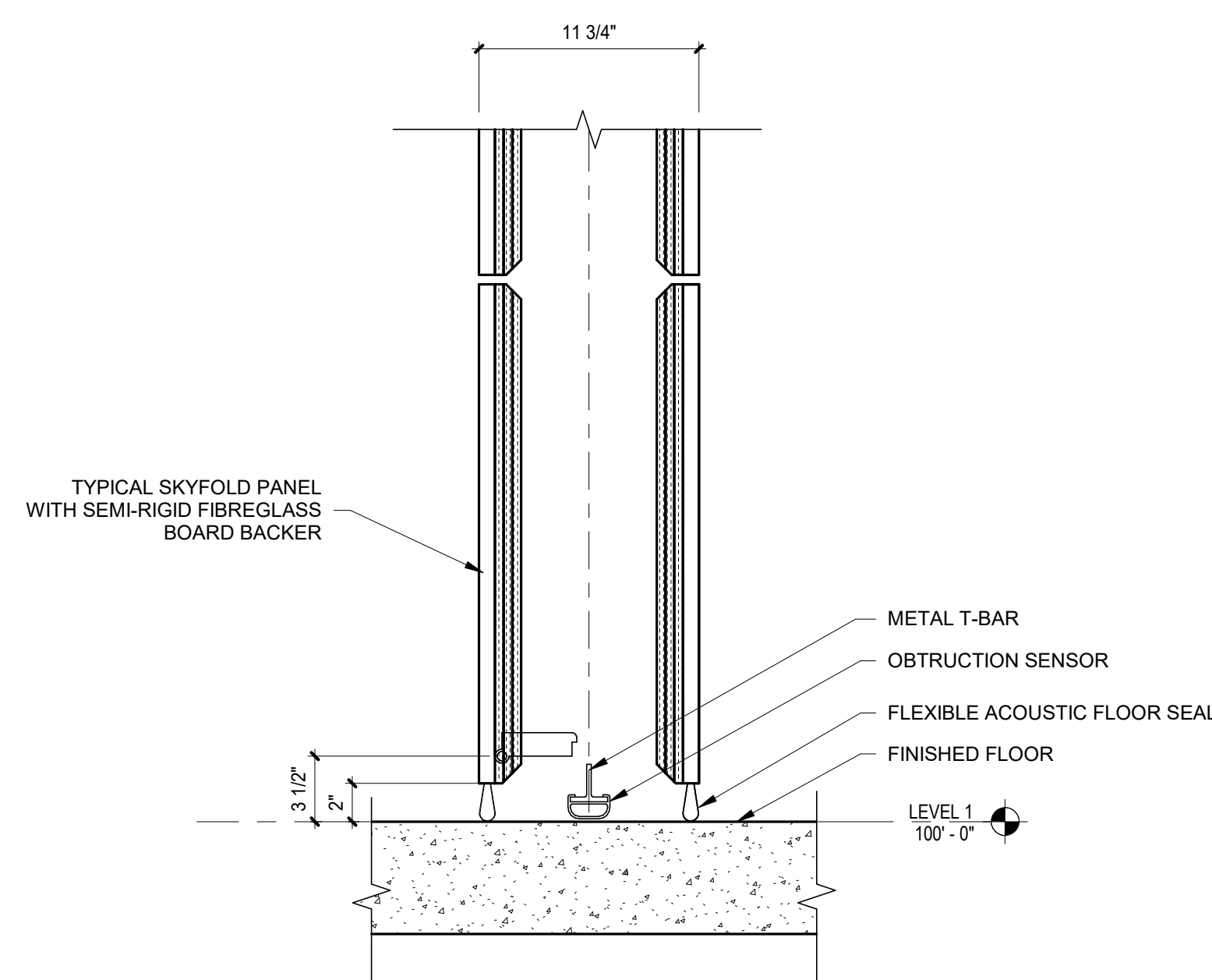
B5 DETAIL 06 @CLASSROOM 101
SCALE: 1 1/2" = 1'-0"



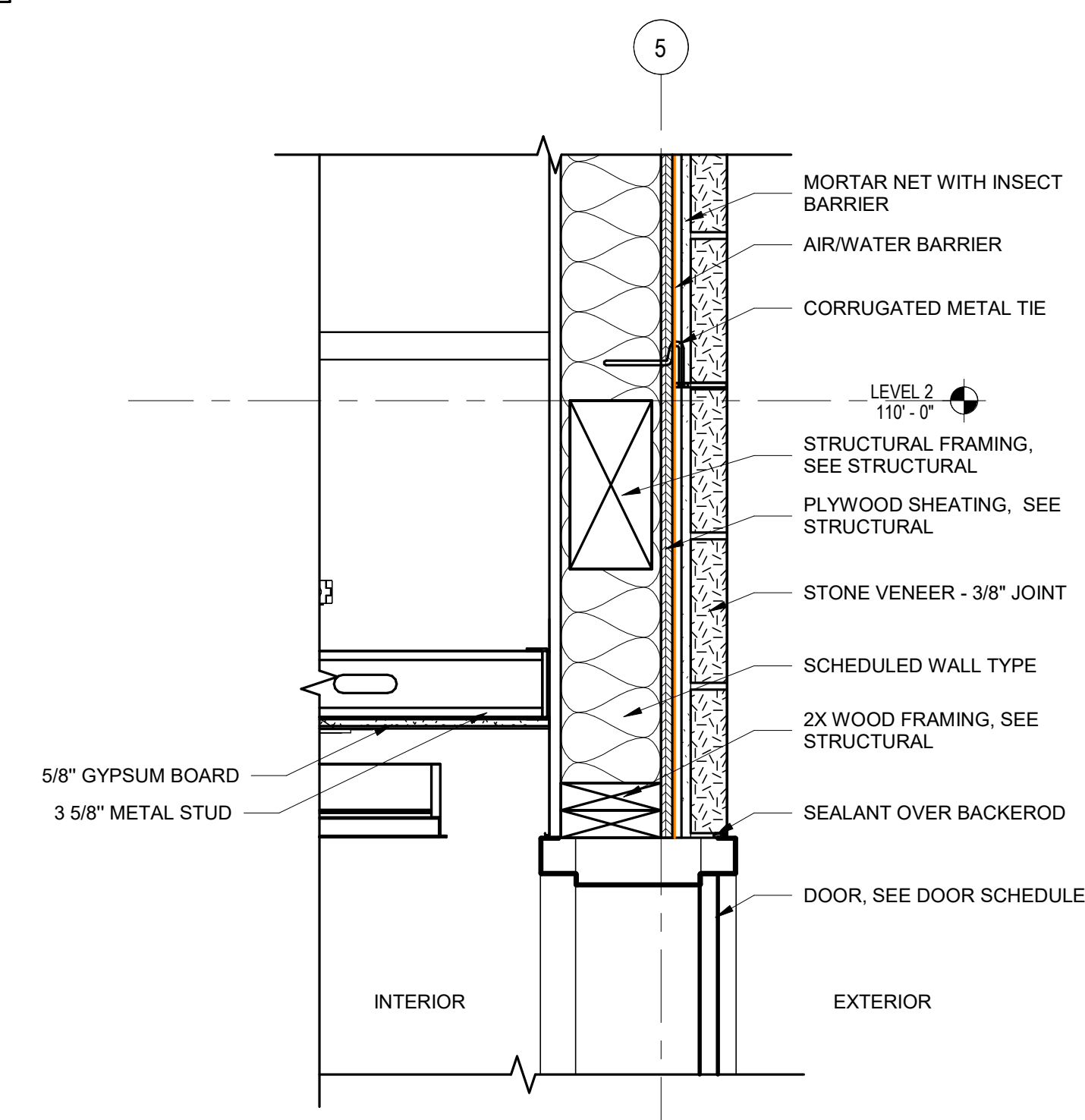
A1 DETAIL 01 @CLASSROOM 101
SCALE: 1 1/2" = 1'-0"



A2 DETAIL 02 @VEST. 103
SCALE: 1 1/2" = 1'-0"

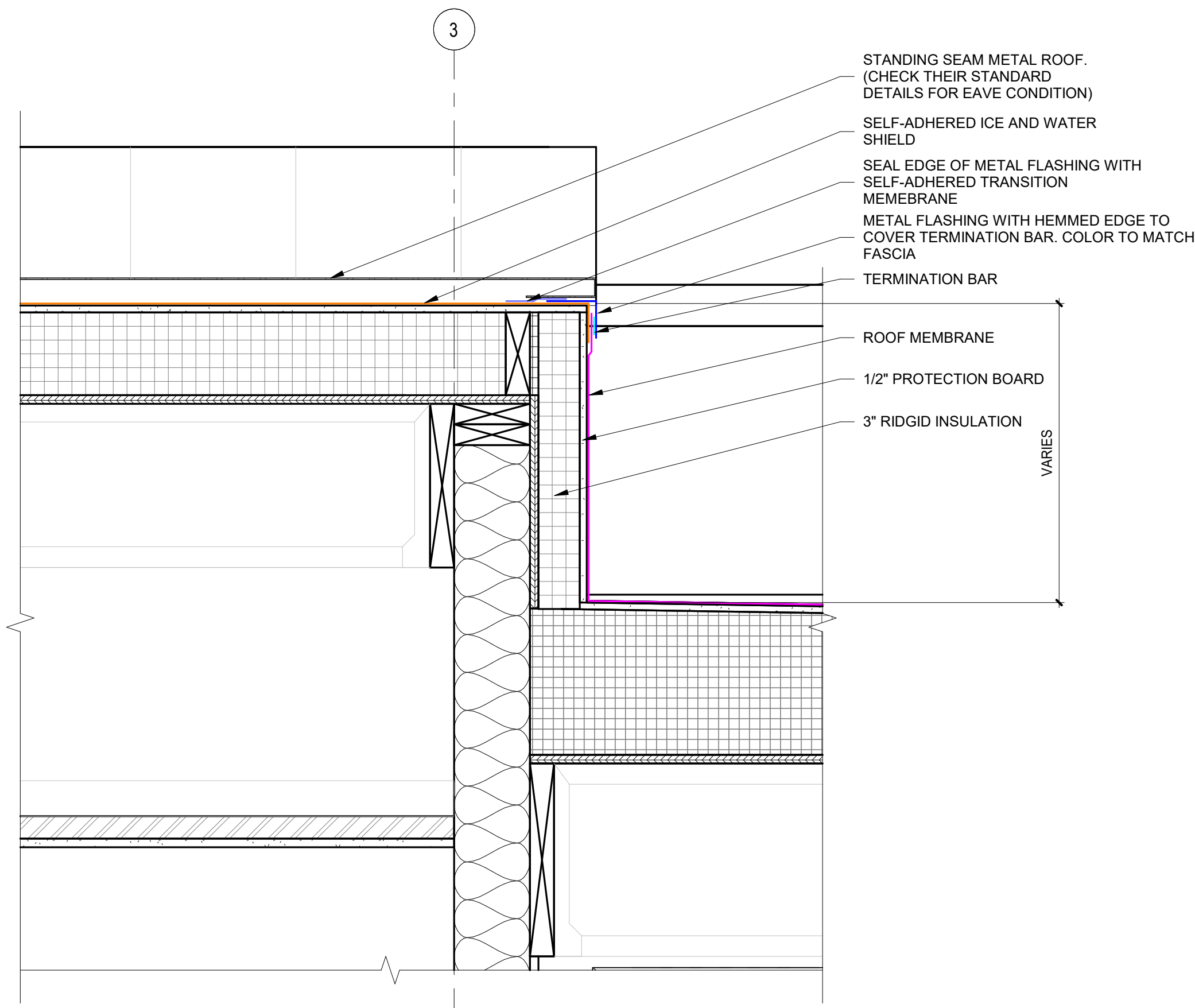


A4 DETAIL 03 @CLASSROOM 101 / CLASSROOM 102
SCALE: 1 1/2" = 1'-0"



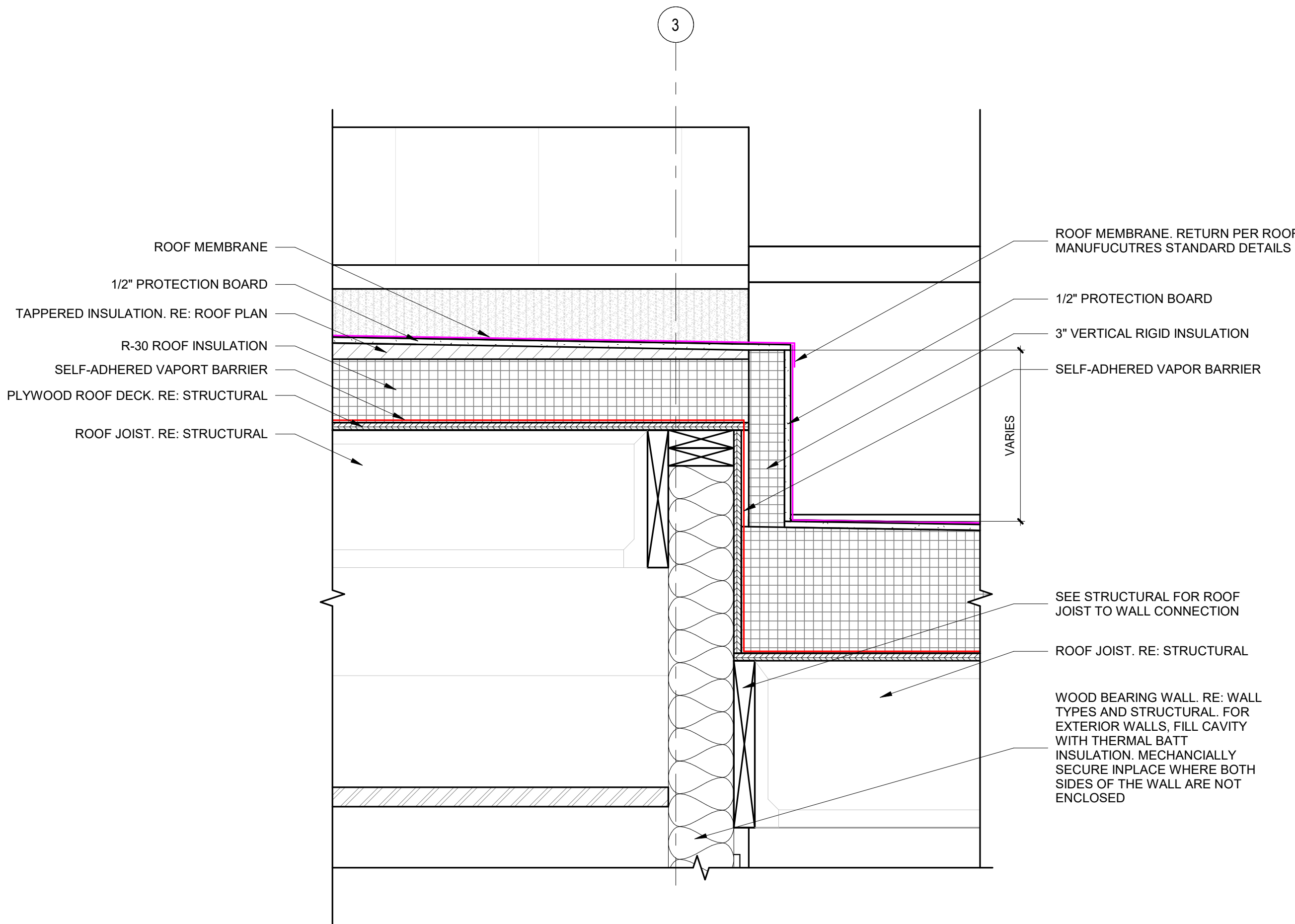
A5 DETAIL 04 @QUIET STUDY 132
SCALE: 1 1/2" = 1'-0"

5/09/2024 9:22:39 a.m.



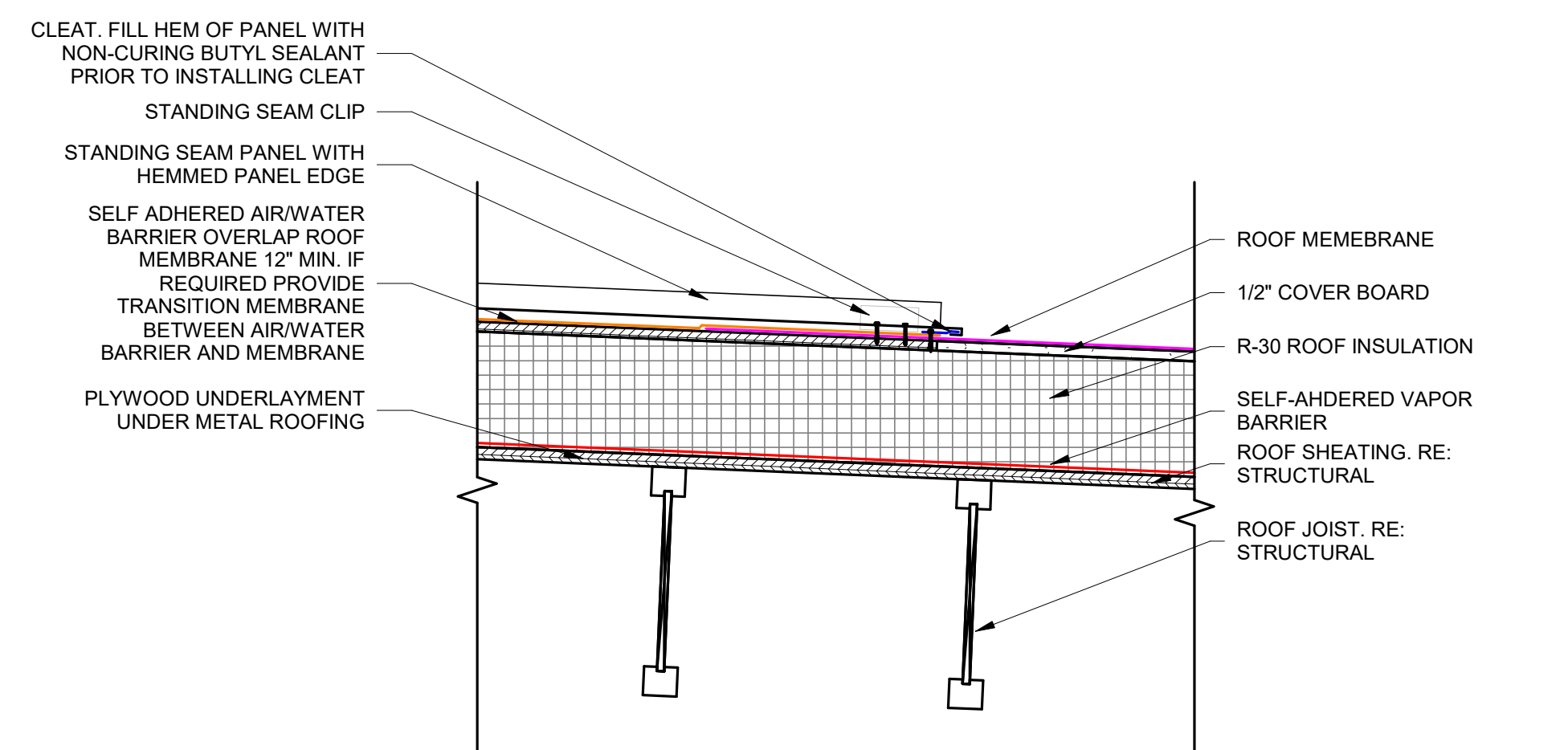
D1 ROOF DETAIL 04

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



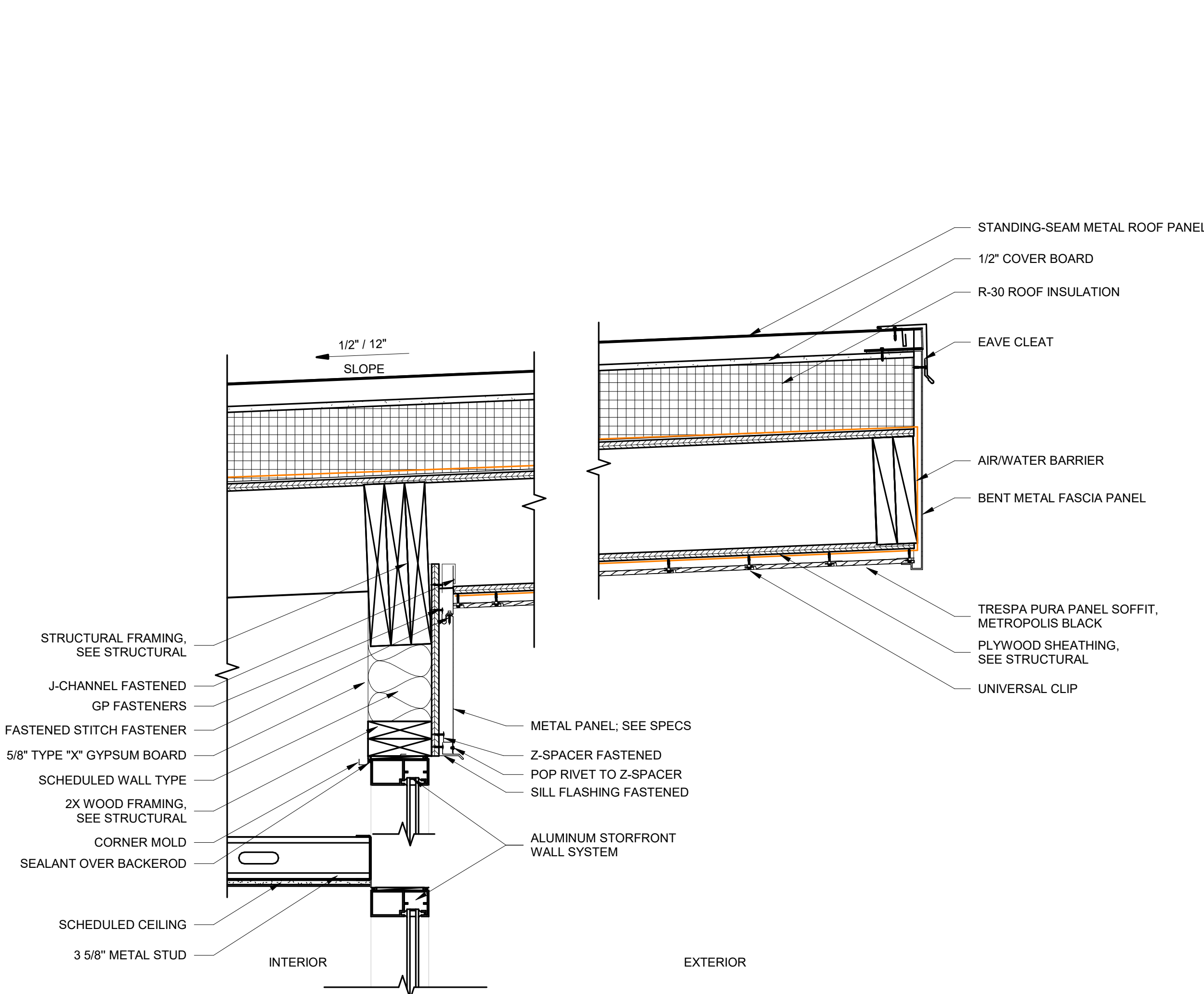
D4 ROOF TRANSITION DETAIL

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



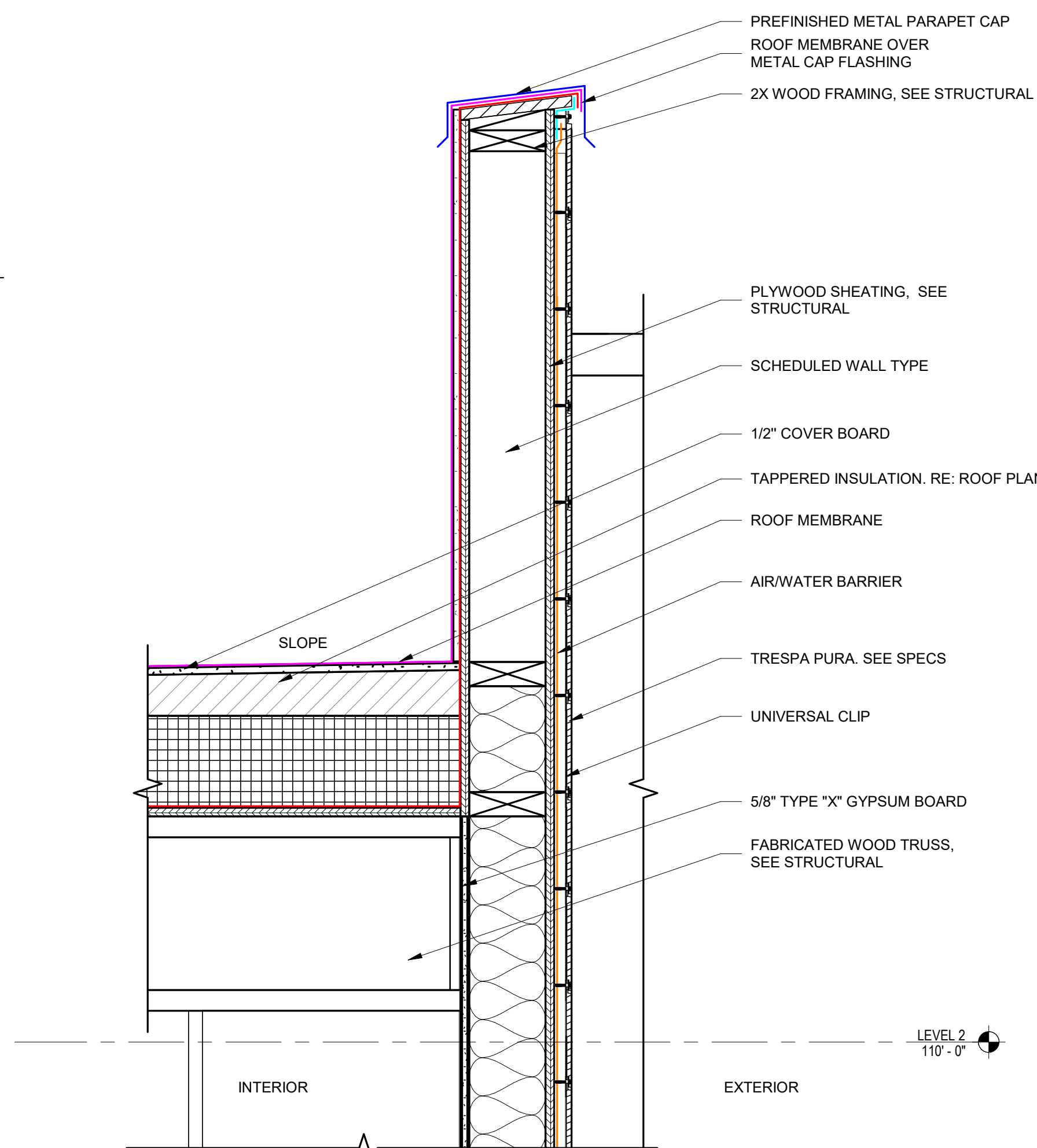
D5 ROOF TRANSITION DETAIL

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



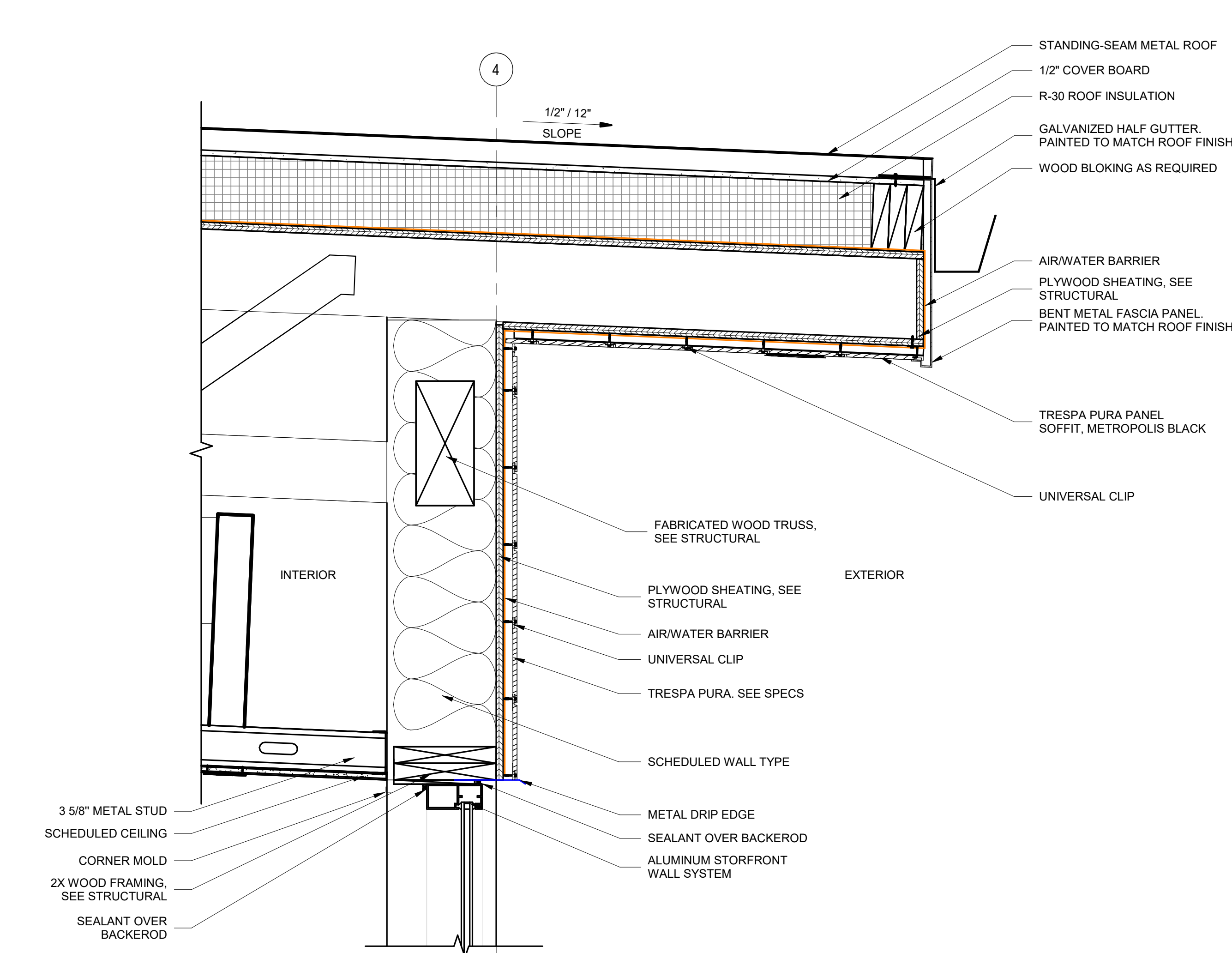
A1 ROOF DETAIL 01

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



A3 ROOF DETAIL 02

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



A5 ROOF DETAIL 03

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

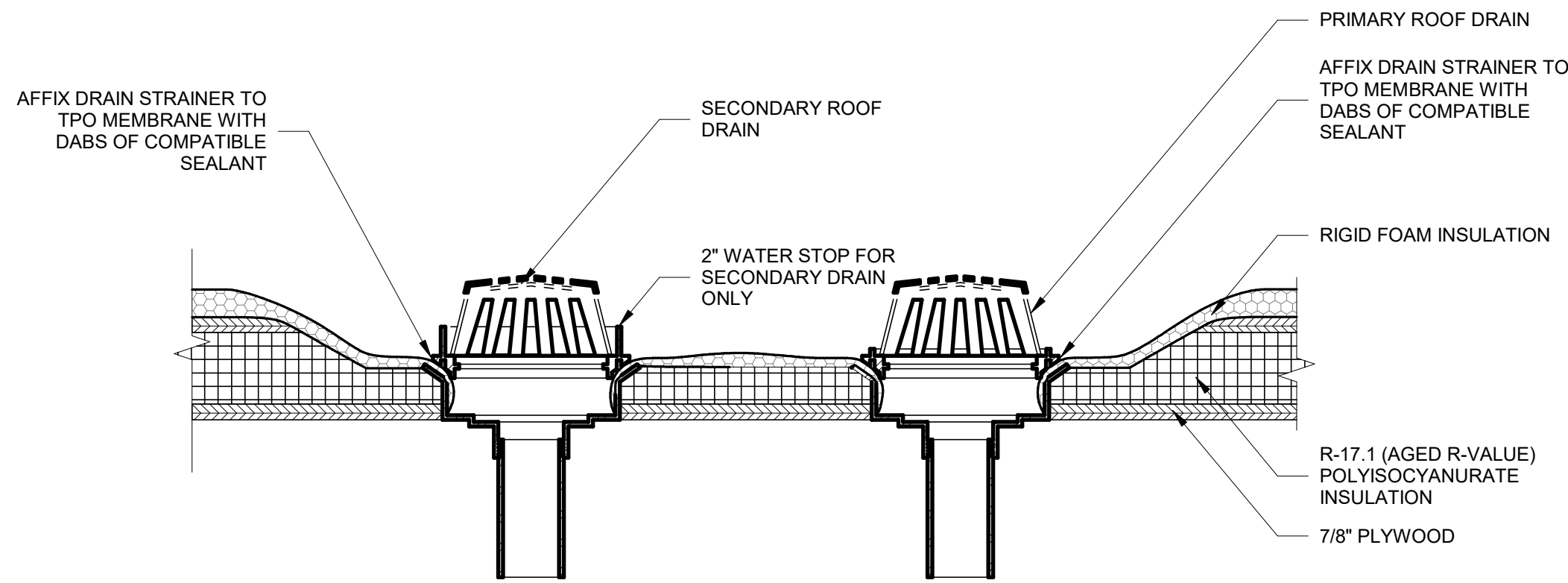
5/09/2024 9:22:39 a.m.

A B C D E

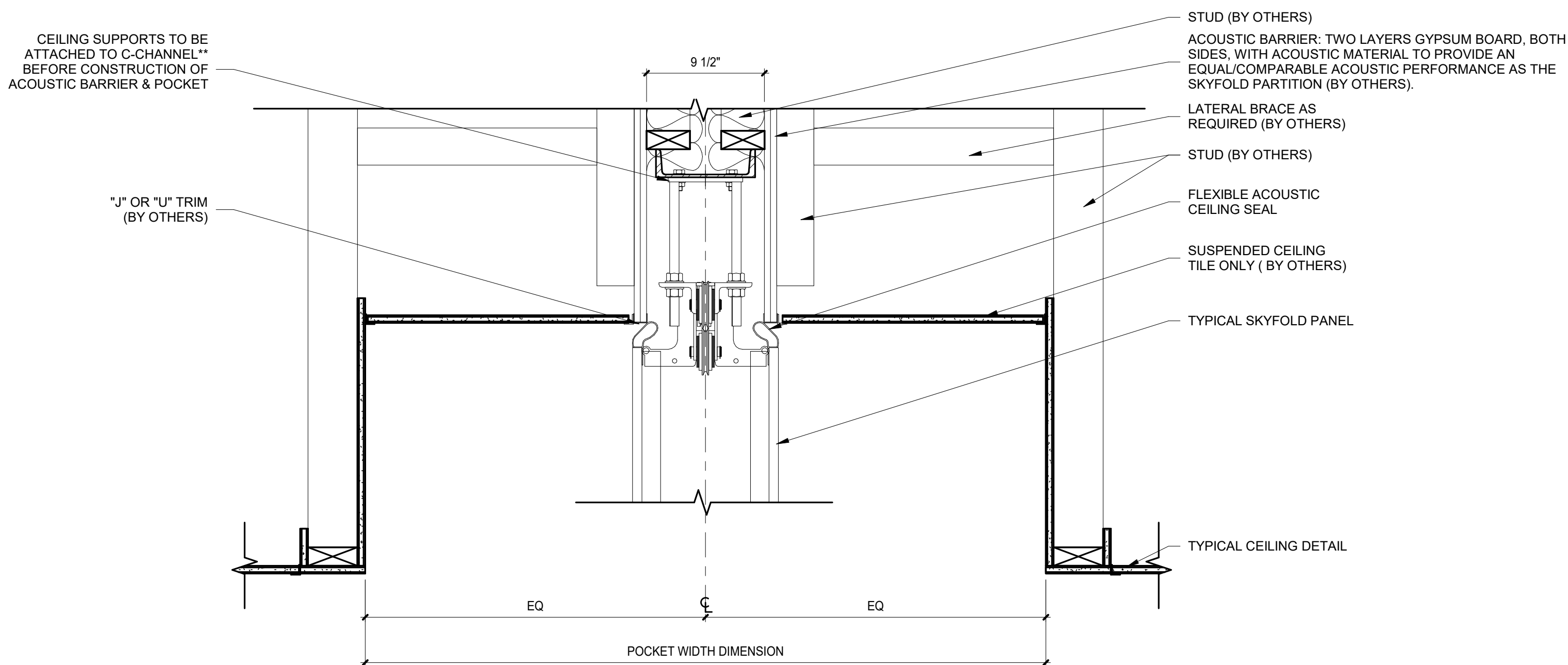


1 2 3 4 5 6

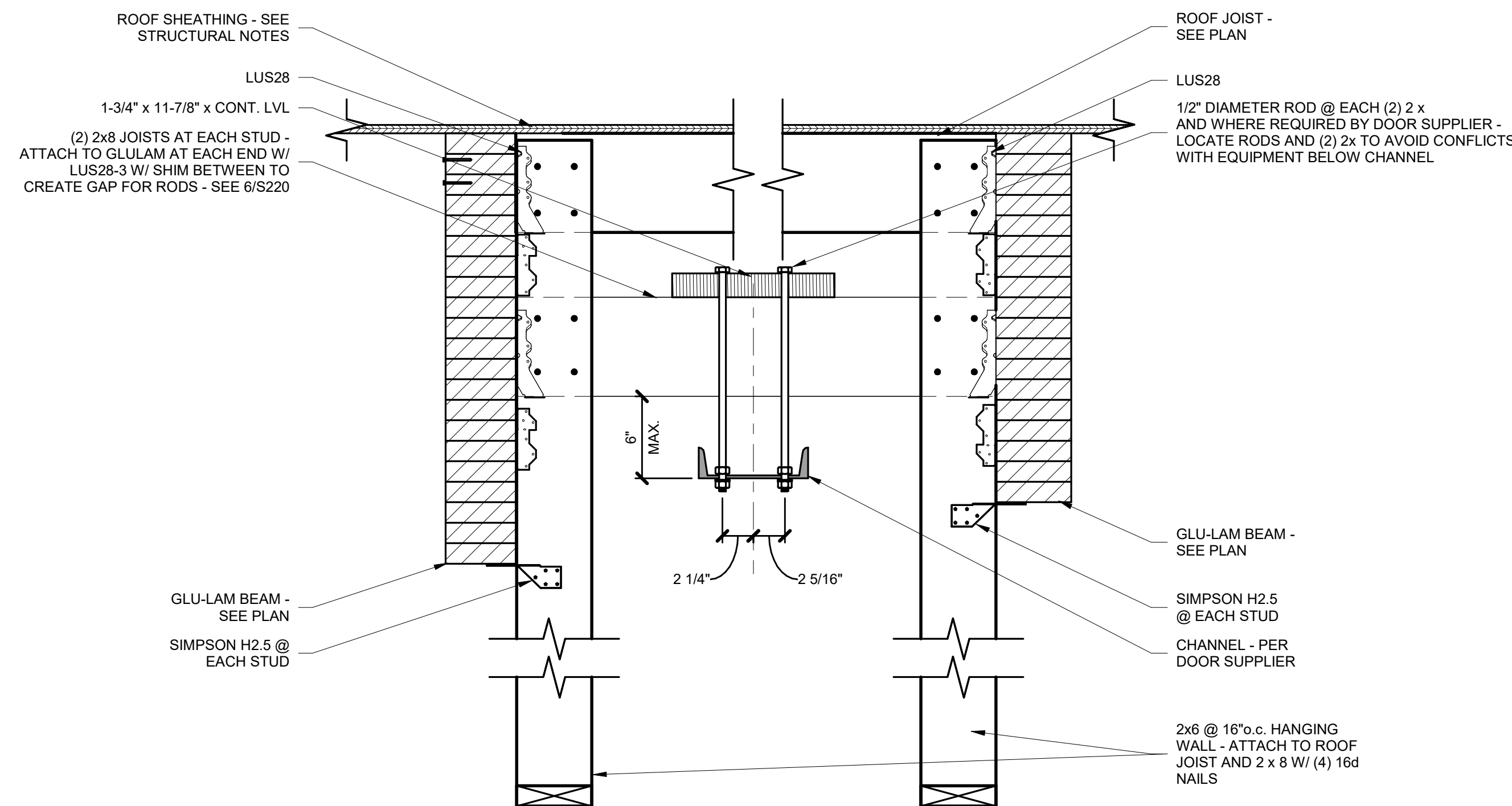
REFERENCE NOTES



C1 TYP. ROOF DRAIN DETAIL
SCALE: 1 1/2" = 1'-0"



A1 POCKET DETAIL
SCALE: 1 1/2" = 1'-0"



A4 POCKET DETAIL STRUCTURAL
SCALE: 1 1/2" = 1'-0"

5/09/2024 9:22:40 a.m.

A B C D E

0' 1' 2'

REFERENCE NOTES

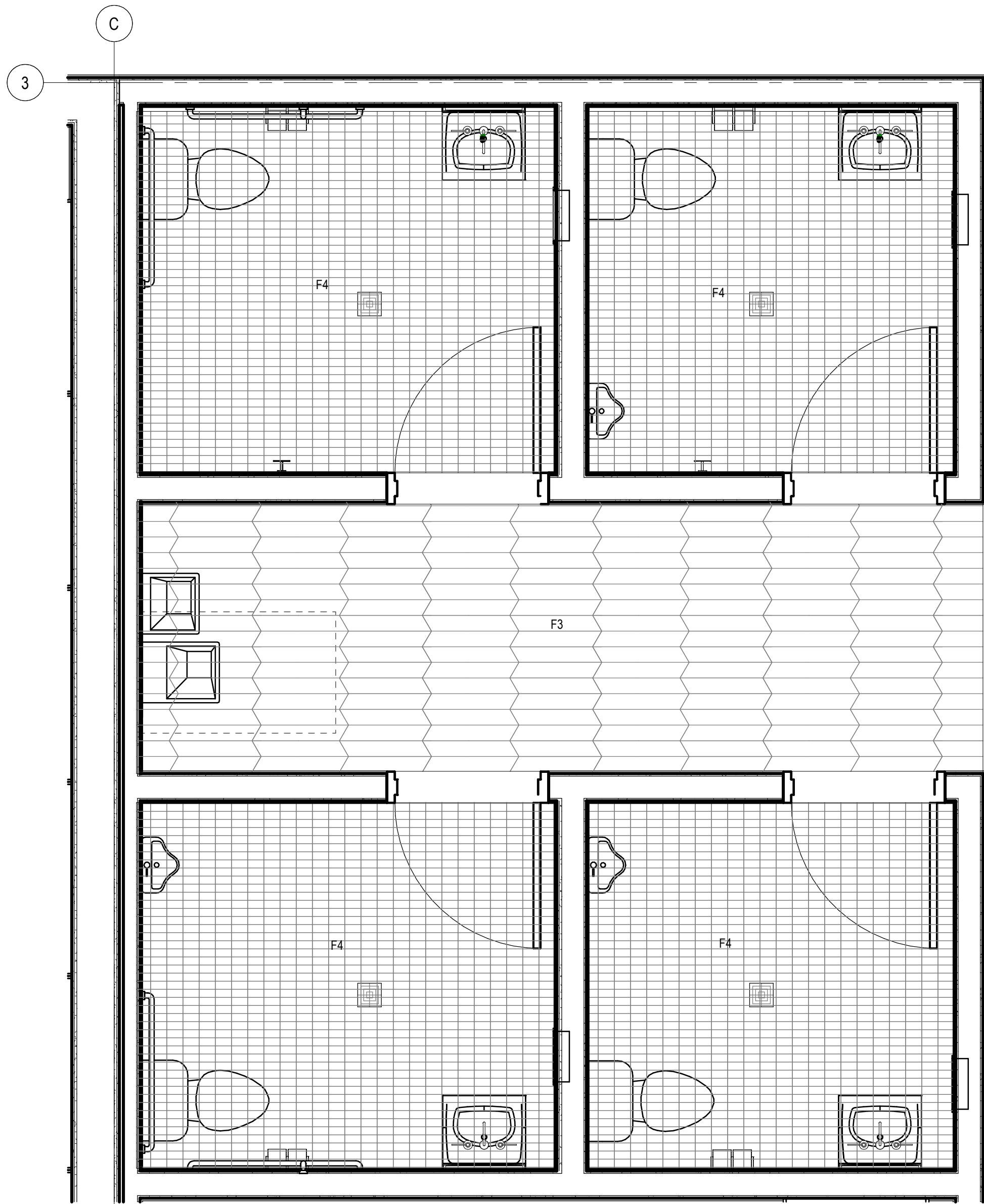


DATE REVISION

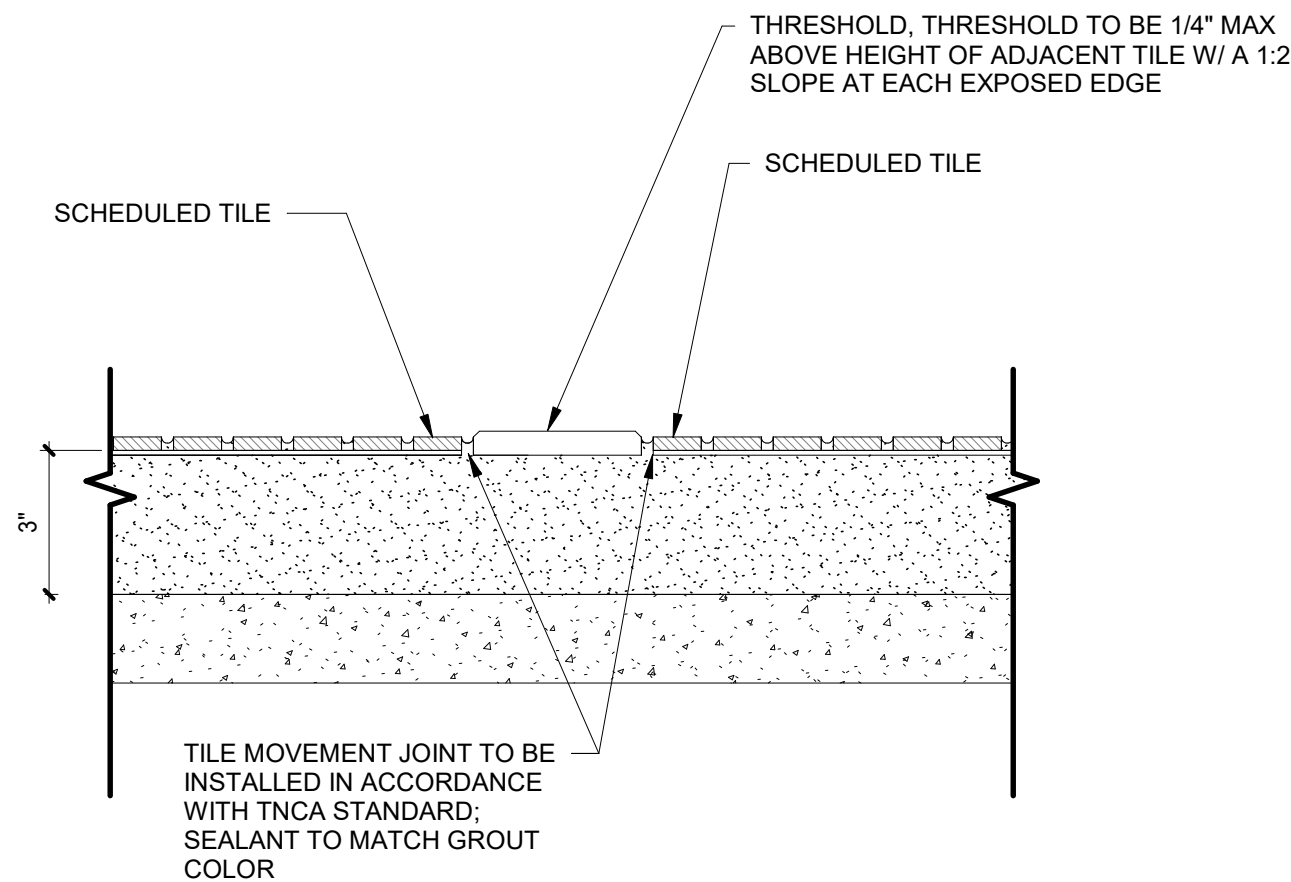
PROJECT NUMBER 24003

FLOOR
PATTERN /
TRANSITION
DETAILS

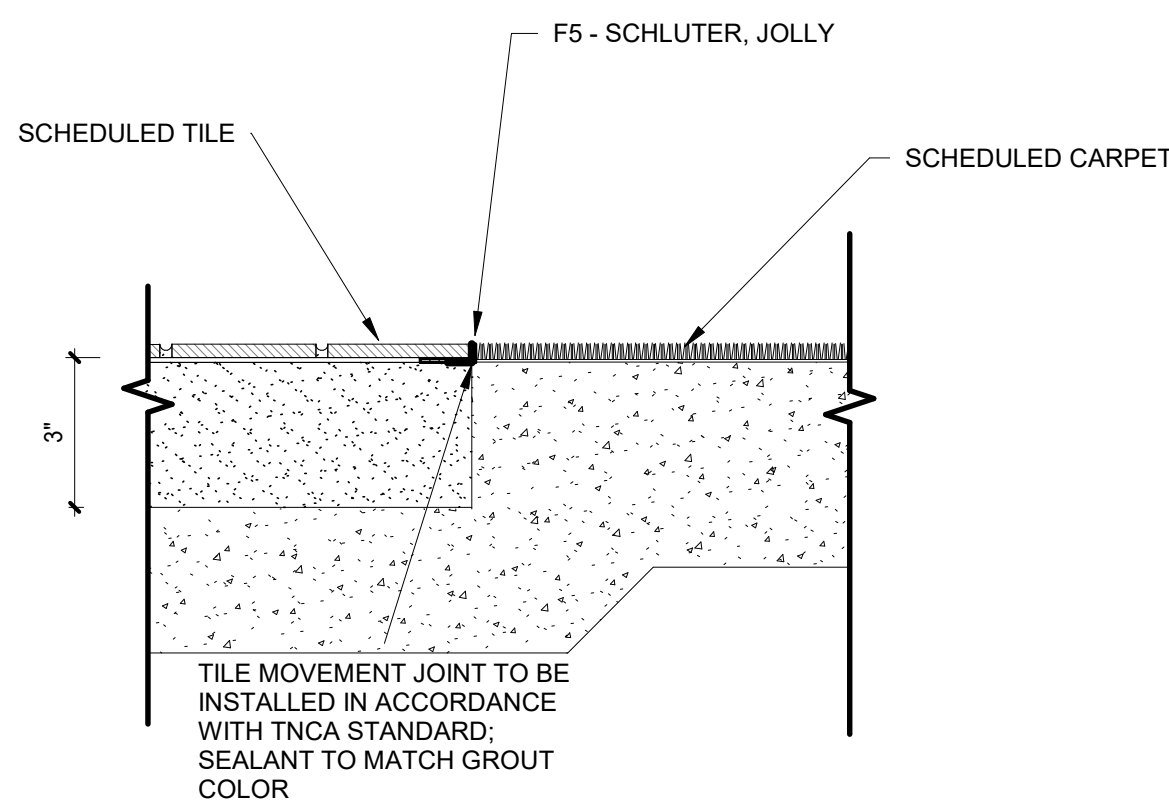
A506



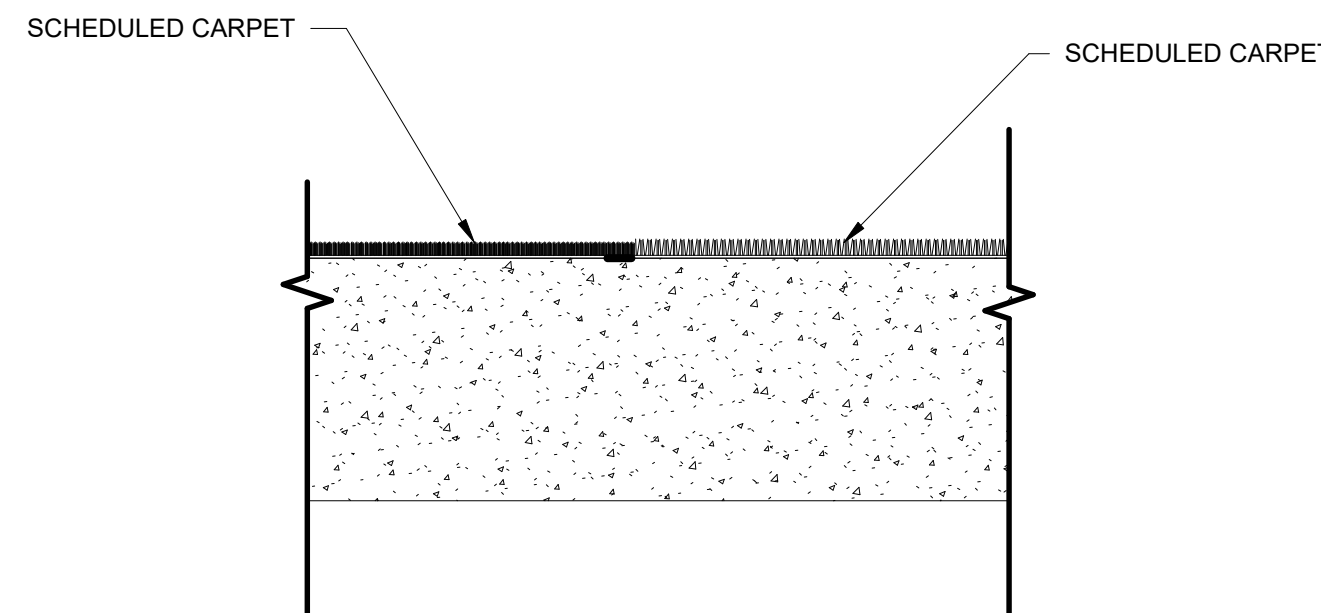
C1 FLOOR TILE PATTERN
SCALE: 1/2" = 1'-0"



A1 FLOOR TRANSITION - TILE TO TILE
SCALE: 3" = 1'-0"



A3 FLOOR TRANSITION - TILE TO CARPET
SCALE: 3" = 1'-0"

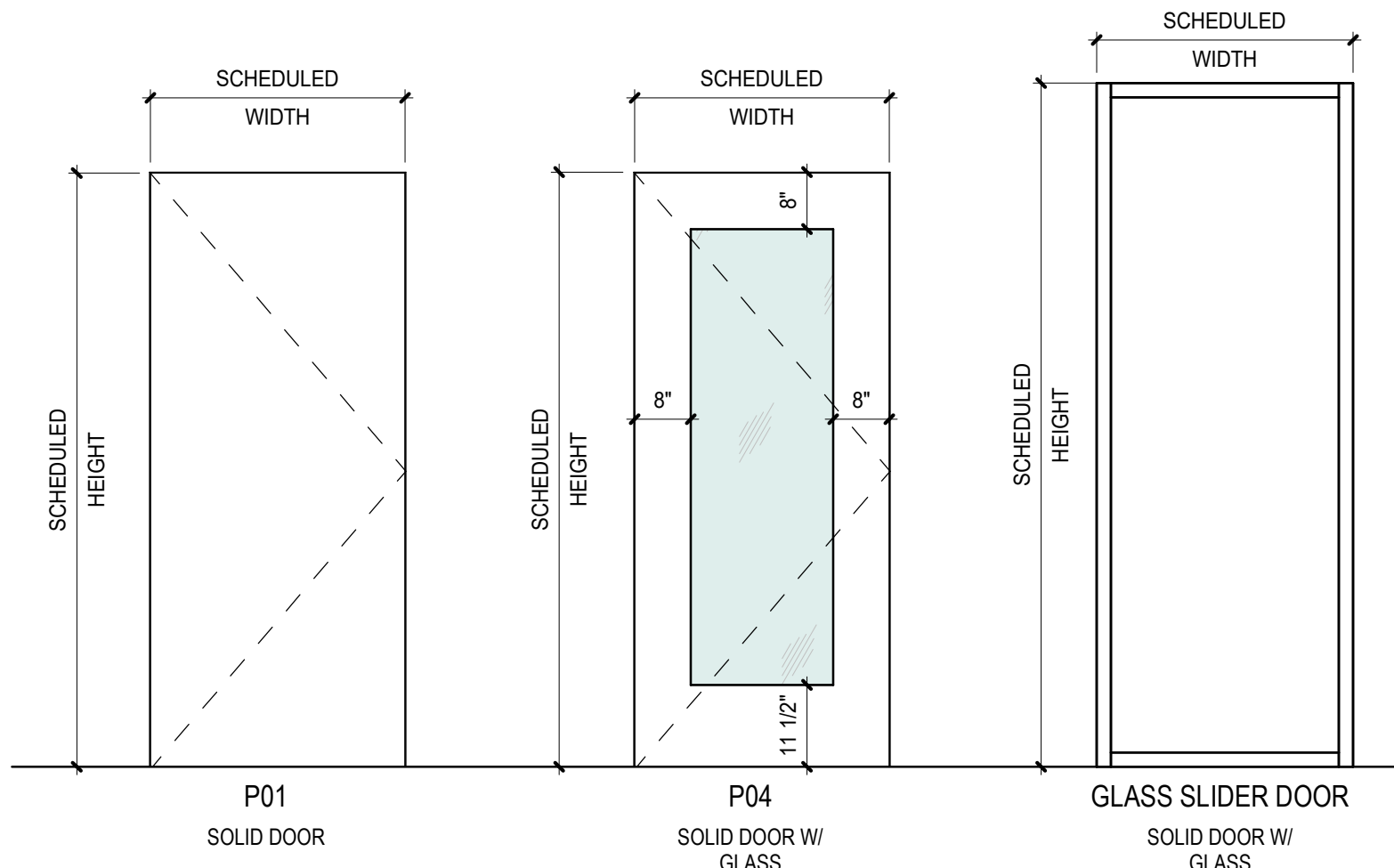


A5 FLOOR TRANSITION - CARPET TO CARPET
SCALE: 3" = 1'-0"

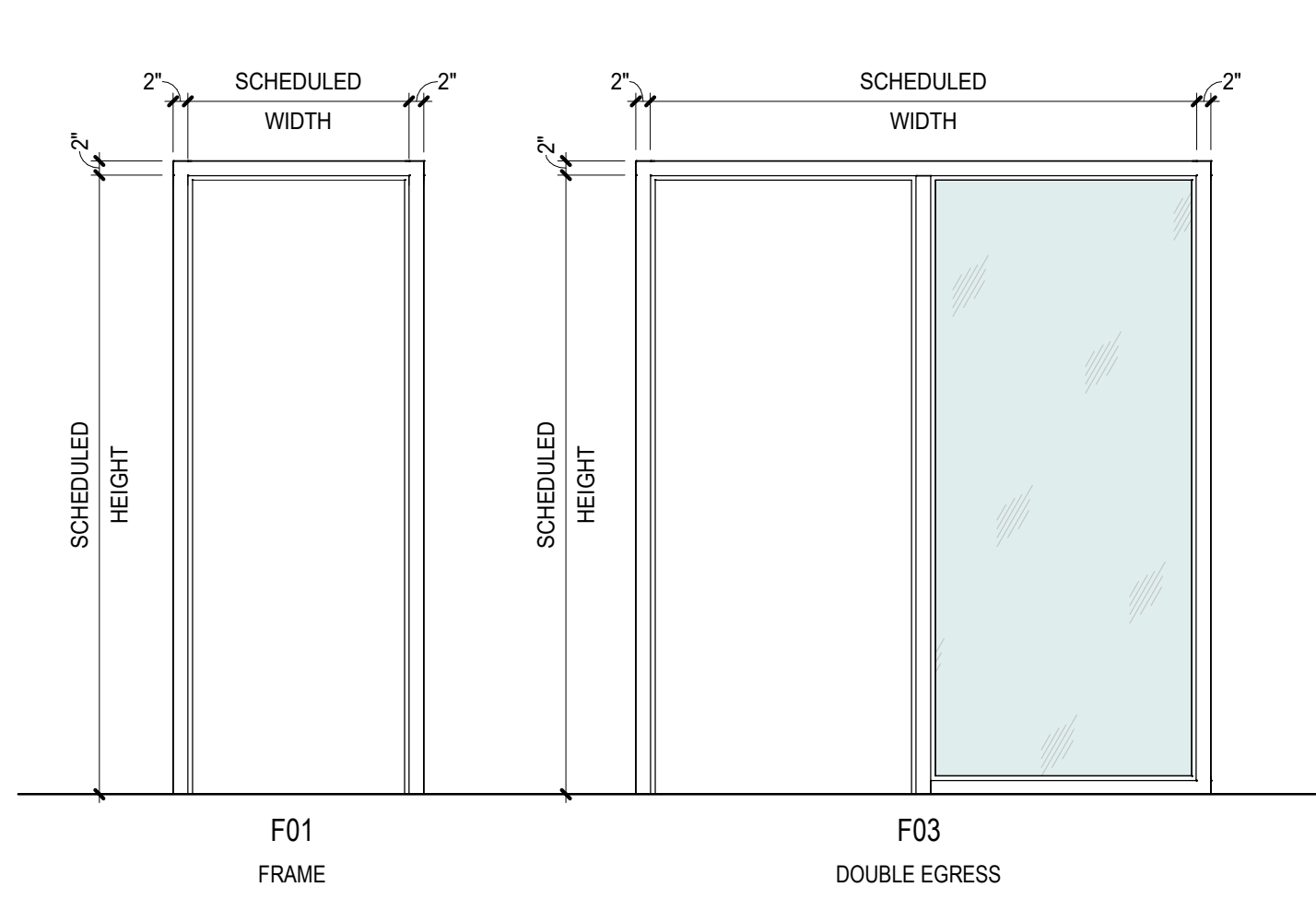
5/09/2024 9:22:40 a. m.

DOOR AND FRAME SCHEDULE												
DOOR NUMBER	SIZE		DOOR				FRAME		FIRE RATING	HARDWARE GROUP	NOTES	REVISIONS
	WIDTH	HEIGHT	THICK	LEAF 1 TYPE	LEAF 2 TYPE	MATERIAL	TYPE	MATERIAL				
LEVEL 0												
090	3'-6"	7'-0"	1 3/4"		P01		Wood	F01	HM		5.0	
LEVEL 1												
101	3'-0"	8'-0"	1 3/4"		P04		Wood	F03	HM		6.0	
102	3'-0"	8'-0"	1 3/4"		P04		Wood	F03	HM		6.0	
103A	6'-0"	8'-0"	1 1/4"		P01	P01	Glass	*	*		1.0	
103B	6'-0"	8'-0"	1 1/4"		P01	P01	Glass	*	*		2.0	
105A	6'-0"	8'-0"	1 1/4"		P01	P01	Glass	*	*		1.0	
105B	6'-0"	8'-0"	1 1/4"		P01	P01	Glass	*	*		2.0	
106	3'-0"	8'-0"	1 3/4"		P04		Wood	F03	HM		6.0	
110	3'-0"	7'-0"	1 3/4"		P01		Wood	F01	HM		7.0	
111	3'-0"	7'-0"	1 3/4"		P01		Wood	F01	HM		7.0	
112	3'-0"	7'-0"	1 3/4"		P01		Wood	F01	HM		7.0	
113	3'-0"	7'-0"	1 3/4"		P01		Wood	F01	HM		7.0	
120	3'-0"	7'-0"	1 3/4"		P01		Wood	F01	HM		10.0	
121	3'-0"	7'-0"	1 3/4"		P01		Wood	F01	HM		10.0	
122A	3'-0"	8'-0"	1 3/4"		P04		Wood	F01	HM		3.0	
122B	3'-0"	8'-0"	1 3/4"		P04		Wood	F01	HM		4.0	
125	3'-0"	7'-0"	1 3/4"		P01		Wood	F01	HM		5.0	
130	3'-0"	8'-6"	1 1/2"	Glass Slider door		Glass	*	*			8.0	
131	3'-0"	8'-6"	1 1/2"	Glass Slider door		Glass	*	*			9.0	
132	3'-0"	8'-6"	1 1/2"	Glass Slider door		Glass	*	*			9.0	
133	3'-0"	8'-6"	1 1/2"	Glass Slider door		Glass	*	*			9.0	

E4 DOOR PANELS
SCALE: 1/2" = 1'-0"



E5 DOOR FRAMES
SCALE: 1/2" = 1'-0"

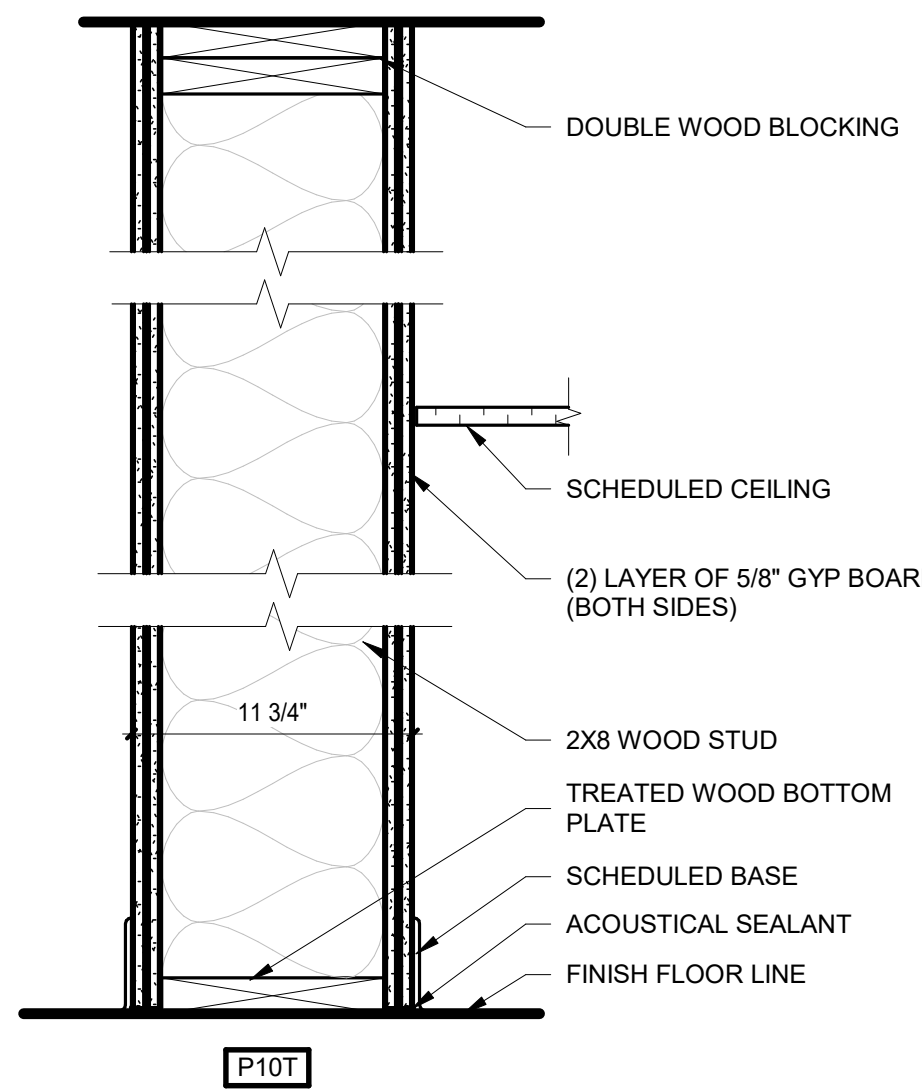
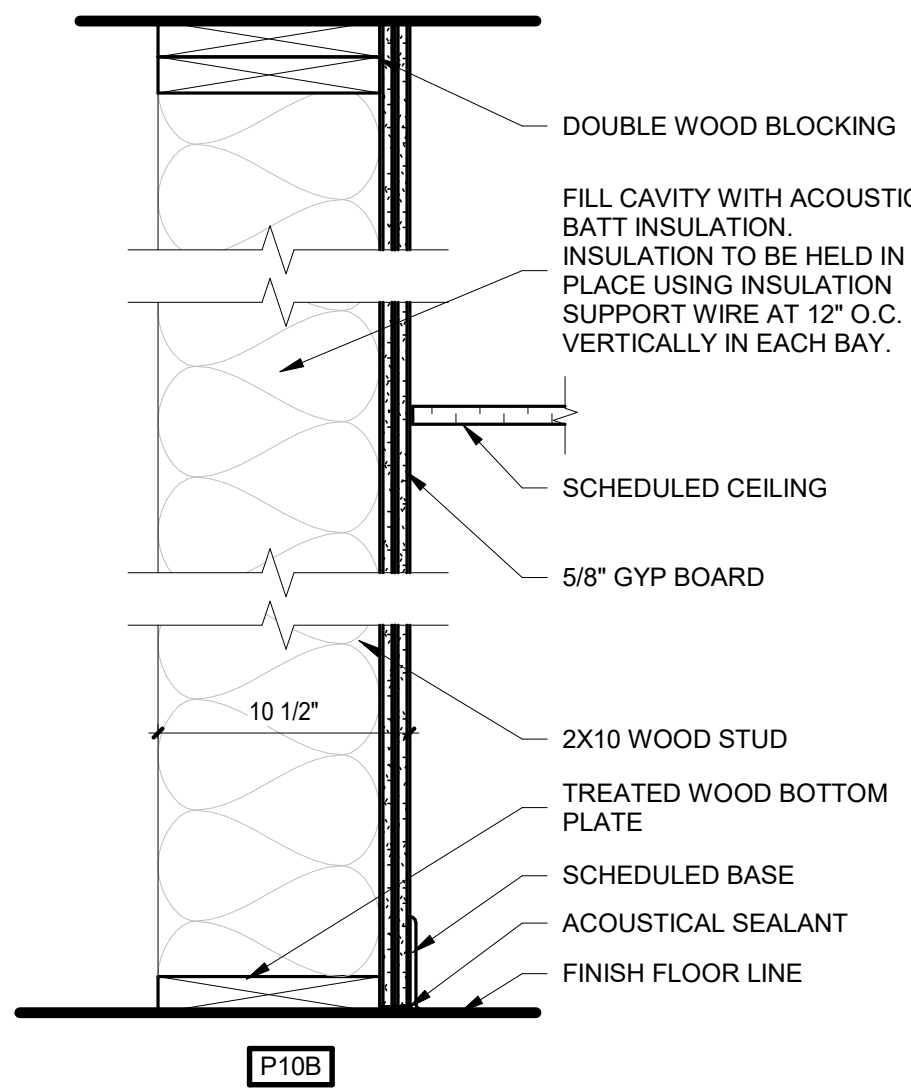
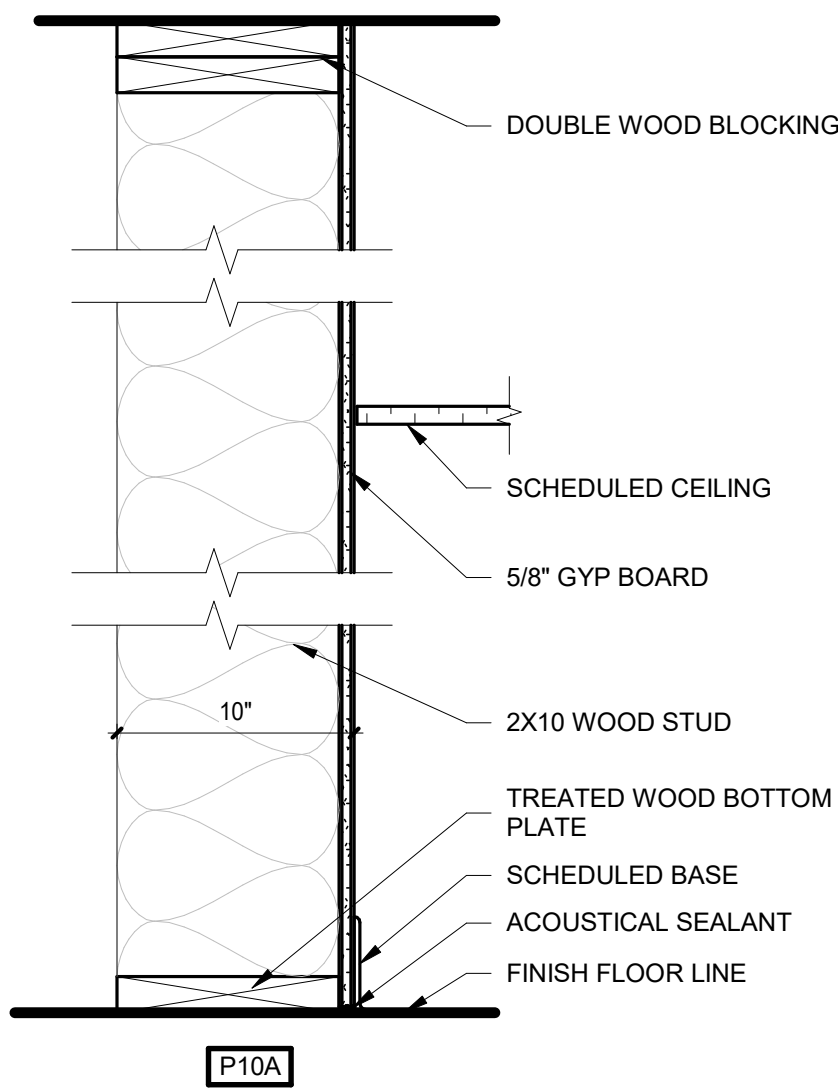
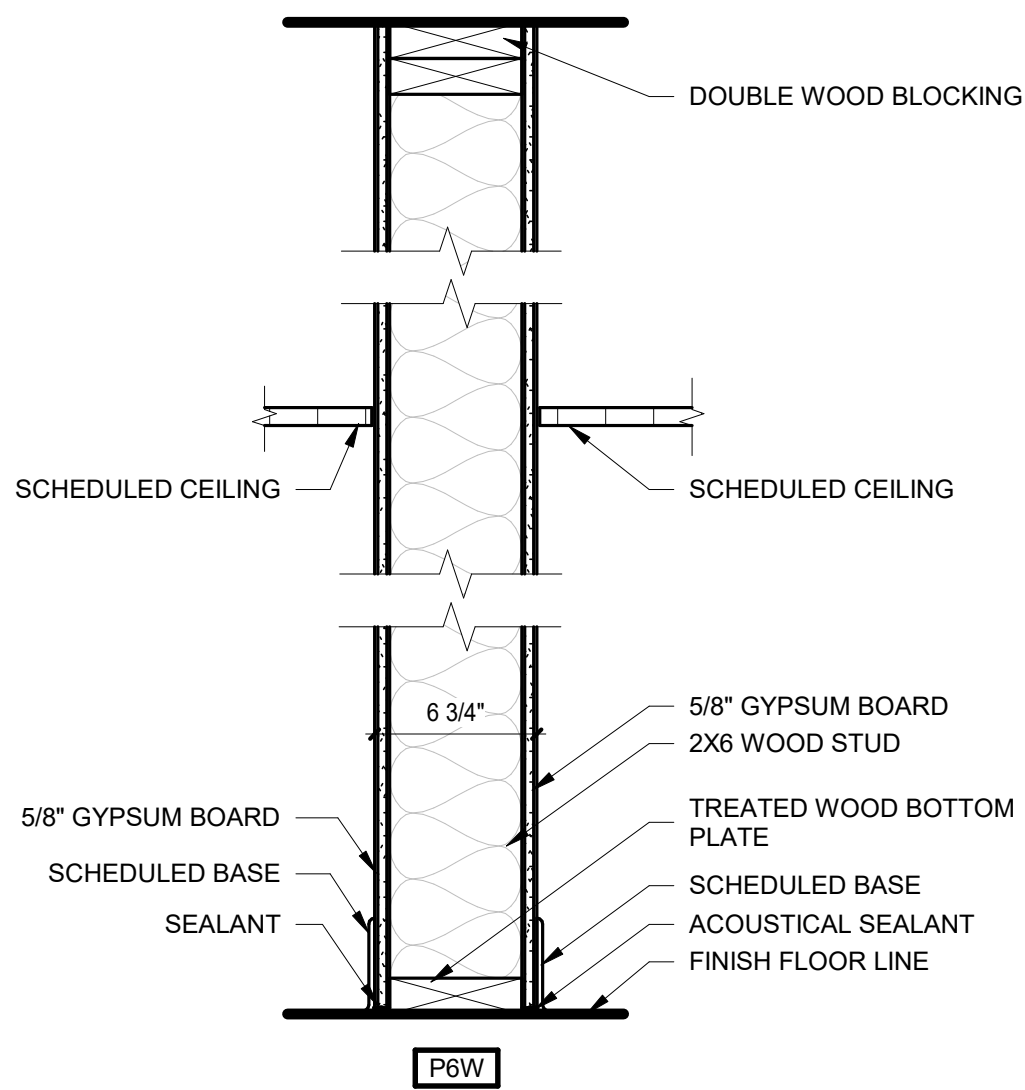
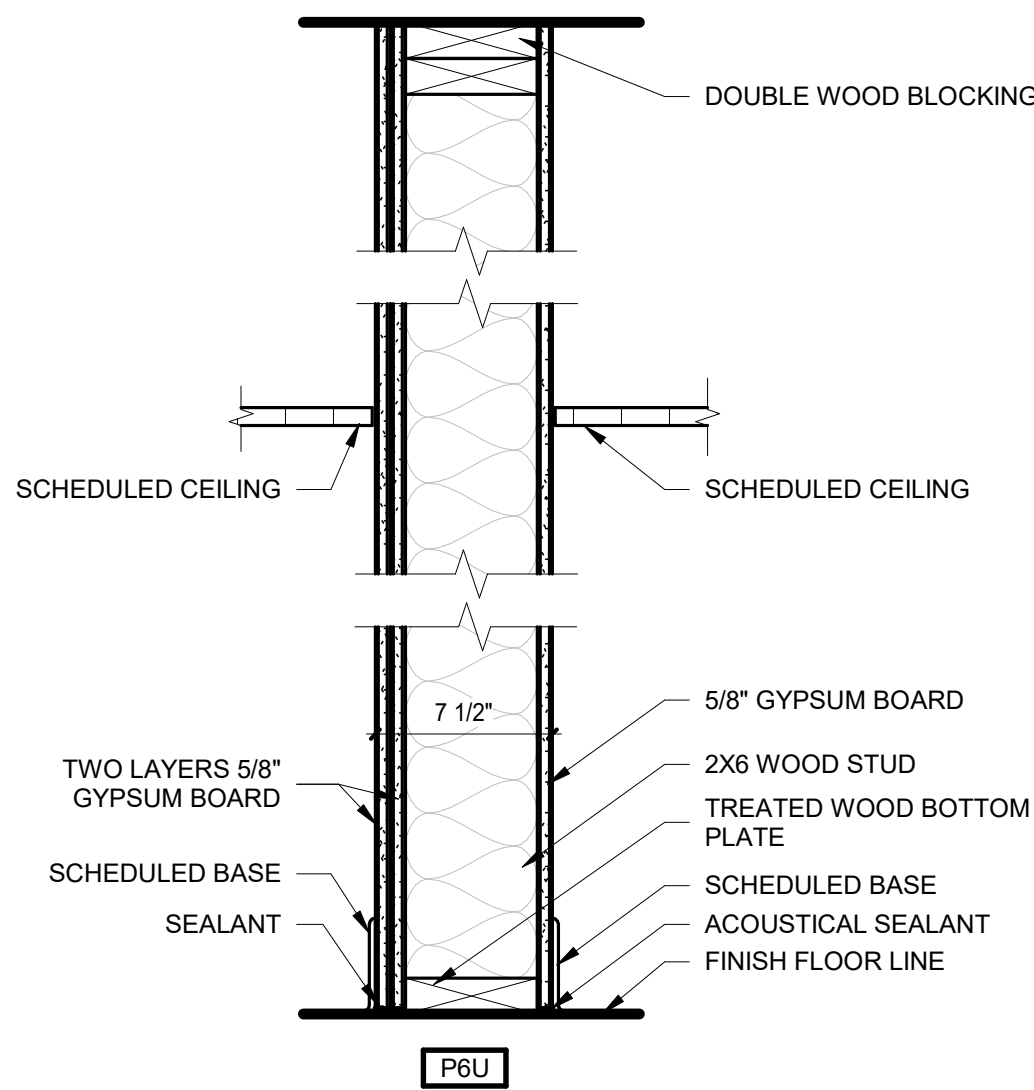
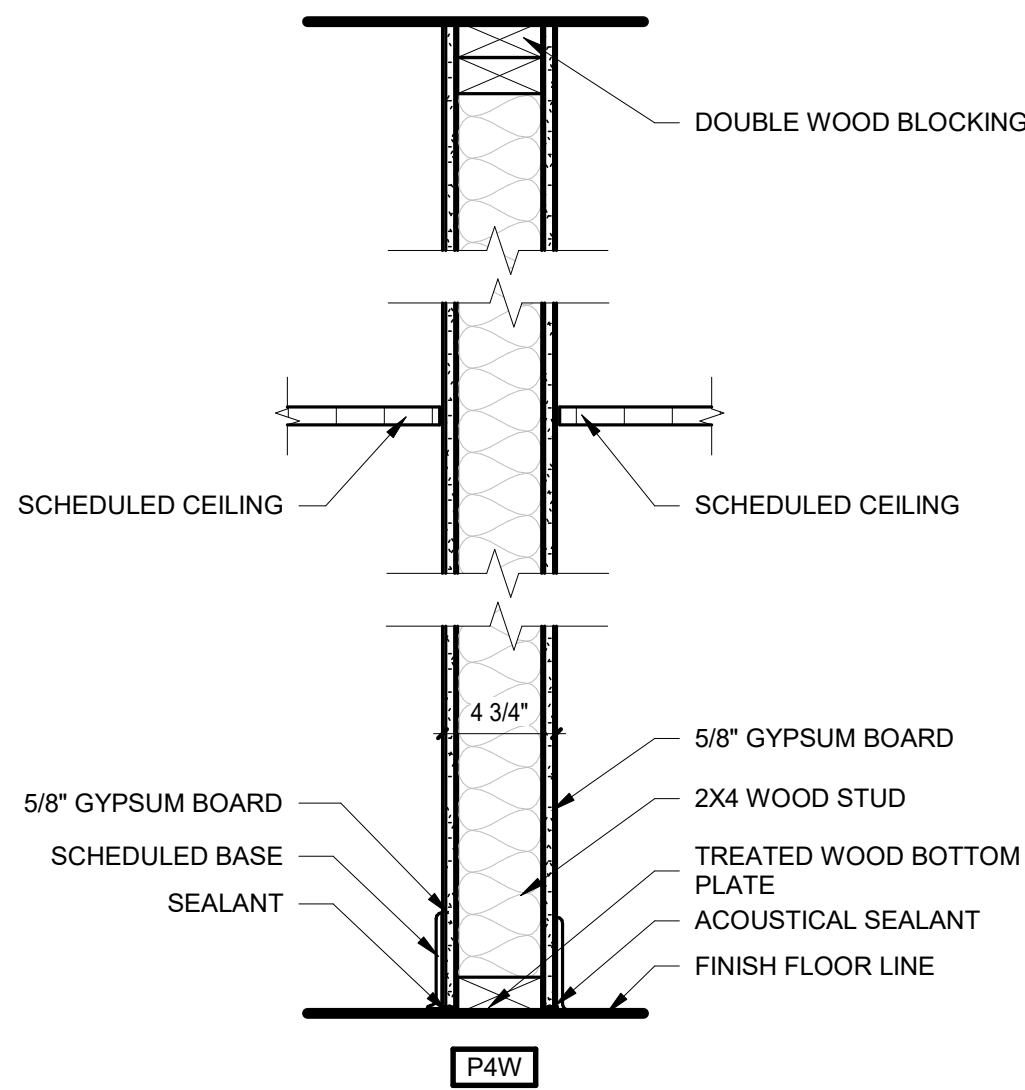
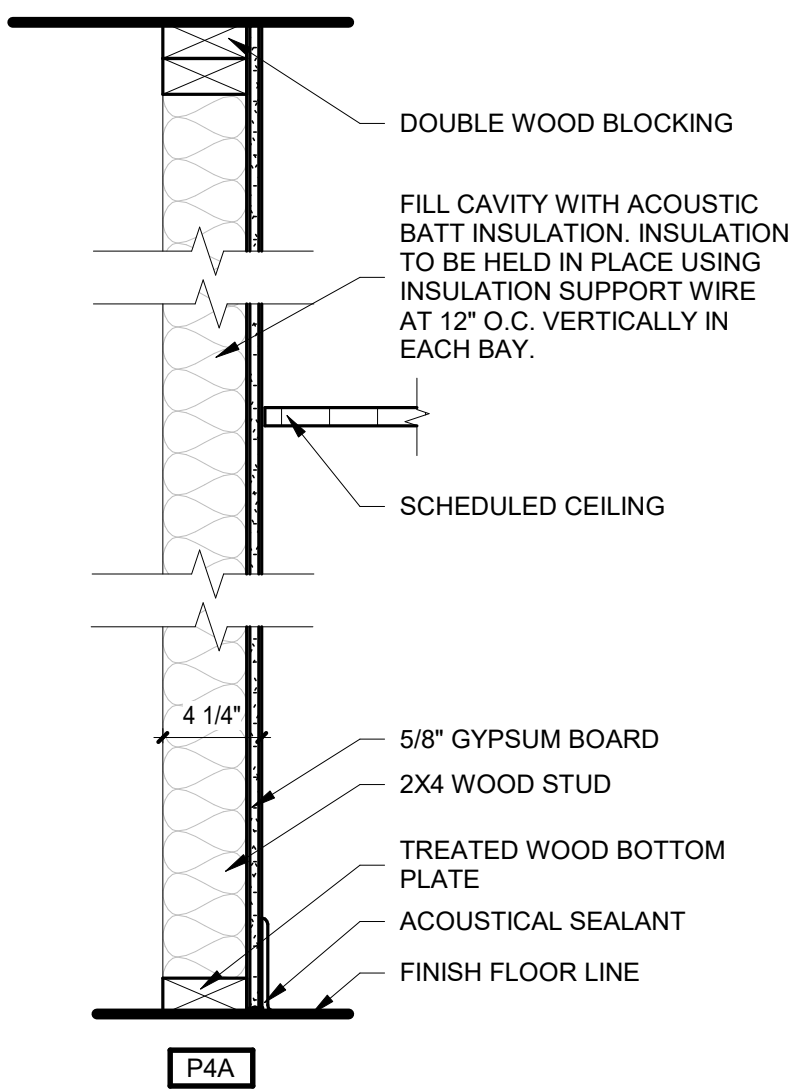
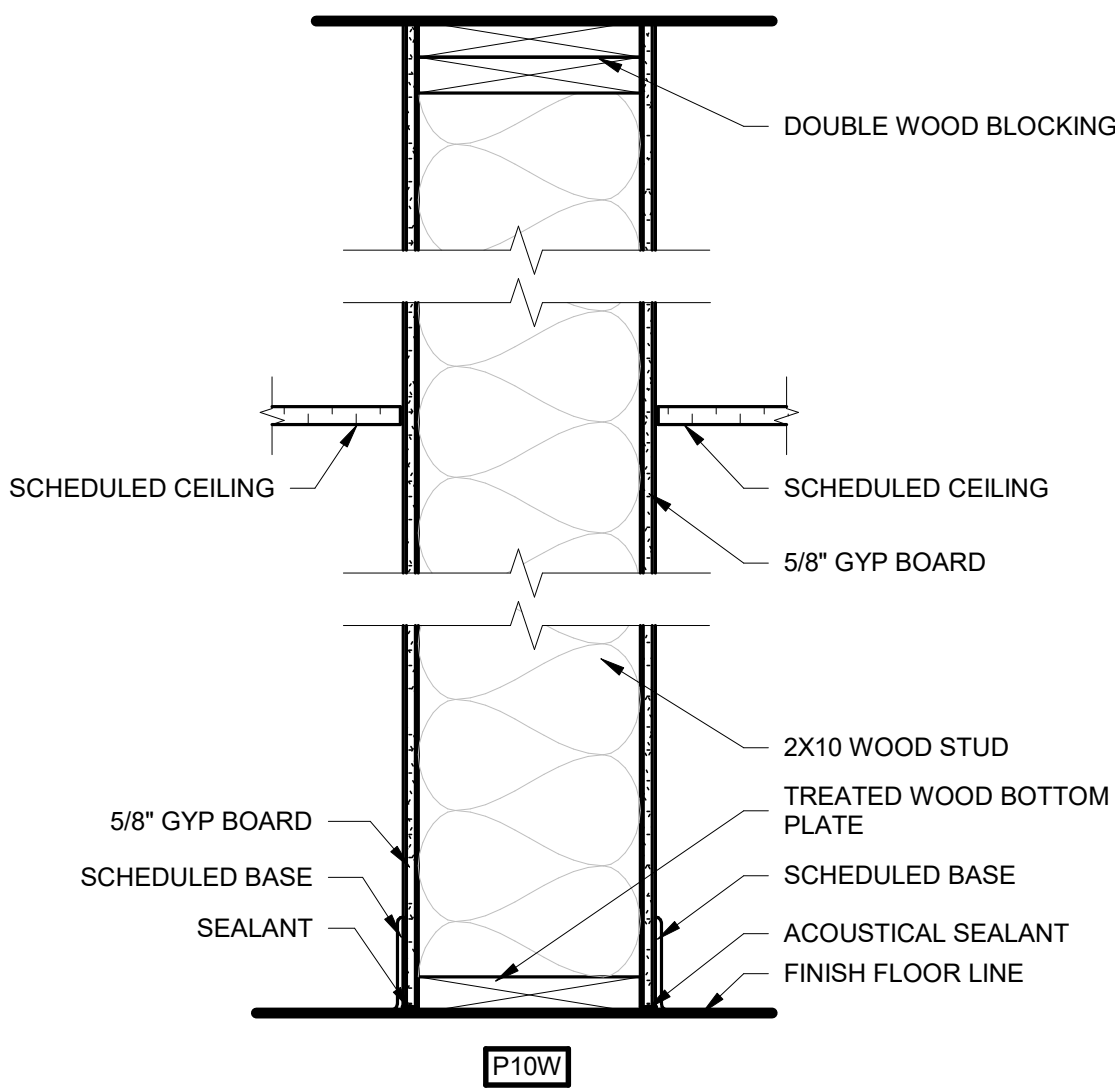


REFERENCE NOTES

WALL TYPE NOTES:

A. IN ALL RESTROOMS USE WATER RESISTANT GYPSUM BOARD

B. PROVIDE 1/2" CEMENT BACKER BOARD BEHIND ALL TILE AT RESTROOMS, MOP SINK, AND DRINKING FOUNTAIN



P PARTITION TYPE P
SCALE: 1 1/2" = 1'-0"

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.24



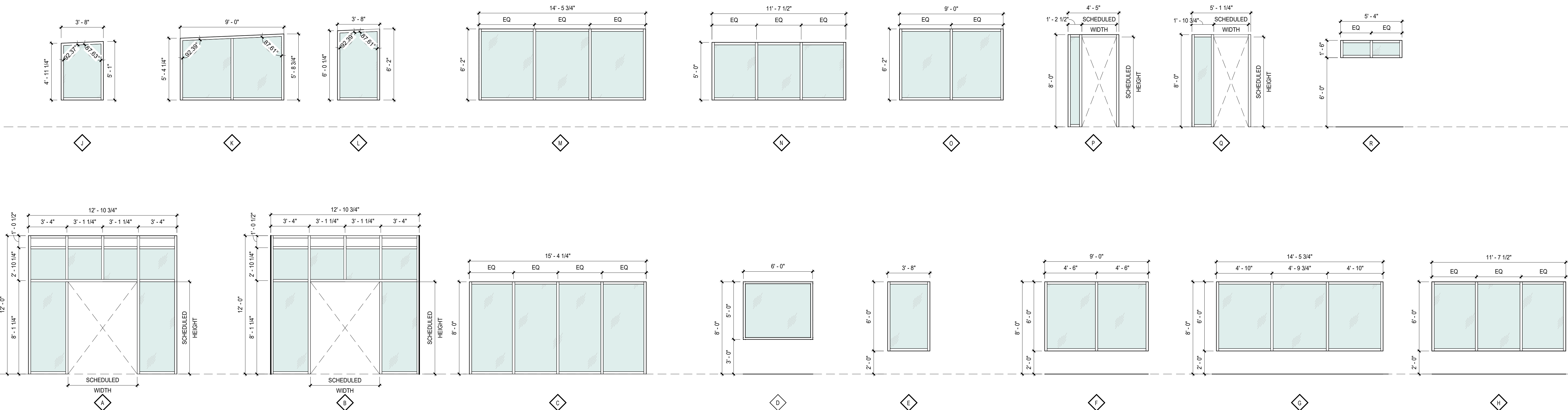
DATE REVISION

PROJECT NUMBER 24003

PARTITION
TYPES &
DOOR
SCHEDULES

A601

5/09/2024 9:22:42 a.m. A B C D E F



REFERENCE NOTES

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.24



DATE REVISION

PROJECT NUMBER 24003

WINDOW
SCHEDULE
AND
DETAILS

A602

FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 • FFKR.COM

5/09/2024 9:22:43 a. m.

FINISH LEGEND			
TAG	PRODUCT TYPE	SPECIFICATIONS	NOTES
01 FLOORING			
F1	CARPET	MANF: TARKETT TYPE: BRADALOOM / POWERBOND STYLE/PATTERN: ASSERTIVE ACTION 04837 COLOR: FUSION 26217 NOTE: CARPET AND INSTALL PROVIDED BY OWNER	LOCATION: WALK OFF REP: TRACY RIDDLE REP PHONE: 801.580.5147 REP EMAIL: TRACY.RIDDLE@TARKETT.COM
F2	CARPET	MANF: TARKETT TYPE: BRADALOOM / POWERBOND STYLE/PATTERN: TEXTUREMAP 11129 COLOR: DESERT PAVEMENT 42803 NOTE: CARPET AND INSTALL PROVIDED BY OWNER	LOCATION: GENERAL CARPET REP: TRACY RIDDLE REP PHONE: 801.580.5147 REP EMAIL: TRACY.RIDDLE@TARKETT.COM
F3	TILE	MANF: WOW TYPE: FLOOR TILE STYLE/PATTERN: R9 CHEVRON FLOOR, 113936 COLOR: WHITE MATT DIMENSIONS: 4' x 20.5" GROUT COLOR: MAPEI, #00 WHITE GROUT SIZE: 1/16"	LOCATION: RESTROOM HALL REP: KEVIN FITZGERALD REP PHONE: REP EMAIL: KFITZGERALD@CROSSVILLESTUDIOS.COM
F4	TILE	MANF: DAL TILE TYPE: TILE STYLE/PATTERN: KEYSTONE COLOR: URBAN PUTTY D161 DIMENSIONS: 2" x 4" GROUT COLOR: MAPEI, #35 NAVAJO BROWN GROUT SIZE: 1/16"	LOCATION: RESTROOMS, CUSTODIAL REP: ANGIE LINDAHL REP PHONE: 801.487.9901 REP EMAIL: ANGELA.LINDAHL@DALTILE.COM
F5	METAL - TILE EDGE	MANF: SCHLUTER SYSTEMS TYPE: JOLLY / ALUMINUM COLOR: ATGB BRUSHED NICKEL	LOCATION: RESTROOM HALLWAY 134, TRANSITION FROM CARPET TO TILE
02 BASE			
B1	RUBBER BASE	MANF: TARKETT TYPE: TRADITIONAL WALLBASE COLOR: 283 TOAST NOTE: RUBBER BASE AND INSTALL PROVIDED BY OWNER	LOCATION: GENERAL BASE REP: TRACY RIDDLE REP PHONE: 801.580.5147 REP EMAIL: TRACY.RIDDLE@TARKETT.COM
B2	METAL - TILE EDGE BASE	MANF: SCHLUTER SYSTEMS TYPE: DILEX / ALUMINUM COLOR: ATGB BRUSHED NICKEL	LOCATION: RESTROOMS, RESTROOM HALLWAY, CUSTODIAL
03 WALL			
W1	PAINT	MANF: SHERWIN WILLIAMS COLOR: SW7566 / WESTHIGHLAND WHITE FINISH: SATIN	LOCATION: GENERAL PAINT REP: RICHARD CONDIE REP PHONE: 916.267.3232 REP EMAIL: RICHARD.CONDIE@SHERWIN.COM
W2	PAINT	MANF: SHERWIN WILLIAMS COLOR: SW6226 / LANGUID BLUE FINISH: SATIN	LOCATION: CLASSROOMS REP: RICHARD CONDIE REP PHONE: 916.267.3232 REP EMAIL: RICHARD.CONDIE@SHERWIN.COM
W3	PAINT	MANF: SHERWIN WILLIAMS COLOR: SW7741 / WILLOW TREE FINISH: SATIN	LOCATION: RESTROOMS, RESTROOM HALL REP: RICHARD CONDIE REP PHONE: 916.267.3232 REP EMAIL: RICHARD.CONDIE@SHERWIN.COM
W4	PAINT	MANF: SHERWIN WILLIAMS COLOR: SW7504 / KEYSTONE GRAY FINISH: SATIN	LOCATION: PRINCIPAL 130, QUIET STUDY 132 & 133 REP: RICHARD CONDIE REP PHONE: 916.267.3232 REP EMAIL: RICHARD.CONDIE@SHERWIN.COM
W5	PAINT	MANF: SHERWIN WILLIAMS COLOR: SW6332 / CORAL ISLAND FINISH: SATIN	LOCATION: WORKROOM 131 REP: RICHARD CONDIE REP PHONE: 916.267.3232 REP EMAIL: RICHARD.CONDIE@SHERWIN.COM
W6	TILE	MANF: DAL TILE TYPE: WALL TILE STYLE/PATTERN: RETROSPACE REMIX COLOR: MODERN WHITE RS30 SIZE: 6" x 6" HEXAGON GROUT COLOR: MAPEI, #00 WHITE GROUT SIZE: 1/8"	LOCATION: RESTROOMS, DRINKING FOUNTAIN, KITCHENETTE REP: ANGIE LINDAHL REP PHONE: 801.487.9901 REP EMAIL: ANGELA.LINDAHL@DALTILE.COM
W7	TILE	MANF: DAL TILE TYPE: WALL TILE STYLE/PATTERN: COLOR WHEEL COLOR: D100 WHITE FINISH: SEMI-GLOSS SIZE: 6" x 6" SQUARE	LOCATION: CUSTODIAL REP: ANGIE LINDAHL REP PHONE: 801.487.9901 REP EMAIL: ANGELA.LINDAHL@DALTILE.COM
W8	WALL PROTECTION	MANF: INFRO TYPE: WALL STYLE/PATTERN: PALLADIUM RUB RAIL COLOR: D103 WHITE SAND SIZE: 12" H, 60" THICKNESS	LOCATION: CLASSROOMS
W9	METAL - TILE EDGE	MANF: SCHLUTER SYSTEMS STYLE/PATTERN: JOLLY - P COLOR: RAIL 8510 / WHITE	LOCATION: TILE EDGE PROTECTION
W10	WALL PROTECTION	MANF: INFRO TYPE: WALL STYLE/PATTERN: PALLADIUM RUB RAIL COLOR: SERENITY 0166 SIZE: 12" H, 60" THICKNESS	LOCATION: CLASSROOMS
04 CEILING			
C1	PAINT	MANF: SHERWIN WILLIAMS COLOR: SW7566 / WESTHIGHLAND WHITE FINISH: FLAT	LOCATION: GENERAL CEILING PAINT REP: RICHARD CONDIE REP PHONE: 916.267.3232 REP EMAIL: RICHARD.CONDIE@SHERWIN.COM
C2	ACT	MANF: TYPE: STYLE/PATTERN: COLOR: FINISH: FSR:	LOCATION: PROVIDED BY: INSTALLED BY: REP: REP PHONE: REP EMAIL:
C3	PAINT	MANF: SHERWIN WILLIAMS COLOR: SW6226 / LANGUID BLUE FINISH: FLAT	LOCATION: ACCENT CEILING PAINT REP: RICHARD CONDIE REP PHONE: 916.267.3232 REP EMAIL: RICHARD.CONDIE@SHERWIN.COM
05 MILLWORK			
M1	TILE	MANF: LAMINAM TYPE: LARGE FORMAT TILE STYLE/PATTERN: NATURALJ COLOR: DIAMOND CREAM FINISH: NATURAL	LOCATION: RECEPTION DESK 104 - FRONT REP: KEVIN FITZGERALD REP PHONE: REP EMAIL: KFITZGERALD@CROSSVILLESTUDIOS.COM
M2	SOLID SURFACE	MANF: LG HAUSYS TYPE: HI-MACS STYLE/PATTERN: M103 FIRENZE	LOCATION: RECEPTION DESK 104 - TOP REP: ELIZABETH MARCON REP PHONE: 424.445.9786 REP EMAIL: EMARCON@LXHAUSYS.COM
M3	LAMINATE	MANF: FORMICA STYLE/PATTERN: 5487.26 COLOR: OILED WALNUT	LOCATION: GENERAL CASEWORK
M4	QUARTZ	MANF: CAMBRIA TYPE: QUARTZ STYLE/PATTERN: RIDGEGATE FINISH: POLISHED	LOCATION: WORKROOM 131 - COUNTERTOP
06 OTHER			
S1	PAINTED METAL	MANF: SHERWIN WILLIAMS COLOR: COLOR TO MATCH STOREFRONT FRAME FINISH: SATIN	LOCATION: INTERIOR HM DOOR FRAME REP: RICHARD CONDIE REP PHONE: 916.267.3232 REP EMAIL: RICHARD.CONDIE@SHERWIN.COM
07 EXTERIOR			
E1	STONE	MANF: DELTA STONE TYPE: STONE STYLE/PATTERN: JACKSON LEDGE	LOCATION: PROVIDED BY: INSTALLED BY: REP: REP PHONE: REP EMAIL:
E2	EXTERIOR PANEL	MANF: TRESPA TYPE: STYLE/PATTERN: PURA NFC COLOR: CLASSIC OAK	LOCATION: PROVIDED BY: INSTALLED BY: REP: REP PHONE: REP EMAIL:

REFERENCE NOTES



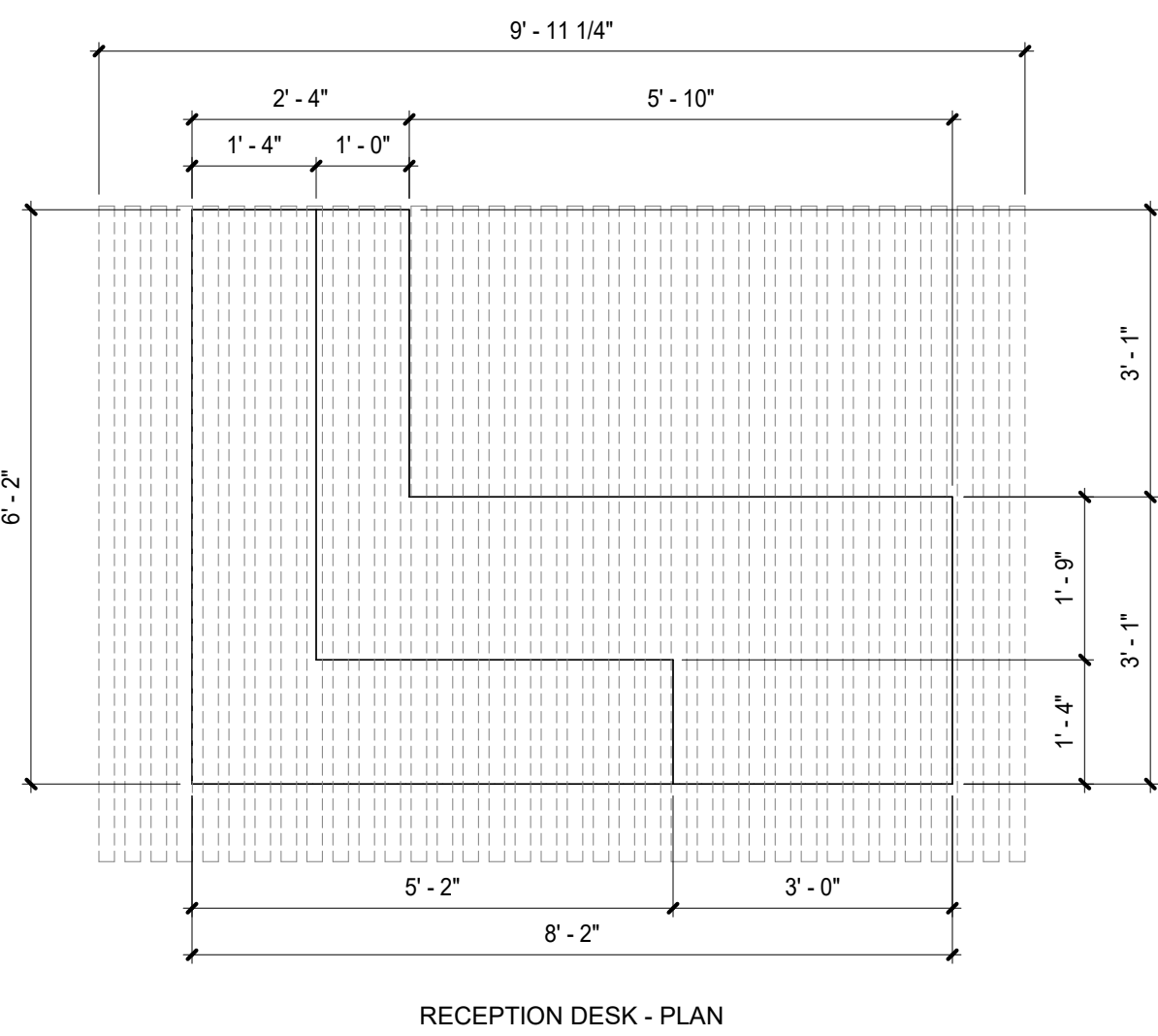
5/09/2024 9:22:43 a.m.

A B C D E

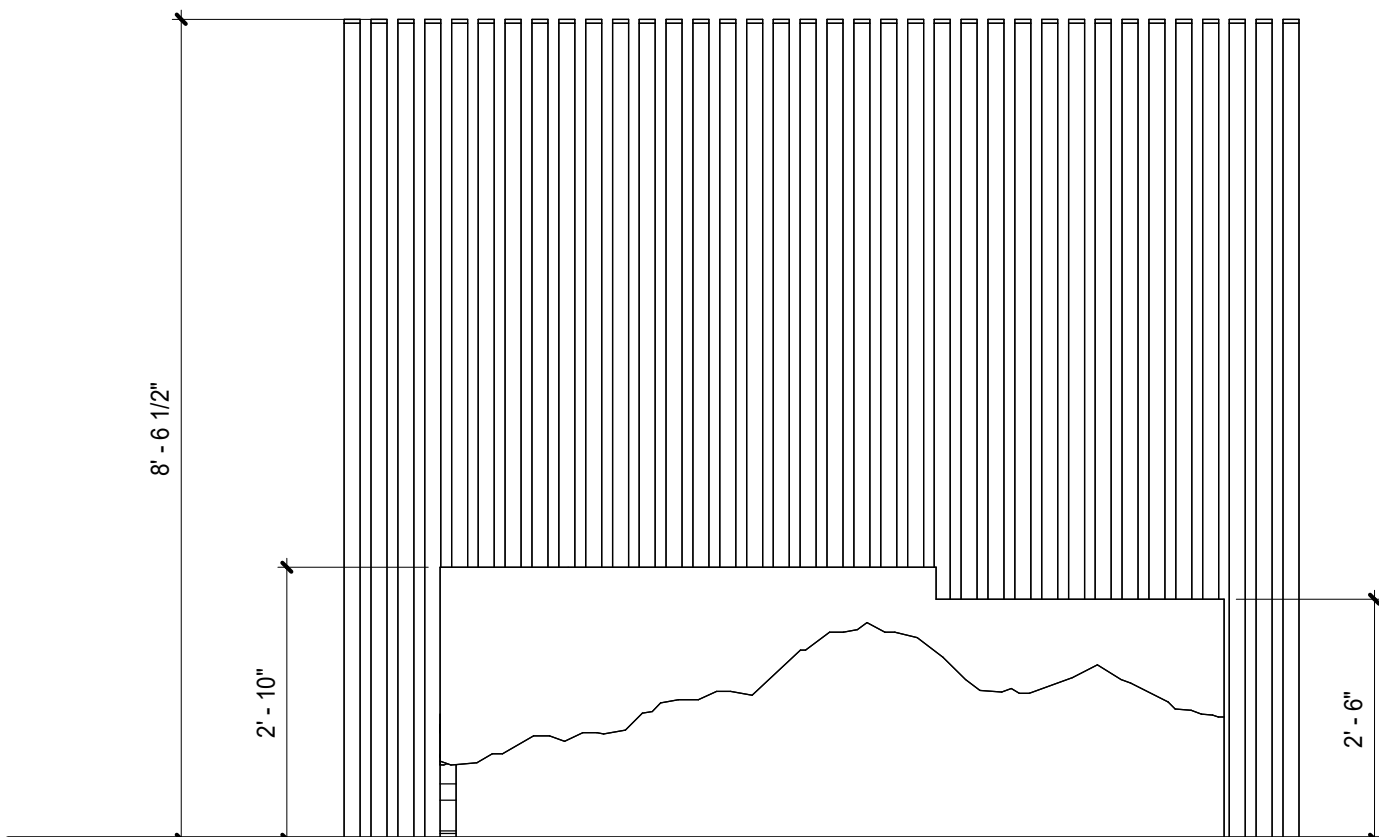
1 2 3 4 5 6

0' 1' 2'

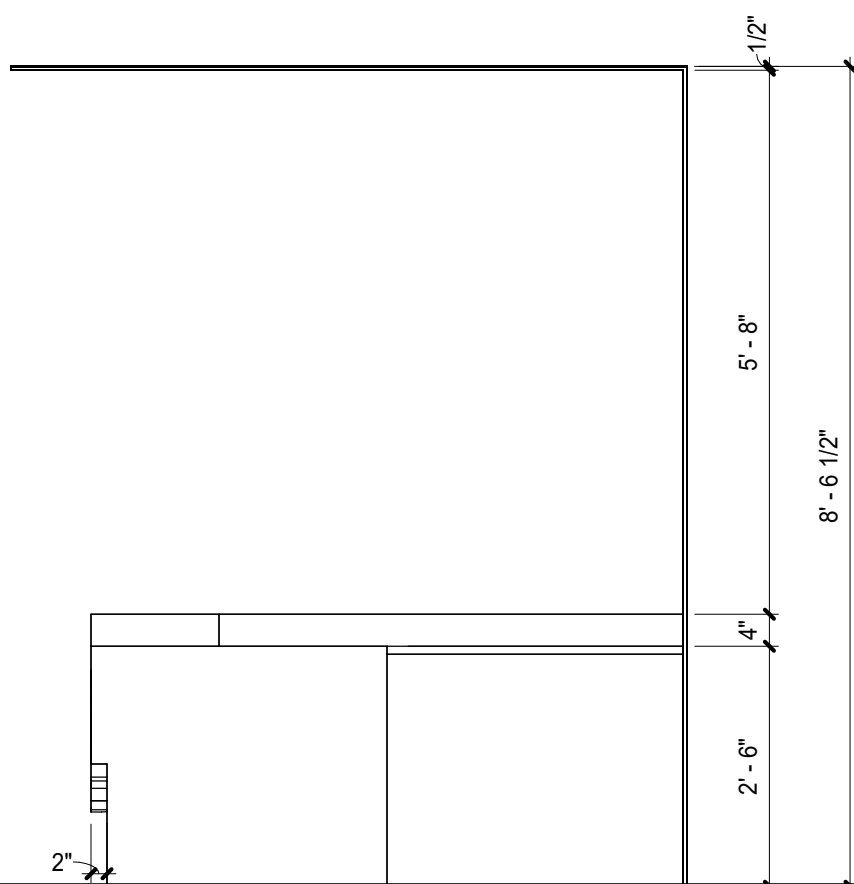
REFERENCE NOTES



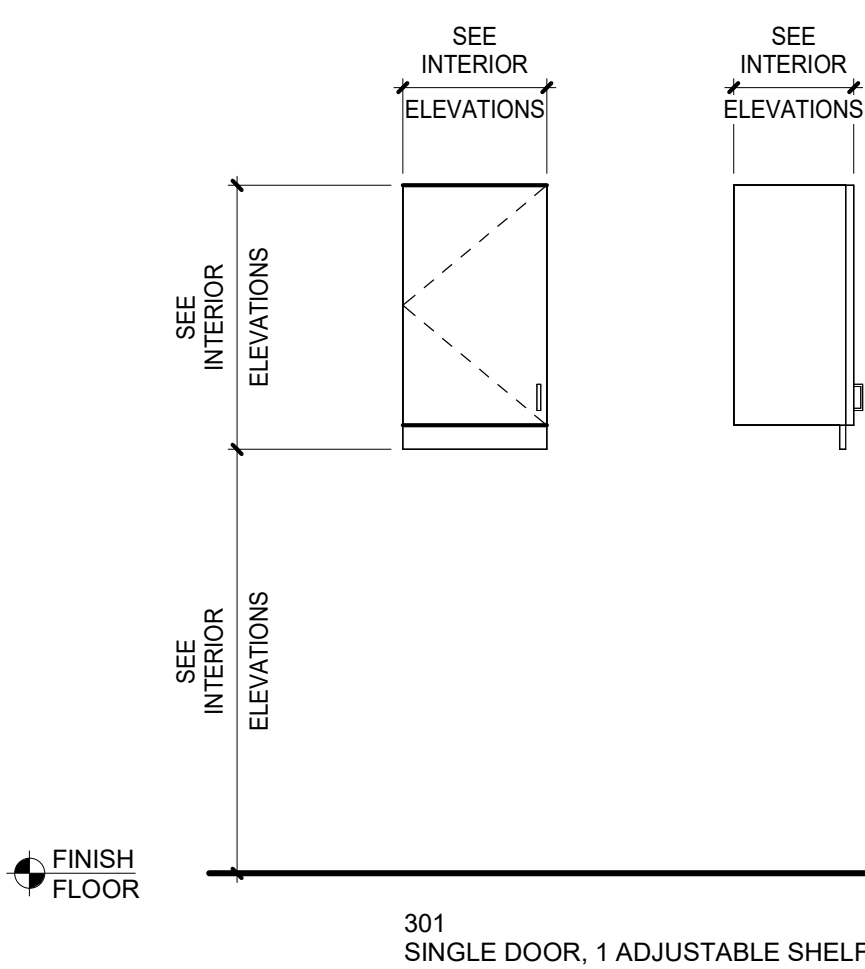
RECEPTION DESK - PLAN



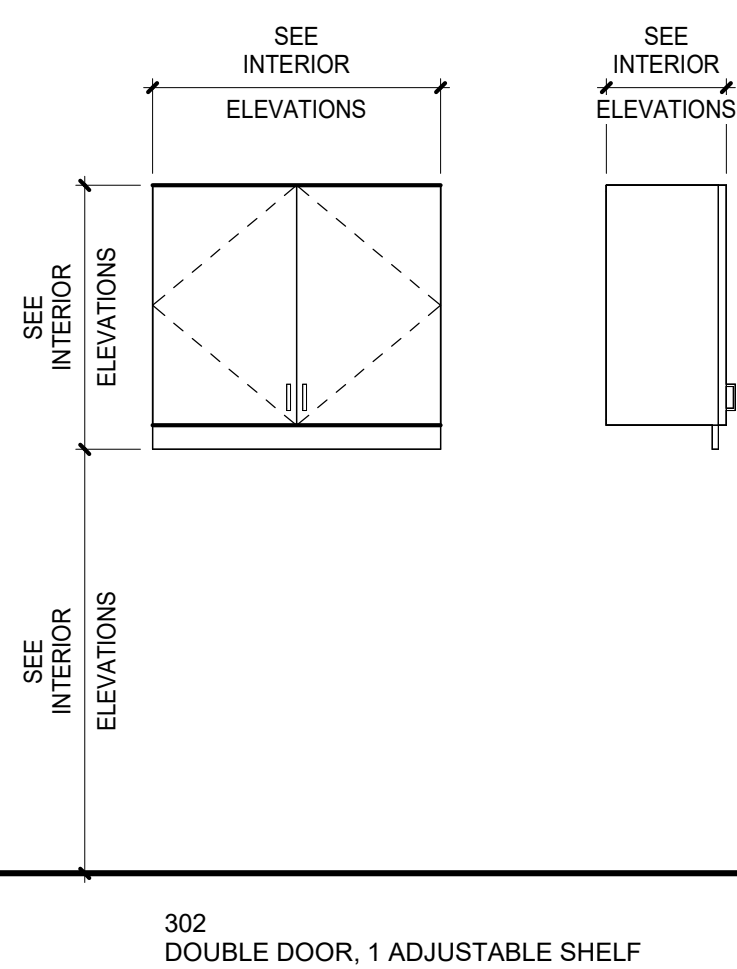
RECEPTION DESK - FRONT



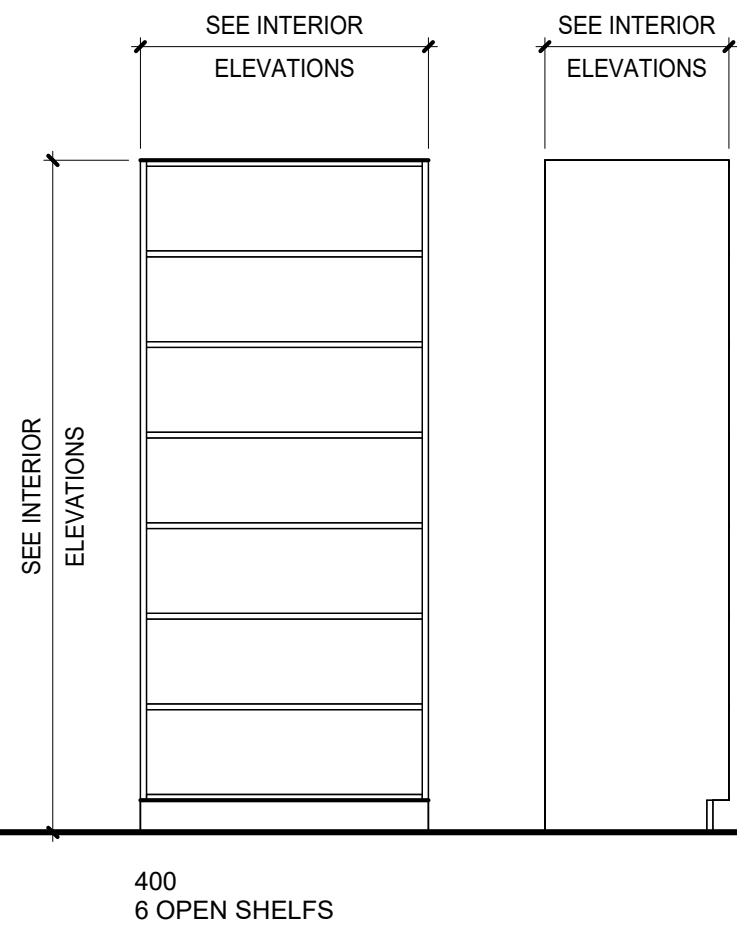
RECEPTION DESK - LEFT



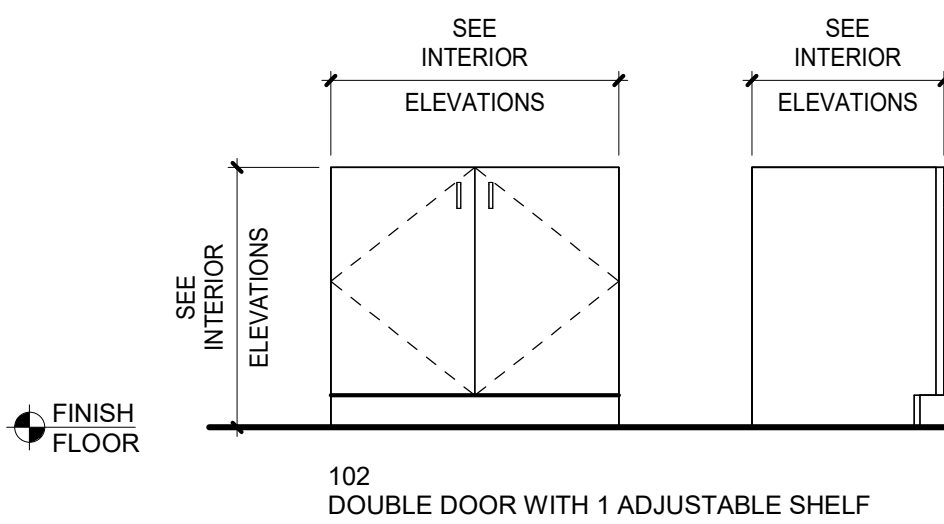
301 SINGLE DOOR, 1 ADJUSTABLE SHELF



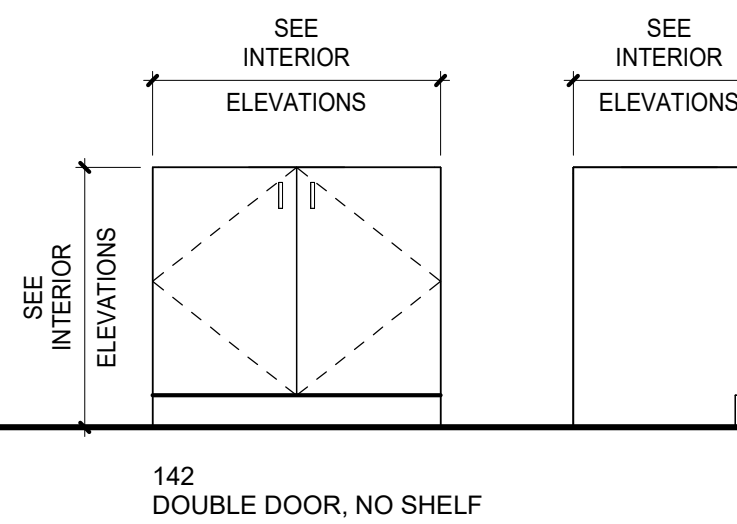
302 DOUBLE DOOR, 1 ADJUSTABLE SHELF



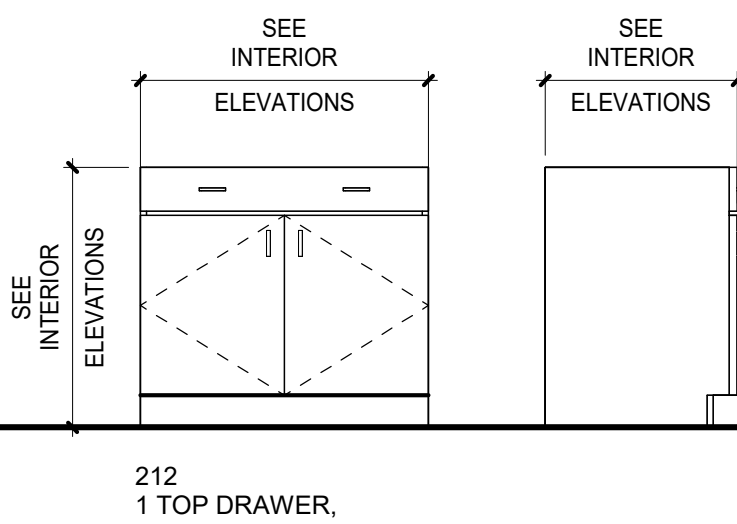
400 6 OPEN SHELFs



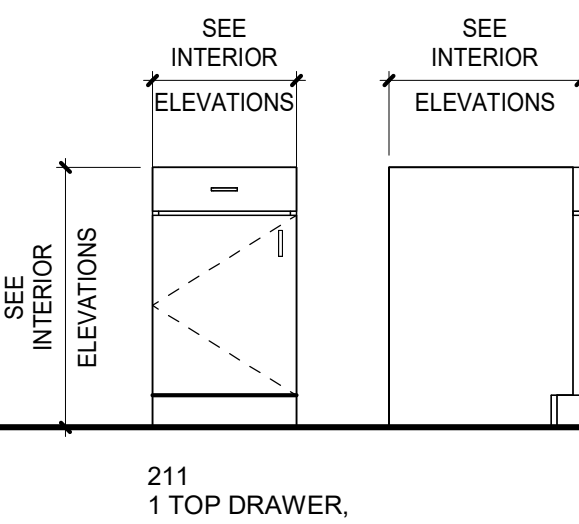
102 DOUBLE DOOR WITH 1 ADJUSTABLE SHELF



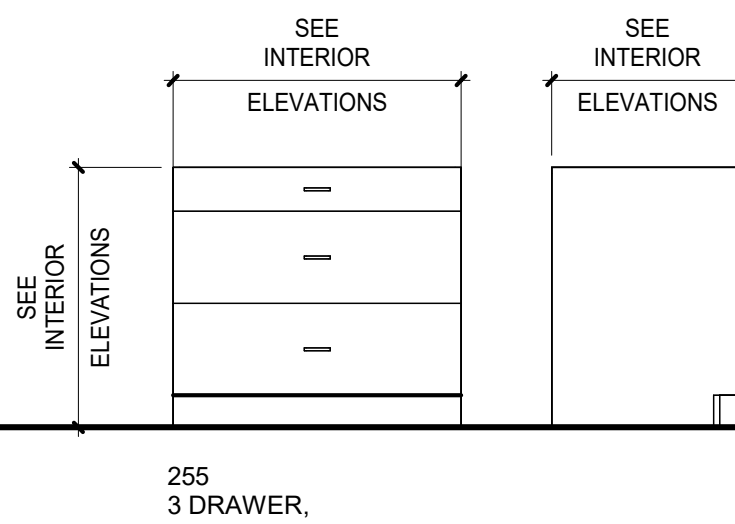
142 DOUBLE DOOR, NO SHELF W/ APRON AND SINK OPENING



212 1 TOP DRAWER, DOUBLE DOOR WITH 1 ADJUSTABLE SHELF



211 1 TOP DRAWER, SINGLE DOOR WITH 1 ADJUSTABLE SHELF



255 3 DRAWER, UNEQUAL SIZES

A1

MILLWORK LEGEND

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



C1 PERSPECTIVE 2
SCALE:



A1 PERSPECTIVE 1
SCALE:

5/09/2024 9:23:09 a.m. A B C D E F G 1 2 3 4 5 6

5/09/2024 9:23:35 a.m. A B C D E F G H I J K L M N O P Q R S T U V W X Y Z



C1 PERSPECTIVE 4
SCALE:



A1 PERSPECTIVE 3
SCALE:

STRUCTURAL NOTES :

A. GENERAL

- [illegible]

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.12 AND 1705.13 ARE IDENTIFIED ON THE DRAWINGS. SPECIAL INSPECTIONS SHALL BE IDENTIFIED ON THE SPECIAL INSPECTION SCHEDULE ON SHEET S012.
2. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTION 1704 THROUGH 1705 AND AS REQUIRED BY THE SPECIAL INSPECTION SCHEDULE AND THE SPECIAL INSPECTION SCHEDULE. JOBSPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17, CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.
3. SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR.
4. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF THE BUILDING AND TO IDENTIFY AND TRACK ALL CRACKS, DEFLECTIONS, SETTLEMENTS, STRUTS IN THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS. STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR SUBMISSION TO THE BUILDING DEPARTMENT. CONTRACTOR SHALL NOT PREVENT ARCHITECT VISITS. SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
5. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, IDENTIFIED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH "CIRCLE 1".

C. BASIS OF DESIGN

1. GOVERNING BUILDING CODE : INTERNATIONAL BUILDING CODE (IBC) 2021
RISK CATEGORY : III
2. ROOF LOADS:
 - a. FLAT-ROOF SNOW LOAD, P_f : 30 PSF
 1. GROUND SNOW LOAD, P_g : 43 PSF
 2. SNOW EXPOSURE FACTOR, C_e : 0.9
 3. SNOW LOAD IMPORTANCE FACTOR, I_s : 1.1
 4. THERMAL FACTOR, C_t : 1.0
 5. SLOPE FACTOR, C_d : 1.0
 6. SNOW DRIFT : SHOWN ON PLANS WHERE APPLICABLE.
 - b. LIVE LOAD = 20 PSF
 - c. DEAD LOAD = 17 PSF
 - d. RAIN INTENSITY, I_r : 1.41 IN/HR
3. WIND DESIGN
 - a. BASIC WIND SPEED (3 SECOND GUST): 110 MPH
 - b. ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD} : 87 MPH
 - c. WIND EXPOSURE : C
 - d. INTERNAL PRESSURE COEFFICIENT, GC_{pi} : +0.18
4. CLADDING AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ACSE 7-16
5. SEISMIC DESIGN :
 - a. SEISMIC IMPORTANCE FACTOR, I_e : 1.25
 - b. SITE CLASS : D=Default
 - c. MAPPED SPECTRAL RESPONSE ACCELERATIONS : $S_s = 1.063$, $S_1 = 0.34$
 - d. SPECTRAL RESPONSE COEFFICIENTS : $S_{DS} = 0.85$, $S_{D1} = 0.46$
 - e. SEISMIC DESIGN CATEGORY : D
 - f. BASIC SEISMIC-FORCE-RESISTING SYSTEM : LIGHT-FRAME (WOOD) SHEAR WALLS
 - g. SEISMIC RESPONSE COEFFICIENT, C_s : 0.164
 - h. RESPONSE MODIFICATION FACTOR, R : 6.5
 - i. ANALYSIS PROCEDURE : EQUIVALENT LATERAL LOAD

D. FOUNDATION

1. GENERAL
- a. DESIGN SOIL PRESSURE = 3000 PSF
- b. SOILS REPORT BY: GSH
- c. REPORT NO.: 0153-921-24
DATED: FEB. 20, 2024
- d. SOIL PREPARATION UNDER FOUNDATIONS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE SOILS REPORT.
- e. TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ACTUAL STEP LOCATIONS SHALL BE AT THE CONTRACTOR'S OPTION FOR FOOTINGS AND EXCEPT FOR EXISTING FOUNDATIONS SHALL BEAR A MINIMUM OF 36 INCHES BELOW LOWEST ADJACENT FINAL GRADE.
- f. ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT DURING DESIGN AND ERECTION OF BRACING/SHORING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH.
- g. UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL BE CONCRETE ON EXISTING FOUNDINGS.
- h. UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.), WITH PRIORITY APPROVAL OF ARCHITECT AND ENGINEER. CONCRETE SHALL BE PLACED IN EXCAVATED AREAS TO A MINIMUM DEPTH THAT THE DIMENSIONS ARE INCREASED 3" ON ALL SIDES.
- i. UNLESS NOTED AND DETAILED OTHERWISE, NO PIPES, DUCTS, CONDUITS, NON-STRUCTURAL ITEMS, ETC. SHALL BE BURIED BELOW OR EMBEDDED IN FOOTING OR FOUNDATION WALLS. SEE TYPICAL DETAIL FOR CONDITIONS WHERE THESE ITEMS CROSS OR RUN PARALLEL TO FOOTINGS / FOUNDATION WALLS.
2. SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ADHESIVE ANCHORING ANCHOR INSTALLATION CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH ACI 308.1B-19 2.7 (a) PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.
3. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:
- a. HILTI HIT-RE 300V (ESR-3814), OR HILTI HIT-200V (ESR-4868)
- b. SIMPSON SET-3G (ESR-4007), OR AT-X2 (ESR-283)
- c. DEWALT PURE 110+ (ESR-3298), OR AC208U+ GOLD (ESR-4027-COLD WEATHER).
4. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
- a. HILTI HIT-HY 270 (HIT-4143)
- b. SIMPSON SET-3G (ESR-4844), OR AT-X2 (ESR-281)
- c. DEWALT AC108U+ GOLD (ESR-6090)
5. UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
- a. HILTI KWIK BOLT-T2Z (ESR-4266)
- b. SIMPSON STRONG-BOLT 1.2 (ESR-3937)
6. UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
- a. HILTI KWIK BOLT-T2Z (ESR-4261)
- b. SIMPSON STRONG BOLT 2 (ESR-4038)
- c. DEWALT SCREWBOLT-T+ (ESR-4042)
7. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
- a. SIMPSON TITEN HD (ESR-2715)
- b. DEWALT SCREWBOLT-T+ (ESR-3889)
- c. HILTI Kwik-Z (ESR-3272)
8. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
- a. SIMPSON TITEN HD (ESR-1056)
- b. DEWALT SCREWBOLT-T+ (ESR-1678)
- c. HILTI Kwik-Z (ESR-3056)
9. ALL MASONRY CELLS WITHIN 8" OF THE ANCHOR SHALL BE SOLID GROUTED.
10. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
11. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 2 INCHES, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT OR AN APPROVED ANCHORING ADHESIVE. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR IS LOCATED IN AN AREA OF EXISTING REINFORCEMENT, THE ENGINEER WILL DETERMINE A NEW LOCATION.
12. LOCATE REINFORCEMENT AND CONFIRM ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

E. CONCRETE

1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH **THE PROJECT SPECIFICATIONS AND THE REQUIREMENTS LISTED BELOW :**

ELEMENT	EXPOSURE CATEGORY	fc, At 28 DAYS (PSI)	MAX. W/C RATIO	AIR CONTENT %	MAX. AGGREGATE SIZE
Interior Slabs on Grade	F0 S0 W0 C0	3000	---	---	---
Interior Slabs on Metal Deck	F0 S0 W0 C0	3000	---	---	---
Interior Suspended Slabs	F0 S0 W0 C0	5500	0.42	---	3/4"
Exterior Suspended Slabs and/or Parking Slabs	F3 S0 W0 C1	5500	0.40	Note c	---
Mat Foundations	F0 S0 W1 C0	3000	---	---	---
FTG / Grade Beams / FDN Walls*	F0 S0 W1 C0	3000	---	---	1"
FTG / Grade Beams / FDN Walls*	F2 S0 W1 C1	4500	0.45	Note c	1"
Retaining Walls	F2 S0 W1 C1	4500	0.45	Note c	1"
All Other Site Cast Concrete	F0 S0 W1 C1	4500	0.45	Note c	1"
Pre-Cast Tilt-Up Wall Panels	F2 S0 W1 C1	4500	0.45	Note c	1"

NOTES :

- a. ELEMENT IS NOT EXPOSED TO FREEZING AND / OR IS BURIED IN SOIL BELOW THE FROST LINE.
- b. ELEMENT IS EXPOSED TO FREEZING AND / OR IS LOCATED ABOVE THE FROST LINE.
- c. TOTAL AIR CONTENT FOR CONCRETE EXPOSED TO CYCLES OF FREEZING AND THAWING SHALL BE DETERMINED IN ACCORDANCE WITH THIS SCHEDULE. TOLERANCE ON AIR CONTENT AS DELIVERED SHALL BE +/- 1.5 PERCENT.

NOMINAL MAXIMUM AGGREGATE SIZE, IN.	TARGET AIR CONTENT, PERCENT	
	F1	F2 AND F3
3/8	6	7.5
1/2	5.5	7
3/4	5	6
1	4.5	6
1-1/2	4.5	5.5
2	4	5
3	3.5	4.5

2. WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602.
3. NO CONDUIT, PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAIL OR OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE POUR.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC.
5. UNLESS NOTED OTHERWISE, MINIMUM REINFORCING IN ALL CONCRETE FOUNDATION WALLS SHALL BE AS FOLLOWS:
- | THICKNESS | TOP & BOTTOM BARS | VERTICAL | HORIZONTAL |
|-----------|-------------------|-----------------------|-----------------------|
| 6" | (1) #5 | #4 AT 18" O.C. | #4 AT 16" O.C. |
| 8" | (2) #5 | #4 AT 18" O.C. | #4 AT 12" O.C. |
| 10" | (2) #5 | #4 AT 18" O.C. | #4 AT 12" O.C. |
| 12" | (2) #5 | #4 AT 18" O.C. E/FACE | #4 AT 16" O.C. E/FACE |
6. UNLESS NOTED OTHERWISE, CONCRETE SLABS ON EARTH SHALL BE REINFORCED AS FOLLOWS:

7. REINFORCING SHALL BE CONTINUOUSLY SUPPORTED AT 36" O.C. MAXIMUM SPACING. ALL REINFORCING SHALL BE PLACED AT LEAST 4" FROM THE TOP AND 2" FROM THE BOTTOM AND LARGER THAN 1" AND SMALLER THAN 24" IN ANY DIRECTION ADJ. (2) #5 BARS ON ALL SIDES IN ADDITION TO REGULAR WALL REINFORCING AND EXTEND 24" EACH WAY BEYOND OPENING. IF 24" IS NOT AVAILABLE ON EVERY SIDE, THE OPENING SHALL BE 12" MAXIMUM. BEYOND OPENING, OPENING SHALL HAVE A MINIMUM OF 12" OF CONCRETE ABOVE THE OPENING. TYP.
8. CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE MADE AND LOCATED SO AS TO NOT INTERFERE WITH STRENGTH AND INTEGRITY OF THE STRUCTURE. PROVIDE 2' X 4" (SHAPE) KEYWAY IN ALL VERTICAL AND HORIZONTAL JOINTS UNLESS NOTED OR DETAILED OTHERWISE. ALL STEEL REINFORCING SHALL BE CONTINUOUS THROUGH COLD JOINTS ON ALL SIDES UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS FOR COLD/CONSTRUCTION JOINTS FOR SLABS ON GRADE.
9. WHERE NEW CONCRETE IS PLACED AGAINST PREVIOUSLY HARNED CONCRETE, THE JOINT SHALL BE CLEANED AND FRESH CONCRETE SHALL BE PLACED AGAINST THE EXISTING CONCRETE. CONSTRUCTION JOINTS SHALL BE PREWETTED AND STANDING WATER REMOVED.

F. ANCHOR BOLTS/EMBEDDED BOLTS

1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR OVERSIZED HOLES AS SPEC. SPECIFICATION TABLE J.3.3 WHERE HOLE SIZES DO NOT CORRESPOND WITH THE STANDARD HOLE SIZES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BEING NOTIFIED TO DETERMINE STEEL PLATE WELDING REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING :
 - a. AT BRACED FRAMES & MOMENT RESISTING FRAMES - ASTM F1554 GRADE 105 HEADED BOLT, ASTM F1554 F1554 THREADED ROD OF SAME GRADE MAY BE USED WITH DOUBLE NUT AND WASHER.)
 - b. AT WOOD STUD WALLS - ASTM A-307 GRADE HEADED BOLTS. ANCHOR BOLTS IN TREATED LUMBER SHALL BE GALVANIZED OR STAINLESS STEEL. SEE TIMBER NOTES FOR MORE INFORMATION.
 - c. AT ALL OTHER ANCHOR BOLTS (UNLESS NOTED OTHERWISE) - ASTM F1554 GRADE 36 HEADED BOLTS. (ASTM A36 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.)
2. EMBEDDED BOLTS IN MASONRY SHALL BE (UNLESS NOTED OTHERWISE) ASTM A-307 GRADE HEADED BOLTS.
3. SEE TYPICAL ANCHOR BOLT DETAIL FOR DEFINITIONS OF EMBEDMENT LENGTH, ETC.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY OTHER DATA REQUIRED PRIOR TO PLACING CONCRETE AND/OR GROUT.
5. IF THREADED RODS ARE USED AS PERMITTED ABOVE, THEY SHALL BE CLEAR OF SOIL AND DIRT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY OTHER DATA REQUIRED PRIOR TO THE USE OF STEEL PLATE WASHERS AT THE DISCRETION OF THE STRUCTURAL ENGINEER.

G. ADHESIVE/MECHANICAL ANCHORS

1. WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST-INSTALLED ANCHORS WHERE CAST-IN PLACE ANCHORS ARE SPECIFIED IN THE DRAWINGS. ANY SUBSTITUTION OF SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR ANCHORS, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED, WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
2. SUBSTITUTION OF SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR ANCHORS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN INTENT.
3. ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICCES, IAPMO, OR APPROVED BELOW) AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI).
4. INSTALLERS SHALL BE, AT A MINIMUM, TRAINED FOR THE SPECIFIC APPLICATION INSTALLATION TECHNIQUE FOR THE PRODUCT BY THE PRODUCT MANUFACTURER'S FIELD EMPLOYEE OR SHALL POSSESS A TRAINING CARD OBTAINED BY THE MANUFACTURER'S ONLINE TRAINING PROGRAM.
5. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
7. ADHESIVE ANCHORS SHALL CONSIST OF REINFORCING BAR OR THREADED RODS AS INDICATED IN THE DOCUMENT.
8. SHALL BE APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL NOT DRY AND FREE OF WATER FOR 14 DAYS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR GRACES TO INSTILL IN DAMP, WATER SATURATED, OR WATER-FILLED HOLES.
9. CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR, COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI) RELATIVE TO SUBSTRATE TEMPERATURE.
10. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCINED TO SUPPORT TENSION LOADS SHALL BE PERFORMED BY AN EMPLOYEE CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/ASR ADHESIVE ANCHOR INSTALLATION CERTIFICATION PROGRAM, OR AS REQUIRED IN ACCORDANCE WITH 315-10.26 (1) (a) PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.
11. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:
- a. HLTI HIT-RE 503V (ESR-381), OR HLTI HIT-HY 200-V3 (ESR-468).
 - b. SIMPSON SET-3G (ESR-407), OR AT-XP (ESR-263).
 - c. SIMPSON PURE 110Z (ESR-3288), OR AC308 GOLD (ESR-4027-COLD WEATHER).
12. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
- a. HLTI HIT-HY 270 (ESR-443).
 - b. SIMPSON SET-3G (ESR-484), OR AT-XP (ESR-281).
 - c. DEWALT AC108 GOLD (ESR-3200).
13. UNLESS NOTED OTHER WISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
- a. HLTI KWIK BOLT 1-TZ (ESR-4296).
 - b. SIMPSON STRONG-BOLT 2 (ESR-3037).
14. UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
- a. HLTI KWIK BOLT 1-TZ (ESR-4296).
 - b. SIMPSON STRONG BOLT 2 (ESR-4040).
 - c. DEWALT SCREW BOLT 1 (ESR-3951).
15. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
- a. SIMPSON TITEN HD (ESR-2713).
 - b. DEWALT SCREW BOLT 1 (ESR-3889).
 - c. HLTI KH4Z (ESR-3027).
16. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
- a. SIMPSON TITEN HD (ESR-1059).
 - b. DEWALT SCREW BOLT 1 (ESR-1078).
 - c. HLTI KH 4Z (ESR-3056).
17. ALL MASONRY CELLS WITHIN 8" OF THE ANCHOR SHALL BE SOLID GROUTED.
18. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING SHALL BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
19. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM 4" CLEARANCE FROM THE HOLE DOWELS OR 2" INCHES, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT OR AN EPOXY ANCHORING AGENT. LOCATE ANCHORS AT CONTRACTOR'S OPTION. LOCATE ANCHORS IN CONCRETE PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
20. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
- NOT BE SUBSTITUTED FOR HSAs OR DBAs.
6. WHEREVER POSSIBLE, WELDS SHALL BE SHOP WELDS. SOME SPECIAL CONSIDERATIONS, SUCH AS THOSE WHICH MAY NEED ADJUSTMENT AT THE SITE, REQUIRE THAT SOME WELDS BE FIELD WELDS. WHERE QUESTIONS OR DISCREPANCIES OCCUR THE CONTRACTOR SHALL COORDINATE THE WORK BETWEEN THE SHOP FABRICATOR AND THE STEEL ERECTOR.
7. SPECIAL PROVISIONS FOR SPRAYS (SEISMIC FASTENING SYSTEM):
1. ALL WELDS DESIGNATED AS DEMAND CRITICAL WELDS SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSES 6.1, 6.2, AND 6.3 OF AWS D1.8.
 2. ALL OTHER WELDS THAT ARE PART OF THE SPRS SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSE 6.1 OF AWS D1.8.
 3. BUTT WELDS IN MEMBERS WITH DIFFERENT THICKNESSES, SUCH AS COLUMN SPLICES, SHALL BE TAPERED AND MADE IN SUCH A MANNER THAT THE TRANSITION DOES NOT EXCEED 1/8" TAPERING. THE TRANSITION SHALL BE ACCOMPLISHED BY CHAMFERING THE THICKER PART, TAPERING THE WIDER PART, SLOPING THE WELD METAL OR BY A COMBINATION OF THESE.
8. BOLTING:
- a. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL TO STEEL CONNECTIONS SHALL USE HIGH STRENGTH BOLTS CONFORMING TO ASTM F3125 GR. A325.
 - b. UNLESS NOTED OTHERWISE, ALL BOLTING IS CLASSIFIED AS NON-SLIP CRITICAL. BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION, WITH ALL PLIES OF THE JOINT IN FIRM CONTACT.
 - c. WHERE OVERSIZED OR SLOTTED HOLES OCCUR IN THE OUTER PLY, AN ASTM F436 WASHER OR 5/16" THICK COMMON PLATE WASHER SHALL BE USED AS REQUIRED TO COMPLETELY COVER THE SLOTTED HOLE.
 - d. BOLTS SHALL BE CENTERED IN SLOTTED HOLES, UNLESS NOTED OTHERWISE.
 - e. WHERE A STEEL BEAM TO BEAM CONNECTION IS NOT SHOWN, PROVIDE AN AISI STANDARD FRAMED CONNECTION TO BEAM FOR 1/2 OF THE TOTAL LOAD CAPACITY OF THE BEAM FOR THE SPAN AND STEEL TYPE SPECIFIED.
9. UNLESS NOTED OTHERWISE, WHERE STEEL BEAMS SUPPORT WOOD FRAMING OR WOOD SHEATHING, PROVIDE A CONTINUOUS END PLATE OR END PLATE WITH TWO 1/2" DIA. PLATES TO THE END OF THE BEAM EXTENDING AT LEAST THE FULL WIDTH OF THE BEAM FLANGE. ATTACH END PLATE TO WIDE-FLANGE BEAMS WITH 1/2" DIAMETER THRU BOLTS AT 24" O.C. - STAGGERED. COUNTER-SINK 1/2" DIA. BOLTS INTO TOP OF WALKER PLATE TO PROVIDE 1/2" MIN. END PLATE TO WALKER PLATE CONTACT.
10. ALL COLUMNS ADJACENT TO OR EMBEDDED IN WOOD STUD WALLS SHALL HAVE (1) 1/2" DIAMETER X 3-1/2" THREADED STEEL ROD SHOP-WELDED TO THE FACE OF THE COLUMN AT 24" O.C. AND EXTENDING EACH WAY INTO THE ADJACENT STUD WALLS. ATTACH ADJACENT WOOD WALL STUDS TO STEEL COLUMN WITH STANDARD NUT AND WASHER AS REQUIRED.
11. PROVIDE FULL DEPTH WELD STIFFENER PLATES AT EACH SIDE OF STEEL BEAMS AT ALL BEARING (EXCEPT SECOND END FRAMING) JOINTS. STIFFENERS SHALL BE THICKNESS OF STEEL BEAM UNLESS NOTED OTHERWISE AND SHALL BE WELDED BOTH SIDES WITH FILLET WELDS ALL AROUND.
- | FLANGE WIDTH | STIFFENER THICKNESS | WELD THICKNESS |
|-------------------------|---------------------|----------------|
| 8" - 14" | 3/8" | 1/4" |
| 8 1/4" - 8" F - 12 1/2" | 3/8" | 1/4" |
| 12 1/2" - 8" F - 16" | 3/8" | 5/16" |
12. FABRICATORS AND SUPPLIERS SHALL COORDINATE FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC. AS NOTED IN THE PROJECT SPECIFICATIONS.
13. WHEN DETERMINING THE FIRE RESISTANCE OF ASSEMBLIES, USE THE FOLLOWING: STEEL ROOF MEMBERS ARE CONSIDERED UN-RESTRAINED AND STEEL FLOOR FRAMING MEMBERS ARE CONSIDERED RESTRAINED.
14. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE ERRECTED WITH THE NATURAL GROWN.
15. UNLESS OTHERWISE SHOWN OR DETAILED IN THE PLANS, ALL STEEL COLUMNS, BEAMS, BRACES, STRUTS, ETC. SHALL BE CONTINUOUS BETWEEN CONNECTIONS OR SUPPORTS. SPLICES IN MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.
- STRUCTURAL NOTES CONTINUED ON SHEET 5010**

H. REINFORCING STEEL


























1. REINFORCING BAR STRENGTH REQUIREMENTS:
- a. ALL REINFORCING BARS EXCEPT AS INDICATED IN NOTE 8, SHALL CONFORM TO ASTM STANDARD 60. ALL GRADE 60 BARS SHALL BE FURNISHED WITH FABRIC SHALL CONFORM TO ASTM STANDARD A-1084 AND SHALL BE SUPPLIED IN FLAT SHEETS, ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.
2. HEADEND SHEAR STUD ASSEMBLIES SHALL CONFORM TO ASTM A 1084.
3. HEADEND CONTINUOUS FIBER REINFORCING SHALL BE FORMED AND CONFORM TO ASTM A820 AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100.
4. HEADEND DEFORMED BARS SHALL CONFORM TO ASTM A970. OBSTRUCTIONS OR INTERRUPTIONS OF THE REINFORCEMENT AT ANY, SHALL NOT EXTEND MORE THAN 2 BAR DIAMETERS FROM THE BEARING FACE OF THE HEAD.
5. ALL REINFORCING STEEL SHALL BE TIED IN PLACE AND ADEQUATELY SUPPORTED PRIOR TO PLACING AND SETTING. WET OR DRY, REINFORCEMENT SHALL NOT BE PERMITTED, UNLESS SPECIFICALLY DETAILED OTHERWISE OR APPROVED BY THE ENGINEER.
6. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
7. UNLESS NOTED OTHERWISE, ALL REINFORCING SHALL BE PLACED WITH THE FOLLOWING COVERAGE:
- a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
 - b. EXPOSED TO EARTH OR WEATHER :
 - 1. LARGER 1-1/2"
 - 2. #5 & SMALLER 1-1/2"
 - c. NOT EXPOSED TO WEATHER OR EARTH :
 - 1. SLABS, WALLS, JOISTS, #11 & SMALLER 3/4"
 - 2. BEAMS, COLUMNS, MAIN REINFORCING OR TIES 1-1/2"
 - d. SLAB ON GRADE
8. PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE.
9. EXCEPT WHERE NOTED ON PLANS OR DETAILS, CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE.
10. REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT WHERE THESE ARE USED, SPLICES ON ADJACENT BARS SHALL BE STAGGERED AT LEAST 12 INCHES.
11. ALL VERTICAL REINFORCING IN STRUCTURAL ELEMENTS ABOVE SHALL BE SPLICED WITH MATCHING DOWELS EMBEDDED WITHIN THE FOOTINGS OR STRUCTURE BELOW. SPLICE LENGTHS SHALL COMPLY WITH THE REBAR LAP SCHEDULE. REINFORCING SHALL NOT BE SPLICED IN THE FOOTING, BUT SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING, BUT NEED NOT EXTEND MORE THAN 20" INTO FOOTING.
12. DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS, WHERE REINFORCING IS WELDED, USE A WELD REINFORCING.
13. REINFORCING BARS, TIES, AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED TIE-WIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED BY CONCRETE DOWELS.
14. UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL SHALL MEET THE STANDARDS SET FORTH IN ACI 318/308R-19, UNLESS OTHERWISE PERMITTED BY THE ENGINEER. ALL REBAR SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE PERMITTED BY THE ENGINEER.
15. UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT BE IN CONTACT WITH REINFORCING STEEL.




I. STRUCTURAL STEEL




1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:
- a. **ANSI/ASCE 360-10** "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" WITH "COMMENTARY" AND "SUPPLEMENTS" AS REQUIRED BY BUILDING CODE.
 - b. **ASCS 303-16** "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCLUDING THE FOLLOWING SHAPES: PLATES, ANGLES, AND WT SHAPES - ASTM A441, A442, A443, A444, A445, A446, A447, A448, A449, A450, A451, A452, A453, A454, A455, A456, A457, A458, A459, A460, A461, A462, A463, A464, A465, A466, A467, A468, A469, A470, A471, A472, A473, A474, A475, A476, A477, A478, A479, A480, A481, A482, A483, A484, A485, A486, A487, A488, A489, A490, A491, A492, A493, A494, A495, A496, A497, A498, A499, A500, A501, A502, A503, A504, A505, A506, A507, A508, A509, A510, A511, A512, A513, A514, A515, A516, A517, A518, A519, A520, A521, A522, A523, A524, A525, A526, A527, A528, A529, A530, A531, A532, A533, A534, A535, A536, A537, A538, A539, A540, A541, A542, A543, A544, A545, A546, A547, A548, A549, A550, A551, A552, A553, A554, A555, A556, A557, A558, A559, A560, A561, A562, A563, A564, A565, A566, A567, A568, A569, A570, A571, A572, A573, A574, A575, A576, A577, A578, A579, A580, A581, A582, A583, A584, A585, A586, A587, A588, A589, A590, A591, A592, A593, A594, A595, A596, A597, A598, A599, A600, A601, A602, A603, A604, A605, A606, A607, A608, A609, A610, A611, A612, A613, A614, A615, A616, A617, A618, A619, A620, A621, A622, A623, A624, A625, A626, A627, A628, A629, A630, A631, A632, A633, A634, A635, A636, A637, A638, A639, A640, A641, A642, A643, A644, A645, A646, A647, A648, A649, A650, A651, A652, A653, A654, A655, A656, A657, A658, A659, A660, A661, A662, A663, A664, A665, A666, A667, A668, A669, A670, A671, A672, A673, A674, A675, A676, A677, A678, A679, A680, A681, A682, A683, A684, A685, A686, A687, A688, A689, A690, A691, A692, A693, A694, A695, A696, A697, A698, A699, A700, A701, A702, A703, A704, A705, A706, A707, A708, A709, A710, A711, A712, A713, A714, A715, A716, A717, A718, A719, A720, A721, A722, A723, A724, A725, A726, A727, A728, A729, A730, A731, A732, A733, A734, A735, A736, A737, A738, A739, A740, A741, A742, A743, A744, A745, A746, A747, A748, A749, A750, A751, A752, A753, A754, A755, A756, A757, A758, A759, A760, A761, A762, A763, A764, A765, A766, A767, A768, A769, A770, A771, A772, A773, A774, A775, A776, A777, A778, A779, A780, A781, A782, A783, A784, A785, A786, A787, A788, A789, A790, A791, A792, A793, A794, A795, A796, A797, A798, A799, A800, A801, A802, A803, A804, A805, A806, A807, A808, A809, A810, A811, A812, A813, A814, A815, A816, A817, A818, A819, A820, A821, A822, A823, A824, A825, A826, A827, A828, A829, A830, A831, A832, A833, A834, A835, A836, A837, A838, A839, A840, A841, A842, A843, A844, A845, A846, A847, A848, A849, A850, A851, A852, A853, A854, A855, A856, A857, A858, A859, A860, A861, A862, A863, A864, A865, A866, A867, A868, A869, A870, A871, A872, A873, A874, A875, A876, A877, A878, A879, A880, A881, A882, A883, A884, A885, A886, A887, A888, A889, A890, A891, A892, A893, A894, A895, A896, A897, A898, A899, A900, A901, A902, A903, A904, A905, A906, A907, A908, A909, A910, A911, A912, A913, A914, A915, A916, A917, A918, A919, A920, A921, A922, A923, A924, A925, A926, A927, A928, A929, A930, A931, A932, A933, A934, A935, A936, A937, A938, A939, A940, A941, A942, A943, A944, A945, A946, A947, A948, A949, A950, A951, A952, A953, A954, A955, A956, A957, A958, A959, A960, A961, A962, A963, A964, A965, A966, A967, A968, A969, A970, A971, A972, A973, A974, A975, A976, A977, A978, A979, A980, A981, A982, A983, A984, A985, A986, A987, A988, A989, A990, A991, A992, A993, A994, A995, A996, A997, A998, A999, A1000, A1001, A1002, A1003, A1004, A1005, A1006, A1007, A1008, A1009, A1010, A1011, A1012, A1013, A1014, A1015, A1016, A1017, A1018, A1019, A1020, A1021, A1022, A1023, A1024, A1025, A1026, A1027, A1028, A1029, A1030, A1031, A1032, A1033, A1034, A1035, A1036, A1037, A1038, A1039, A1040, A1041, A1042, A1043, A1044, A1045, A1046, A1047, A1048, A1049, A1050, A1051, A1052, A1053, A1054, A1055, A1056, A1057, A1058, A1059, A1060, A1061, A1062, A1063, A1064, A1065, A1066, A1067, A1068, A1069, A1070, A1071, A1072, A1073, A1074, A1075, A1076, A1077, A1078, A1079, A1080, A1081, A1082, A1083, A1084, A1085, A1086, A1087, A1088, A1089, A1090, A1091, A1092, A1093, A1094, A1095, A1096, A1097, A1098, A1099, A1100, A1101, A1102, A1103, A1104, A1105, A1106, A1107, A1108, A1109, A1110, A1111, A1112, A1113, A1114, A1115, A1116, A1117, A1118, A1119, A1120, A1121, A1122, A1123, A1124, A1125, A1126, A1127, A1128, A1129, A1130, A1131, A1132, A1133, A1134, A1135, A1136, A1137, A1138, A1139, A1140, A1141, A1142, A1143, A1144, A1145, A1146, A1147, A1148, A1149, A1150, A1151, A1152, A1153, A1154, A1155, A1156, A1157, A1158, A1159, A1160, A1161, A1162, A1163, A1164, A1165, A1166, A1167, A1168, A1169, A1170, A1171, A1172, A1173, A1174, A1175, A1176, A1177, A1178, A1179, A1180, A1181, A1182, A1183, A1184, A1185, A1186, A1187, A1188, A1189, A1190, A11






STRUCTURAL NOTES CONTINUED ON SHEET S010

LEGEND OF SYMBOLS AND ABBREVIATIONS

AB	=	ANCHOR BOLT		FOOTING MARK
ABV	=	ABOVE		TOP OF FOOTING ELEVATION
ARCH	=	ARCHITECT		SECTION MARK
BLW	=	BELOW		SHEET NUMBER
BN	=	BOUNDARY NAILING		
BRB	=	BUCKLING RESTRAINED BRACE		
BRBF	=	BUCKLING RESTRAINED BRACE FRAME		TOP OF FOUNDATION WALL OR COLUMN PIER ELEVATION
CJP	=	COMPLETE JOINT PENETRATION		
CL	=	CENTERLINE		
CMU	=	CONCRETE MASONRY UNIT		
COL	=	COLUMN		SHEAR WALL - SEE SCHEDULE
CONC	=	CONCRETE		MIN. LENGTH OF SHEAR WALL
CP	=	CONCRETE PIER		
DC	=	DEMAND CRITICAL		FOOTING STEP
DIA (Ø)	=	DIAMETER		
DBA	=	DEFORMED BAR ANCHOR		MASONRY WALL
DBE	=	DECK BEARING ELEVATION		
ELEV	=	ELEVATION		DEPRESS FDN. WALL AND POUR FLOOR SLAB OVER AT MASONRY FOUNDATION WALL
EN	=	EDGE NAILING		
EOD	=	EDGE OF DECK		DEPRESS FDN. WALL AND POUR FLOOR SLAB OVER AT CONCRETE FOUNDATION WALL
FDN	=	FOUNDATION		
FTG	=	FOOTING		
FRF	=	FINISHED FLOOR ELEVATION		
GB	=	CONCRETE GRADE BEAM		
HSA	=	HEADED STUD ANCHOR		
JBE	=	JOIST BEARING ELEVATION		MASONRY BEAM
KB	=	KICKER BRACE		CONCRETE BEAM
MAX	=	MAXIMUM		
MB	=	MASONRY BEAM		
MC	=	MASONRY COLUMN		
MECH	=	MECHANICAL		
MEZZ	=	MEZZANINE		
MIN	=	MINIMUM		
MJ	=	MASONRY JAMB		
MW	=	MASONRY WALL		
NS, FS	=	NEAR SIDE, FAR SIDE		
OAE	=	OR APPROVED EQUAL		
OP	=	OPPOSITE		
PAF	=	POWDER ACTUATED FASTENER		
PL	=	PLATE		FRAMING ANGLE SEE TYPICAL DETAIL
REIN	=	REINFORCING		FRAMING CHANNEL SEE TYPICAL DETAIL
REQ'D	=	REQUIRED		
SM	=	SIMILAR		
SSH	=	STEEL STUD HEADER		
SS(L)	=	STEEL STUD LAMB		
SSS	=	STEEL STUD SILL		
SSW	=	STEEL STUD WALL		
TOR	=	TOP OF BEARING ELEVATION		
TOC	=	TOP OF FOOTING ELEVATION		
TOG	=	TOP OF GIRDER ELEVATION		
TOM	=	TOP OF MASONRY		
TOS	=	TOP OF STEEL ELEVATION		
TYP	=	TYPICAL		
UNO	=	UNLESS NOTED OTHERWISE		

	HD -	SIMPSON HOLDOWN POST
	POST -	SIZE OF END POST CONNECTED TO HOLDOWN
	"A" -	PLAN CONFIGURATION AT HOLDOWN AT FOUNDATION

	ELEVATION	
	FRAMING ANGLE SEE TYPICAL DETAIL	
	FRAMING CHANNEL SEE TYPICAL DETAIL	

	ITEMS, DETAILS, & SYSTEMS WHICH ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.	
	BRACED FRAME	
	MOMENT RESISTING CONNECTIONS - SEE DETAIL	
	MOMENT RESISTING CANTILEVER CONNECTIONS - SEE DETAIL	
	KICKER BRACE	

Structural Sheet Index	
SHEET NUMBER	SHEET NAME
S001	STRUCTURAL NOTES
S010	SCHEDULES
S011	SCHEDULES
S012	SCHEDULES
S101	FOOTING & FOUNDATION PLAN
S102	LOW ROOF FRAMING PLAN
S103	HIGH ROOF FRAMING PLAN
S104	SNOW DRIFT PLAN
S201	TYPICAL DETAILS
S210	FOUNDATION DETAILS
S220	FRAMING DETAILS
S221	FRAMING DETAILS
S301	ELEVATIONS
S401	SCHEMATIC REFERENCE

STRUCTURAL NOTES CONTINUED FROM SHEET S001:

J. TIMBER

1. WOOD GRADES (UNLESS NOTED OTHERWISE)
- a. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH CLEARLY MARKED WITH A STAMP BY WWPA APPROVED AGENCY AND SHALL BE GRADED AS FOLLOWS:
1. HORIZONTAL MEMBERS: JOISTS & RAFTERS: NO. 2, BEAMS & STRINGERS: NO. 2.
2. VERTICAL MEMBERS: POST & TRIMMERS: NO. 1, STUDS: NO. 2.
- b. ALL FRAMING IN CONTACT WITH FOOTINGS, FOUNDATION OR SLABS ON GRADE SHALL BE PRESSURE TREATED OR TIMBERSTRAND LSL TREATED LUMBER WITH EQUIVALENT STRESS GRADES TO TYPICAL FRAMING MEMBERS.
- c. GLULAMINATED BEAMS SHALL BE DOUGLAS-FIR ARCHITECTURAL APPEARANCE GRADE WITH A COMBINATION NUMBER 24F-V4 EXCEPT CANTILEVERED AND CONTINUOUS BEAMS SHALL BE COMBINATION NUMBER 24F-V8.
- d. UNLESS NOTED OTHERWISE, ALL ENGINEERED LUMBER SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
- MODULUS OF ELASTICITY FLEXURAL STRESS RATING
- VLV: 2,000,000 PSI 2,600 PSI
- PSL: 2,200,000 PSI 2,900 PSI
- LSL: 2,500,000 PSI 2,250 PSI
- e. ALL WOOD "I" JOISTS AND BRIDGING SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL.
2. SHEATHING SHALL BE APA RATED SHEATHING, EXPOSURE I, EXTERIOR GLUE AND PANEL INDEX RATING AS NOTED BELOW UNLESS NOTED OTHERWISE.
- LOCATION THICKNESS PANEL INDEX
- WALLS: 7/16" 2410
- FLOORS: 23/32" 48/24
- ROOFS: 19/32" 32/16
3. INDIVIDUAL PIECES OF SHEATHING AT ROOF, FLOOR, AND SHEAR WALLS SHALL NOT BE SMALLER THAN 24" IN EITHER DIRECTION AND SHALL SPAN A MINIMUM OF TWO FRAMING SPACES, UNO.
4. ALL 23/32" FLOOR SHEATHING SHALL BE TONGUE AND GROOVE UNLESS NOTED OTHERWISE.
5. CONNECTIONS, FASTENERS, AND ADHESIVE
- a. ALL BOLTS THRU WOOD SHALL BE ASTM A307 AND SHALL HAVE HARDENED WASHERS UNDER ASTM A563 HEAVY HEX NUT AND BOLT HEADS.
- b. UNLESS NOTED OTHERWISE, 10d COMMON (0.148) NAILS SHALL BE USED TO FASTEN ALL FLOOR AND ROOF SHEATHING TO SUPPORTING TRUSSES, JOISTS, LEDGERS OR BLOCKING AS FOLLOWS:
1. BOUNDARY NAILING "BN": 4" O.C. AT ALL BEARING WALLS, SHEAR WALLS, BLOCKING, AND WHERE OTHERWISE INDICATED IN THE STRUCTURAL DRAWINGS.
2. PANEL EDGE NAILING "EN": 6" O.C. AT ALL OTHER SHEATHING PANEL EDGES.
3. PANEL FIELD NAILING "FN": 12" O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL.
- c. UNLESS NOTED OTHERWISE, IN THE WOOD SHEAR WALL SCHEDULE ON SHEET S01, 8d COMMON (0.131) NAILS SHALL BE USED TO FASTEN ALL SHEAR WALL SHEATHING TO STUDS AND BLOCKING AS FOLLOWS:
1. PANEL EDGE NAILING "EN": 6" O.C.
2. PANEL FIELD NAILING "FN": 12" O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL.
- d. NAILS SHALL BE GALVANIZED OR STAINLESS STEEL AT EXPOSED LOCATIONS OR IN TREATED WOOD (SEE NOTE BELOW FOR FASTENERS CONNECTED TO OR IN CONTACT WITH TREATED WOOD). THE HEAD OF ALL NAILS SHALL BE DRIVEN FLUSH WITH THE SURFACE OF THE SHEATHING.
- e. EXCEPT WHERE NOTED OTHERWISE, THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN THAT SET FORTH IN IBC TABLE 2304.10.2. MULTIPLE PILES OF ENGINEERED LUMBER SHALL BE FASTENED TOGETHER IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- f. UNLESS NOTED OTHERWISE, ALL NAILS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
- COMMON SHANK HEAD MIN. PENETRATION
- NAIL SIZE DIAMETER DIAMETER INTO SUPPORT MEMBER
- 6d 0.115" 0.265" 2"
- 8d 0.131" 0.281" 2-1/2"
- 10d 0.148" 0.312" 3"
- 12d 0.158" 0.312" 3-1/4"
- 16d 0.162" 0.344" 3-1/2"
- g. A CONTINUOUS BEAD OF PERMANENT BOND TIMBER/WOOD ADHESIVE COMPOUND SHALL BE USED TO FASTEN ALL FLOOR SHEATHING TO FLOOR JOISTS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- h. ALL FRAMING ANCHORS, POST CAPS, HOLD DOWNS, COLUMN BASES ETC. TO BE PROVIDED BY SIMPSON OR APPROVED EQUAL AND SHALL BE ATTACHED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA, UNLESS NOTED OTHERWISE.
- i. UNLESS NOTED OTHERWISE, ALL WALL BOTTOM PLATES TO BE ANCHORED TO FOUNDATIONS OR FOOTINGS WITH 3/4" DIAMETER ANCHOR BOLTS AT 32" O.C. WITH 8" MINIMUM EMBEDMENT. THERE SHALL BE A MINIMUM OF (2) ANCHOR BOLTS PER PLATE WITH ONE BOLT LOCATED NOT MORE THAN 12" AND NOT LESS THAN 4" FROM EACH END OF EACH PIECE.
- j. WALL BOTTOM WALLS AT SHEAR WALLS SHALL INCLUDE 1/4" x 3" x 3" STEEL PLATE WASHERS BETWEEN THE SILL PLATE AND NUT OF THE ANCHOR BOLT. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND SLOT LENGTH NOT TO EXCEED 1-3/4". PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SHEATHED SIDE.
- k. FASTENERS CONNECTED TO OR IN CONTACT WITH PRESERVATIVE-TREATED AND/OR FIRE-RETARDANT-TREATED WOOD (EXCEPT FOR TIMBERSTRAND LSL TREATED LUMBER AND BORATE BASED TREATMENTS) SHALL BE OF G-185 HOT-DIP GALVANIZED STEEL OR 304 OR 316 STAINLESS STEEL. STAINLESS STEEL AND GALVANIZED STEEL SHALL NEVER BE USED IN CONTACT WITH EACH OTHER.
6. ALL METAL-PLATE-CONNECTED WOOD TRUSSED RAFTERS SHALL BE FABRICATED IN COMPLIANCE WITH THE RESEARCH COMMITTEE RECOMMENDATIONS OF THE ICC FOR THE CONNECTOR PLATES USED. SUBMIT DESIGN CALCULATIONS WITH ENGINEERS SEAL FOR REVIEW WITH SHOP DRAWINGS. PROVIDE CALCULATIONS AND DETAILS FOR ALL TRUSS TO TRUSS CONNECTIONS INCLUDING CONNECTION HARDWARE. ALL NECESSARY TRUSS BRIDGING AND CONNECTION DESIGN OF TRUSS BRIDGING SHALL BE PROVIDED BY THE TRUSS DESIGNER AND SHALL BE INCLUDED IN THE DESIGN CALCULATIONS FOR REVIEW.
7. INSTALLATION OF ALL METAL-PLATE-CONNECTED WOOD TRUSSES SHALL COMPLY WITH THE FOLLOWING STANDARDS:
- a. ANSIP11 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSSES".
- b. TPI HB "COMMENTARY AND RECOMMENDATIONS FOR HANDLING INSTALLING & BRACING METAL-PLATE-CONNECTED WOOD TRUSSES".
- c. TPI DSB "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL-PLATE-CONNECTED WOOD TRUSSES".
8. UNLESS NOTED OTHERWISE, ALL ROOF SHEATHING AND WALL SHEATHING AT SHEAR WALLS SHALL HAVE SOLID BLOCKING AT ALL PANEL EDGES.
9. PROVIDE DOUBLE JOIST UNDER PARALLEL NONBEARING WALLS AND SOLID BLOCKING UNDER PERPENDICULAR NONBEARING WALLS.
10. AT ALL OVERBUILD LOCATIONS, ROOF SHEATHING SHALL BE COMPLETE BELOW OVERBUILDS PRIOR TO OVERBUILD CONSTRUCTION.
11. PROVIDE SOLID 2" (NOMINAL) FULL DEPTH BLOCKING AT ENDS AND SUPPORT LOCATIONS FOR ALL JOISTS AND RAFTERS. BLOCKING SHALL BE ATTACHED TO SUPPORT FRAMING WITH A MINIMUM OF (1) SIMPSON A26 FRAMING ANCHOR BETWEEN JOISTS UNLESS NOTED OTHERWISE.
12. UNLESS NOTED OTHERWISE, ALL BEARING WALLS SHALL BE 2X6 SPACED AT 16" O.C. BLOCK ALL NON-SHEATHED BEARING WALLS AT 4'-0" O.C.
13. VERIFY THE STUD SPACING WITH THE ANCHOR BOLT LAY-OUT. WHERE STUDS INTERFERE WITH ANCHOR BOLTS, PROVIDE AN ADDITIONAL FULL-HEIGHT STUD TO ENSURE THAT THE FULL CROSS-SECTIONAL AREA OF THE STUD IS IN CONTACT WITH THE SILL PLATE.
14. UNLESS NOTED OTHERWISE, ALL EXTERIOR WALLS AND SHEAR WALLS SHALL HAVE DOUBLE 2X TOP PLATES THAT ARE SPLICED TOGETHER WITH A MINIMUM OF 51" OF OVERLAP AND SHALL BE CONNECTED TOGETHER WITH A MINIMUM OF (32) 10d COMMON NAILS EACH SIDE OF THE SPLICE. OUTSIDE OF THESE SPLICE LOCATIONS, TOP PLATES SHALL BE NAILED TOGETHER WITH 10d NAILS AT 12" O.C.
15. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE INSTALLED WITH THE NATURAL CROWN UP.
16. GLULAM MEMBERS
- a. GLULAM MEMBERS SHALL BE PROTECTED FROM EXTREMES IN TEMPERATURE AND HUMIDITY DURING TRANSPORT, STORAGE AND INSTALLATION WITH GOOD STORAGE AND INSTALLATION PRACTICES THAT MINIMIZE DIRECT EXPOSURE TO THE ELEMENTS.
- b. DURING AND AFTER INSTALLATION, GLULAM MEMBERS SHALL NOT BE EXPOSED TO RAPID MOVEMENT OF AIR OR TO CONCENTRATED HEATING AND COOLING SOURCES.
- c. GLULAM MEMBERS SHALL BE ALLOWED TO ADJUST SLOWLY TO THE AMBIENT TEMPERATURE AND HUMIDITY OF THE BUILDING BY AVOIDING RAPID LOWERING OF THE HUMIDITY AND/OR EXPOSURE TO HIGH TEMPERATURES.
- d. GLULAM MEMBERS SHALL BE PROTECTED AS INDICATED IN THESE NOTES UNLESS OTHERWISE NOTED BY THE GLULAM MANUFACTURER.

K. STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS

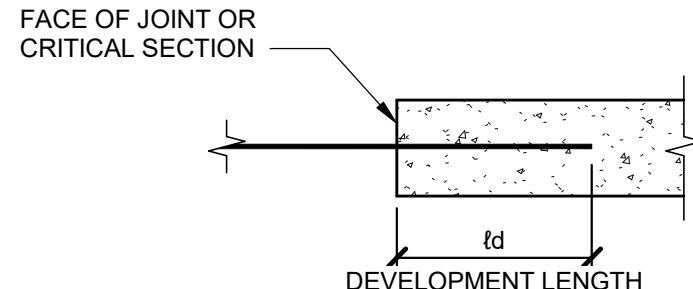
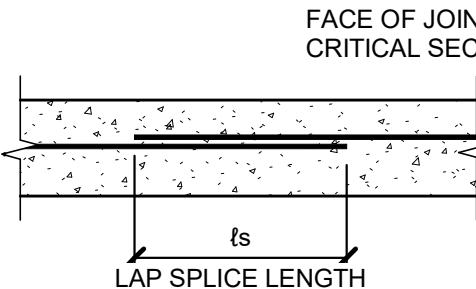
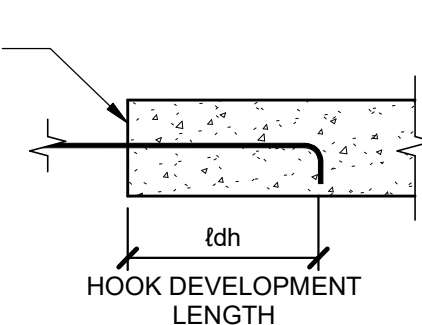
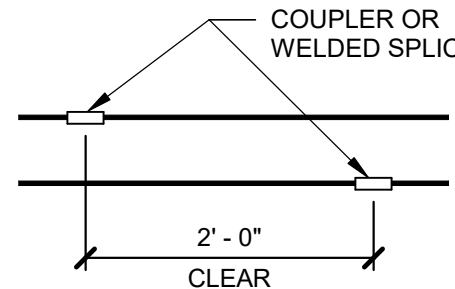
1. STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ELEMENTS, PARTS, OR PORTIONS OF THE OVERALL STRUCTURAL SYSTEM THAT ARE INDICATED OR REFERRED TO ON THESE DRAWINGS AND THAT ARE CRITICAL TO THE PERFORMANCE OF THE OVERALL STRUCTURAL SYSTEM. DESIGN CRITERIA HAS BEEN PROVIDED FOR THESE ITEMS IN THE STRUCTURAL NOTES, PLANS, AND DETAILS.
2. STRUCTURAL DEFERRED SUBMITTALS ARE COMPLETE PACKAGES TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL DELEGATED DESIGN ITEMS AND THEIR CONNECTIONS. DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR DESIGN.
3. ARW ENGINEERS WILL REVIEW STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
4. STRUCTURAL DELEGATED DESIGN COMPONENTS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE BUILDING OFFICIAL.
5. STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO:
- a. METAL-PLATE-CONNECTED WOOD TRUSSES, BLOCKING, BRIDGING, BRIDGING CONNECTIONS, TRUSS HANGERS, AND RELATED COMPONENTS.
- b. DISPLACEMENT RAMMED AGGREGATE PIERS.

L. NON-STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS

1. NON-STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ITEMS NOT INCLUDED IN THE STRUCTURAL DELEGATED DESIGN SECTION. THESE ARE ITEMS THAT ARE NOT CRITICAL TO THE OVERALL PERFORMANCE OF THE STRUCTURAL SYSTEM BUT THAT IMPART LOADS AND FORCES TO THE STRUCTURAL SYSTEM.
2. NON-STRUCTURAL DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
3. ARW ENGINEERS WILL REVIEW NON-STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
4. IF THE STRUCTURAL DRAWINGS INCLUDE LOADS TO ACCOMMODATE NON-STRUCTURAL ELEMENTS, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL ELEMENTS COMPLY WITH THE LOADING CRITERIA PROVIDED HEREIN. SUCH DOCUMENTATION SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
5. WHEN THE NON-STRUCTURAL DEFERRED SUBMITTAL INDICATES THAT THE ELEMENT WILL IMPART FORCES IN EXCESS OF LOADS THAT ARE INDICATED ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL SUBMIT A DETAILED GRAPHICAL REPRESENTATION OF THOSE DESIGN LOADS, INCLUDING MAGNITUDE, AND LOCATION. THE GRAPHIC SHALL BE ACCOMPANIED BY DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL ELEMENT DESIGN COMPLIES WITH THE LOADING CRITERIA PROVIDED HEREIN. THE LETTER SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
6. NON-STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS SHALL INCLUDE, BUT ARE NOT LIMITED TO:
- a. COLD FORMED STEEL STUDS / JOISTS / HEADERS / JAMBS / TRUSSES
- b. SEISMIC BRACING OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS WHERE REQUIRED BY THE MOST RECENT VERSION OF ASCE 7 AND THE PROJECT CONTRACT DOCUMENTS.

2021 IBC CONCRETE REBAR LAP SPLICE SCHEDULE (60KSI REBAR)

FOR CONCRETE APPLICATIONS (ACI 318 - 19)

																														
BAR LOCATION	CONCRETE REINFORCING & SPLICE LENGTHS (IN)																													
	CONCRETE		BAR SIZE																								COMMENTS			
	TYPE	STRENGTH	#3		#4		#5		#6		#7		#8		#9		#10		#11											
			fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	
VERT. WALL BARS, FILL ON METAL DECK	NWC	3000 PSI	17	22	6	22	29	6	28	36	8	33	43	11	48	62	14	55	72	16	62	81	20	70	91	23	78	101	27	
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	3000 PSI	22	29	6	29	38	6	36	47	8	43	56	11	63	82	14	72	94	16	81	105	20	91	118	23	101	131	27	
BEAM BOTTOM BARS, COLUMN BARS	NWC	3000 PSI	17	22	6	22	29	10	28	36	13	33	43	17	48	62	21	55	72	26	62	81	31	70	91	37	78	101	43	
FOOTING BOTTOM BARS, SLAB ON GRADE	NWC	3000 PSI	12	16	6	14	18	6	17	22	8	20	26	11	29	38	14	33	43	16	38	49	20	42	55	23	46	61	27	
SLAB TOP BARS ¹ BEAM TOP BARS	NWC	3000 PSI	22	29	6	29	38	10	36	47	13	43	56	17	63	82	21	72	94	26	81	105	31	91	118	37	101	131	43	

BAR LOCATION	CONCRETE REINFORCING & SPLICE LENGTHS (IN)																													
	CONCRETE		BAR SIZE																								COMMENTS			
	TYPE	STRENGTH	#3		#4		#5		#6		#7		#8		#9		#10		#11											
			fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	
VERT. WALL BARS, FILL ON METAL DECK	NWC	4000 PSI	15	20	6	19	25	6	24	31	8	29	38	10	42	55	13	48	62	13	54	70	18	61	79	22	67	87	26	
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	4000 PSI	19	25	6	25	33	6	31	40	8	37	48	10	54	70	13	62	81	15	70	91	18	79	103	22	87	113	26	
BEAM BOTTOM BARS, COLUMN BARS	NWC	4000 PSI	15	20	6	19	25	9	24	31	12	29	38	16	42	55	20	48	62	24	54	70	29	61	79	35	67	87	41	
FOOTING BOTTOM BARS, SLAB ON GRADE	NWC	4000 PSI	12	16	6	12	16	6	15	20	8	18	23	10	25	33	13	29	38	15	33	43	18	37	48	22	41	53	26	
SLAB TOP BARS ¹ BEAM TOP BARS	NWC	4000 PSI	19	25	6	25	33	9	31	40	12	37	48	16	54	70	20	62	81	24	70	91	29	79	103	35	87	113	41	

BAR LOCATION	CONCRETE REINFORCING & SPLICE LENGTHS (IN)																													
	CONCRETE		BAR SIZE																								COMMENTS			
	TYPE	STRENGTH	#3		#4		#5		#6		#7		#8		#9		#10		#11											
			fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	fd	fs	fdh	
VERT. WALL BARS, FILL ON METAL DECK	NWC	4500 PSI	14	18	6	18	23	6	23	30	8	27	35	10	40	52	12	45	59	15	51	66	18	57	74	21	64	83	25	
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	4500 PSI	18	23	6	24	31	6	30	39	8	35	46	10	51	66	12	59	77	15	66	86	18	74	96	21	82	107	25	
BEAM BOTTOM BARS, COLUMN BARS	NWC	4500 PSI	14	18	6	18	23	9	23	30	12	27	35	16	40	52	20	45	59	24	51	66	29	57	74	34	64	83	40	
FOOTING BOTTOM BARS, SLAB ON GRADE	NWC	4500 PSI	12	16	6	12	16	6	13	17	8	16	21	10	23	30	12	26	34	15	29	38	18	33	43	21	36	47	25	
SLAB TOP BARS ¹ BEAM TOP BARS	NWC	4500 PSI	18	23	6	24	31	9	30	39	12	35	46	16	51	66	20	59	77	24	66	86	29	74	96	34	82	107	40	

NOTES:
1. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITY. WHERE MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24" AS INDICATED ABOVE.
2. LENGTHS INDICATED IN THIS SCHEDULE SHALL BE INCREASED BY 50% FOR STRAIGHT BAR DEVELOPMENT AND 20% FOR HOOKED BARS WHERE EPOXY COATING IS USED.
3. WHEN SPLICING BARS OF DIFFERENT SIZES, USE LAP SPLICE LENGTH OF LARGER BARS UNO.
4. SPLICE BARS LARGER THAN #11 USING MECHANICAL COUPLERS.
5. SLAB TOP BARS ONLY FOR SLABS 12" OR GREATER IN THICKNESS.

STANDARD HOOK & BEND SCHEDULE

TYPE OF STANDARD HOOK	BAR SIZE	MIN. INSIDE BEND DIA. FOR STIRRUPS, TIES, AND HOOPS, in	STRAIGHT EXTENSION l_{dev} FOR STIRRUPS, TIES, AND HOOPS in.	MIN. INSIDE BEND DIA. FOR OTHER BARS, in	STRAIGHT EXTENSION l_{dev} FOR OTHER BARS in.	TYPE OF STANDARD HOOK
90° HOOK	#3 - #5	4d _s	GREATER OF 6d _s AND 3"			POINT AT WHICH BAR IS DEVELOPED
	#6 - #8	6d _s	12d _s	6d _s	12d _s	
	#9 - #11	N/A	N/A	8d _s		
	#14 - #18	N/A	N/A	10d _s		
135° HOOK	#3 - #5	4d _s	GREATER OF 6d _s AND 3"	N/A	N/A	135° BEND
	#6 - #8	6d _s	GREATER OF 6d _s AND 3"	N/A	N/A	
180° HOOK	#3 - #5	4d _s	GREATER OF 4d _s AND 2.5"	6d _s	GREATER OF 4d _s AND 2.5"	180° BEND
	#6 - #8	6d _s	GREATER OF 4d _s AND 2.5"	6d _s		
	#9 - #11	N/A	N/A	8d _s		
	#14 - #18	N/A	N/A	10d _s		

UNRESTRAINED RETAINING WALL SCHEDULE

NOTES:

1. PROVIDE 3/4" DEEP VERTICAL CONTROL JOINT AT 15'-0" MAXIMUM SPACING. CONTINUE ALL HORIZONTAL REINFORCING THROUGH JOINT. PROVIDE MATCHING MASONRY (WHERE OCCURS) CONTROL JOINT.
2. PROVIDE EXPANSION JOINTS @ 48'-0" o.c. MAX. SPACING.

NOTE : JOINT IN FOOTING NOT REQUIRED.

3. EXTEND HORIZONTAL REINFORCING AROUND CORNERS OR ADD CORNER BARS AND LAP EACH WAY. SEE REBAR LAP SCHEDULE.
4. ALLOW CONCRETE TO REACH 100% OF DESIGN STRENGTH (f_c) PRIOR TO BACKFILLING.
5. PROVIDE 2" DIA. PVC PIPE WEEP HOLES @ 10'-0" WITH NON-FERROUS SCREEN AND GRAVEL BACKING. CONTINUOUS PERFORATED FOUNDATION DRAIN LINE TIED TO STORM DRAIN SYSTEM IS AN ACCEPTABLE ALTERNATE TO WEEP HOLES.
6. PROVIDE FILTER FABRIC BETWEEN GRANULAR BACKFILL AND BACK SIDE OF WALL. FILTER FABRIC TO BE FREE DRAINING WITHOUT ALLOWING INFILTRATION OF FINE SOILS.
7. EVERY OTHER VERTICAL BAR MAY BE DISCONTINUED AT $H/2$ ABOVE FOOTING FOR 8'-0" AND 10'-0" HIGH WALLS, 1/3 OF VERTICAL BARS MAY BE DISCONTINUED AT $0.2H + 30$ BAR DIAMETERS AND $0.4H + 30$ BAR DIAMETERS ABOVE FOOTING. SPACING OF VERTICAL BARS SHALL BE 18" MAX. FOR 1'-0" THRU 14'-0" HIGH WALLS.
8. FOR UNRESTRAINED RETAINING WALLS WITH $7'-1" < H < 8'-0"$, SEE DETAIL 11/S210.
9. FOR UNRESTRAINED RETAINING WALLS WITH $8'-1" < H < 11'-0"$, SEE DETAIL 12/S210.

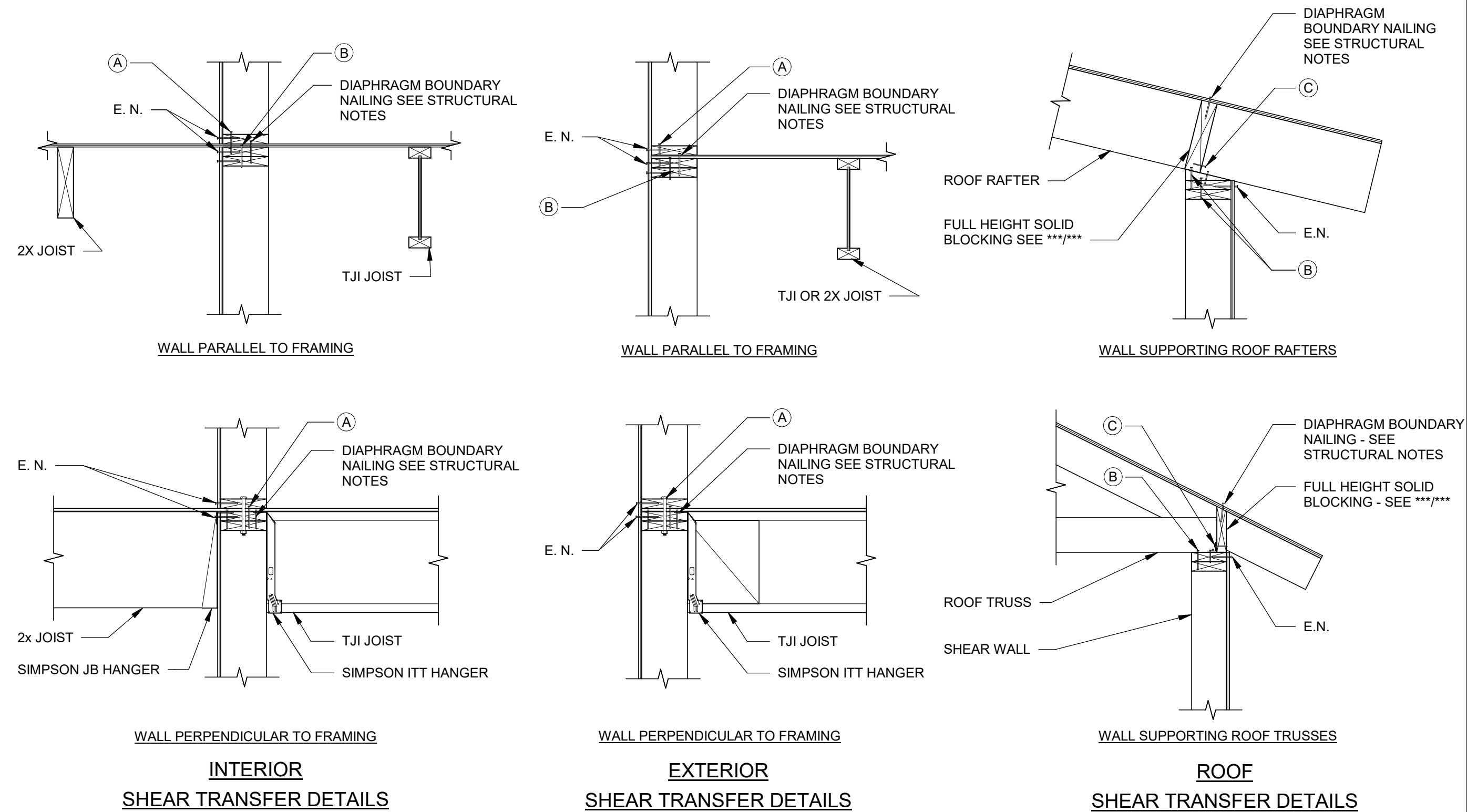
OTHER PARAMETERS

- NO WATER TABLE
- LEVEL SOIL SLOPE
- BEARING PRESSURE = 3000 psf
- 35 psf / ft LATERAL SOIL PRESSURE
- 0 SURCHARGE
- 0 AXIAL LOADS
- 0 LATERAL LOADS
- SOIL WEIGHT = 110 psf

DIMENSION H'	DIMENSION				BAR TYPE 'H'		BAR TYPE 'V'		BAR TYPE 'C'		BAR TYPE 'T'	
	T'	A'	B'	W'	SIZE	SPACING	SIZE	SPACING	SIZE	NUMBER	SIZE	SPACING
H < 3'-0"	12"	8"	6"	40"	#5	12" o.c.	#5	12" o.c.	#5	(4)	#5	12" o.c.
3'-0" - 5'-0"	12"	8"	9"	60"	#5	12" o.c.	#5	12" o.c.	#5	(5)	#5	12" o.c.
5'-0" - 7'-0"	16"	10"	12"	84"	#6	12" o.c.	#6	12" o.c.	#6	(6)	#6	12" o.c.

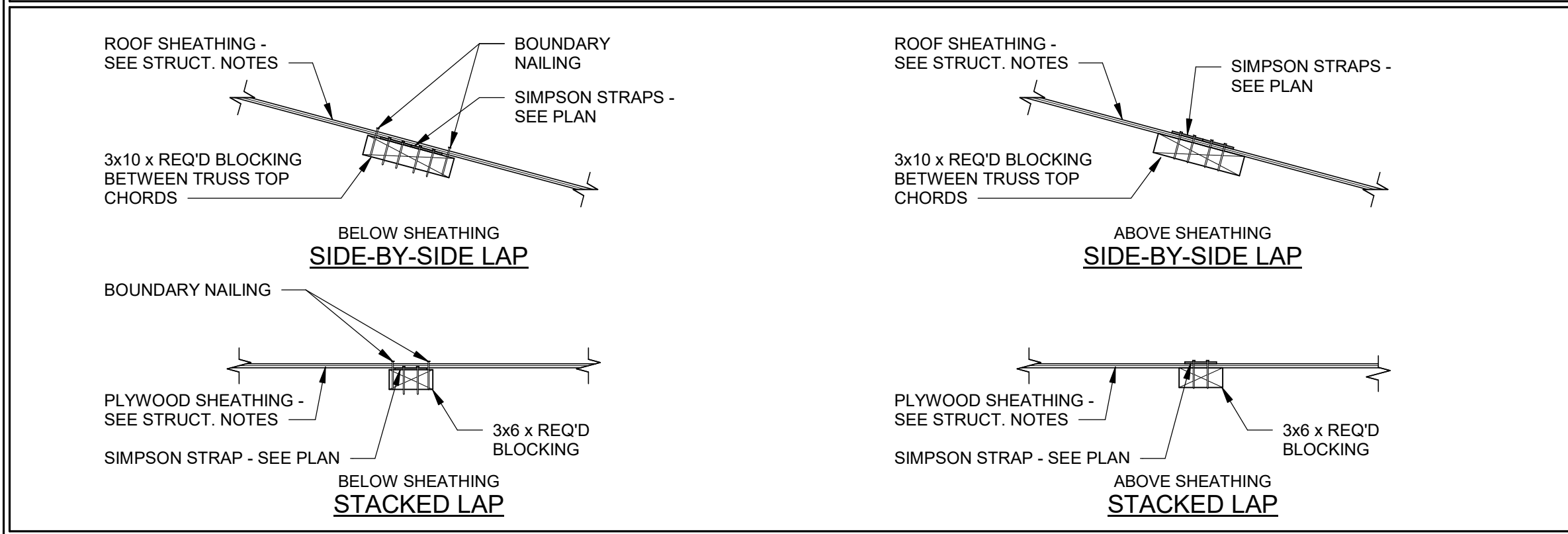
NOTES:

1. ALL SHEATHING PANEL EDGES TO BE BLOCKED. USE 3x BLOCKING WHERE 3x STUDS ARE REQUIRED.
2. ALL NAILS TO BE COMMON OR GALVANIZED BOX.
3. FIELD NAILING TO BE SAME NAIL @ 12" c.
4. (A) CONNECTION IS FOR 2ND FLOOR AND ABOVE.
5. AT SHEAR WALLS W/ SHEATHING ON BOTH SIDES, BOTH VERTICAL AND HORIZONTAL JOINTS ON OPPOSITE SIDES OF THE WALL SHALL BE STAGGERED.
6. STAGGER 6" AT DOUBLE TOP PLATES.
7. 3x NOMINAL FRAMING MEMBERS @ OCCUR AT ABUTTING PANEL EDGES. 2x NOMINAL FRAMING MEMBERS MAY BE USED AT INTERIOR OF PANEL, UNLESS NOTED OTHERWISE IN FLOOR FRAMING NOTES. (2) 2x NAIL TOGETHER W/ (2) 16d NAILS TO 16" OC. OR 4x NOMINAL FRAMING MEMBERS OF THE SAME DEPTH AND LUMBER GRADE MAY BE USED IN LIEU OF 3x MEMBERS AT CONTRACTOR OPTION.
8. 2x NOMINAL FRAMING MEMBERS W/ 2x RA STAMP, 1x TWOYD OF 1/4" INVT THICKNESS, GRADE, AND RATING MAY BE USED IN LIEU OF OSB.
9. ALL SILL PLATE ANCHOR BOLTS TO HAVE MINIMUM 6" EMBEDMENT INTO CONCRETE. SEE DETAIL S2/10 FOR HOLD/DOWN ANCHORAGE REQUIREMENTS.
10. SEE THIS SHEET FOR TYPICAL SHEAR WALL DETAILS.
11. TOP PLATE SPLICE NAILING SHALL APPLY TO EACH SIDE OF THE SPLICE. THE LENGTH OF THE OVERLAP SHALL BE SUFFICIENT TO PREVENT SLIPPING (48" MIN.).

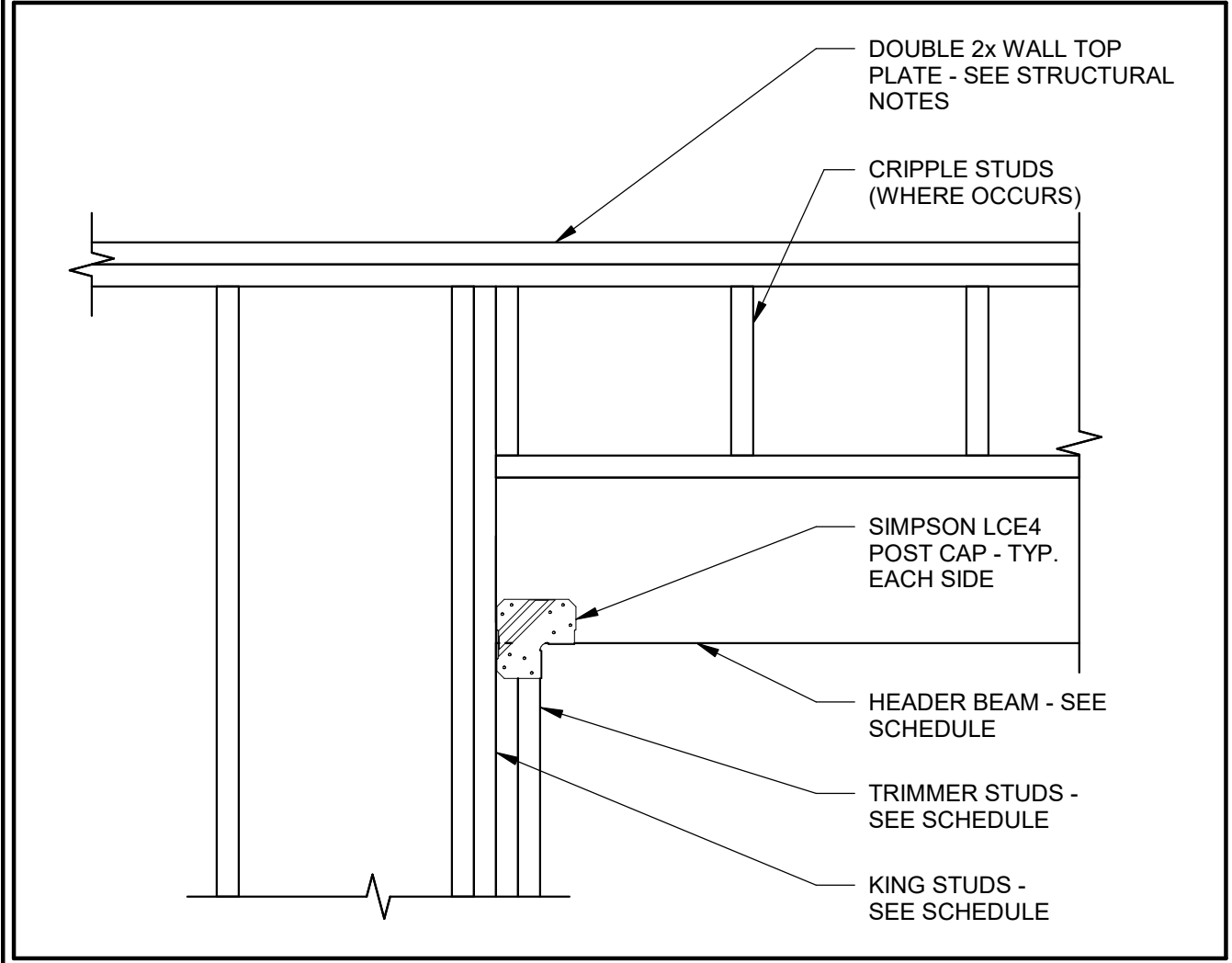


NOTES:

1. NO STRAP MODIFICATION IS ALLOWED.
2. SPLICE MUST MEET BOTH THE MINIMUM NUMBER OF FASTENERS AND THE MINIMUM SPLICE LENGTH.
3. ALL NAIL SIZES LISTED ARE COMMON NAILS.
4. 100 COMMON MAY BE REPLACED BY 16d SINKERS. NO OTHER NAIL SUBSTITUTION IS ALLOWED FOR LAP SPLICES.
5. WOOD SPLITTING OCCURS. USE EVERY OTHER NAIL, HOLE AND LENGTH SPLICE TO ACCOMMODATE THE REQUIRED NUMBER OF NAILS. SEE MANUFACTURER FOR MORE INFORMATION.
6. STRAP SHALL BE INSTALLED BELOW SHEATHING WHERE IMPACTS TO ARCHITECTURAL FINISHES OCCUR. OTHERWISE STRAPS MAY BE INSTALLED ABOVE OR BELOW SHEATHING AT CONTRACTORS OPTION. SEE DETAILS BELOW. IMPACTS TO THE FINISHES AND ROOFING SHALL BE CONSIDERED WHEN DETERMINING STRAP LOCATION.
7. TWO OPTIONS EXIST FOR COIL STRAP LAPPING.
 - a. LAP ONE STRAP STACKED ON TOP OF THE OTHER STRAP.
 - b. INSTALL STRAPS SIDE BY SIDE - TO DO THIS A LARGER BLOCK MUST BE USED. THE BLOCK MUST BE ON SOLID PIECE.
8. STRAP TO BE INSTALLED TIGHT.
9. OTHER MANUFACTURER STRAPS MAY BE USED AT CONTRACTORS OPTION. STRAP CAPACITY SHALL MEET OR EXCEED THAT OF THE SPECIFIED SIMPSON STRAP. USE MANUFACTURER INFORMATION ON STRAP CAPACITY.
10. LISTED LENGTHS ARE ASSUMING THAT ALL NAIL HOLES ARE USED. SEE MANUFACTURER INFORMATION FOR EVERY OTHER HOLE INSTALLATION.



WOOD OPENING SCHEDULE			
OPENING SIZE	KING STUDS		TRIMMER STUDS
	INTERIOR	EXTERIOR	
UP TO 6'-0"	(2) 2x6, (1) 2x10	(2) 2x6, (2) 2x10	(2) 2x6, (2) 2x10
6'-1 1/2 TO 10'-0"	(2) 2x6, (1) 2x10	(2) 2x6, (2) 2x10	(2) 2x6, (2) 2x10
10'-1 1/2 TO 15'-0"	(2) 2x6, (2) 2x10	(2) 2x6, (3) 2x10	(4) 2x6, (2) 2x10
15'-1 1/2 TO 18'-0"	(2) 2x6, (2) 2x10	(3) 2x6, (3) 2x10	(4) 2x6, (3) 2x10



Autodesk Docs://24003.LgnUTSem/S - 23759 - Logan Senior Seminary - 2024.rvt
8/12/2024 1:46:05 PM

1
2
3
4
5
6

W

E

D

C

B

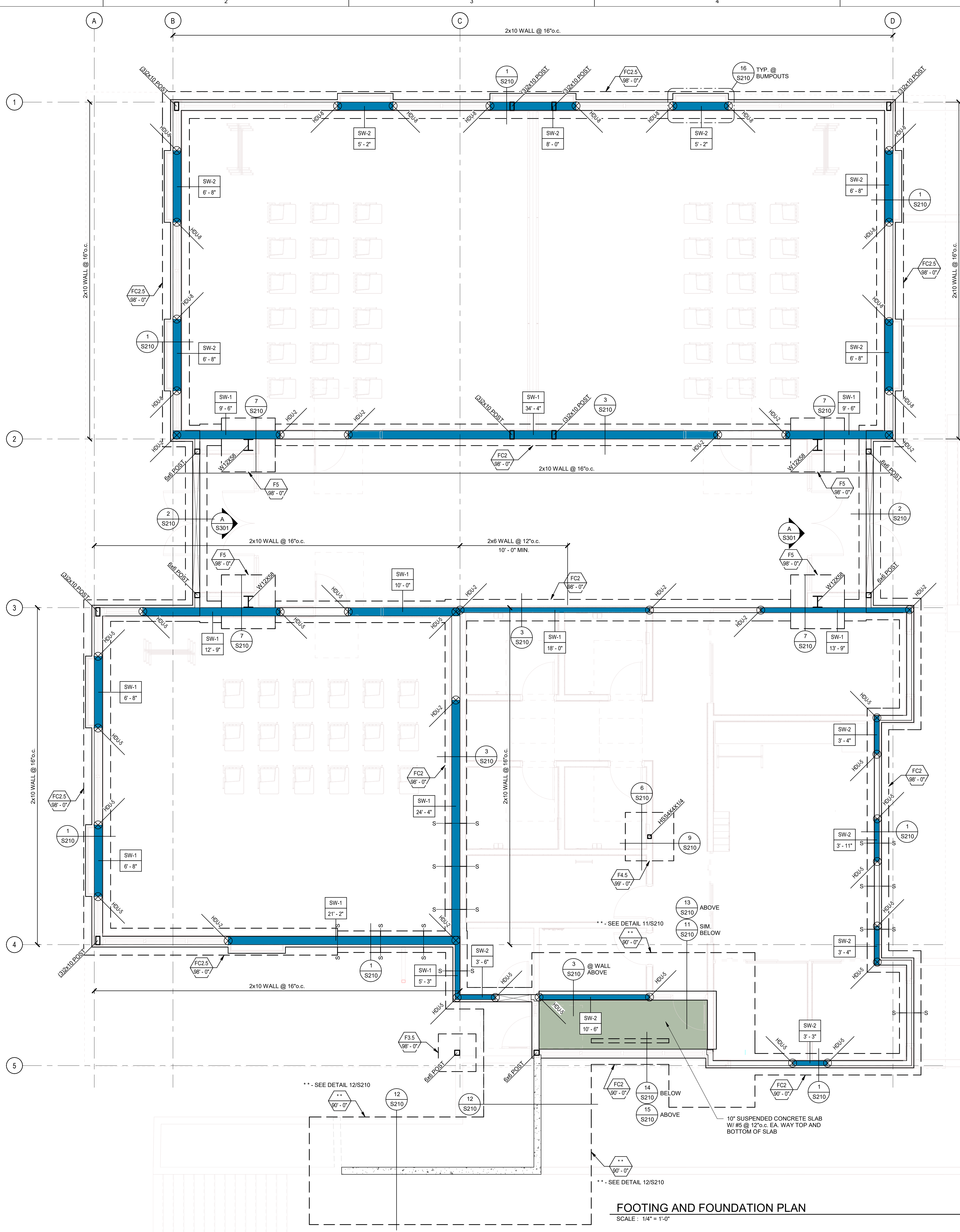
A

STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE									
ESTABLISHED PER 2021 IBC SECTION 1705.2.1									
INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)		FABRICATOR QUALITY CONTROL		SPECIAL INSPECTOR QUALITY ASSURANCE		NOTES			
		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC				
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS		●		●	●	1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. 2. CONTINUOUS - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION. 3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ). 5. APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7. 6. FOR SNUG-TIGHT JOINTS, PRE-INSTALLATION VERIFICATION TESTING AS SPECIFIED IN TABLE N5.6-1 AND MONITORING OF THE INSTALLATION PROCEDURES AS SPECIFIED IN TABLE N5.6-2 ARE NOT APPLICABLE. THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS IN SNUG-TIGHT JOINTS. 7. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT TENSION-INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER. 8. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE CALIBRATED WRENCH METHOD OR THE TURN-OF-NUT METHOD WITHOUT MATCHMARKING, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QCI AND QAI SHALL BE ENGAGED IN THEIR ASSIGNED INSPECTION DUTIES DURING INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER. 9. OBSERVATION OF BOLTING OPERATIONS SHALL BE THE PRIMARY METHOD USED TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP INCORPORATED IN CONSTRUCTION ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE PROVISIONS OF THE RCSC SPECIFICATION.			
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE		●		●	●				
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		●		●	●				
MATERIAL IDENTIFICATION (TYPE / GRADE)			●	●	●				
WELDER IDENTIFICATION SYSTEM ¹				●	●				
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)				●	●				
* JOINT PREPARATION									
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)									
* CLEANLINESS (CONDITION OF STEEL SURFACES)									
* TACKING (TACK WELD QUALITY AND LOCATION)									
* BACKING TYPE AND FIT (IF APPLICABLE)									
FIT-UP OF CJP GROOVE WELDS OFHSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)									
* JOINT PREPARATIONS		●		●	●				
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)									
* CLEANLINESS (CONDITION OF STEEL SURFACES)									
* TACKING (TACK WELD QUALITY AND LOCATION)									
CONFIGURATION AND FINISH OF ACCESS HOLES				●	●				
FIT-UP OF FILLET WELDS									
* DIMENSIONS (ALIGNMENT, GAPS AT ROOT)				●	●				
* CLEANLINESS (CONDITION OF STEEL SURFACES)				●	●				
* TACKING (TACK WELD QUALITY AND LOCATION)									
CHECK WELDING EQUIPMENT				●					
¹ THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.									
INSPECTION TASKS DURING WELDING (TABLE N5.4-2)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC				
CONTROL AND HANDLING OF WELDING CONSUMABLES						GENERAL STEEL SPECIAL INSPECTION NOTES : 1. QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT. THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE FABRICATOR. 2. QA INSPECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECT SITE. THE QAI SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE ERECTOR. 3. WHEN A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTIONS ARE PERFORMED BY ONE PARTY, WHERE QA RELIES UPON INSPECTION FUNCTIONS PERFORMED BY QC. THE APPROVAL OF THE ENGINEER OF RECORD AND THE AUTHORITY HAVING JURISDICTION IS REQUIRED. 4. THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE SHOP DRAWINGS, SUCH AS PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. THE ERECTOR'S QCI SHALL INSPECT THE ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE ERECTION DRAWINGS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. 5. THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED PRIOR TO PLACEMENT OF THE CONCRETE. 6. THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPROPRIATE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. 7. QUALITY ASSURANCE (QA) INSPECTIONS, EXCEPT NONDESTRUCTIVE TESTING (NDT), MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NOT REPORTS. 8. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR AND ERECTOR ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. 9. IDENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS NOT IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS SHALL BE PERMITTED AT ANY TIME DURING THE PROGRESS OF THE WORK. HOWEVER, THIS REPORT SHALL NOT RELIEVE THE OWNER OR THE INSPECTOR OF THE REQUIREMENT TO CONDUCT TIMELY, IN-SEQUENCE INSPECTIONS. NONCONFORMING MATERIAL AND WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRICATOR OR ERECTOR, AS APPLICABLE. 10. NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFORMANCE, OR MADE SUITABLE FOR ITS INTENDED PURPOSE AS DETERMINED BY THE ENGINEER OF RECORD. 11. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OR OWNER, THE QA AGENCY SHALL SUBMIT TO THE FABRICATOR AND ERECTOR: (1) NONCONFORMING REPORTS (2) REPORTS OF REPAIR, REPLACEMENT OR ACCEPTANCE OF NONCONFORMING ITEMS.			
* PACKAGING				●	●				
* EXPOSURE CONTROL									
NO WELDING OVER CRACKED TACK WELDS				●	●				
ENVIRONMENTAL CONDITIONS									
* WIND SPEED WITHIN LIMITS				●	●				
* PRECIPITATION AND TEMPERATURE									
WPS FOLLOWED									
* SETTINGS ON WELDING EQUIPMENT									
* TRAVEL SPEED									
* SELECTED WELDING MATERIALS				●	●				
* SHIELDING GAS TYPE / FLOW RATE									
* PREHEAT APPLIED									
* INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX)									
* PROPER POSITION (F, V, H, OH)									
WELDING TECHNIQUES									
* INTERPASS AND FINAL CLEANING									
* EACH PASS WITHIN PROFILE LIMITATIONS				●	●				
* EACH PASS MEETS QUALITY REQUIREMENTS									
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS		●		●					
INSPECTION TASKS AFTER WELDING (TABLE N5.4-3)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC				
WELDS CLEANED				●	●	SPECIAL INSPECTION SCHEDULE 1.2 ESTABLISHED PER 2021 IBC SECTION 110 AND CHAPTER 17			
SIZE, LENGTH AND LOCATION OF WELDS		●		●					
WELDS MEET VISUAL ACCEPTANCE CRITERIA									
* CRACK PROHIBITION									
* WELD / BASE-METAL FUSION									
* CRATER CROSS SECTION									
* WELD PROFILES		●			●				
* WELD SIZE									
* UNDERCUT									
* POROSITY									
ARC STRIKES		●		●					
K-AREA ¹		●		●					
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES ²		●		●					
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)		●		●					
REPAIR ACTIVITIES		●		●					
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		●		●					
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR				●					
¹ WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD. ² AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.									

CONCRETE CONSTRUCTION (IBC 1705.3)				
ITEM	CONTINUOUS ³	PERIODIC ³	REFERENCE	COMMENTS
REINFORCING STEEL PLACEMENT		●	SEE IBC TABLE 1705.3 - REF. NOTE C1	C1. SPECIAL INSPECTION IS NOT REQUIRED FOR CONC. ISOLATED SPREAD FOOTINGS, CONTINUOUS FOUNDATION WALLS, PATIOS, DRIVEWAYS, AND SIDEWALKS PROVIDED THE REQUIREMENTS FOR PERIODIC SPECIAL INSPECTION ARE ALLOWED FOR VERIFICATION OF THE VERTICALITY OF REINFORCING STEEL, NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS.
WELDING OF REINFORCING STEEL	●	●	REFERENCE NOTE C2	C2. AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES. BOUNDARY ELEMENTS SHEAR WALLS AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTIONS ARE ALLOWED FOR VERIFICATION OF THE VERTICALITY OF REINFORCING STEEL, NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS.
ANCHORS CAST IN CONCRETE		●		C3. PERFORM AIR, SLUMP AND TEMP. TESTS WHEN CONCRETE SAMPLES ARE CAST.
VERIFYING REQUIRED DESIGN MIX		●		C4. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH.
CONCRETE PLACEMENT / SAMPLING		●	REFERENCE NOTE C3	C5. POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FOR EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT.
CURING TEMPERATURE / TECHNIQUES		●		C6. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR PRECAST CONCRETE DIAPHRAGM JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS IN STRUCTURES AS D.E. DRF.
CONCRETE AND SHOTCRETE PLACEMENT / APPLICATION TECHNIQUES		●		C7. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE INSTALLATION TOLERANCES OF PRECAST CONNECTIONS FOR COMPLIANCE WITH ACI 308.1.
PRESTRESSED CONCRETE		●		C8. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FORMWORK SHAPE, LOCATION AND DIMENSIONS.
APPLICATION OF PRESTRESSING FORCES		●		
GROUTING BONDED TENDONS		●		
ERECTION OF PRECAST MEMBERS		●		
PRECAST CONCRETE DIAPHRAGM CONNECTIONS		●	REFERENCE NOTE C6 AND C7	
INSTALLATION OF THE EMBEDDED PARTS	●			
CONTINUITY OF REINFORCEMENT ACROSS JOINTS	●			
CONNECTION COMPLETION IN THE FIELD	●			

INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	NOTES	
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS			●	●		1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. 2. CONTINUOUS - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION. 3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7. 5. FOR SNUG-TIGHT JOINTS, PRE-INSTALLATION VERIFICATION TESTING AS SPECIFIED IN TABLE N5.6-1 AND MONITORING OF THE INSTALLATION PROCEDURES AS SPECIFIED IN TABLE N5.6-2 ARE NOT APPLICABLE. THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS IN SNUG-TIGHT JOINTS. 6. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT-TENSION-INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER. 7. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE CALIBRATED WRENCH METHOD OR THE TURN-OF-NUT METHOD WITHOUT MATCHMARKING, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QCI AND QAI SHALL BE ENGAGED IN THEIR ASSIGNED INSPECTION DUTIES DURING INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER. 8. OBSERVATION OF BOLTING OPERATIONS SHALL BE THE PRIMARY METHOD USED TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP INCORPORATED IN CONSTRUCTION ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE PROVISIONS OF THE RCSC SPECIFICATION.	
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS			●	●			
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL, (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)			●	●			
PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL			●	●			
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS			●	●			
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		●		●			
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS			●	●			
INSPECTION TASKS DURING BOLTING (TABLE N5.6-2)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC		
FASTENER ASSEMBLIES, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED			●	●			
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION			●	●			
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING			●	●			
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE ENDS			●	●			
INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC		
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		●		●			

Autodesk Docs://24003.LgnUTSem/S - 23758 - Logan Senior Seminary - 2024.rvt
8/12/2024 1:46:07 PM



- WOOD FRAMING NOTES:
1. SHEAR WALLS ARE INDICATED ON SHEET S011. SEE THE SHEAR WALL SCHEDULE FOR SHEAR WALL ATTACHMENTS.
 2. U.N.O., ALL EXTERIOR WALLS, INTERIOR BEARING WALLS AND SHEAR WALLS SHALL BE FRAMED WITH 2x6 STUDS AT 16" o.c. OTHER WALLS TO BE AS PER ARCHITECTURAL DRAWINGS.
 3. FOR TYPICAL TRIMMERS, WHERE NOT OTHERWISE INDICATED, SEE S011.
 4. FOR TYPICAL KING STUDS, WHERE NOT OTHERWISE INDICATED, SEE S011.
 5. ■■■■■ INDICATES WALL WITH PLYWOOD SHEATHING. SEE WOOD SHEAR WALL SCHEDULE. USE SW-1 UNLESS NOTED OTHERWISE ON PLANS.
 6. SHEATHING TO EXTEND FULL LENGTH OF WALL FOR FINISH.
 7. WALL SHEATHING SHALL BE CONTINUOUS THROUGH INTERSECTION WITH PERPENDICULAR WALL.

HOLDOWN SCHEDULE (L)			
MARK	SIMPSON HOLDOWN	POST	ANCHOR
HDU-2	HDU2-SDS2.5	(3) 2x	SEE DETAIL 10/S210
HDU-5	HDU5-SDS2.5	(3) 2x	SEE DETAIL 10/S210
HDU-8	HDU8-SDS2.5	(4) 2x	SEE DETAIL 10/S210

SEE DETAIL 7/S201 FOR TYPICAL WALL FRAMING INFORMATION

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
Construction Documents - 08.14.24



DATE REVISION

PROJECT NUMBER 24003

FOOTING & FOUNDATION PLAN

S101

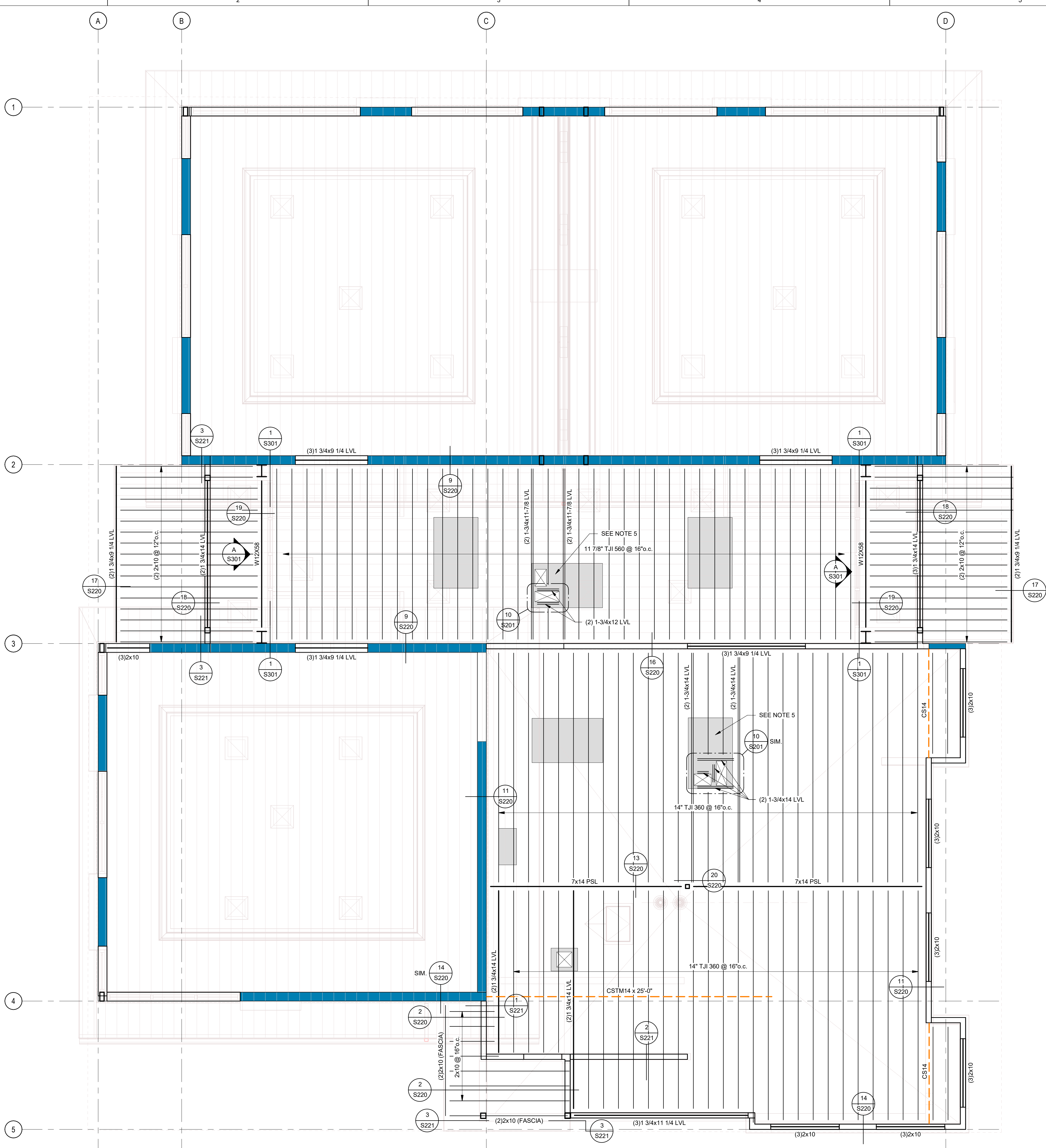


ARW ENGINEERS
1100 W. 100 S. SUITE 100
LOGAN, UT 84321



730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 - FFKR.COM

VIEW AND PRINT THIS DRAWING IN COLOR

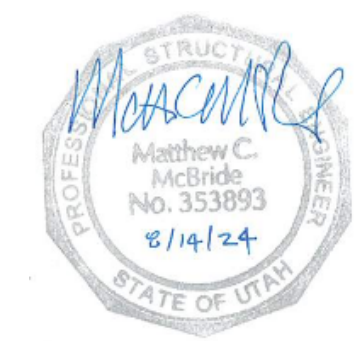


LOW ROOF FRAMING PLAN

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

A
S102

- WOOD ROOF FRAMING NOTES:**
1. FOR ROOF SHEATHING AND NAILING REQUIREMENTS, SEE STRUCTURAL NOTES SHEET S002.
 2. SHEAR WALLS ARE INDICATED ON SHEET S101. SEE THE SHEAR WALL SCHEDULE ON SHEET S011.
 3. SEE WOOD FRAMING NOTES ON SHEET S002 FOR WALL TOP PLATE CONFIGURATION AND SPLICE REQUIREMENTS.
 4. SEE PREMANUFACTURED TRUSS NOTES FOR ADDITIONAL INFORMATION.
 5. COORDINATE ROOF TOP UNIT OPENINGS WITH MEP AND ARCHITECTURAL DRAWINGS. ENSURE THAT THE LOCATION OF JOISTS IS MAINTAINED AS SHOWN WITH ADDED LVL MEMBERS TO PROVIDE SUPPORT FOR HEADED JOISTS AS SHOWN.
 6. RTU WEIGHTS U.N.O. ARE 700 LBS. CONTRACTOR TO VERIFY WEIGHTS BEFORE INSTALL.



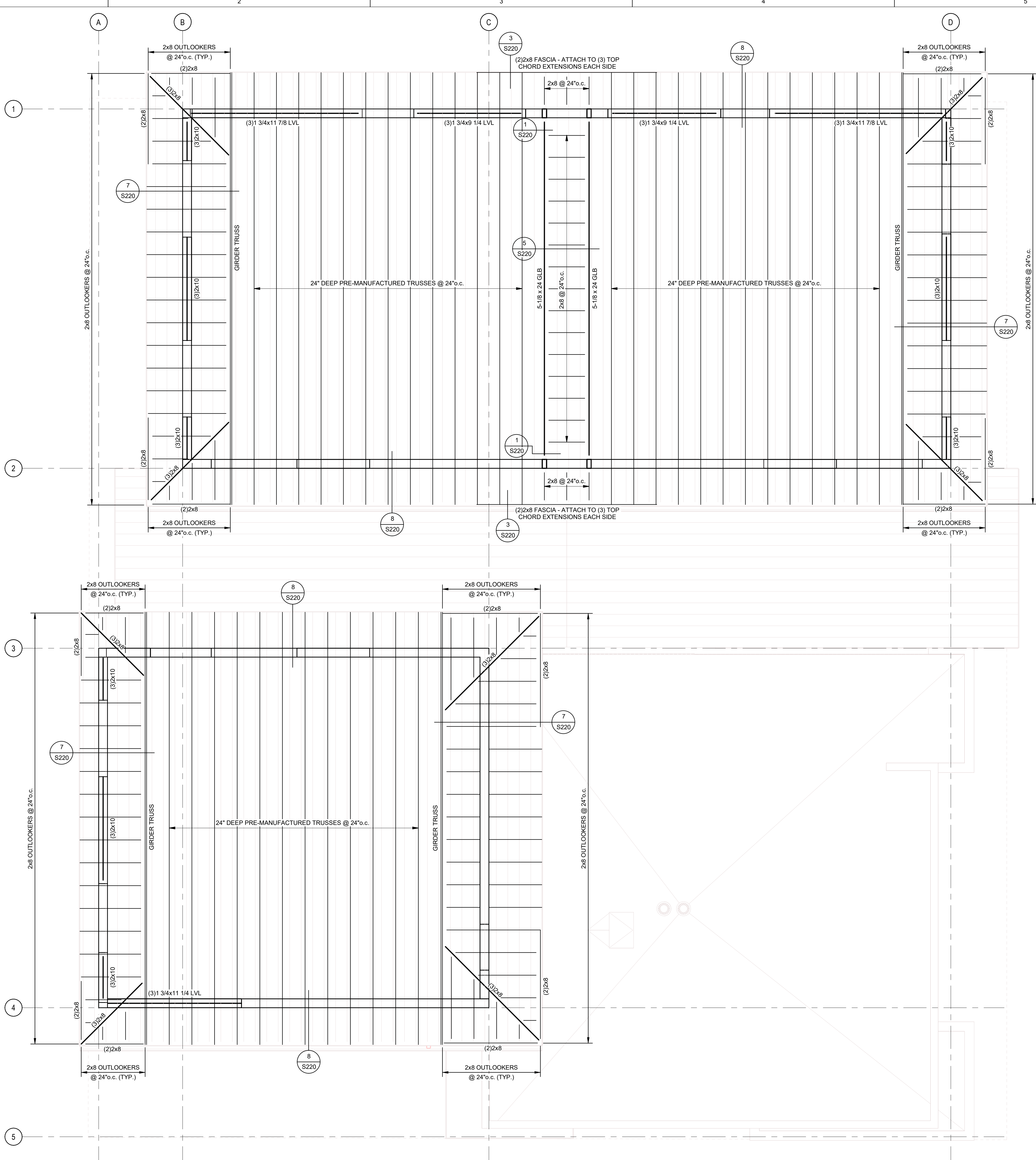
△	DATE	REVISION
---	------	----------

PROJECT NUMBER	24003
----------------	-------

LOW ROOF FRAMING PLAN

S102

Autodesk Docs://24003_LogUTSem/IS - 23756 - Logan Senior Seminary - 2024.rvt
8/12/2024 1:46:08 PM



HIGH ROOF FRAMING PLAN

SCALE : 1/4" = 1'-0"
SEE SHEET S102 FOR ROOF FRAMING NOTES

A
S103

WOOD ROOF FRAMING NOTES :

1. FOR ROOF SHEATHING AND NAILING REQUIREMENTS, SEE STRUCTURAL NOTES SHEET S001-S010.
2. SHEAR WALLS ARE INDICATED ON SHEET S101. SEE THE SHEAR WALL SCHEDULE ON SHEET S011.
3. SEE WOOD FRAMING NOTES ON SHEET S101 FOR WALL TOP PLATE CONFIGURATION AND SPLICE REQUIREMENTS.
4. SEE PREMANUFACTURED TRUSS NOTES FOR ADDITIONAL INFORMATION.
5. WHERE WOOD BEAM IS SHOWN BUT HEADER IS NOT EXPLICITLY CALLED OUT ON PLANS, REFER TO THE WOOD OPENING SCHEDULE ON SHEET S011 FOR BEAM SIZE.
6. CONTRACTOR SHALL ERECT AND MAINTAIN ADEQUATE TEMPORARY BRACING UNTIL ALL ROOF FRAMING AND ROOF DIAPHRAGM ATTACHMENTS ARE COMPLETE.
7. SEE DETAIL S0201 FOR ATTACHMENT OF NON-BEARING WALLS TO PRE-MANUFACTURED TRUSSES.
8. SEE ARCH. DETAILS FOR DRAFTSTOP DETAILS & LOCATIONS.
9. SEE DETAIL 10S201 FOR OPENINGS IN ROOF DIAPHRAGM.
10. COORDINATE LOCATIONS OF EXTERIOR LIGHTS TO AVOID INTERRUPTION OF ROOF FRAMING.

PRE-MANUFACTURED TRUSS NOTES :

1. PRE-MANUFACTURED TRUSSES SHALL BE DESIGNED PER ALL APPLICABLE LOAD COMBINATIONS AND LOAD CONFIGURATIONS AS REQUIRED BY THE GOVERNING CODE AND THE GENERAL STRUCTURAL NOTES:

THE FOLLOWING CRITERIA SHALL BE USED IN DESIGN.

SNOW LOAD	=	PER GENERAL STRUCTURAL NOTES
LIVE LOAD	=	PER GENERAL STRUCTURAL NOTES
DEAD LOAD	=	13 PSF TOP CHORD
	=	7 PSF BOTTOM CHORD
WIND LOAD	=	PER GENERAL STRUCTURAL NOTES
SNOW DRIFT	=	SEE SHEET S104
MECH UNITS	=	SEE PLAN FOR RTU WEIGHTS
2. ALL TRUSSES SHALL BE DESIGNED FOR A 150 POUND POINT LOAD APPLIED AT ANY LOCATION ALONG THE BOTTOM CHORD. DESIGN ALL TRUSSES FOR WIND UPLIFT PER THE GOVERNING CODE WITH A 12 PSF DEAD LOAD.
3. ALL TRUSS TO TRUSS CONNECTIONS PROVIDED BY TRUSS MANUFACTURER.
4. TRUSS MANUFACTURER SHALL COORDINATE AND INCLUDE ALL ADD LOADS AS INDICATED ON THE FRAMING PLAN(S).
5. COORDINATE DUCT RUNS AND TRUSS WEB CONFIGURATIONS WITH MECHANICAL & ARCH. DRAWINGS. DO NOT FIELD MODIFY TRUSSES TO ACCOMMODATE DUCTING AND OTHER MISCELLANEOUS EQUIPMENT WITHOUT WRITTEN DIRECTION FROM THE TRUSS MANUFACTURER OR STRUCTURAL ENGINEER.
6. INSTALL SIMPSON LGT HOLDDOWNS WITH 2400 lb. CAPACITY @ EACH GIRDER TRUSS. TRUSS MANUF. TO VERIFY THAT THIS SIMPSON HOLDOWN MEETS OR EXCEEDS REQUIRED UPLIFT CAPACITIES FOR ALL TRUSSES DESIGNED. TRUSS MANUF. RESPONSIBLE TO NOTIFY EOR IN WRITING WHERE UPLIFT CAPACITIES ARE EXCEEDED.
7. COORDINATE ALLOWABLE TRUSS DEFLECTIONS WITH ARCHITECT FOR DETAILING OF NON-BEARING STUD WALLS BELOW.
8. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR REVIEW AS REQUIRED BY THE DEFERRED SUBMITTAL SECTION OF THE GENERAL STRUCTURAL NOTES.
9. WHERE INDICATED, BLOCK PANEL EDGES OF ROOF SHEATHING WITH FLAT 2X BLOCKING.
10. ALL TOP CHORDS AND TOP CHORDS EXTENSIONS TO BE 2X8 MEMBERS (7'-14" DEPTH). BOTTOM CHORDS TO BE MINIMUM 2X6.

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
Construction Documents - 08.14.24



DATE REVISION

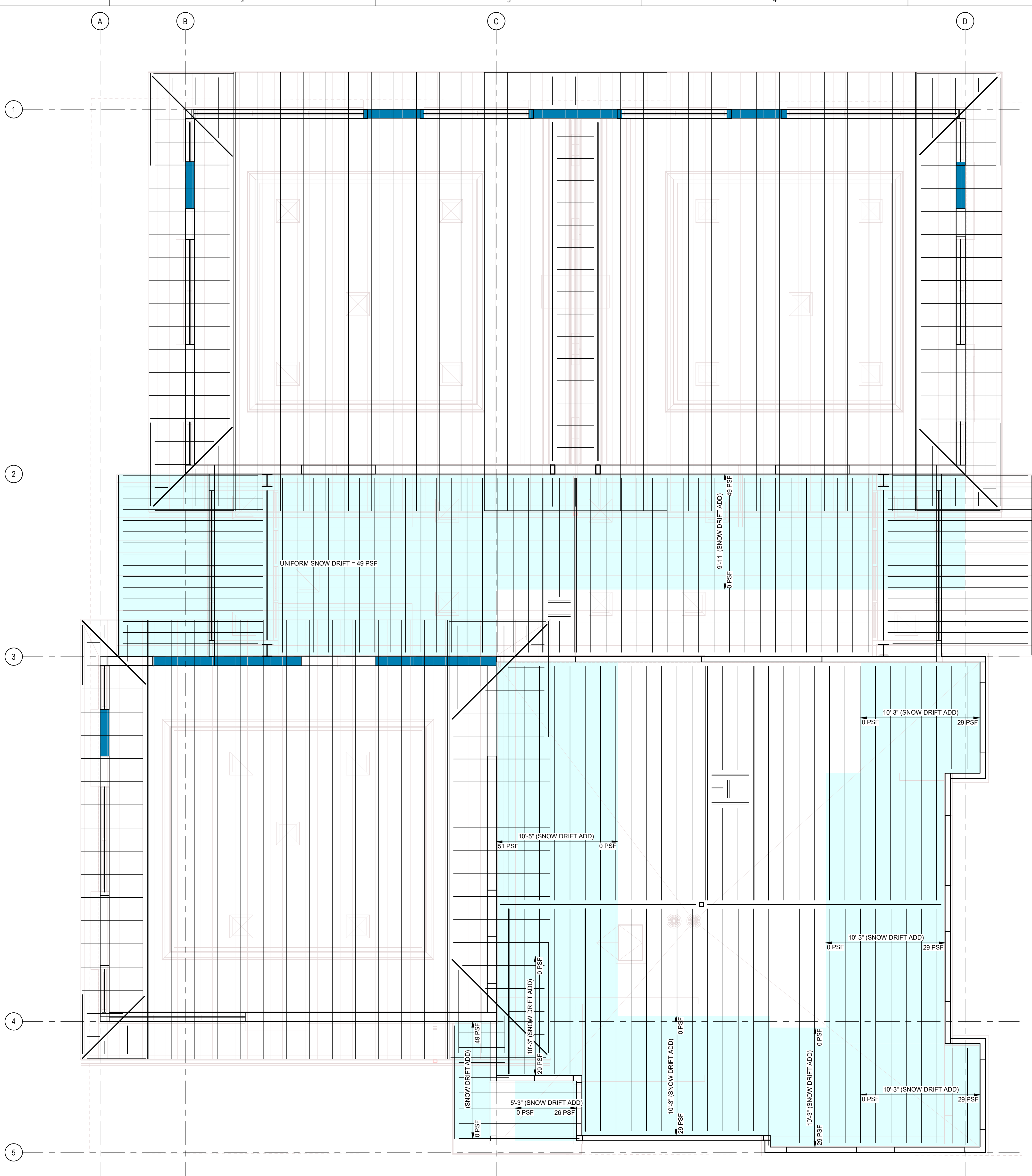
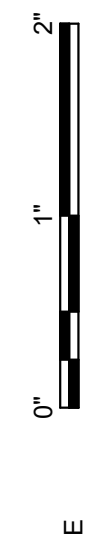
PROJECT NUMBER 24003

HIGH
ROOF
FRAMING
PLAN

S103

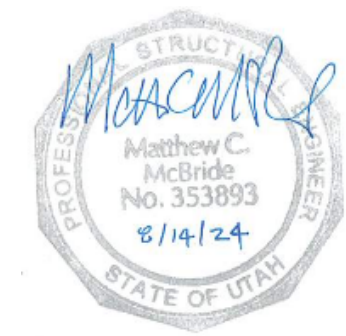


Autodesk Docs://24003.LgnUTSem/S - 23758 - Logan Senior Seminary - 2024.rvt
8/12/2024 1:46:08 PM



SNOW DRIFT PLAN
SCALE : 1/4" = 1'-0"

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
Construction Documents - 08.14.24



△ DATE REVISION

PROJECT NUMBER 24003

SNOW
DRIFT
PLAN

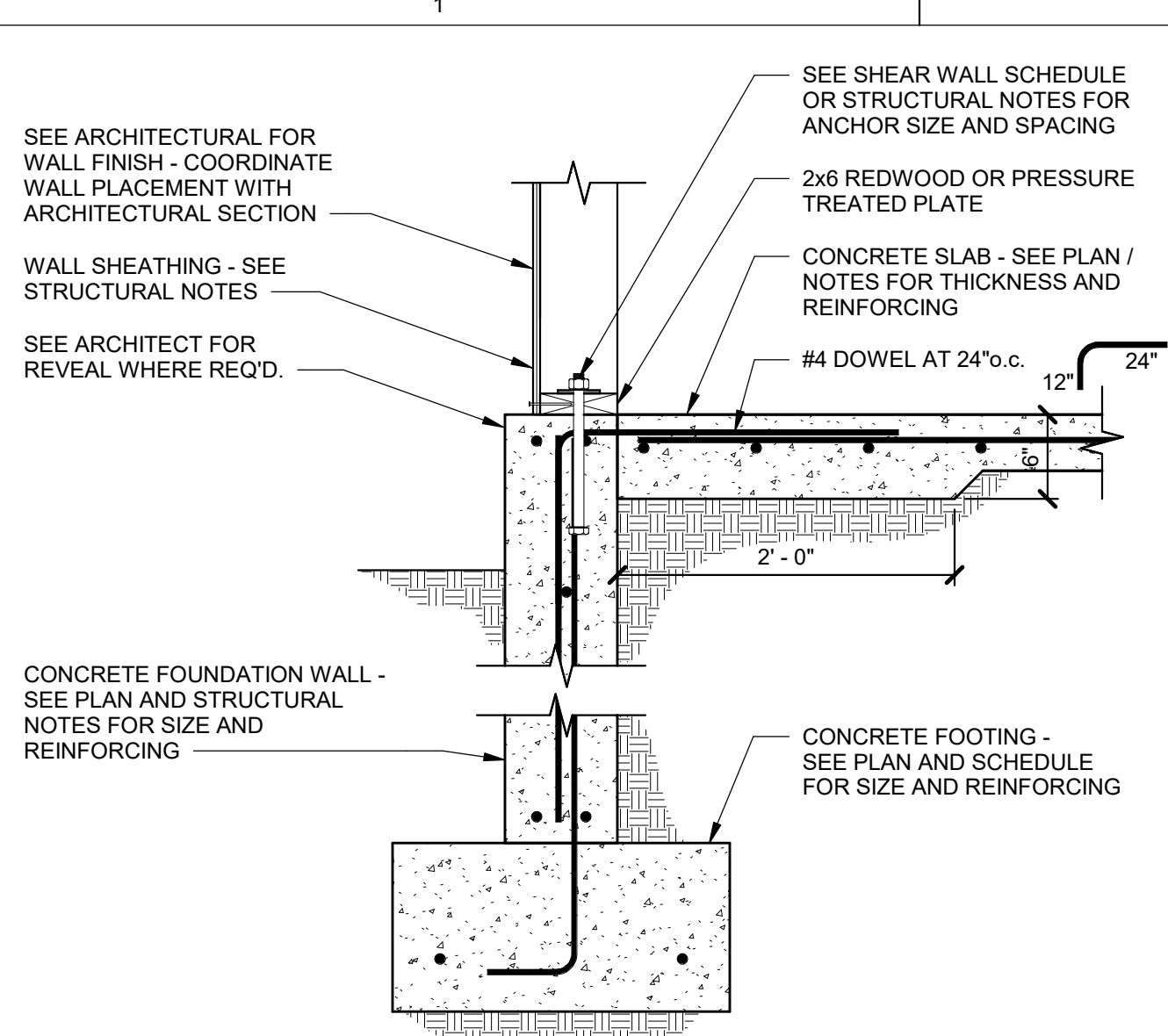
S104



VIEW AND PRINT THIS DRAWING IN COLOR

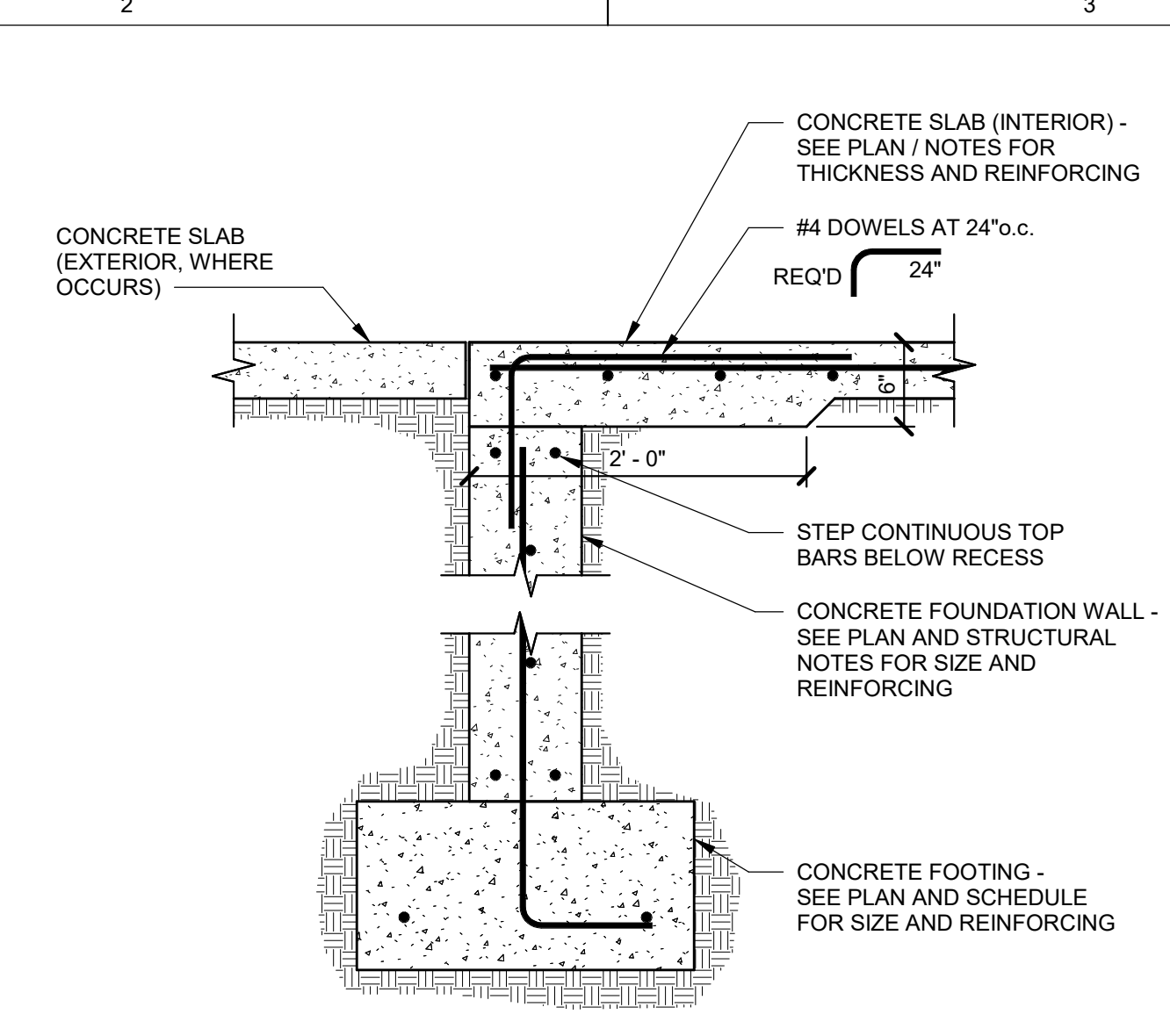


Autodesk Docs://240031gnUTSem/S - 23758 - Logan Senior Seminary - 2024.rvt
8/12/2024 1:46:09 PM



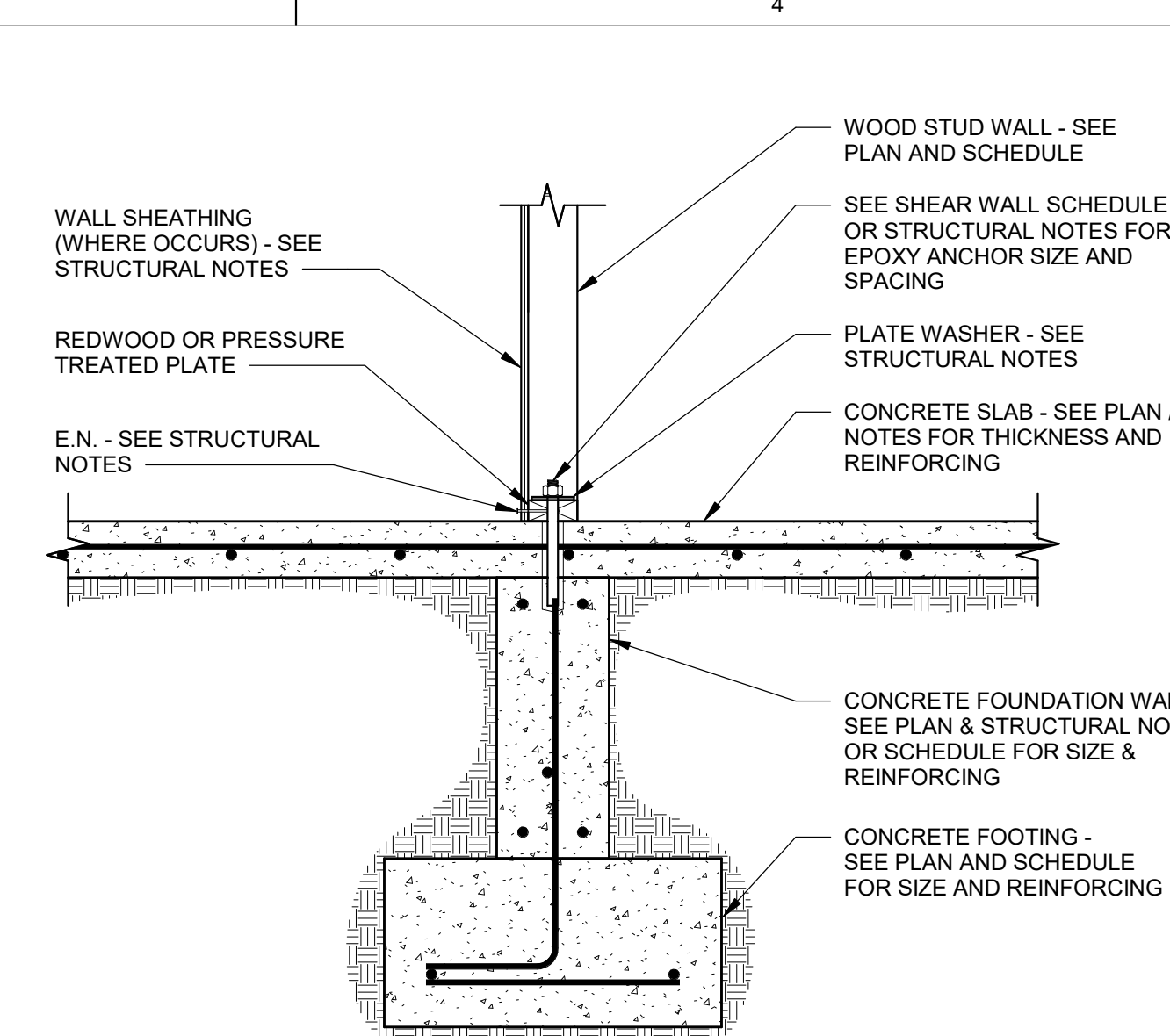
FOOTING SECTION @ TIMBER WALL DETAIL
SCALE: NONE

1
S210



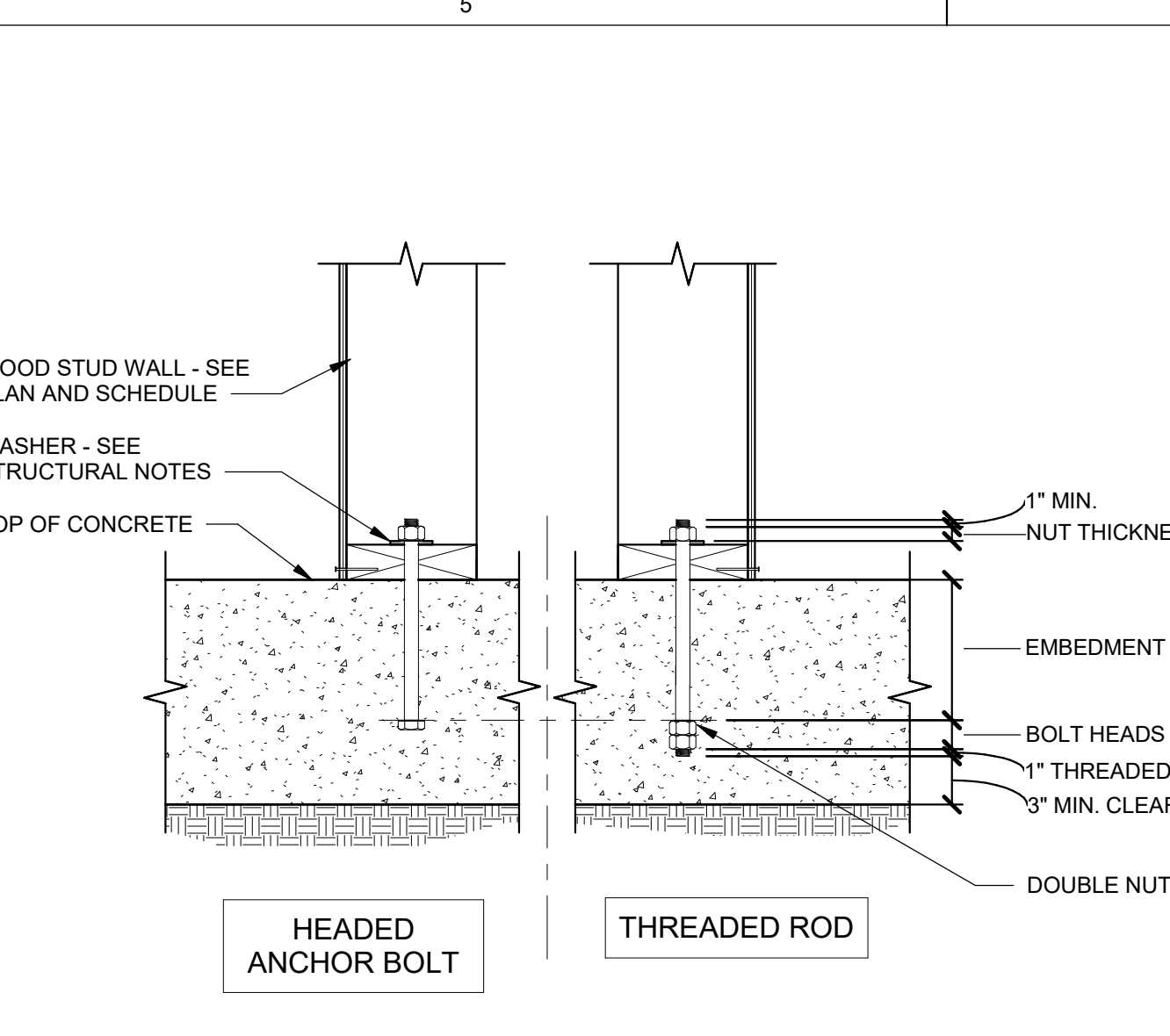
CONCRETE FOUNDATION @ OPENING
SCALE: NONE

2
S210



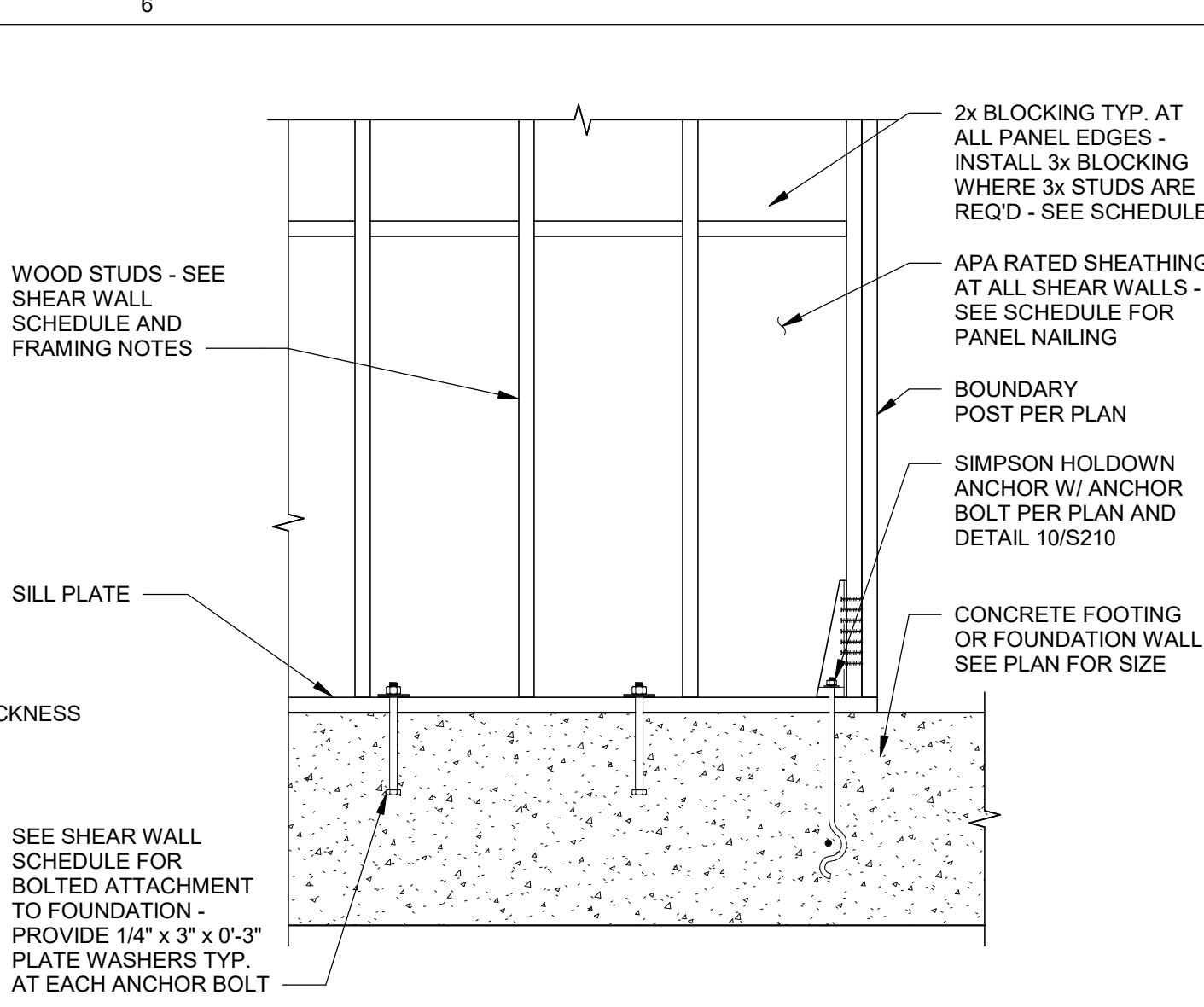
STUD WALL ON THICKENED SLAB
SCALE: NONE

3
S210



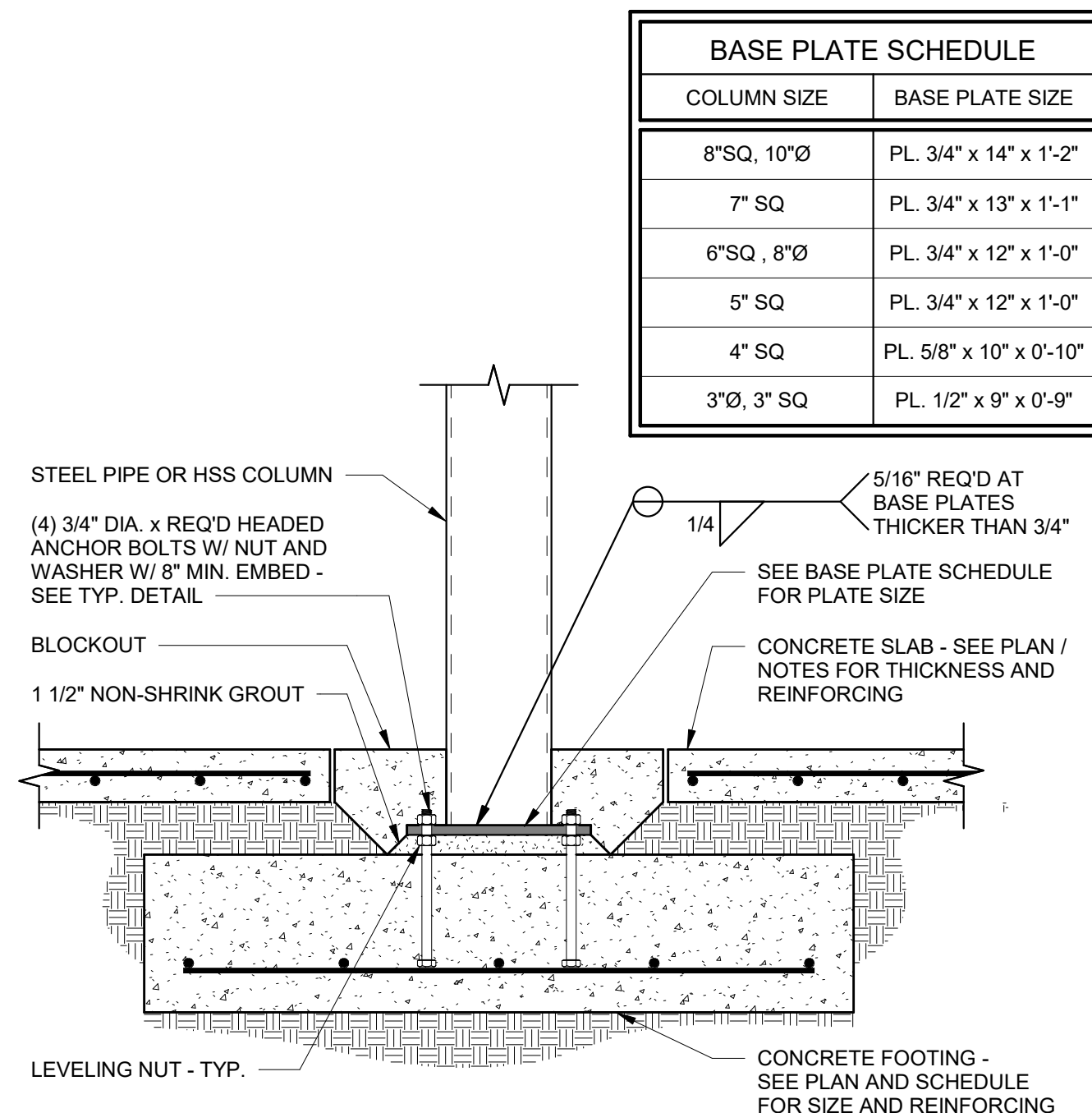
DETAIL
SCALE: NONE

4
S210



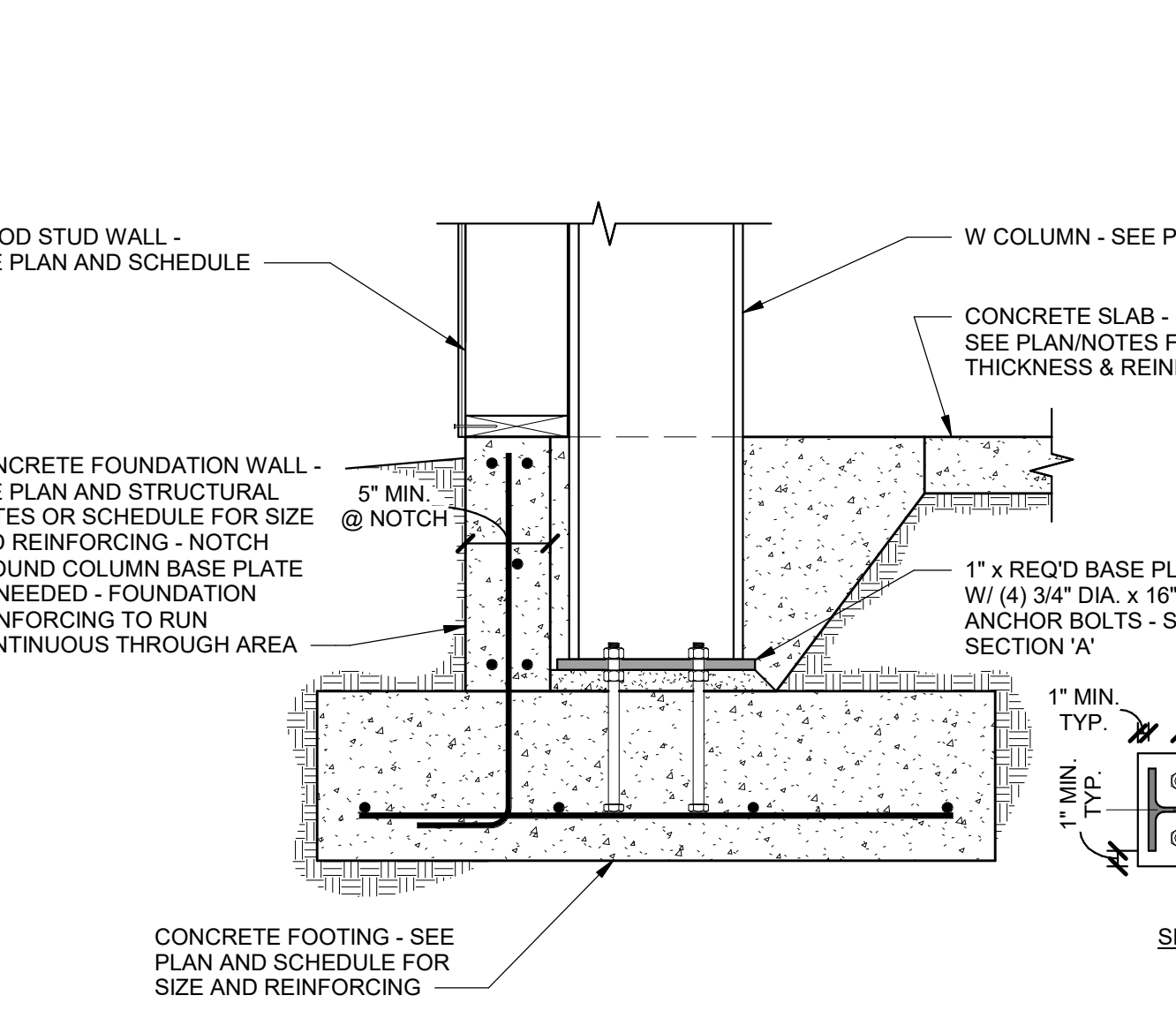
TYPICAL HOLDOWN DETAIL
SCALE: NONE

5
S210



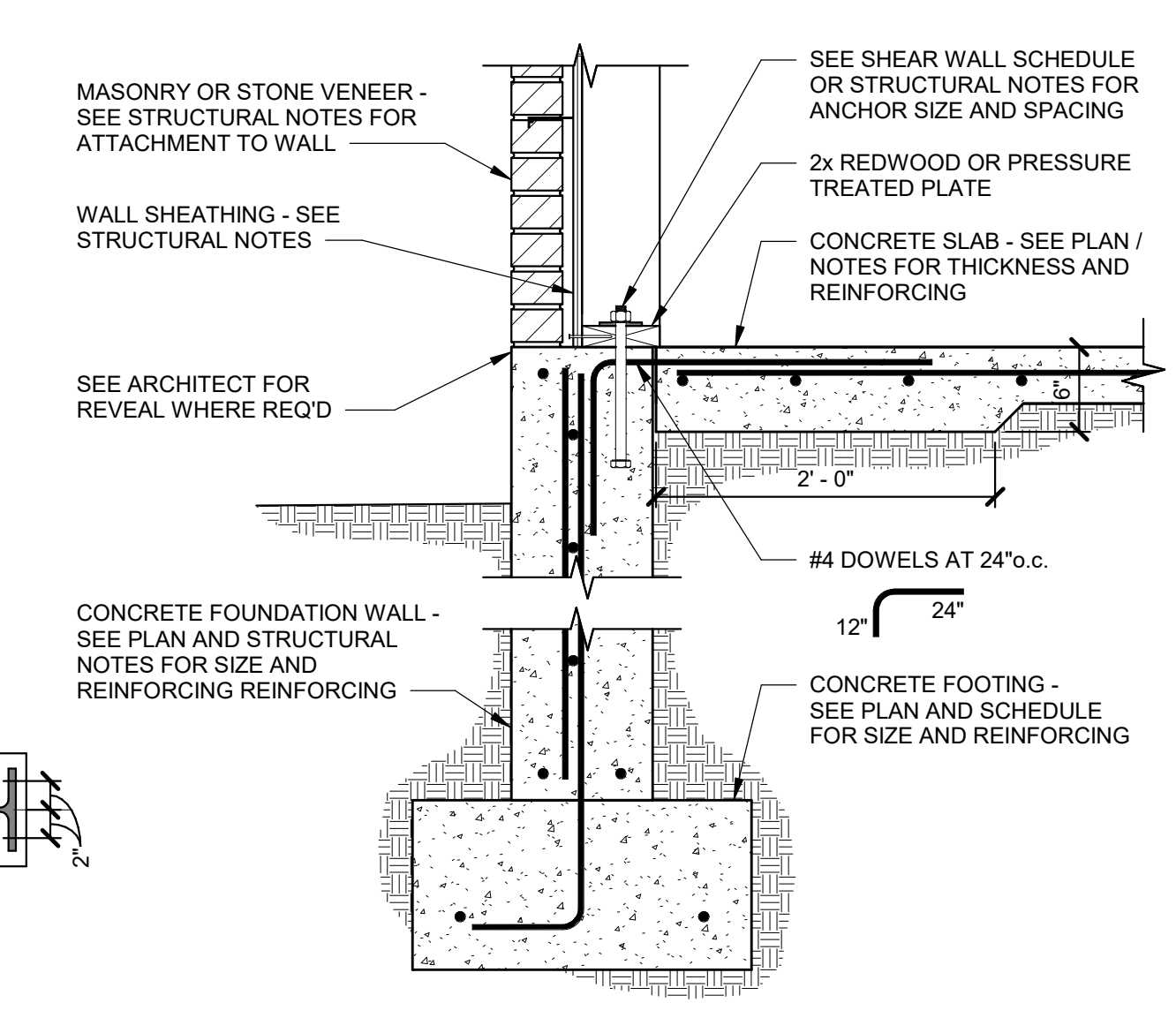
COLUMN TO SPOT FOOTING
SCALE: NONE

6
S210



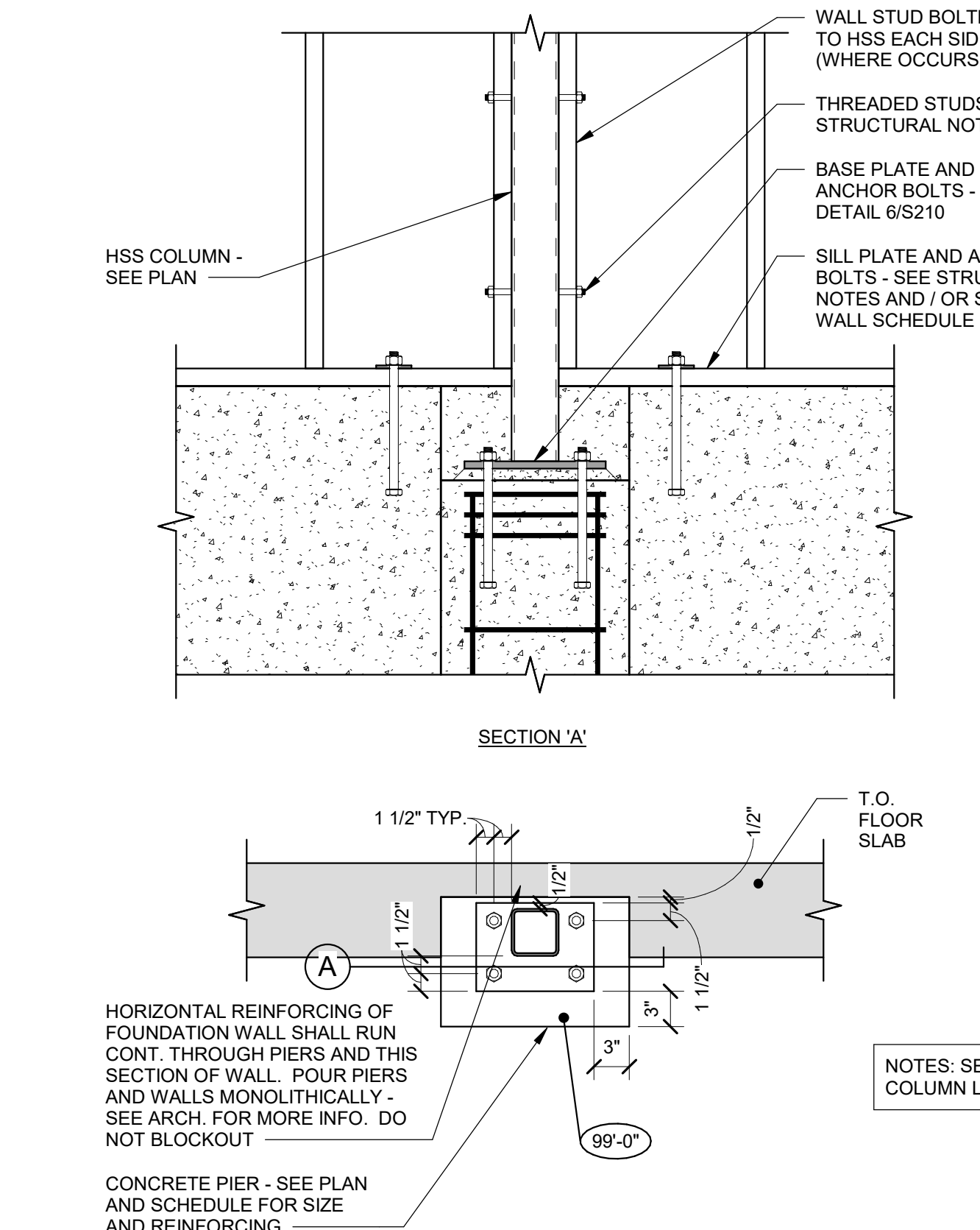
DETAIL
SCALE: NONE

7
S210



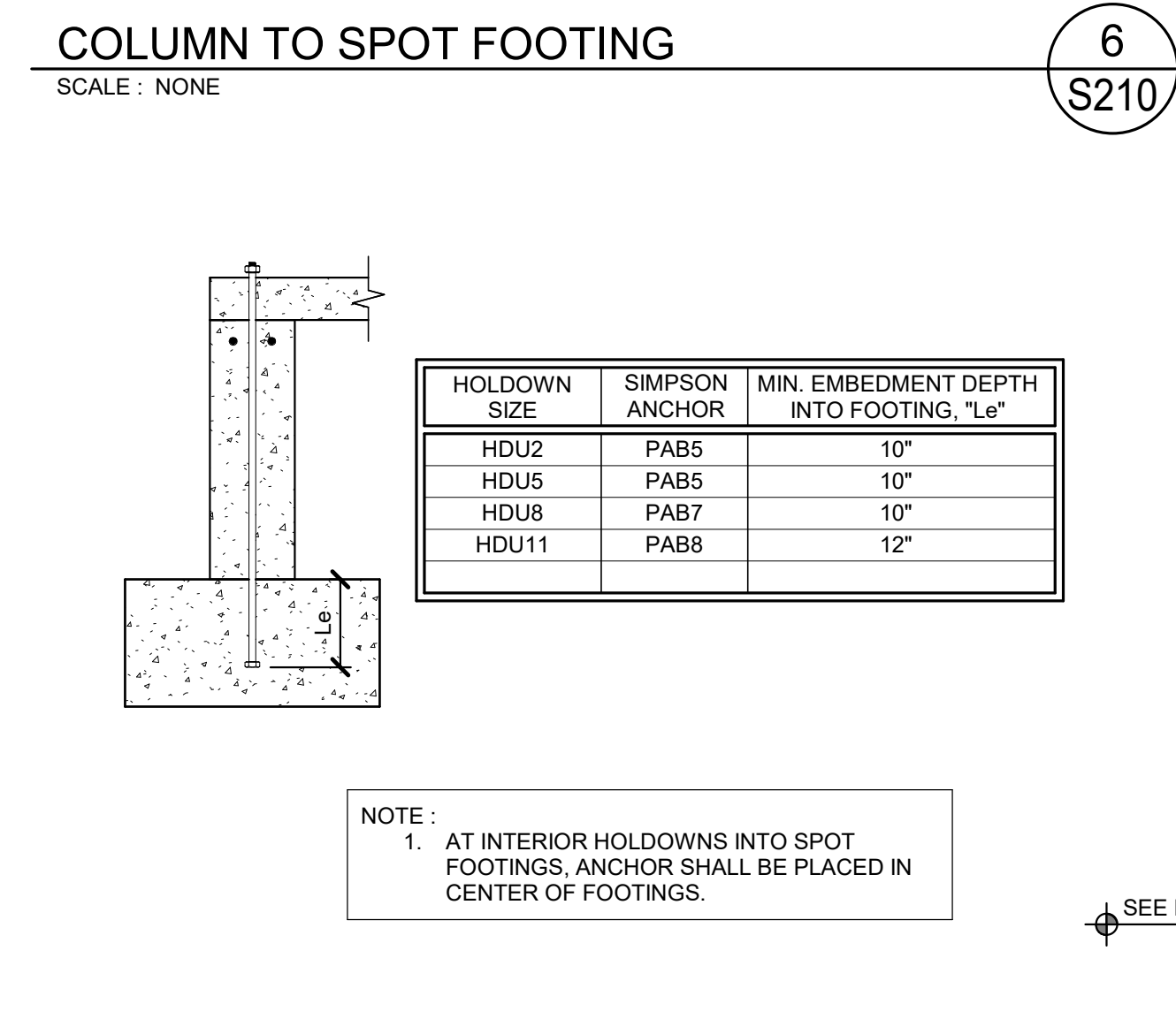
SECTION @ EXTERIOR TIMBER WALL
SCALE: NONE

8
S210



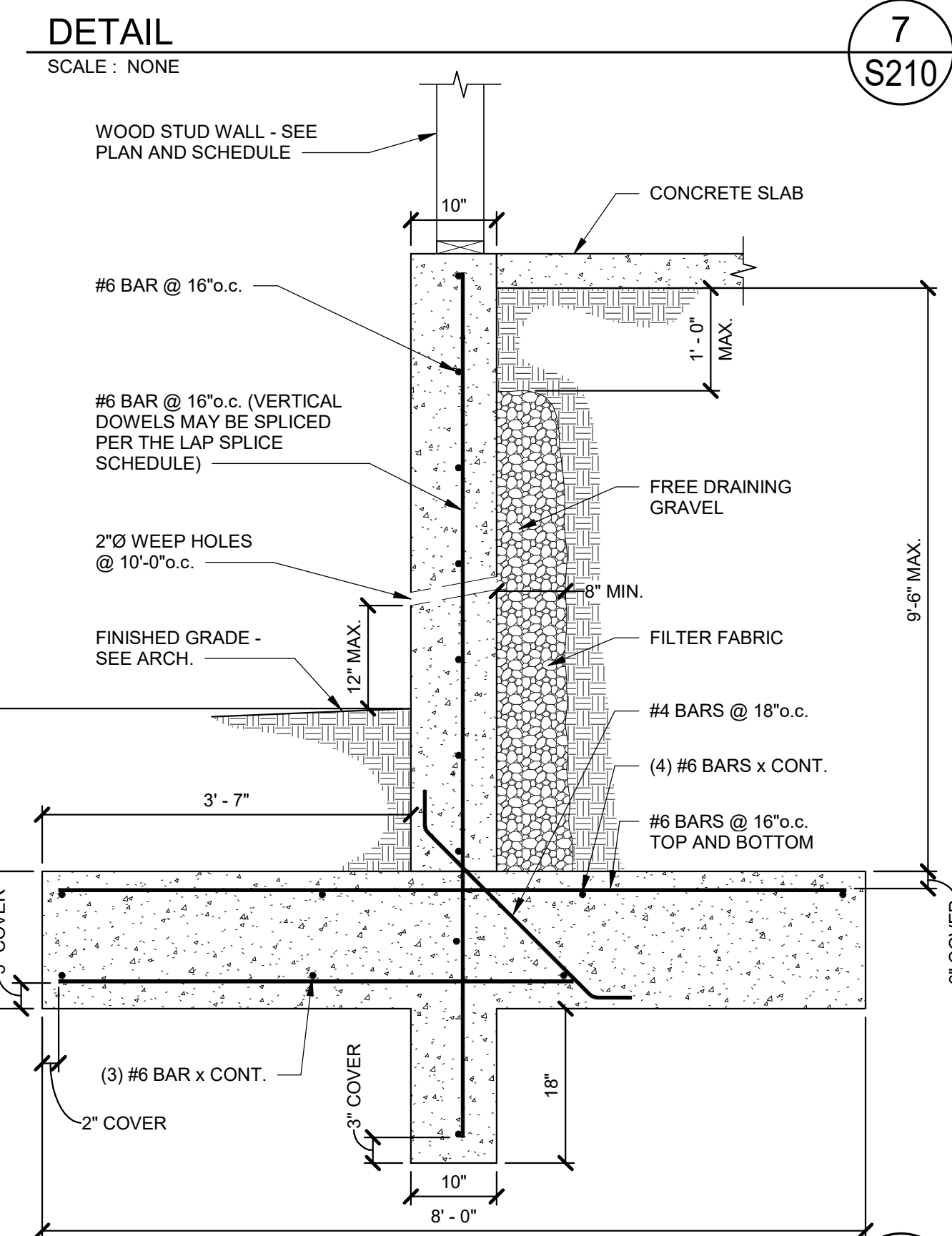
HSS COLUMN IN WOOD STUD WALL
SCALE: NONE

9
S210



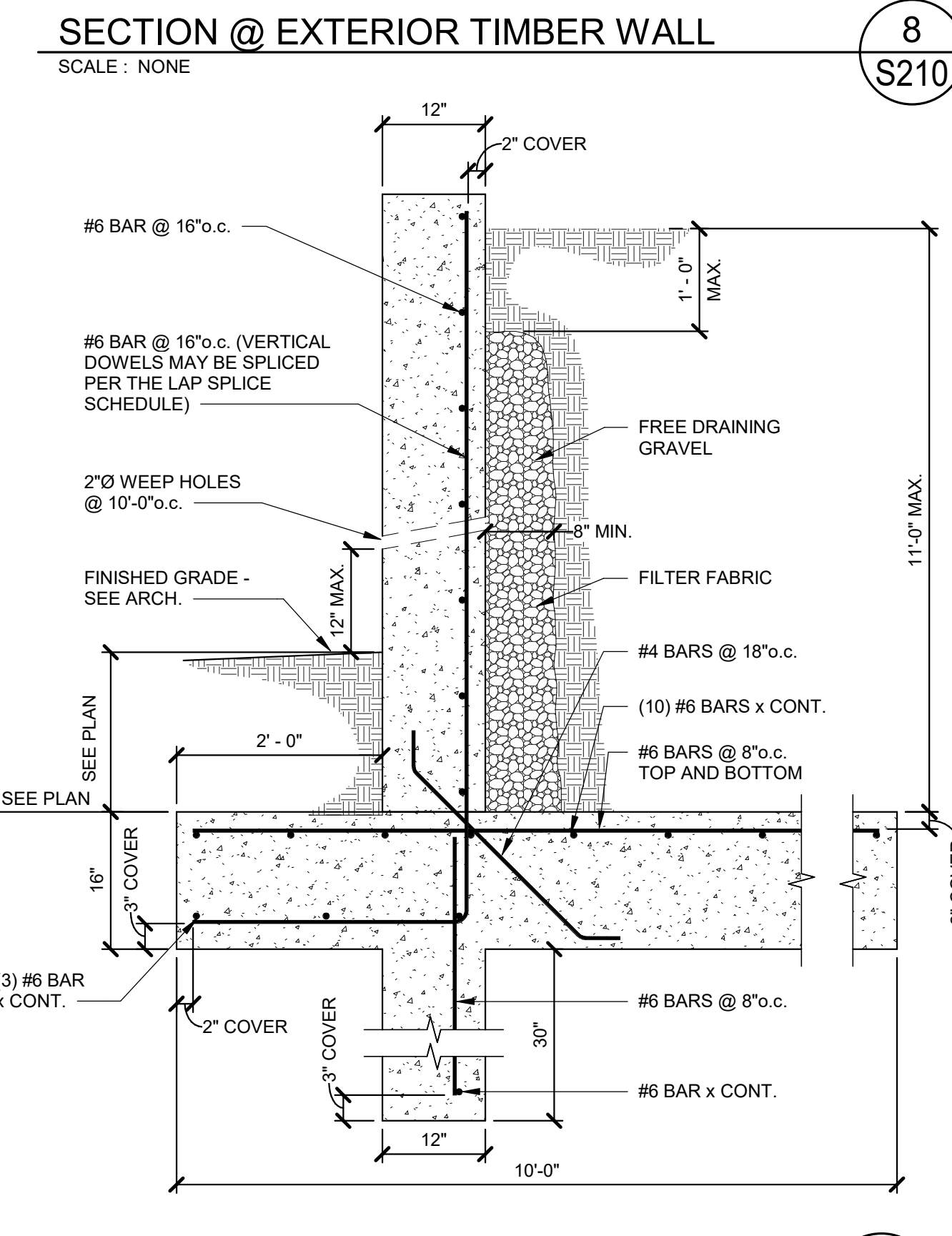
HOLDOWN EMBED SCHEDULE
SCALE: NONE

10
S210



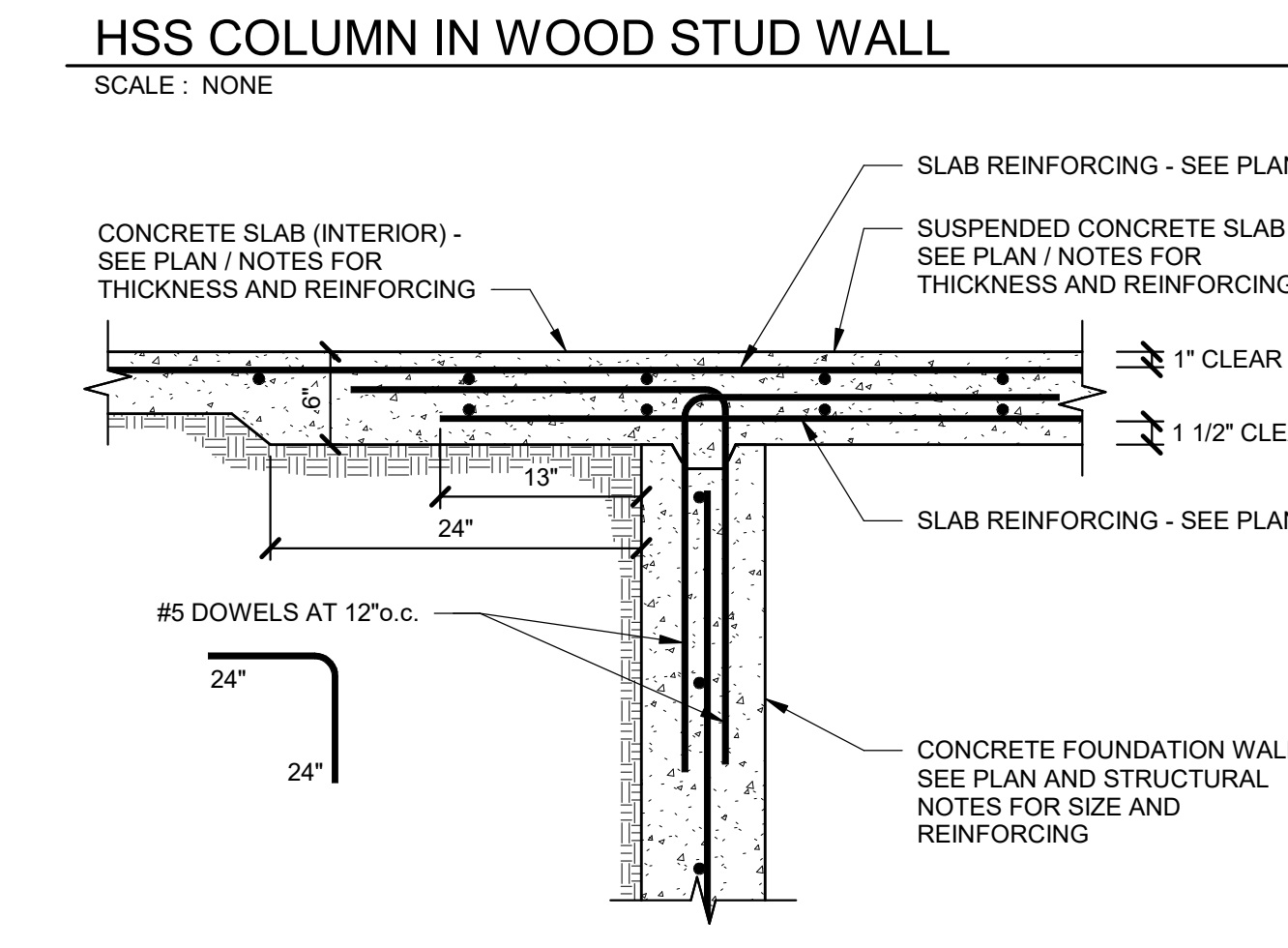
DETAIL
SCALE: NONE

11
S210



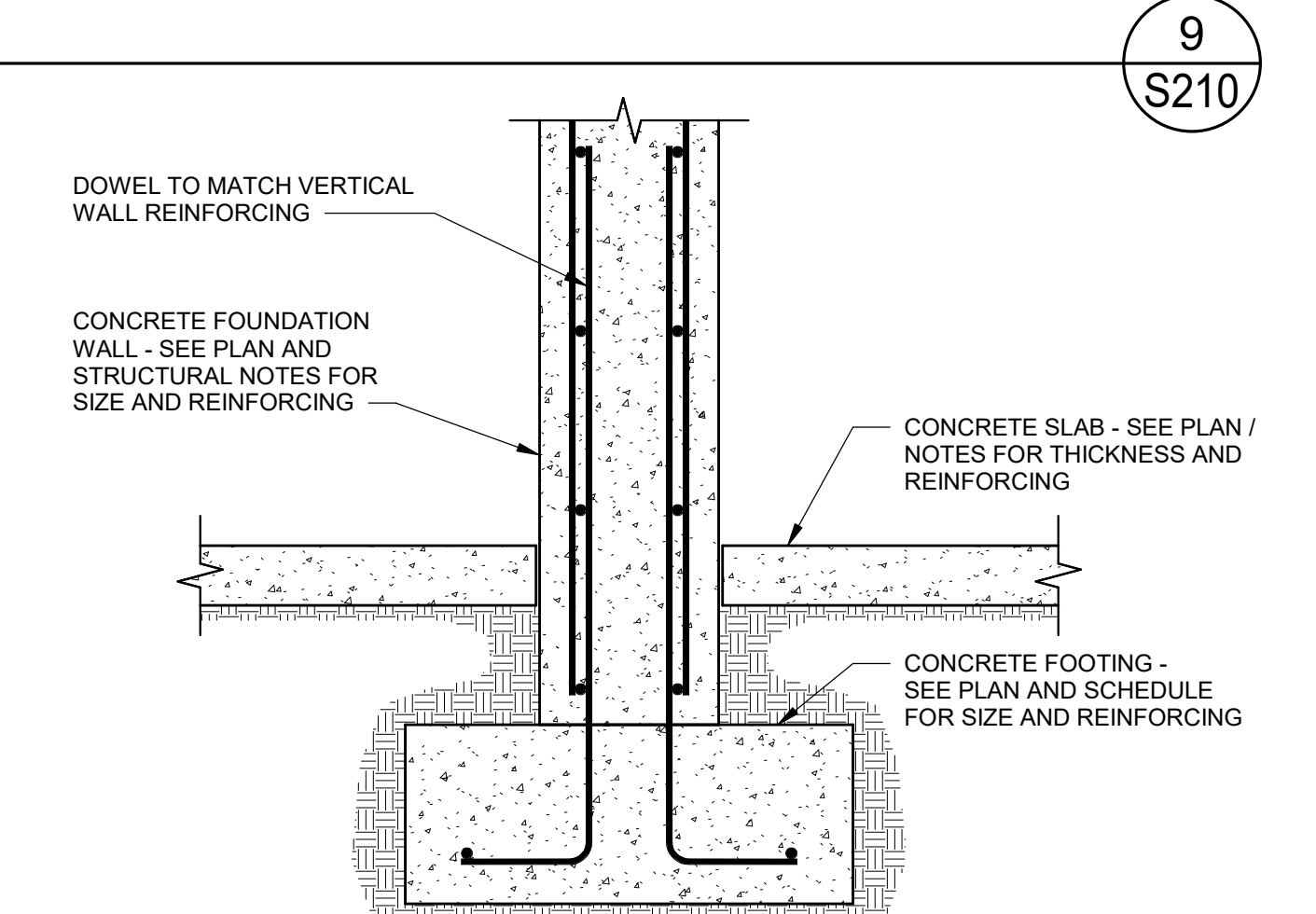
DETAIL
SCALE: NONE

12
S210



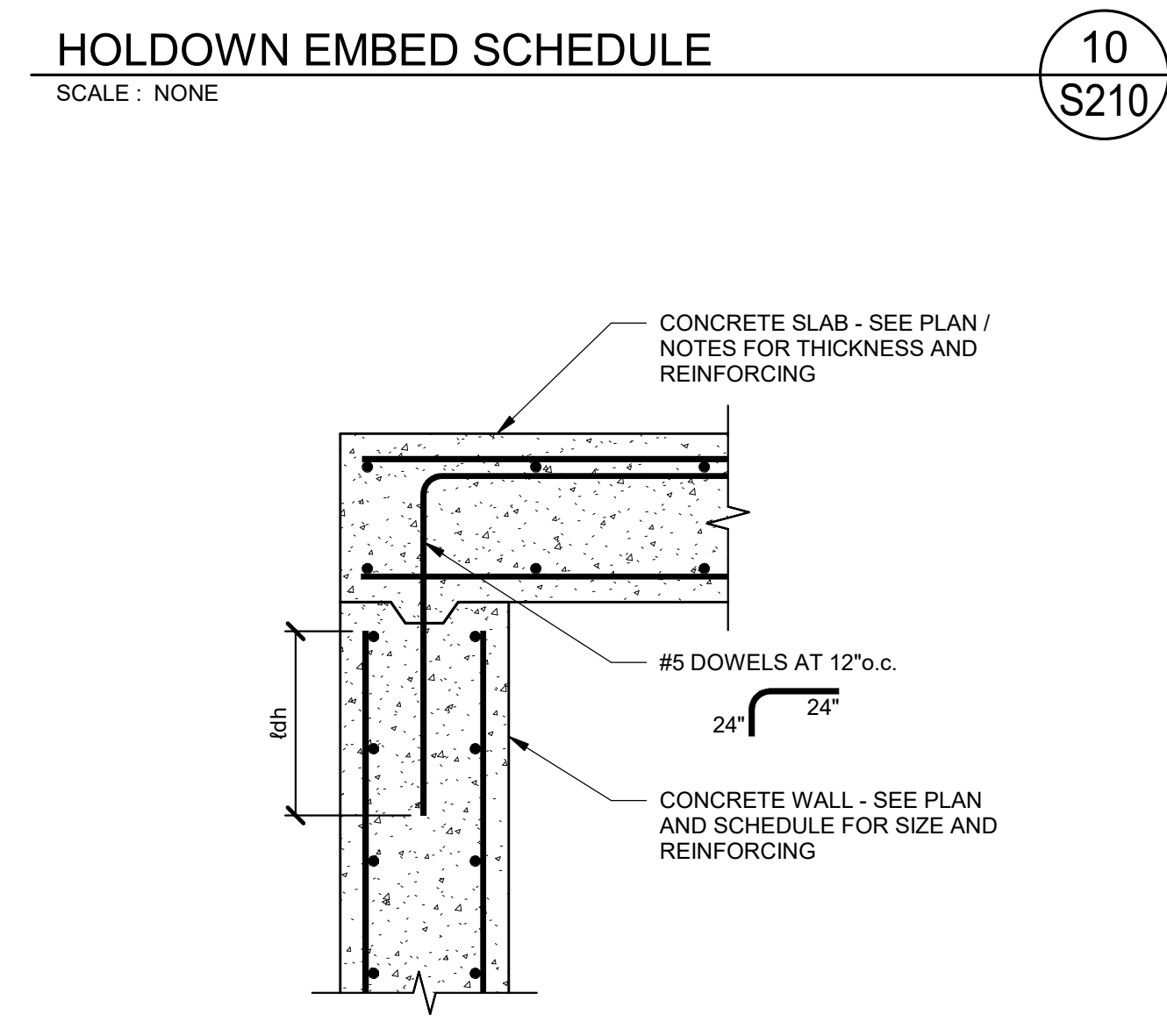
DETAIL
SCALE: NONE

13
S210



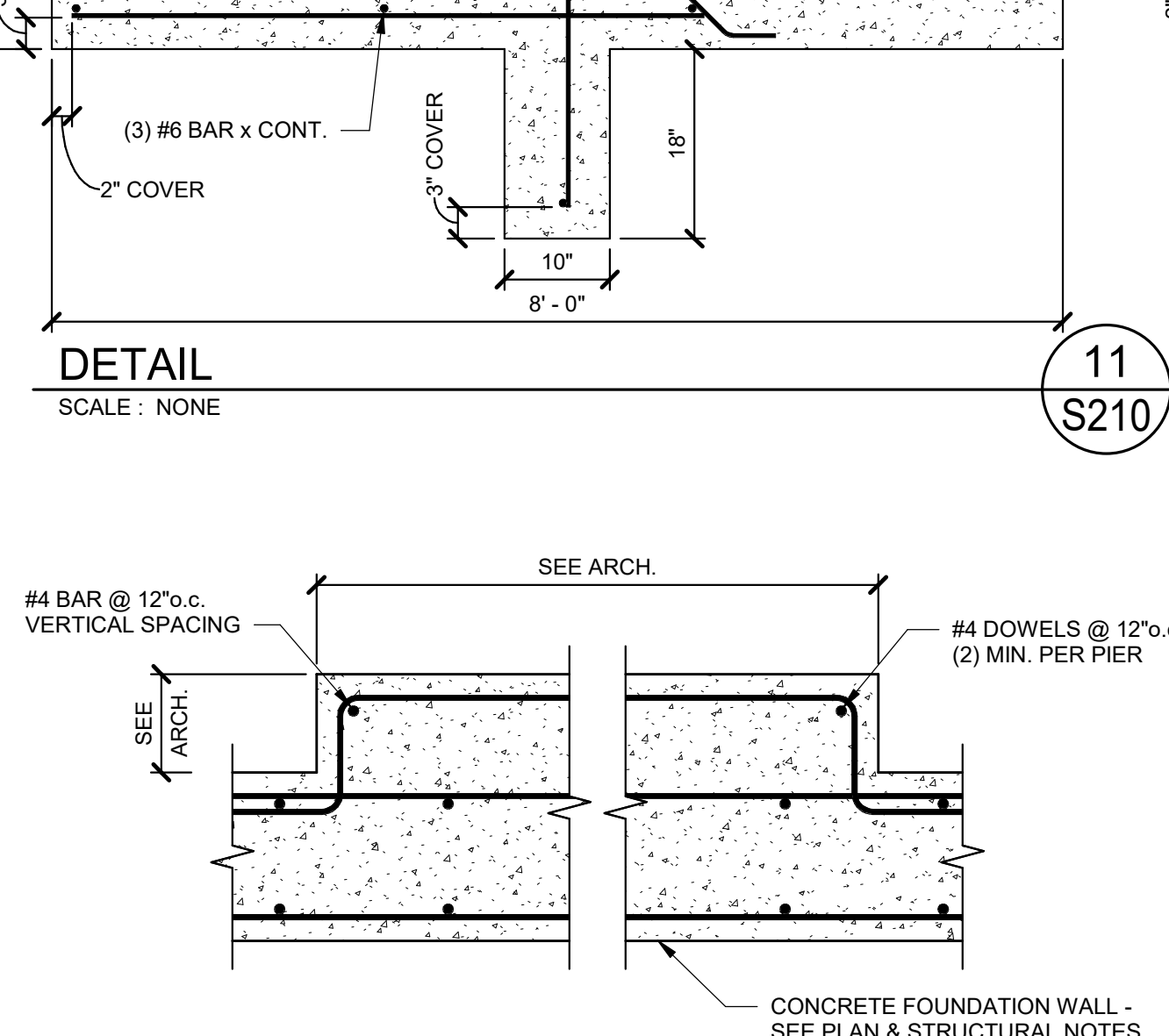
DETAIL
SCALE: NONE

14
S210



DETAIL
SCALE: NONE

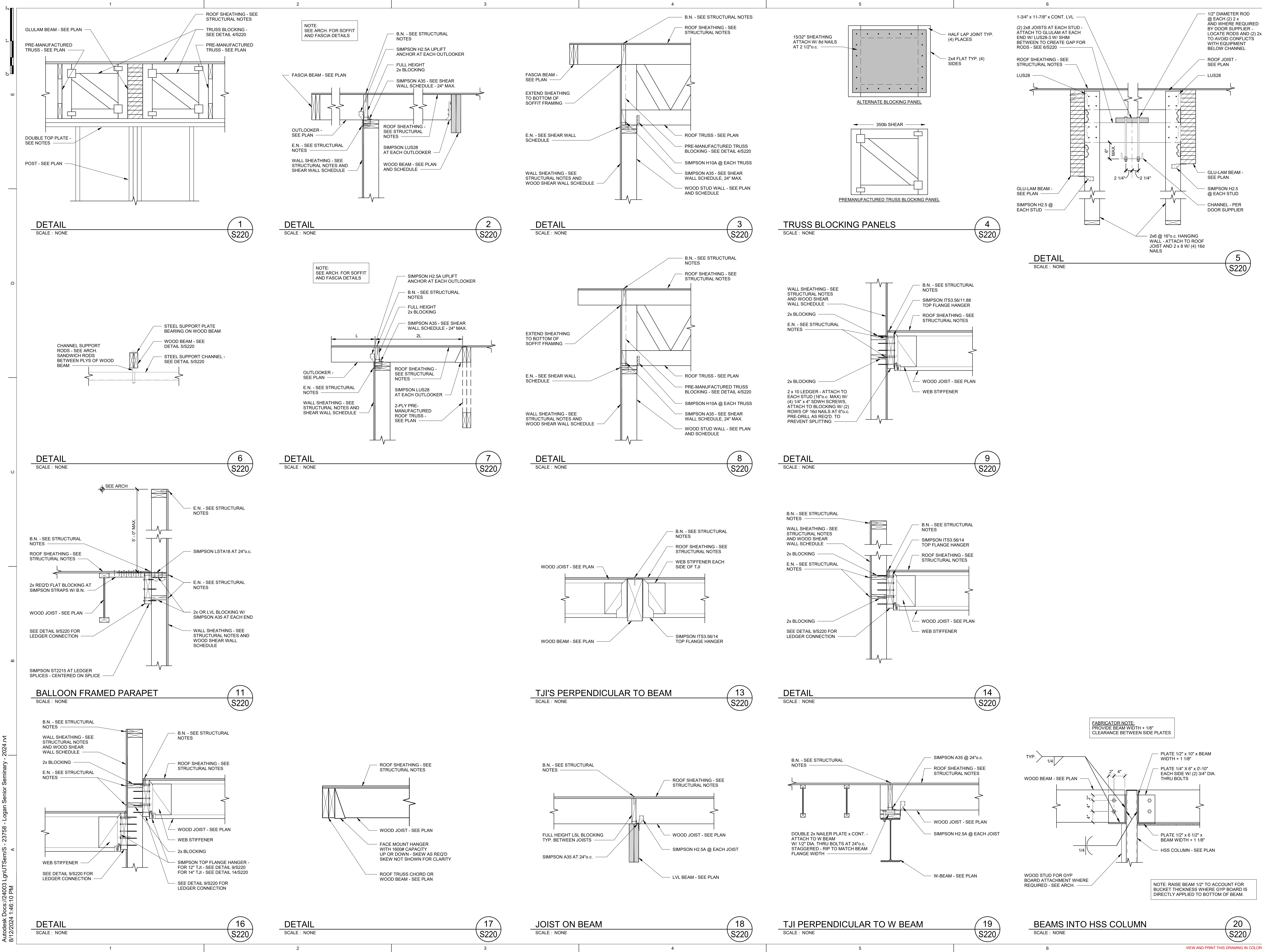
15
S210



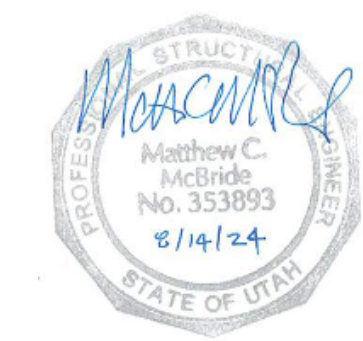
DETAIL
SCALE: NONE

16
S210

Autodesk Docs://240031gnUTSem/S - 23758 - Logan Senior Seminary - 2024.rvt
8/12/2024 1:46:10 PM



Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
Construction Documents - 08.14.24



DATE REVISION

PROJECT NUMBER 24003

FRAMING DETAILS

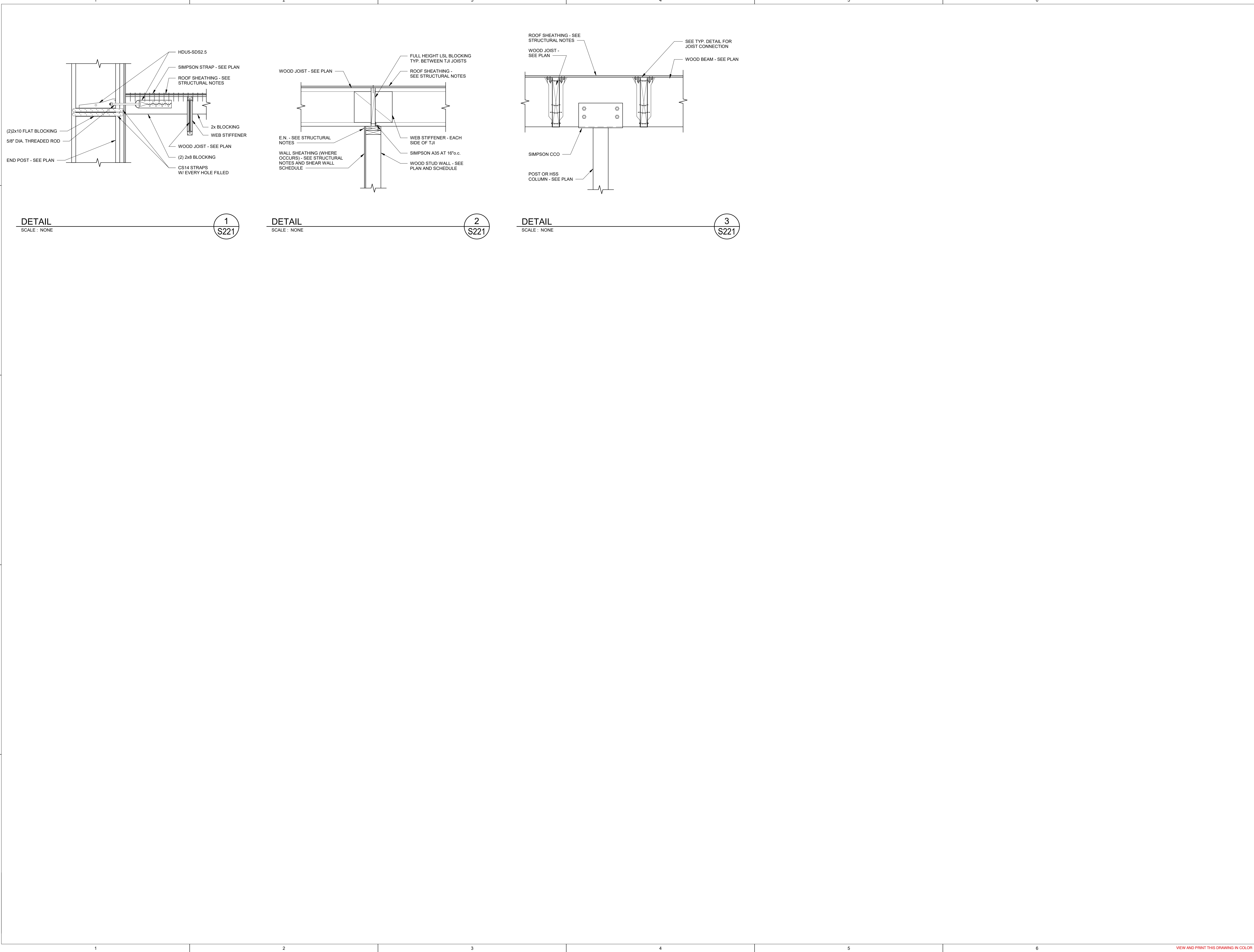
S220



VIEW AND PRINT THIS DRAWING IN COLOR

Autodesk Docs://24003_LgnUTSem/IS - 23758 - Logan Senior Seminary - 2024.rvt
8/12/2024 1:46:10 PM

A
B
C
D
E
F
G
H
I
J
K
L
M
N
1
2
3
4
5
6



Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
Construction Documents - 08.14.24



△ DATE REVISION

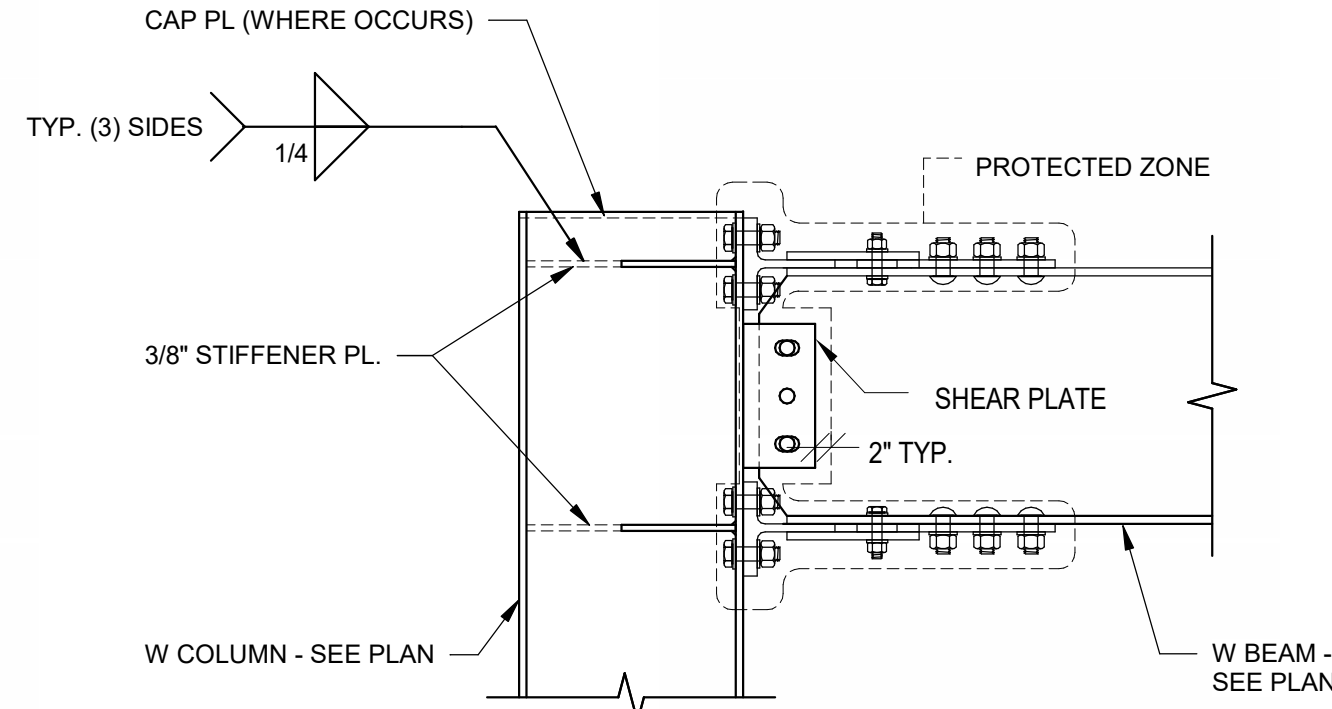
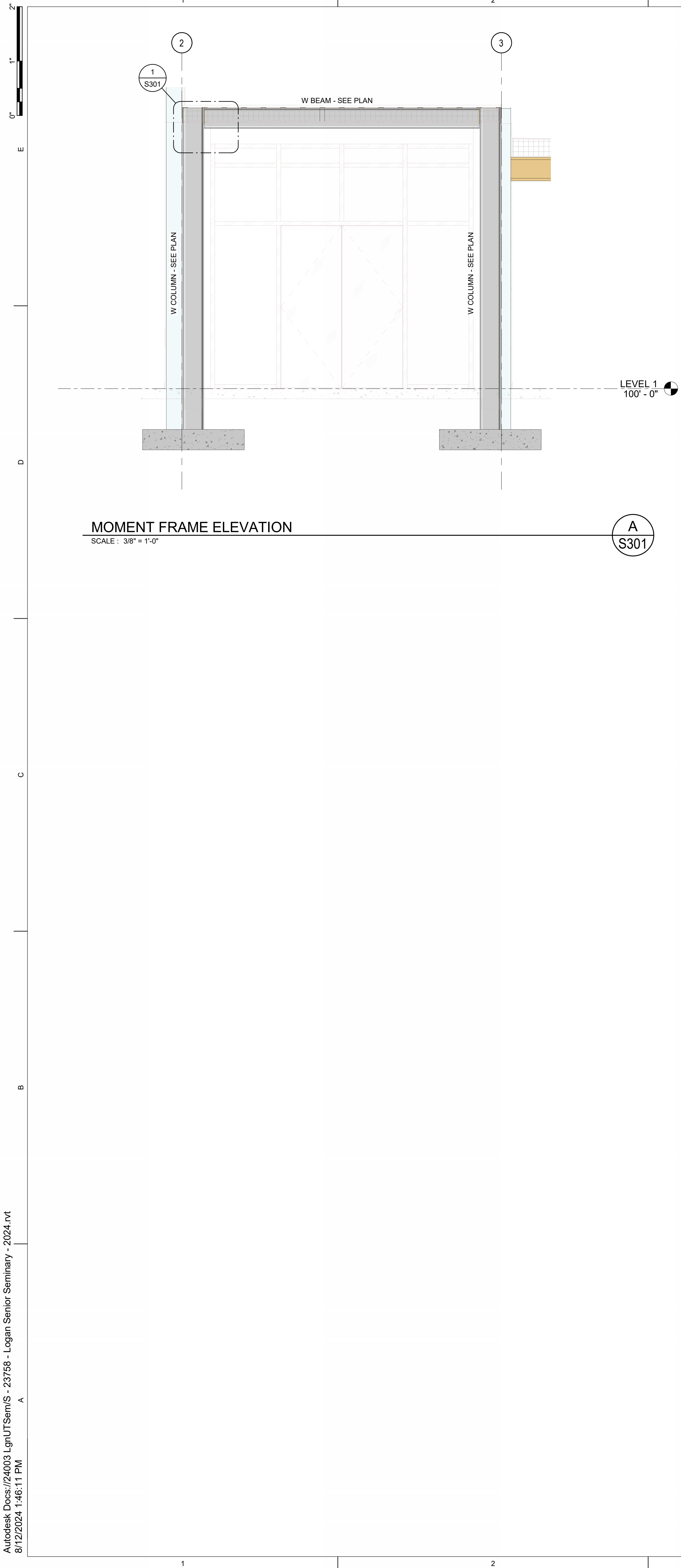
PROJECT NUMBER 24003

**FRAMING
DETAILS**

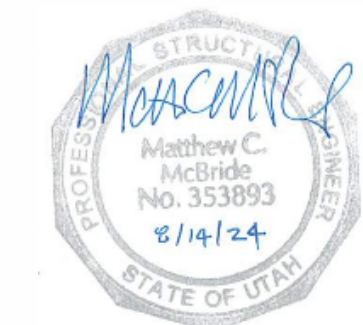
S221



Autodesk Docs://24003.LgnUTSem/S - 23758 - Logan Senior Seminary - 2024.rvt
8/12/2024 1:46:11 PM



Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
Construction Documents - 08.14.24



△ DATE REVISION

PROJECT NUMBER 24003

ELEVATIONS

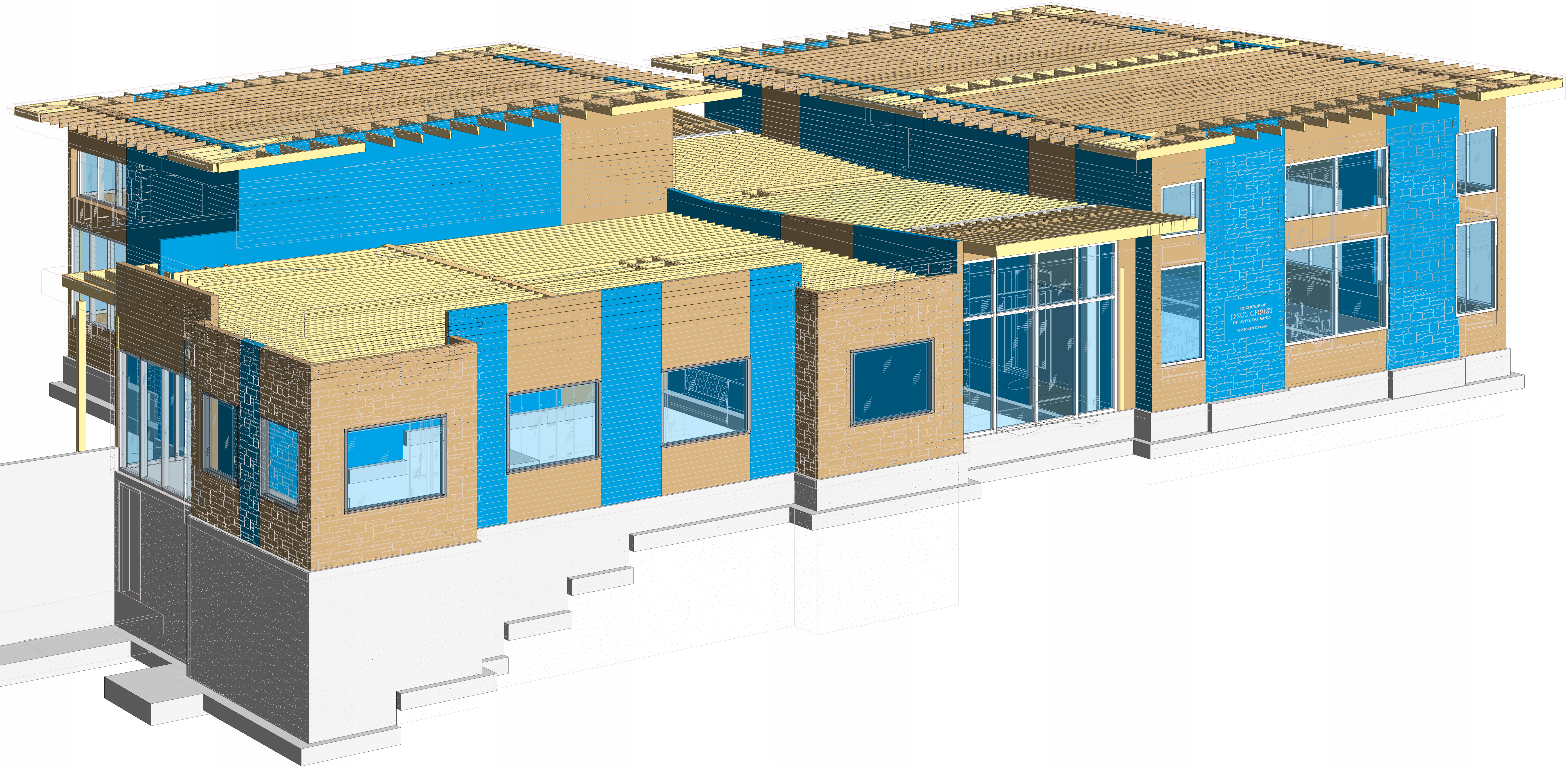
S301



VIEW AND PRINT THIS DRAWING IN COLOR

Autodesk Docs://240031-jnUTSem/S - 23758 - Logan Senior Seminary - 2024.rvt
8/12/2024 1:46:15 PM

A
B
C
D
E
1
2
3
4
5
6



NOTE: THIS VIEW REPRESENTS A SCHEMATIC RENDERING ONLY AND IS NOT INTENDED TO CONVEY CONSTRUCTION INFORMATION. ALL CONSTRUCTION SHALL COMPLY WITH SPECIFIC NOTES AND DETAILS WITHIN THE STRUCTURAL DRAWINGS.

PROJECT NUMBER 24003
SCHEMATIC REFERENCE

S401

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
Construction Documents - 08.14.24



DATE REVISION



FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 - FFKR.COM

9/10/2024 1:14:08 PM

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	NEW CONNECTION
	SUPPLY DUCT (CROSS SECTION)
	RETURN AIR OR EXHAUST DUCT (CROSS SECTION)
	ROUND DUCT (CROSS SECTION)
	RISE OR DROP IN ROUND OVAL DUCT
	DUCT SIZE, INSIDE CLEAR DIMENSION IN INCHES
	DUCT RISE
	DROP OR RISE IN SUPPLY DUCT
	ACOUSTICAL LINING IN DUCT INSIDE CLEAR DIMENSION IN INCHES
	TURNING VANES IN DUCT
	HAND DAMPER
	COMBINATION SMOKE/FIRE DAMPER
	ACCESS DOOR FOR FIRE DAMPER
	FACTORY MADE DUCT CONNECTION
	SUPPLY AIR DIRECTION
	RETURN AIR OR EXHAUST DIRECTION
	SUPPLY DIFFUSER
	RETURN AIR GRILLE
	EXHAUST GRILLE
	BRANCH DUCT TAKE-OFF
	PARALLEL BLADE DAMPER
	OPPOSED BLADE DAMPER
	TEMPERATURE SENSOR
	DROP IN PIPE
	RISE IN PIPE
	VALVE IN RISE
	UNION
	DUCT SMOKE DETECTOR
	SOFT COLD WATER
	S.A. SUPPLY AIR
	R.A. RETURN AIR
	NK DIFFUSER OR RETURN AIR GRILLE NECK
	(E) EXISTING
	COINO2 SENSOR
	CO2 SENSOR

ROOFTOP PACKAGED AIR CONDITIONING UNIT																						
SYMBOL	COOLING				ACFM	ESP IN. W.C.	MINIMUM OUTSIDE AIR CFM	HEATING				ELECTRICAL			SUPPLY FAN BHP	SUPPLY FAN HP	MCA	MOCP	MINIMUM ARI	APPROX WEIGHT LBS	CARRIER MODEL NO.	REMARKS
	ALTITUDE RATING GROSS TOT. MBH	ALTITUDE RATING GROSS SENS. MBH	ENT. AIR °F dbwb	LVG. AIR °F dbwb				GAS HTG BTU INPUT	GAS HTG BTU OUTPUT	ENT. AIR °F	LVG. AIR °F	VOLTS	PHASE	HERTZ								
RTU-1	56	55	79.6 / 60.1	55.2 / 51.5	2500	0.45	900	120	96	43.7	86.1	230	1	60	1.21	1.5	44	60	16.5	700	486C	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
RTU-2	56	55	79.6 / 60.1	55.2 / 51.5	2500	0.45	900	120	96	43.7	86.1	230	1	60	1.21	1.5	44	60	16.5	700	486C	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
RTU-3	56	55	79.6 / 60.1	55.2 / 51.5	2500	0.45	900	120	96	43.7	86.1	230	1	60	1.21	1.5	44	60	16.5	700	486C	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
RTU-4	56	55	79.6 / 60.1	55.2 / 51.5	2500	0.45	900	120	96	43.7	86.1	230	1	60	1.21	1.5	44	60	16.5	700	486C	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
RTU-5	56	55	79.6 / 60.1	55.2 / 51.5	2500	0.45	900	120	96	43.7	86.1	230	1	60	1.21	1.5	44	60	16.5	700	486C	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
NOTES: 1. FACTORY ECONOMIZER WITH BAROMETRIC RELIEF. 2. 24" HIGH MINIMUM FACTORY ROOF CURB WITH VIBRATION ISOLATION. 16" MIN. ABOVE ROOF MEMBRANE. 3. PROVIDE WITH LOW AMBIENT KIT FOR 45°F OPERATION. 4. 96°F AMBIENT AIR TEMPERATURE. 5. FURNISH UNITS WITH DISCONNECT. 6. 2 STAGE COOLING 7. HINGED AND LOCKING ACCESS DOORS. 8. R410A REFRIGERANT 9. PROVIDE SMOKE DETECTOR IN R.A. DUCT. 10. 2 STAGE GAS HEATING WITH STAINLESS STEEL HEAT EXCHANGER. 11. PROVIDE WITH 2" MERV 8 AIR FILTERS INCLUDED IN INTERNAL STATIC PRESSURE. 12. SHALL BE CONTROLLED BY A HONEYWELL LCBS CONNECT CONTROLLER AND THERMOSTAT.																						

SEE SPECIFICATION SECTION 237350

SPLIT SYSTEM AIR CONDITIONING UNIT															
SYMBOL	INDOOR SECTION						OUTDOOR SECTION						SEER2 RATING	REMARKS	
	EAT DBWB	BTUH TOTAL	CFM HIGH SPEED	MCA	VOLTS	MITSUBISHI MODEL	EAT °F	ELECTRICAL			MCA	MOCP			MITSUBISHI MODEL
								VOLTS	HERTZ	PHASE					
SAC-1	80/67	10266.7	385	1	208 / 230	PKA-A12LA1	94.9	208/230	60	1	11	15	PUY-A12NKA7	21.3	1,2,3,4,5
NOTES: 1. AT SITE ELEVATION. 2. INDOOR SECTION RECEIVES POWER FROM OUTDOOR UNIT THROUGH SUPPLIED INTERCONNECT WIRING. INVERTER DRIVEN COMPRESSOR. LOW AMBIENT CONTROL TO 0 °F. 3. FURNISH WITH WIRED THERMOSTAT. 4. FURNISH WITH CONDENSATE PUMP 5. PROVIDE MINIMUM 18" TALL STAND FOR CONDENSER.															

SEE SPECIFICATION SECTION 238126

GRAVITY VENTILATION HOOD												
SYMBOL	AIR FLOW CFM	STATIC PRESSURE IN.WG.	THROAT SIZE - IN		HOOD SIZE - IN			DUTY	LOCATION	MANUFACTURER	MODEL	REMARKS
			LENGTH	WIDTH	LENGTH	WIDTH	HEIGHT					
GVH-1	1000	0.01	16-1/4	16-1/4	31	39	12	RESTROOMS AND CUSTODIAL 121	ROOF	COOK	16x16 GR	1
GVH-2	300	0.04	12-1/2 DIAMETER		28 DIAMETER		12	ROOM 131	ROOF	COOK	12PR	2
NOTE: 1. PROVIDE WITH CONTROL DAMPER WIRED TO OPEN WHEN CEILING EXHAUST FAN CEF-1 THRU CEF-5 IS POWERED ON. 2. PROVIDE WITH CONTROL DAMPER WIRED TO OPEN WHEN CEILING EXHAUST FAN CEF-6 IS POWERED ON.												

SEE SPECIFICATION SECTION 233713

CEILING EXHAUST FANS																						
SYMBOL	MAXIMUM AIRFLOW CFM	TOTAL STATIC PRESSURE IN. W.G.	FAN RPM	ELECTRICAL				COOK MODEL	DUTY	MAXIMUM SOUND LEVELS											REMARKS	
				VOLTS	PHASE	HERTZ	INPUT WATTS			OCTAVE BAND												
										1	2	3	4	5	6	7	8	LWA	Dba	SONES		
CEF-1	200	0.5	1452	115	1	60	55	GCVF-180	ADA RESTROOM 110	58	57	63	63	63	59	55	51	67	56	6.0	① ②	
CEF-2	200	0.5	1452	115	1	60	55	GCVF-180	RESTROOM 111	58	57	63	63	63	59	55	51	67	56	6.0	① ②	
CEF-3	200	0.5	1452	115	1	60	55	GCVF-180	ADA RESTROOM 112	58	57	63	63	63	59	55	51	67	56	6.0	① ②	
CEF-4	200	0.5	1452	115	1	60	55	GCVF-180	RESTROOM 113	58	57	63	63	63	59	55	51	67	56	6.0	① ②	
CEF-5	200	0.5	1452	115	1	60	55	GCVF-180	CUSTODIAL 121	58	57	63	63	63	59	55	51	67	56	6.0	① ②	
CEF-6	300	0.5	1613	115	1	60	62	GCVF-500	ROOM 131	61	65	69	59	53	49	46	42	63	51	5.0	① ②	
NOTES: ① PROVIDE WITH FACTORY WIRED VARIABLE SPEED CONTROLLER ② PROVIDE WITH BACK DRAFT DAMPER.																						

SEE SPECIFICATION SECTION 233423

ELECTRIC RADIANT HEATERS							
SYMBOL	KW	ELECTRICAL			RUNTAL MODEL	DUTY	REMARKS
		VOLTS	HERTZ	PHASE			
ERH-1	1.53	240	60	1	EWP-B-240	FOYER 104	FURNISH WITH LINE VOLTAGE DOUBLE POLE THERMOSTAT

SEE SPECIFICATION SECTION 237600

GRILLE AND DIFFUSER SCHEDULE				
SYMBOL	FACE PANEL SIZE	TYPE	KRUEGER MODEL	REMARKS
S-1	24"x24"	LAY-IN	1400	-
S-2	SEE DRAWINGS	SURFACE	SH	-
S-3	SEE DRAWINGS	SLOT DIFFUSER	DPL15	1-1/2" SLOT
S-4	SEE DRAWINGS	SIDEWALL	AF880	-
R-1	SEE DRAWINGS	SIDEWALL	S480	38° BLADE DEFLECTION, HEAVY DUTY GYM GRILLE
R-2	24"x12"	LAY-IN	G490	-
R-3	SEE DRAWINGS	SURFACE	G490	-
R-4	24"x24"	LAY-IN	G490	-
R-5	SEE DRAWINGS	SIDEWALL	AFC585	-

SEE SPECIFICATION SECTION 233713

SEE DRAWINGS FOR CFM, NECK SIZE AND AIR PATTERN. REFER TO ARCHITECTURAL FOR CEILING AND GRID TYPE.

ELECTRIC WALL HEATERS								
SYMBOL	NOMINAL CFM	KW	ELECTRICAL			REZNOR MODEL	DUTY	REMARKS
			VOLTS	HERTZ	PHASE			
EH-1	160	1.5	120	60	1	EHA	VESTIBULE 103	①
EH-2	160	1.5	120	60	1	EHA	VESTIBULE 103	①
EH-3	160	1.5	120	60	1	EHA	VESTIBULE 105	①
EH-4	160	1.5	120	60	1	EHA	VESTIBULE 105	①
EH-5	160	1.5	120	60	1	EHA	STORAGE 125	①
EH-6	160	1.5	120	60	1	EHA	VESTIBULE 122	①
NOTES: ① BUILT IN TAMPER PROOF THERMOSTAT, RECESSED MOUNT CONFIGURATION, EXTRUDED ALUMINUM FRONT GRILLE, HIGH-LIMIT TEMPERATURE CONTROL WITH AUTOMATIC RESET								

SEE SPECIFICATION SECTION 237600

9/10/2024 1:14:15 PM

A B C D E

1

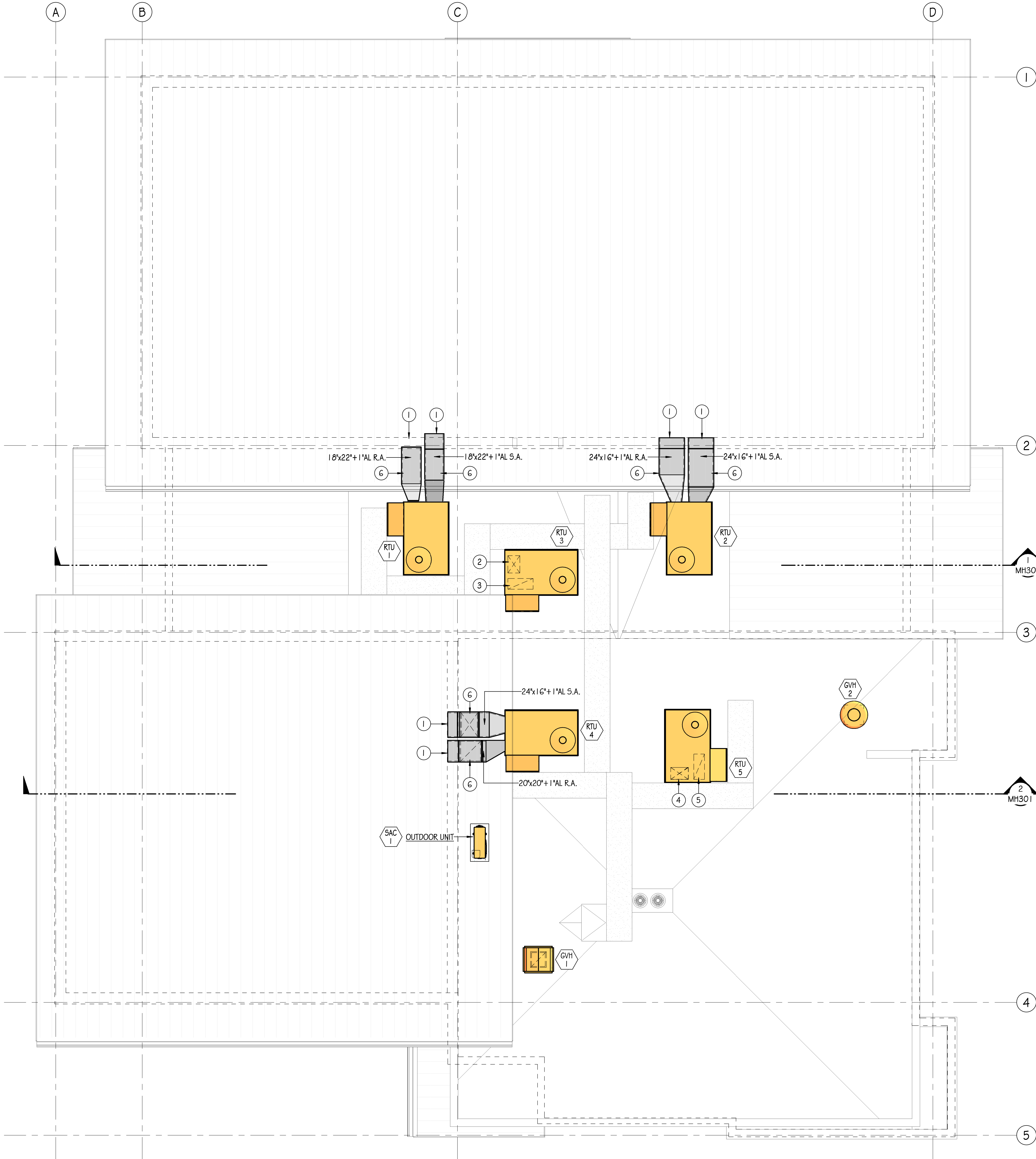
2

3

4

5

6



MH121

ROOF MECHANICAL PLAN

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



DRAWING NOTES

- 1 SUPPLY AND RETURN AIR DUCTS TO PENETRATE EXTERIOR WALL. SEAL ALL PENETRATIONS WATER TIGHT. FIELD COORDINATE EXACT WALL PENETRATION LOCATIONS / SIZES WITH STRUCTURAL. REFERENCE DRAWING 1/MH111 FOR CONTINUATION.
- 2 TRANSITION AS REQUIRED FROM RTU-3 OUTLET SIZE TO 24"x16"+1"AL AND CONTINUE SUPPLY AIR DUCT DOWN TO THROUGH ROOF TO CEILING SPACE BELOW. FIELD COORDINATE EXACT ROOF PENETRATION LOCATIONS / SIZES WITH STRUCTURAL. REFERENCE DRAWING 1/MH111 FOR CONTINUATION.
- 3 24"x16"+1"AL RETURN AIR DUCT UP FROM CEILING SPACE BELOW. TRANSITION AS REQUIRED AND CONNECT TO RTU-3 INLET. FIELD COORDINATE EXACT ROOF PENETRATION LOCATIONS / SIZES WITH STRUCTURAL. REFERENCE DRAWING 1/MH111 FOR CONTINUATION.
- 4 TRANSITION AS REQUIRED FROM RTU-5 OUTLET SIZE TO 24"x16"+1"AL AND CONTINUE SUPPLY AIR DUCT DOWN TO THROUGH ROOF TO CEILING SPACE BELOW. FIELD COORDINATE EXACT ROOF PENETRATION LOCATIONS / SIZES WITH STRUCTURAL. REFERENCE DRAWING 1/MH111 FOR CONTINUATION.
- 5 24"x16"+1"AL RETURN AIR DUCT UP FROM CEILING SPACE BELOW. TRANSITION AS REQUIRED AND CONNECT TO RTU-5 INLET. FIELD COORDINATE EXACT ROOF PENETRATION LOCATIONS / SIZES WITH STRUCTURAL. REFERENCE DRAWING 1/MH111 FOR CONTINUATION.
- 6 ALL EXPOSED DUCTWORK ON ROOF SHALL BE DOUBLE WALL WITH 3" OF INSULATION BETWEEN ALUMINUM OUTER JACKET AND GALVANIZED INNER DUCTWORK. SEAL WATER TIGHT.

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 09.05.24



DATE REVISION

PROJECT NUMBER 24003

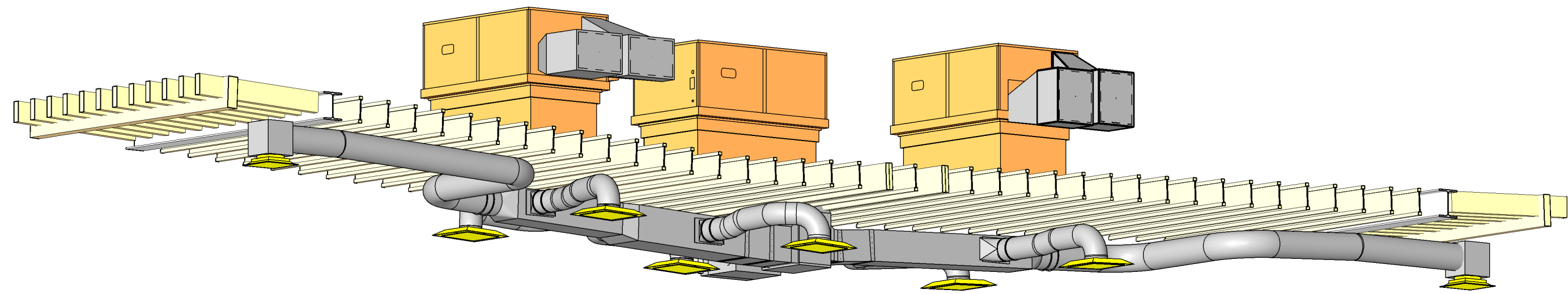
ROOF
MECHANICAL
PLAN

MH121

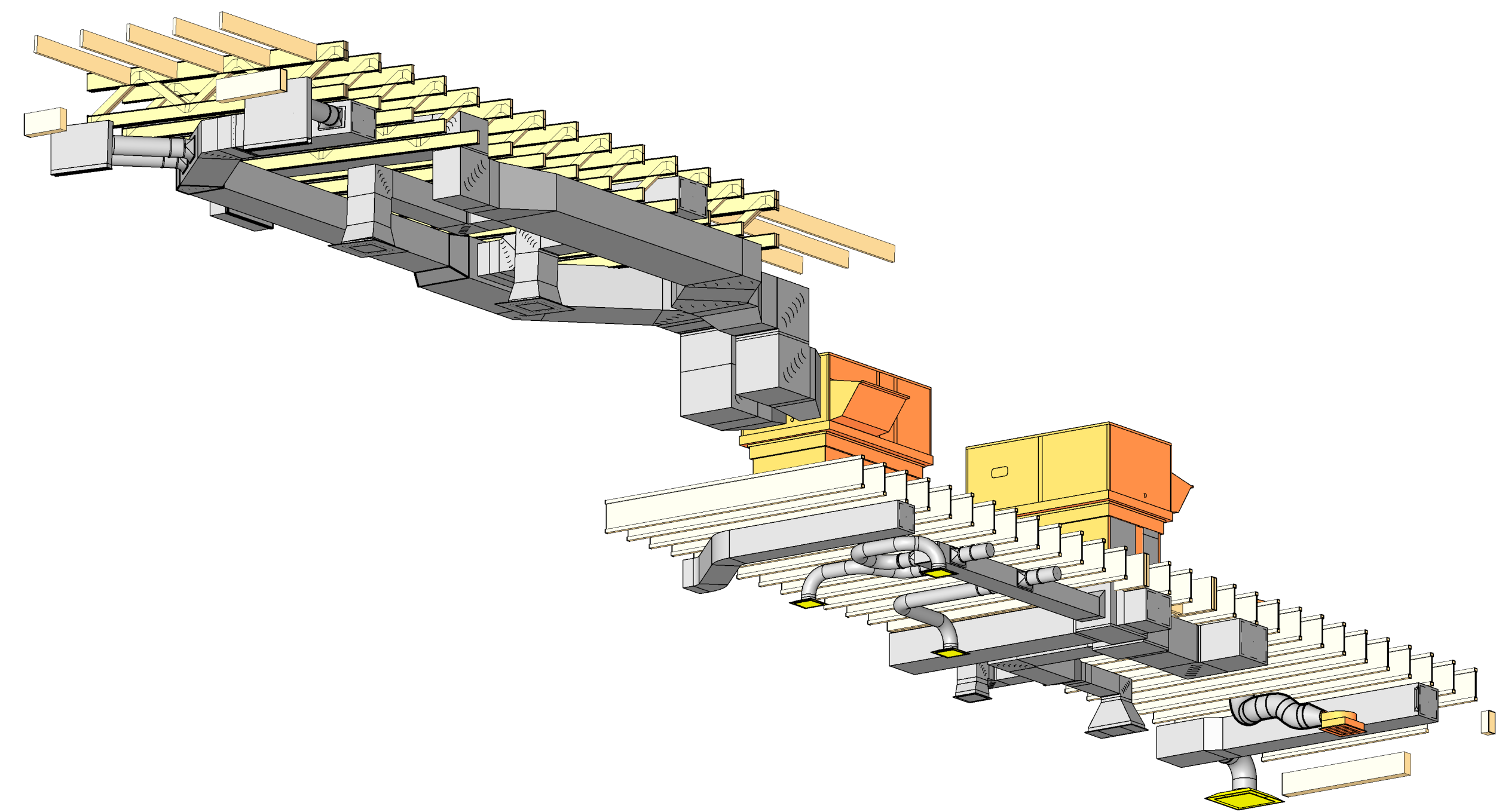
FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 - FFKR.COM

HEATH
Engineering Company

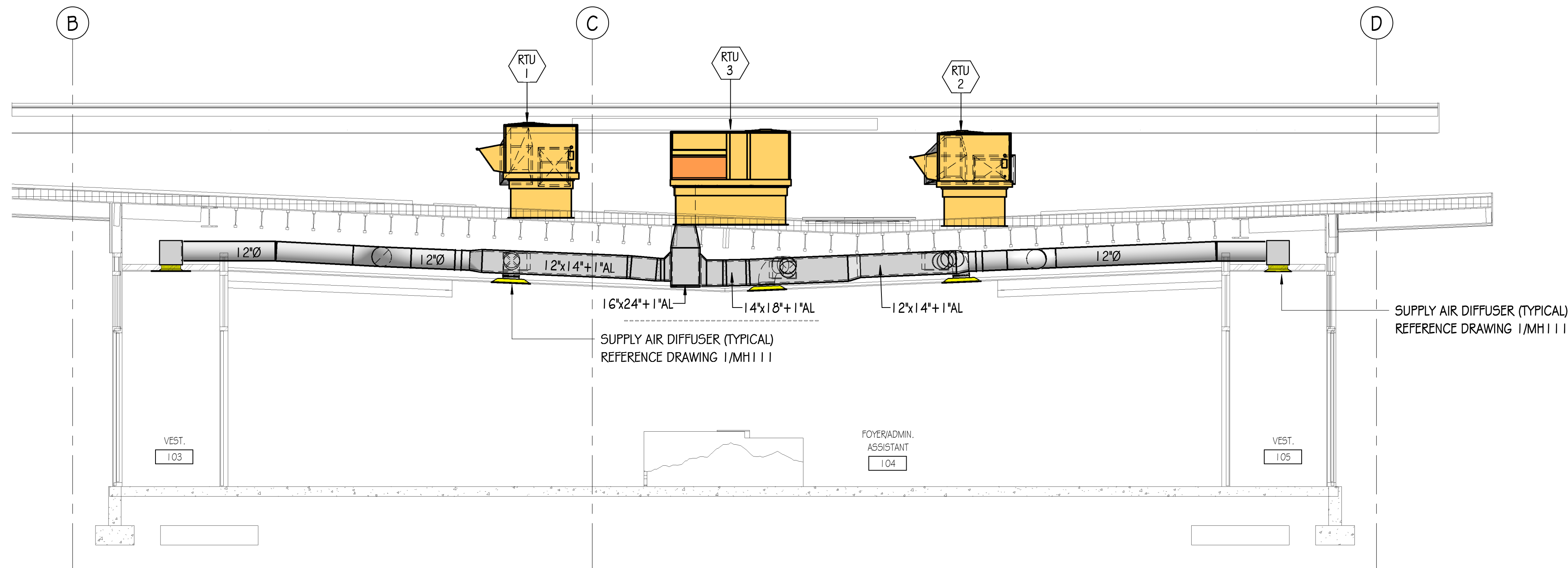
9/10/2024 1:14:18 PM



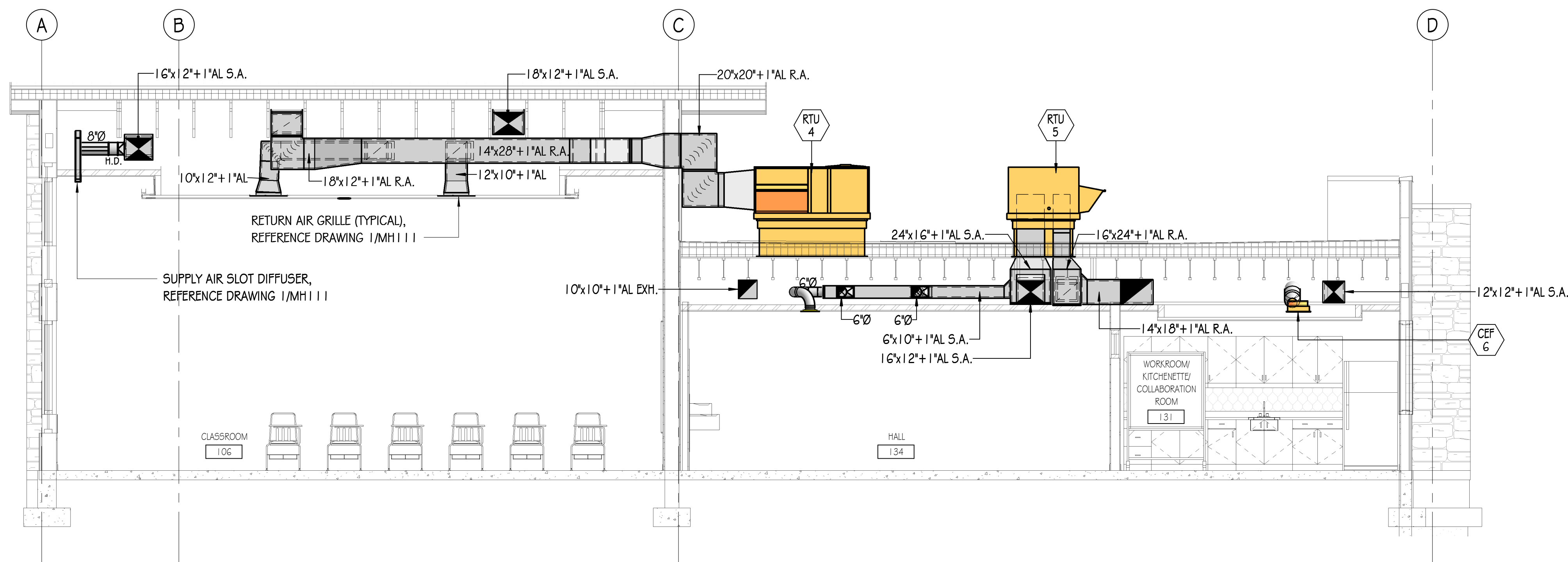
3 MECHANICAL DIAGRAM
SCALE: NONE REFERENCE SECTION 1/MH301



4 MECHANICAL DIAGRAM
SCALE: NONE REFERENCE SECTION 2/MH301



1 MECHANICAL SECTION
SCALE: 1/4" = 1'-0" 5 2.5 0 5 10



2 MECHANICAL SECTION
SCALE: 1/4" = 1'-0" 5 2.5 0 5 10

9/10/2024 1:14:20 PM

A

B

C

D

E

F

G

1

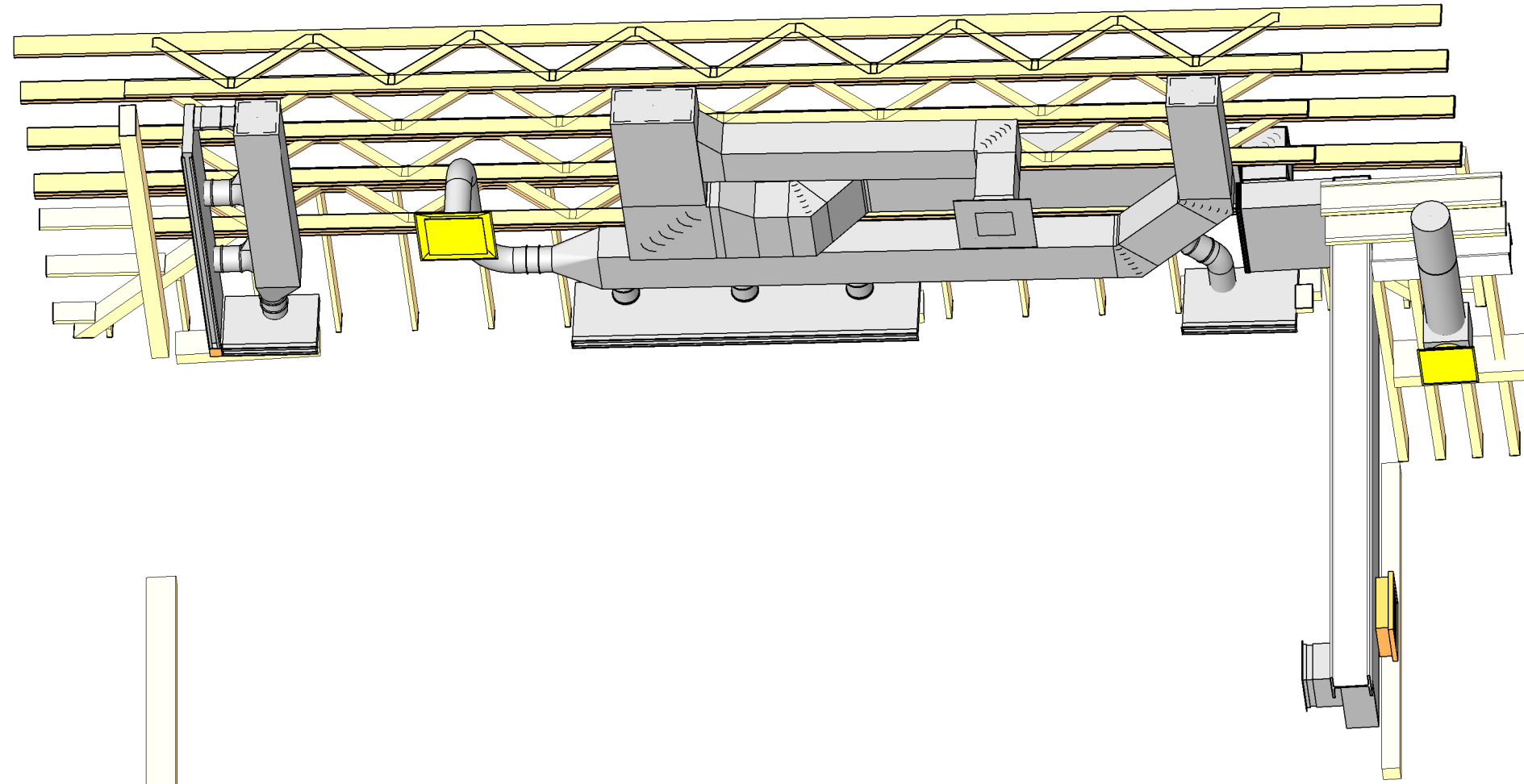
2

3

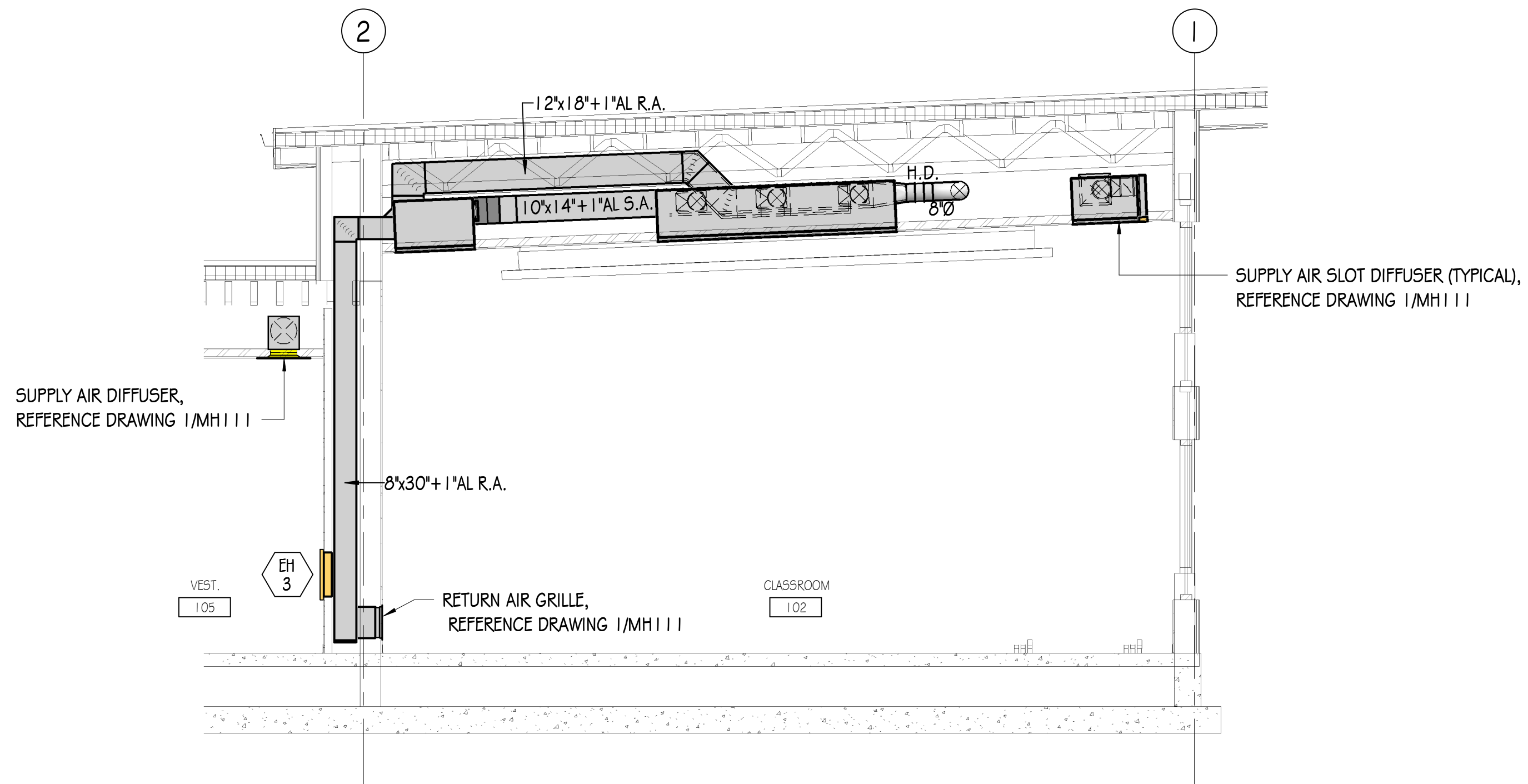
4

5

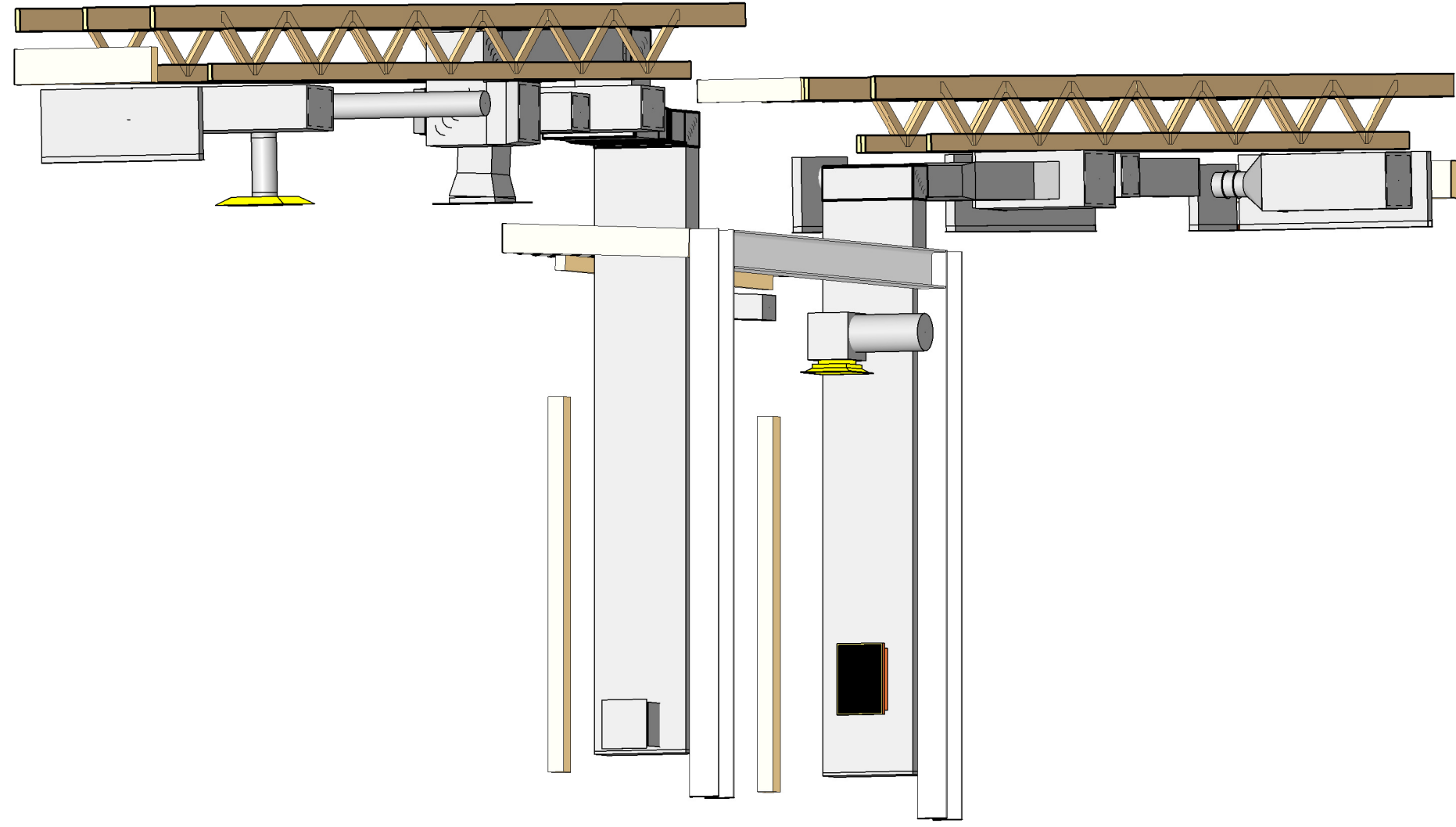
6



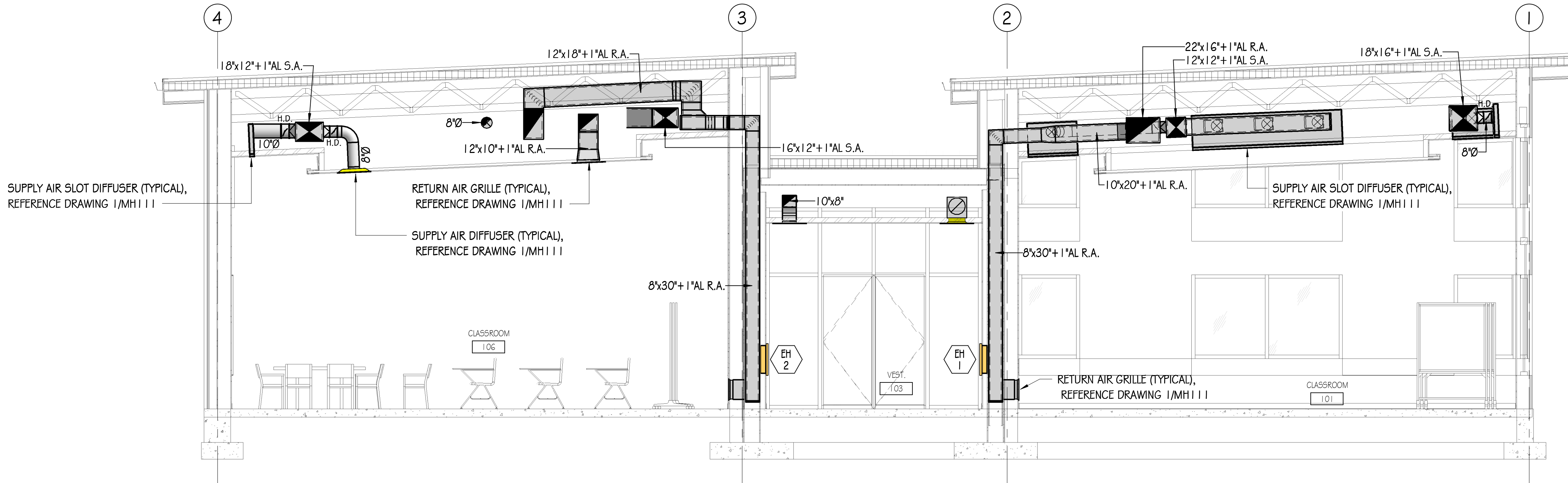
3 MECHANICAL DIAGRAM
SCALE: NONE REFERENCE SECTION 1/MH302



1 MECHANICAL SECTION
SCALE: 1/4" = 1'-0"
5 2.5 0 5 10

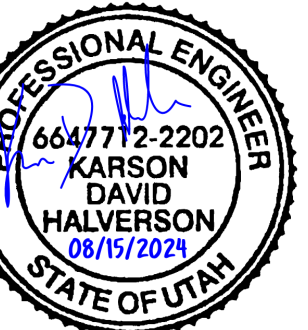


4 MECHANICAL DIAGRAM
SCALE: NONE REFERENCE SECTION 2/MH302



2 MECHANICAL SECTION
SCALE: 1/4" = 1'-0"
5 2.5 0 5 10

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 09.05.24



DATE REVISION

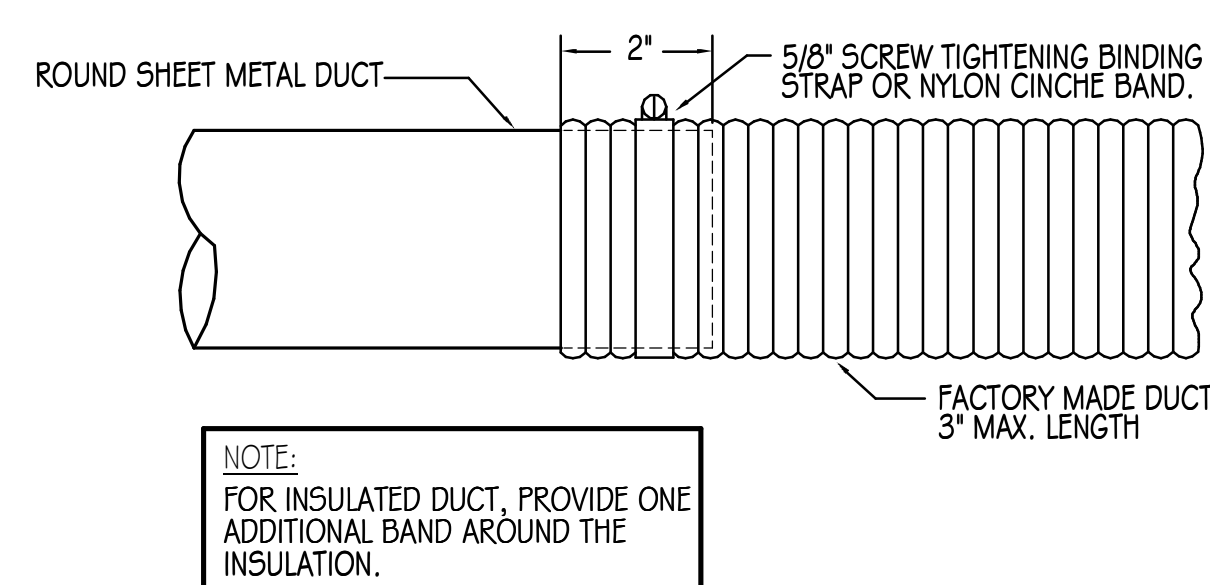
PROJECT NUMBER 24003

**MECHANICAL
SECTIONS**

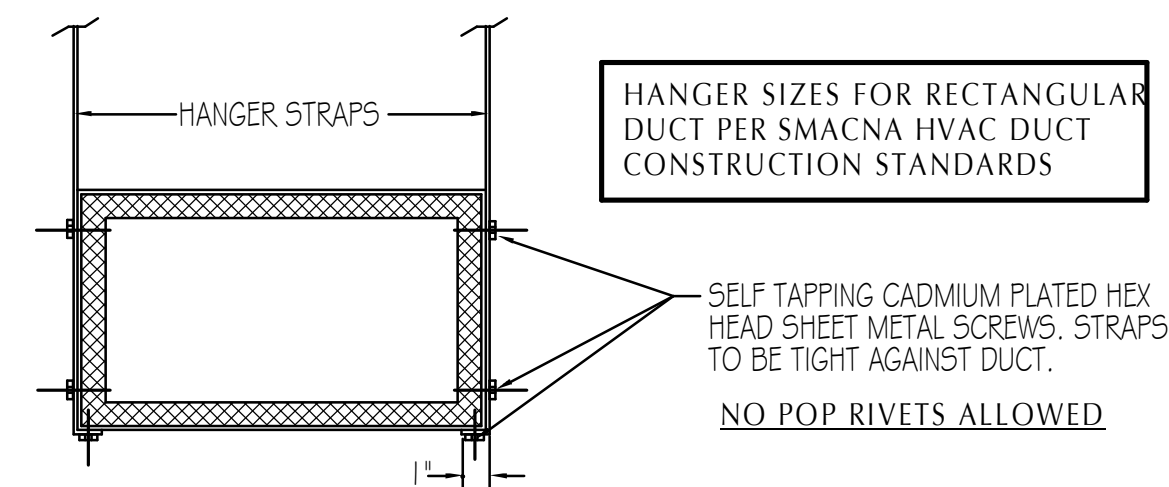
MH302

HEATH
Engineering Company

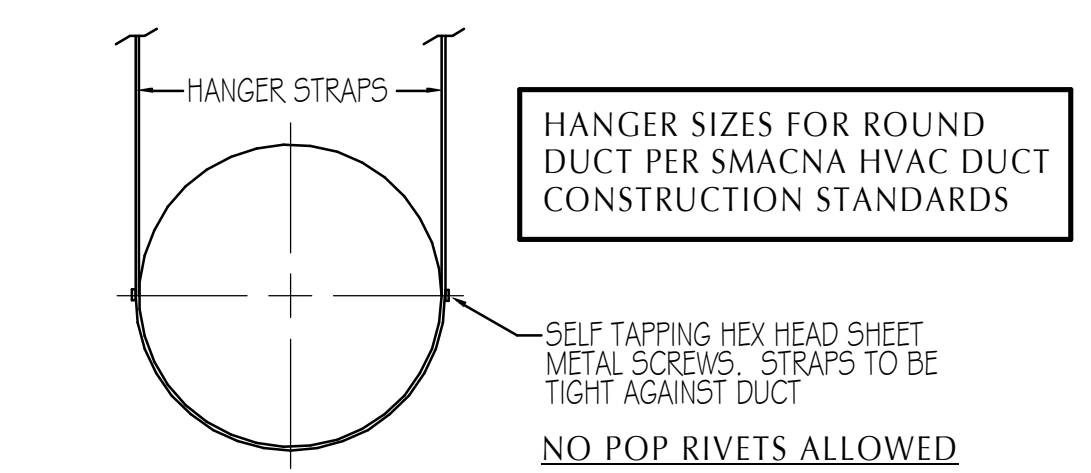
FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 - FFKR.COM



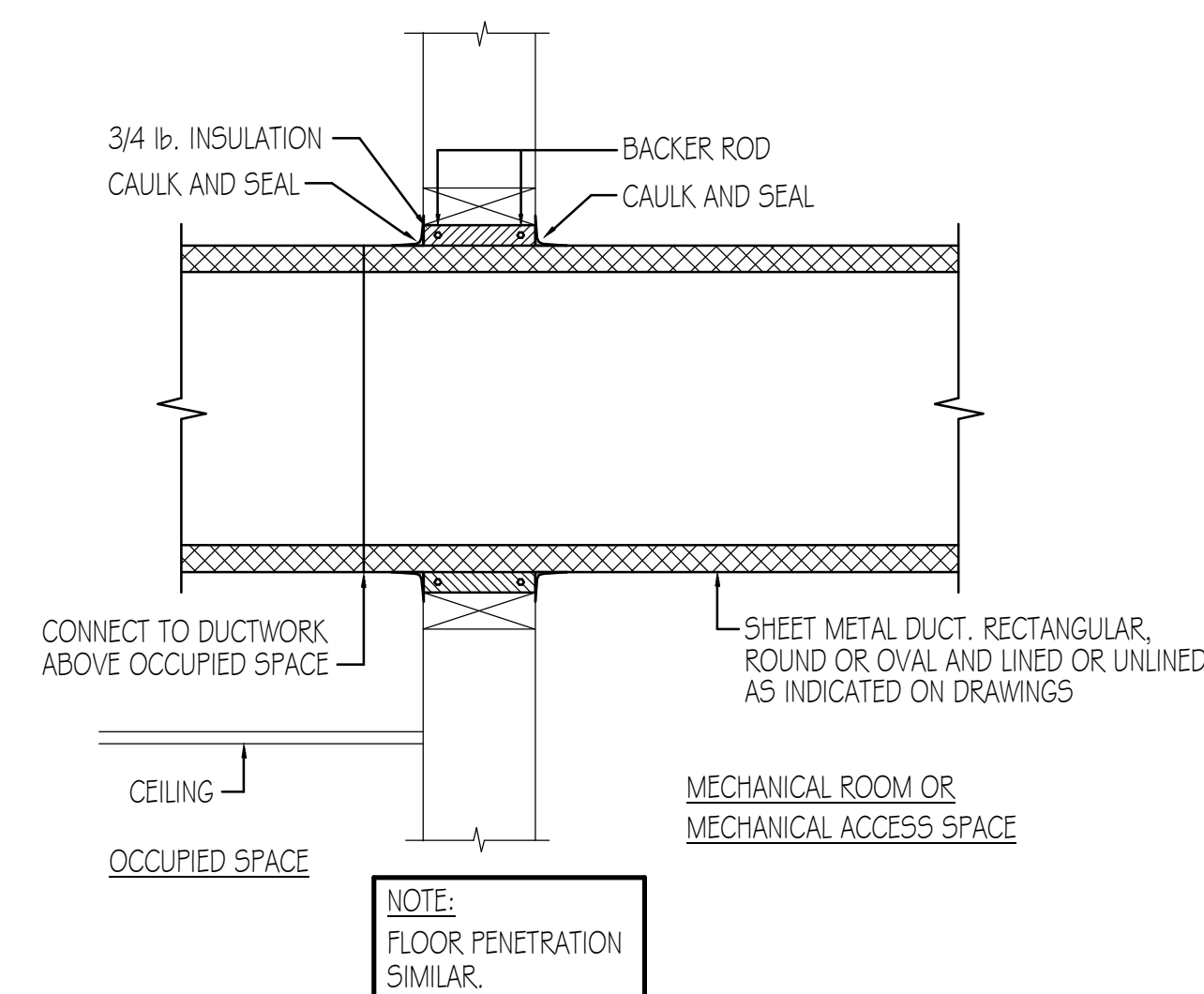
8 **FACTORY MADE DUCT DETAIL**
MH501 SCALE: NONE



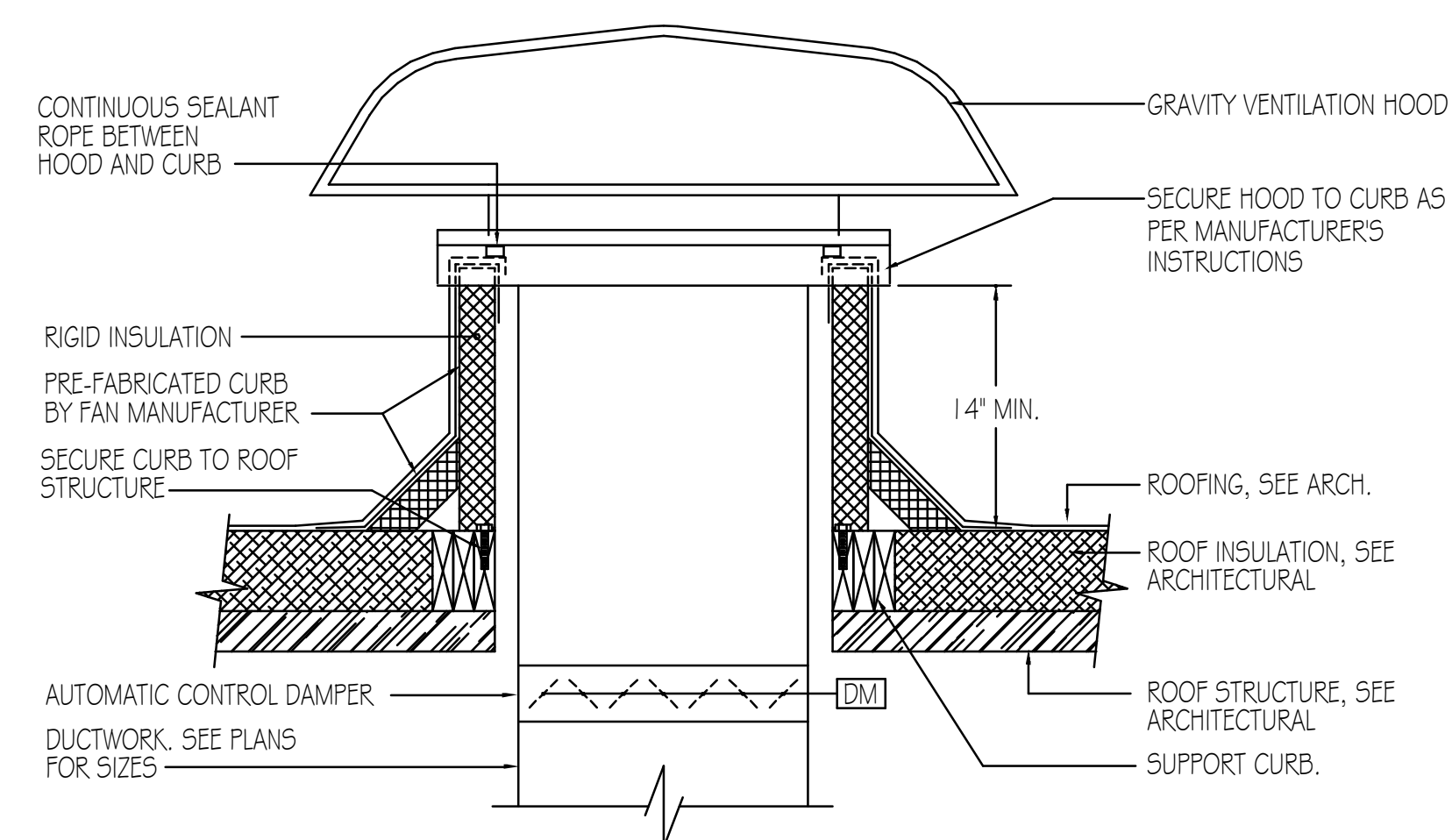
9 DUCT STRAP HANGER DETAIL
MH501 SCALE: NONE



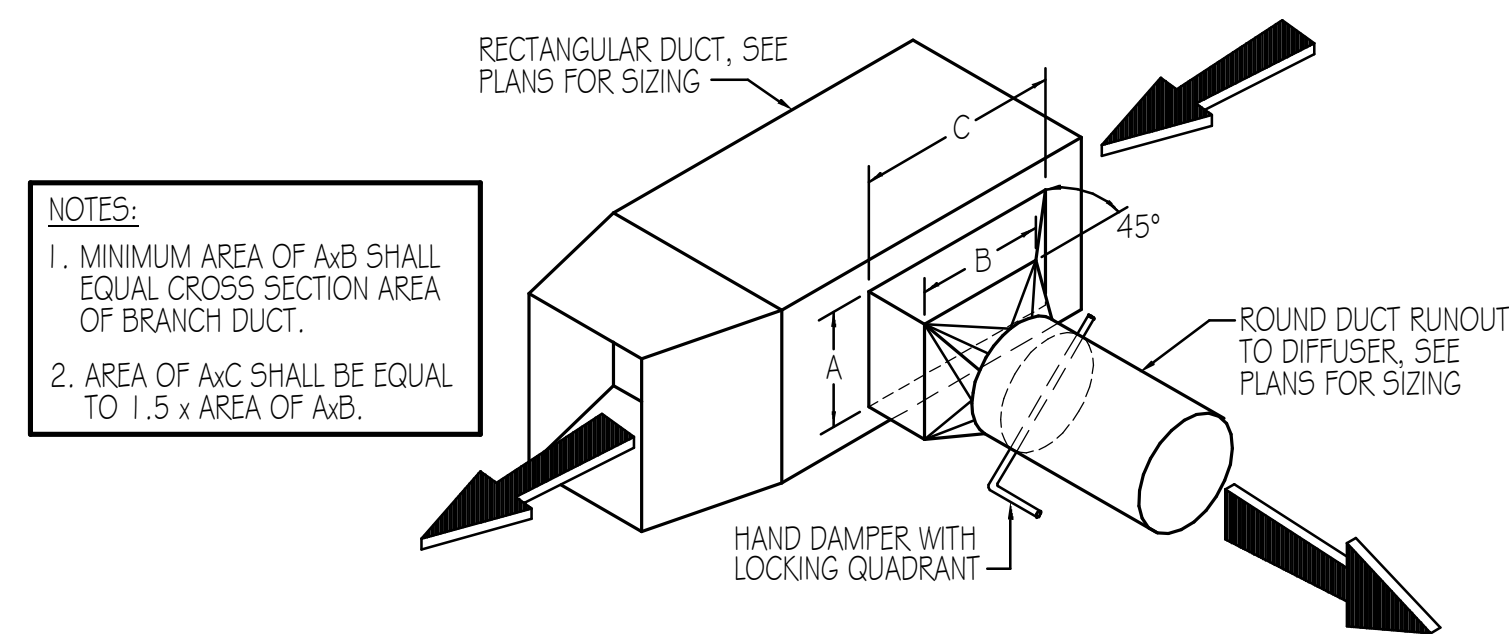
ROUND DUCT HANGER DETAIL



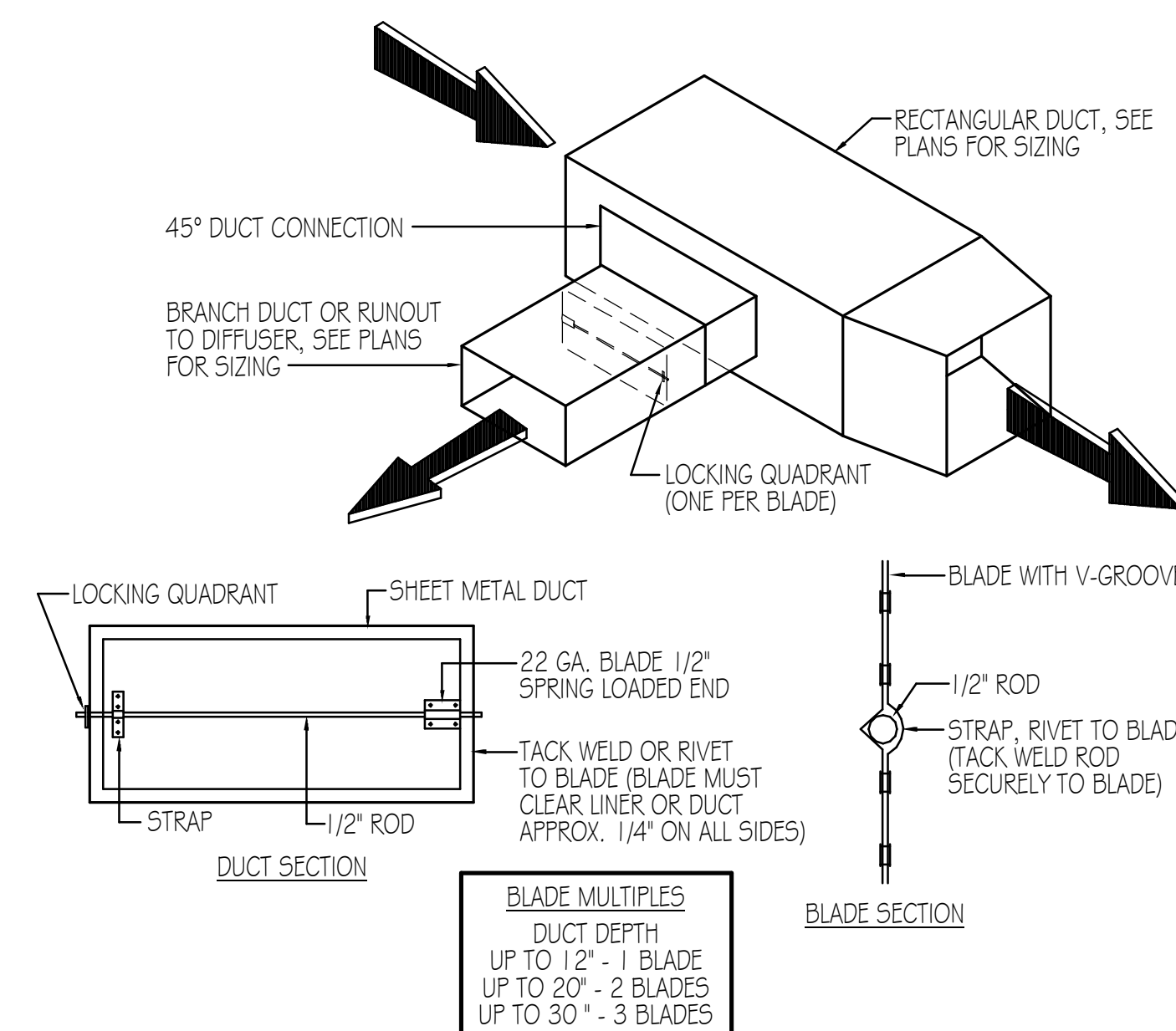
WALL PENETRATION FOR SOUND CONTROL DETAIL



12 VENTILATION HOOD AND CURB DETAIL
MH501 SCALE: NONE



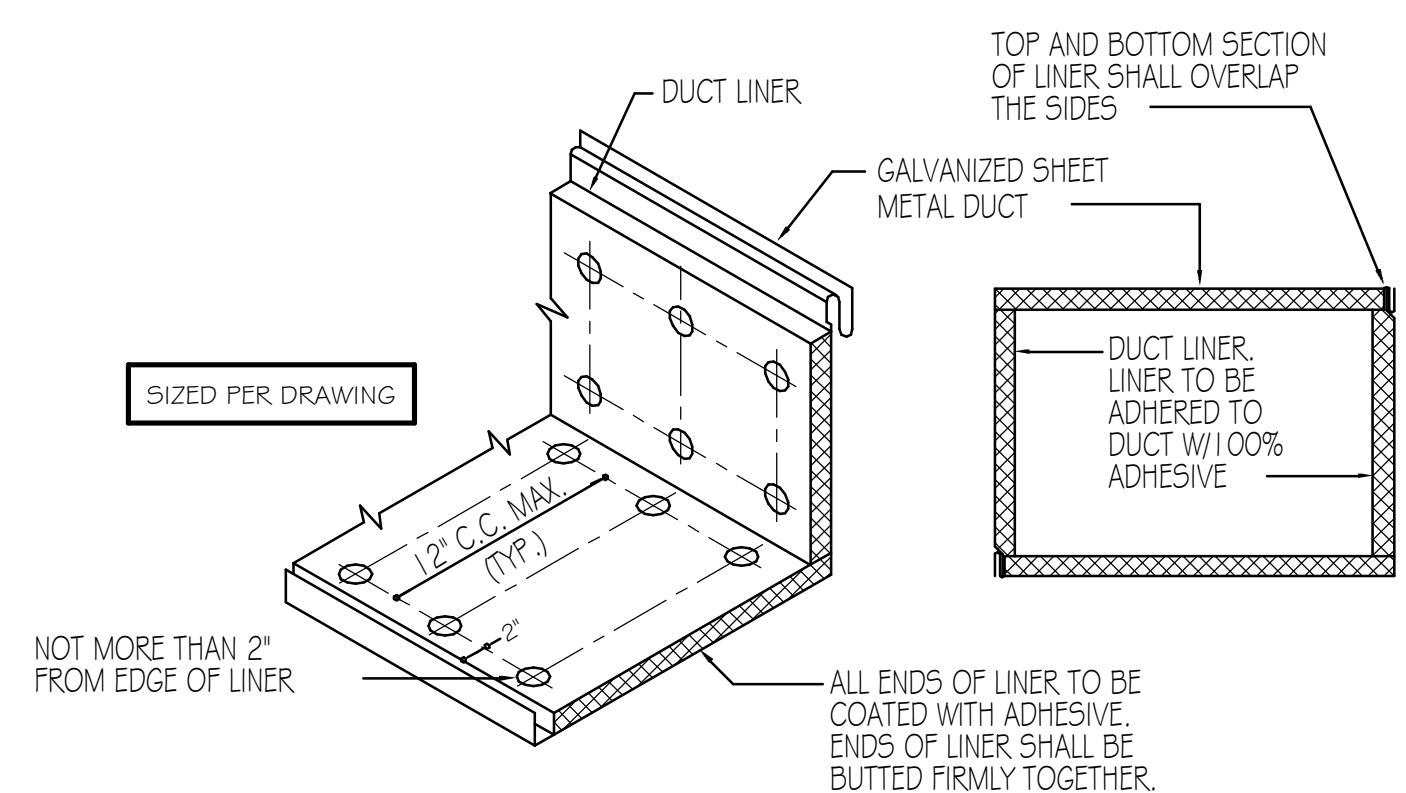
4 DUCT CONNECTION DETAIL
MH501 SCALE: NONE



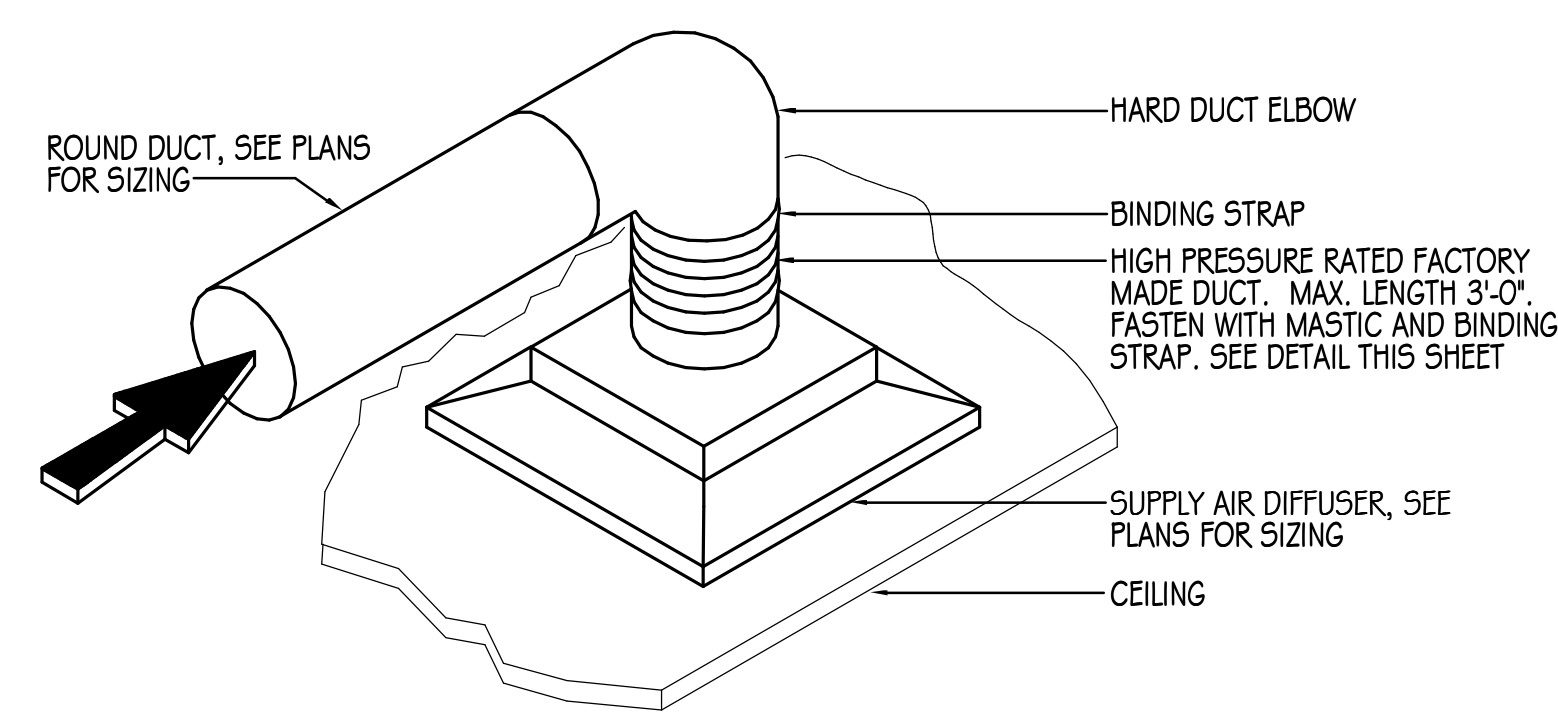
5
MH501

BRANCH DUCT AND DAMPER DETAIL

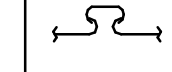
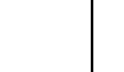
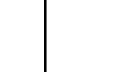

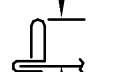
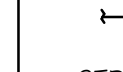
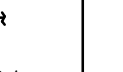

SCALE: NONE



6 DUCT LINER DETAIL
MH1501 SCALE: NONE

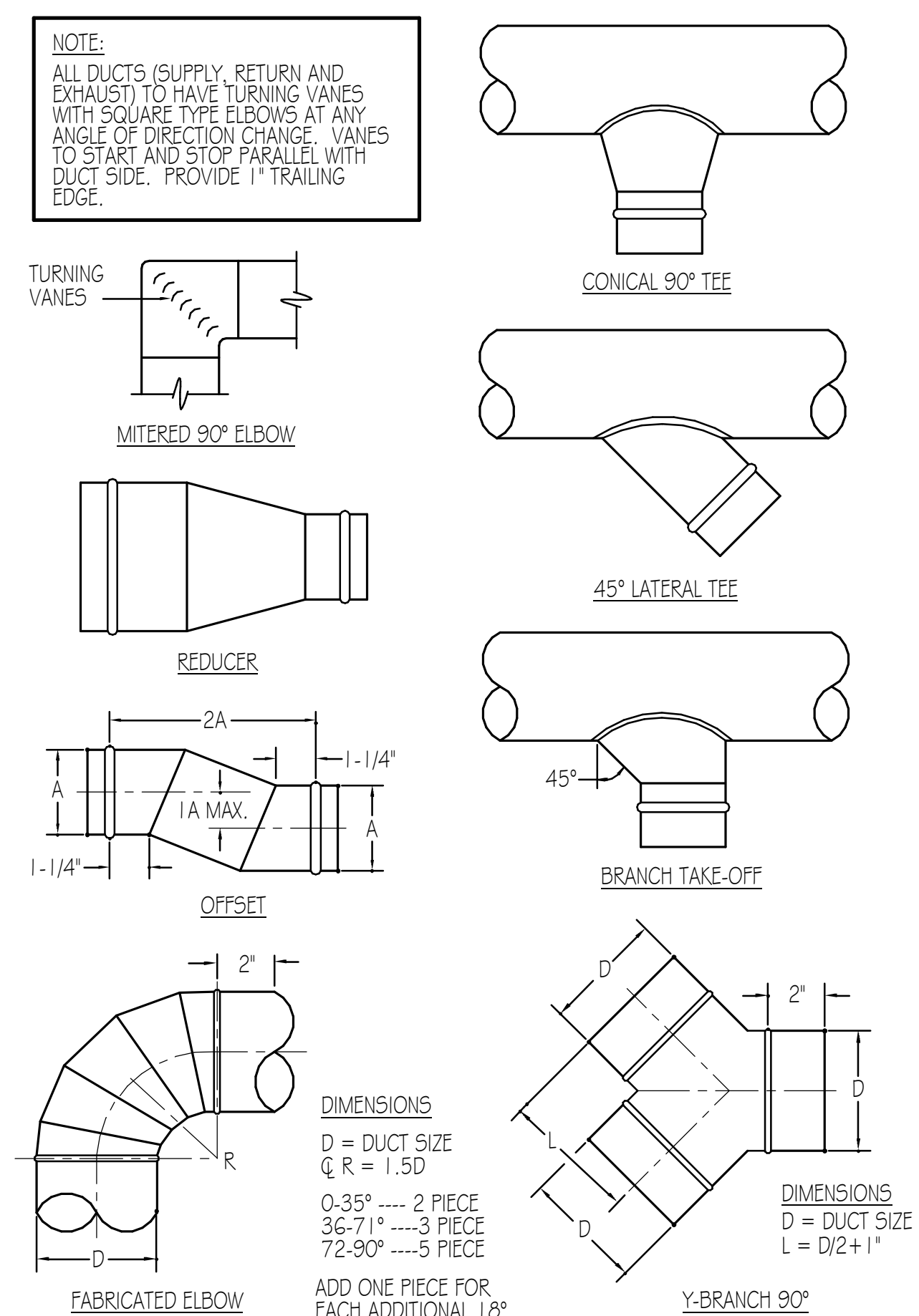


7 DUCT CONNECTION TO DIFFUSER DETAIL
MH501 SCALE: NONE

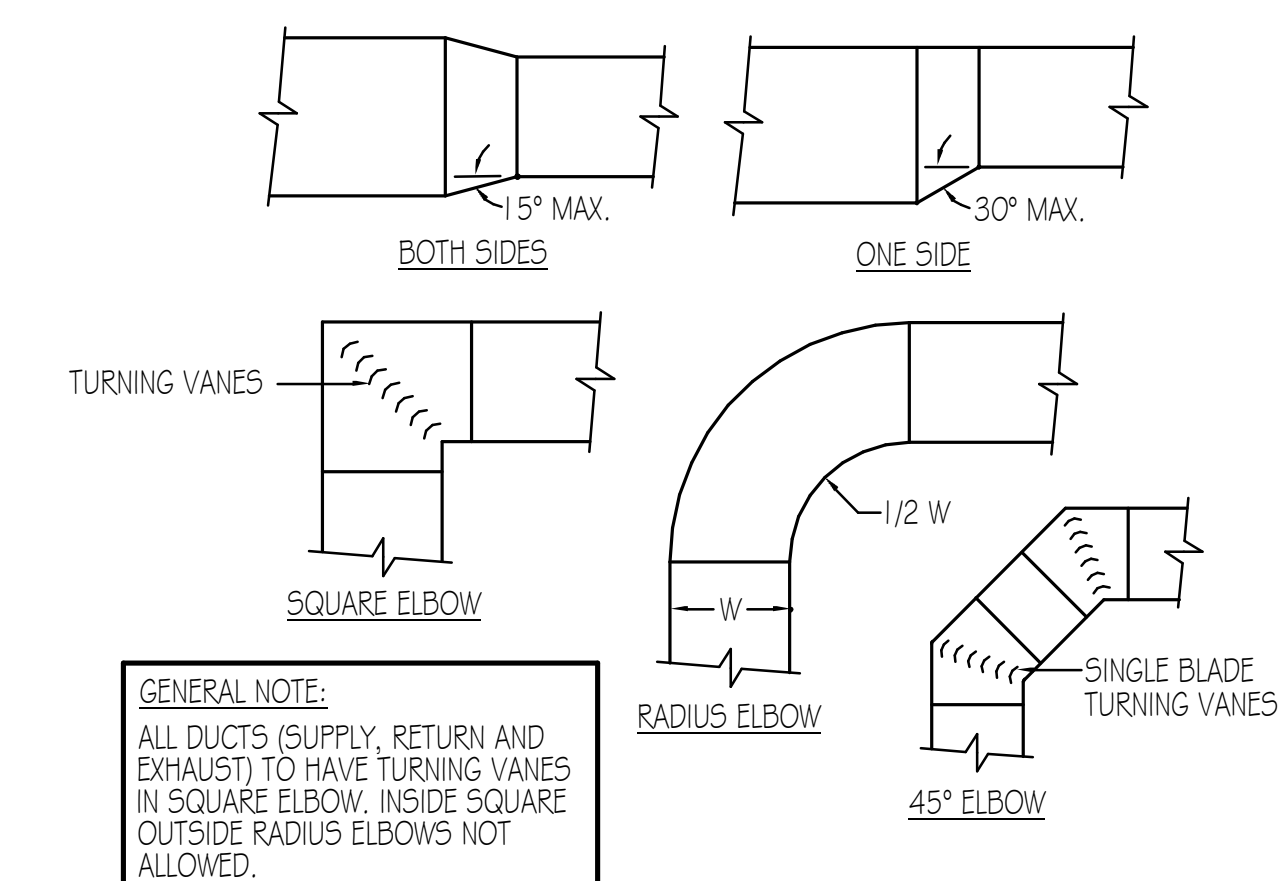
DIMENSION OF LONGEST SIDE, (INCHES)	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS AND / OR INTERMEDIATE REINFORCING	* TRANSVERSE REINFORCING											
			AT JOINTS											
			MIN. H									REINFORCED ANGLE SIZE	RECOMMENDED GAGE	REINFORCED ANGLE SIZE
				DRIVE SLIP	PLAIN S SLIP	HEMMED S SLIP	ALT. BAR SLIP	REINFORCED BAR SLIP	ANGLE SLIP	ANGLE REINFORCED STD. SEAM	ANGLE REINFORCED POCKET LOCK			
UP THRU 12	24	NONE REQUIRED	1"	26	26	24	24	24	NOT REQUIRED	NOT REQUIRED	24	NOT REQUIRED		
13-18	24	NONE REQUIRED	1"	24	24	24	24	24	NOT REQUIRED	NOT REQUIRED	24	NOT REQUIRED		
19-30	24	1 x 1 x 1/8 @ 60°	1"	-	24	24	24	24	NOT REQUIRED	NOT REQUIRED	24	NOT REQUIRED		
31-42	22	1 x 1 x 1/8 @ 60°	1"	-	-	22	22	22	NOT REQUIRED	NOT REQUIRED	22	NOT REQUIRED		
43-54	22	1-1/2 x 1-1/2 x 1/8 @ 60°	1-1/2"	-	-	22	22	22	1-1/2 x 1-1/2 x 1/8	NOT REQUIRED	22	NOT REQUIRED		
55-60	20	1-1/2 x 1-1/2 x 1/8 @ 60°	1-1/2"	-	-	22	22	22	1-1/2 x 1-1/2 x 1/8	NOT REQUIRED	22	NOT REQUIRED		
61-84	20	1-1/2 x 1-1/2 x 1/8 @ 60°	1-1/2"	-	-	22	22	22	1-1/2 x 1-1/2 x 1/8	1-1/2 x 1-1/2 x 1/8	22	1-1/2 x 1-1/2 x 1/8		

* TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

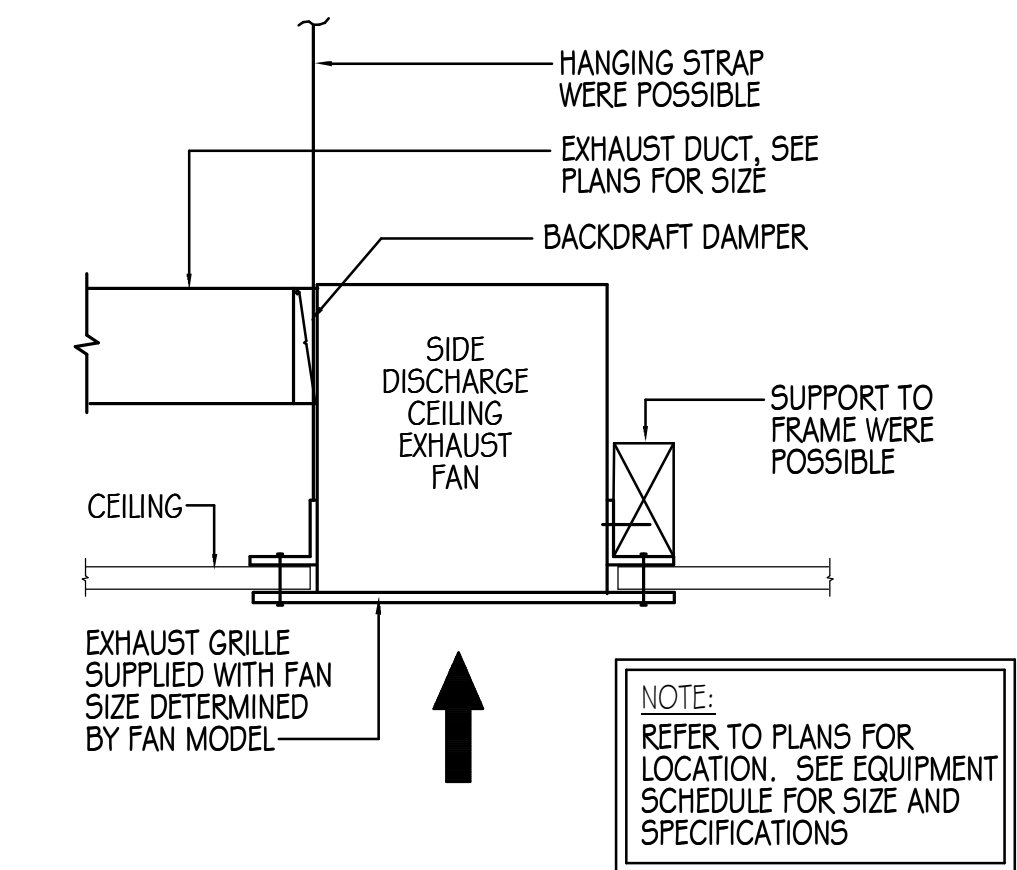
DUCT CONSTRUCTION DETAIL



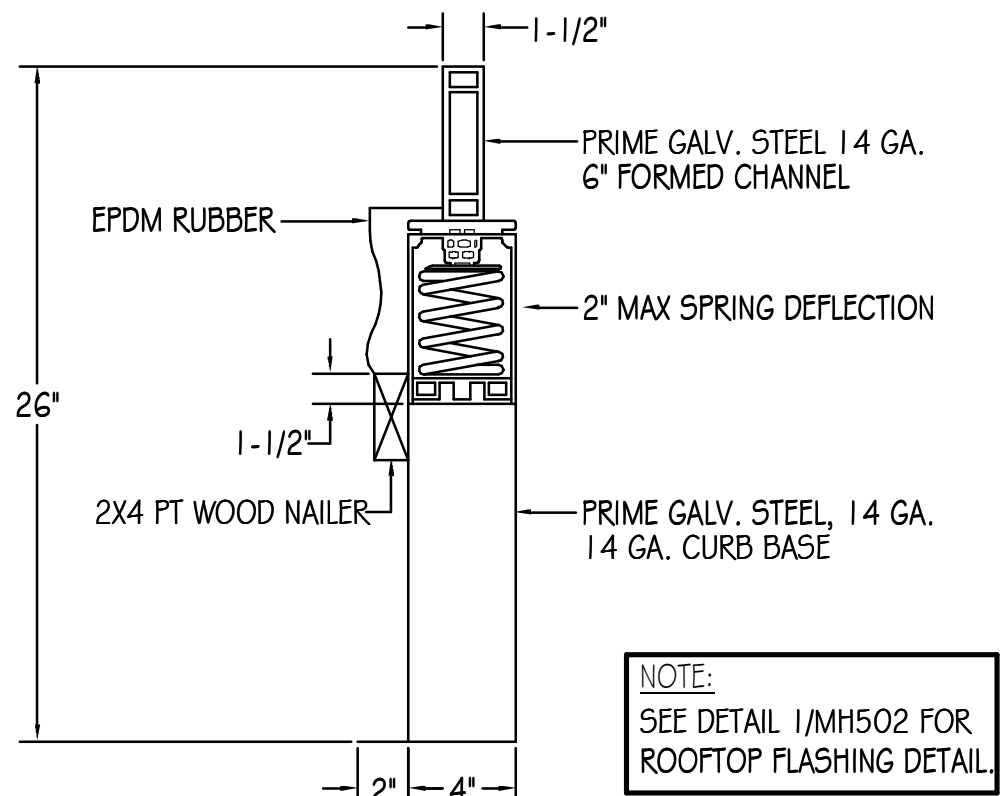
2 MEDIUM VELOCITY DUCT FITTINGS DETAIL
MH501 SCALE: NONE



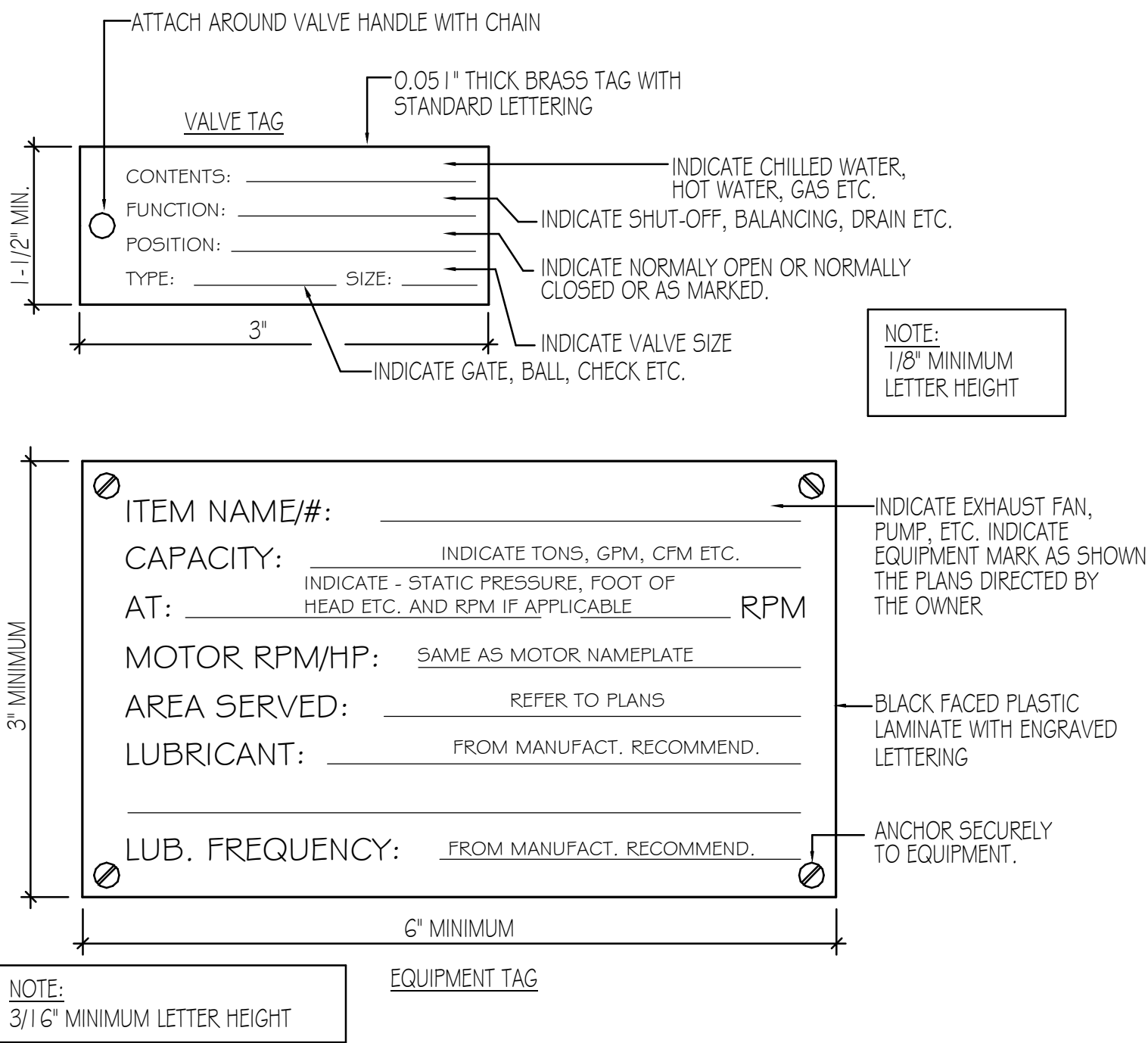
3 RECTANGULAR DUCT FITTINGS DETAIL



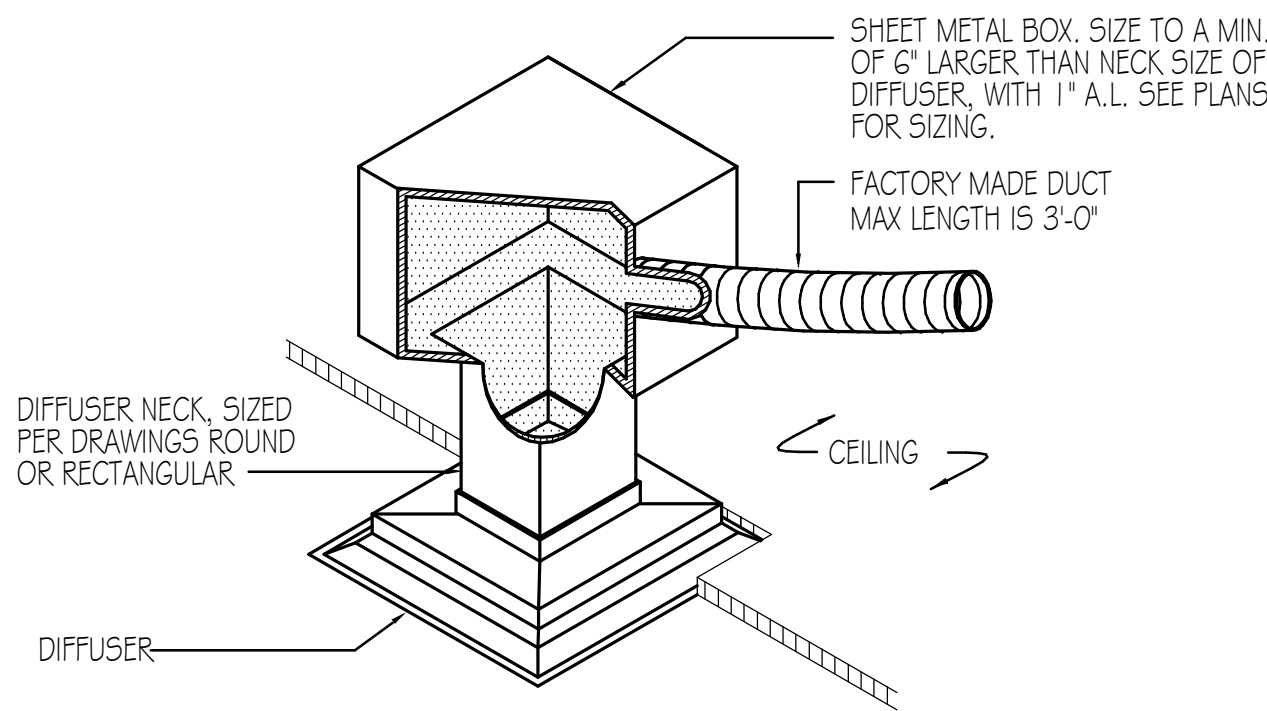
8 CEILING EXHAUST FAN DETAIL
SCALE: NONE



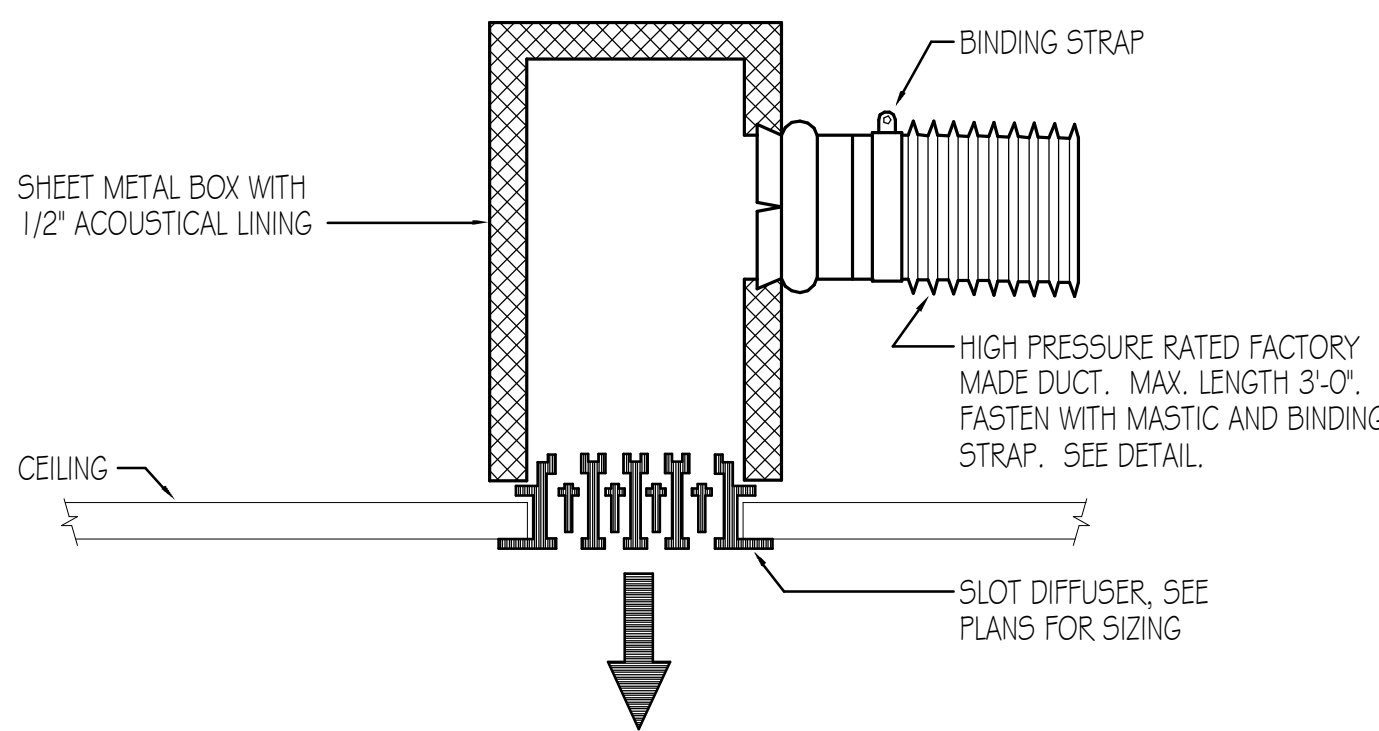
4 VIBRATION ISOLATION CURB SECTION DETAIL
SCALE: NONE



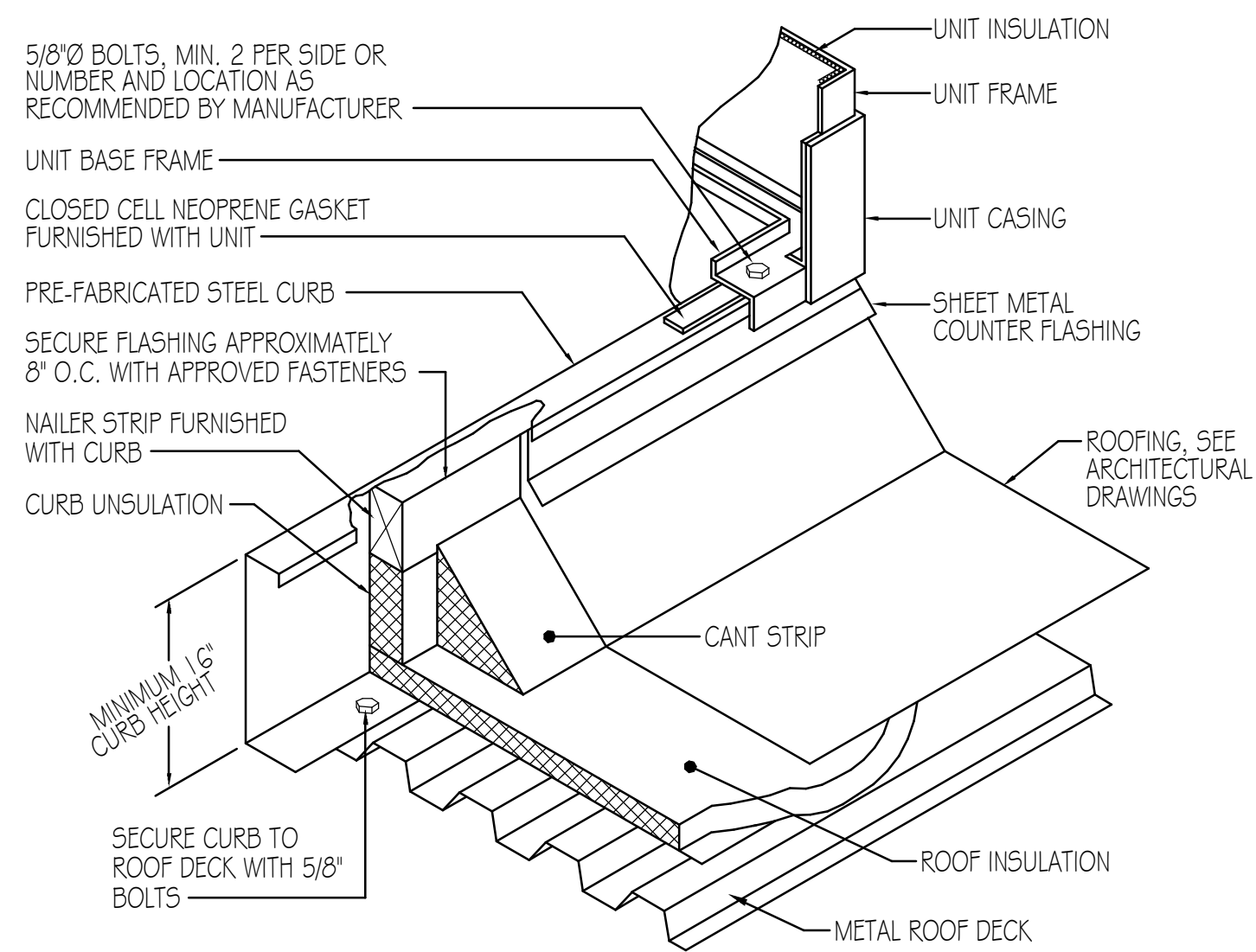
5 IDENTIFICATION TAG DETAIL
SCALE: NONE



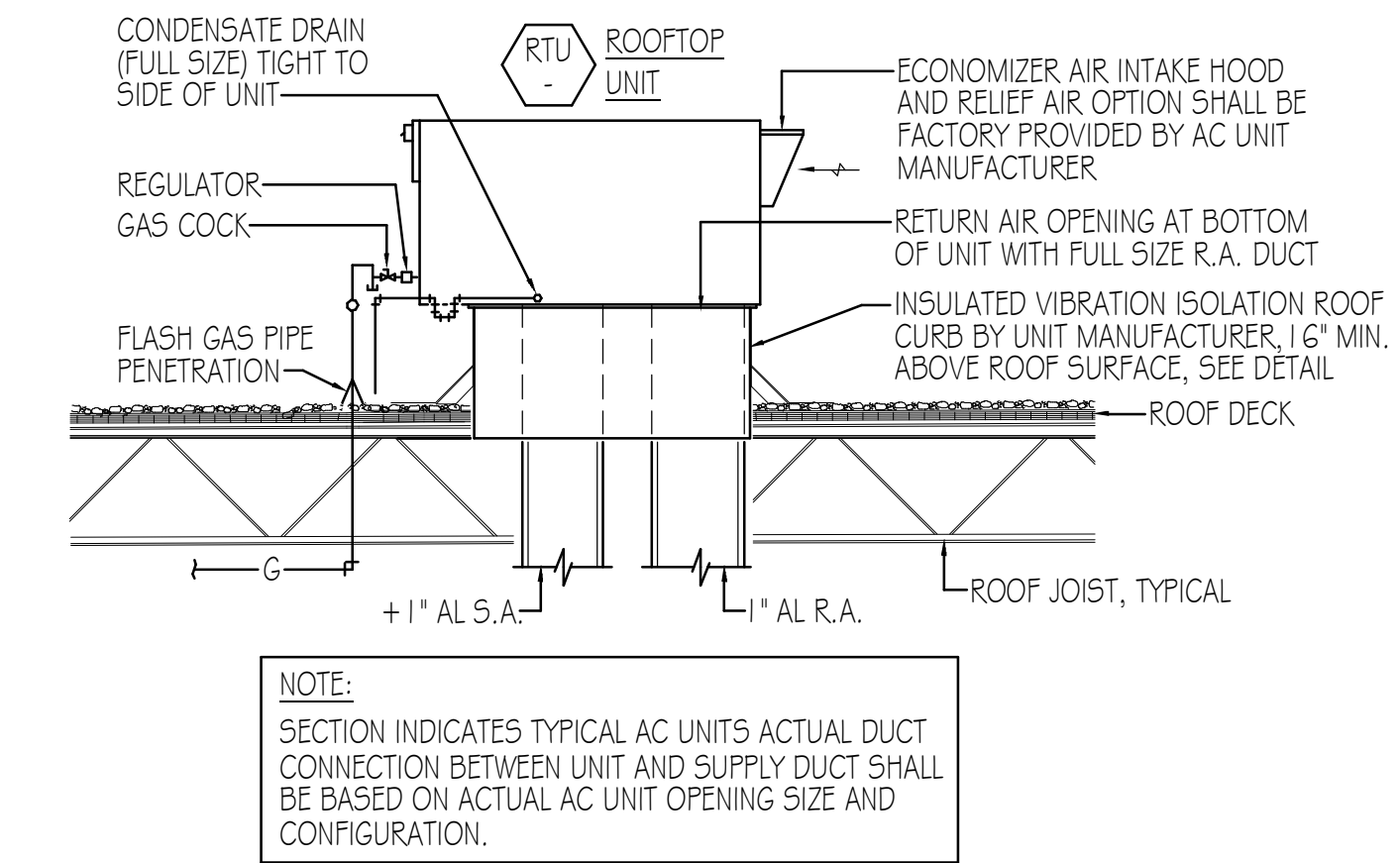
6 ACOUSTICAL LINED BOX DETAIL
SCALE: NONE



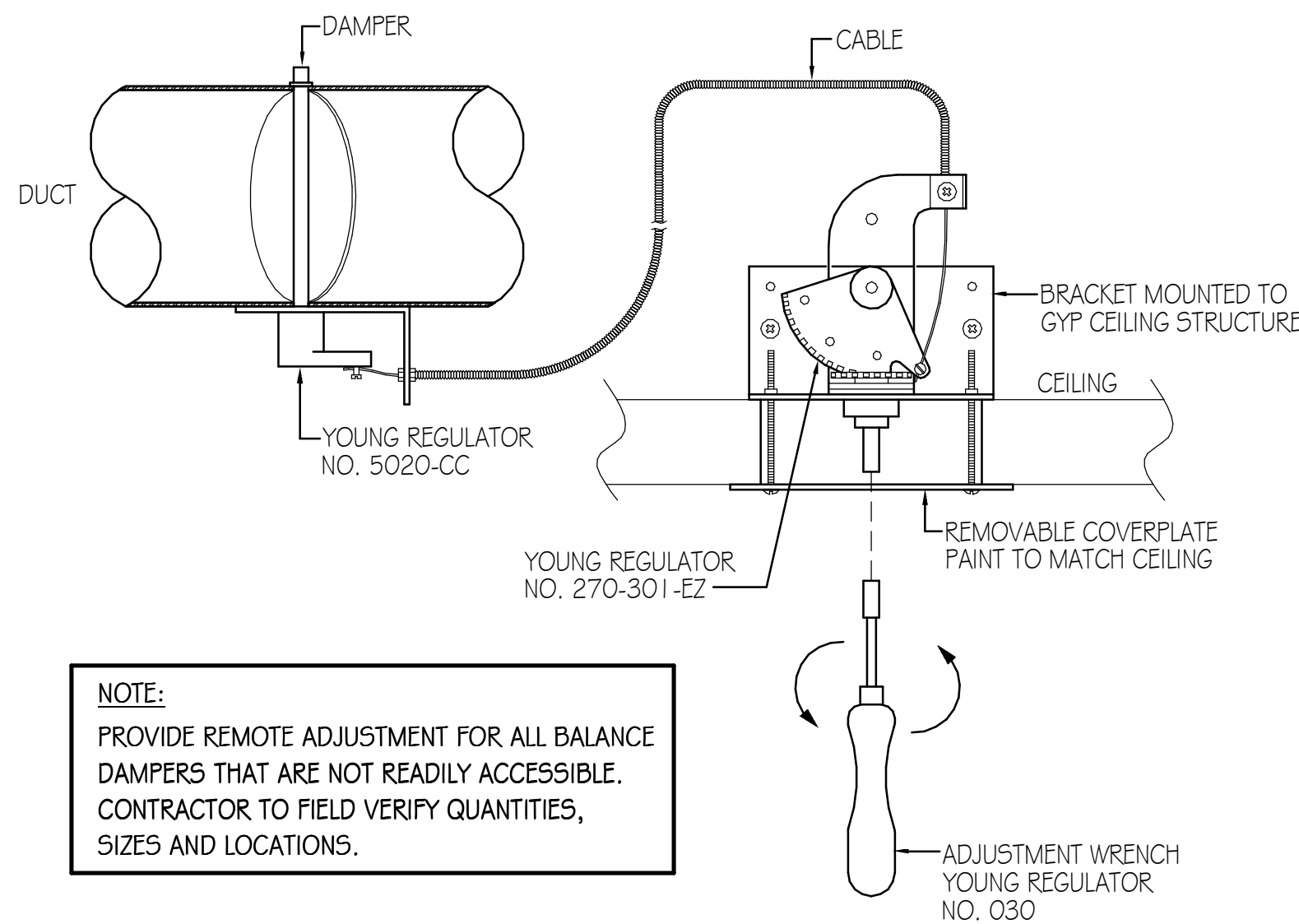
7 SLOT DIFFUSER DETAIL
SCALE: NONE



1 ROOFTOP EQUIPMENT FLASHING DETAIL
SCALE: NONE

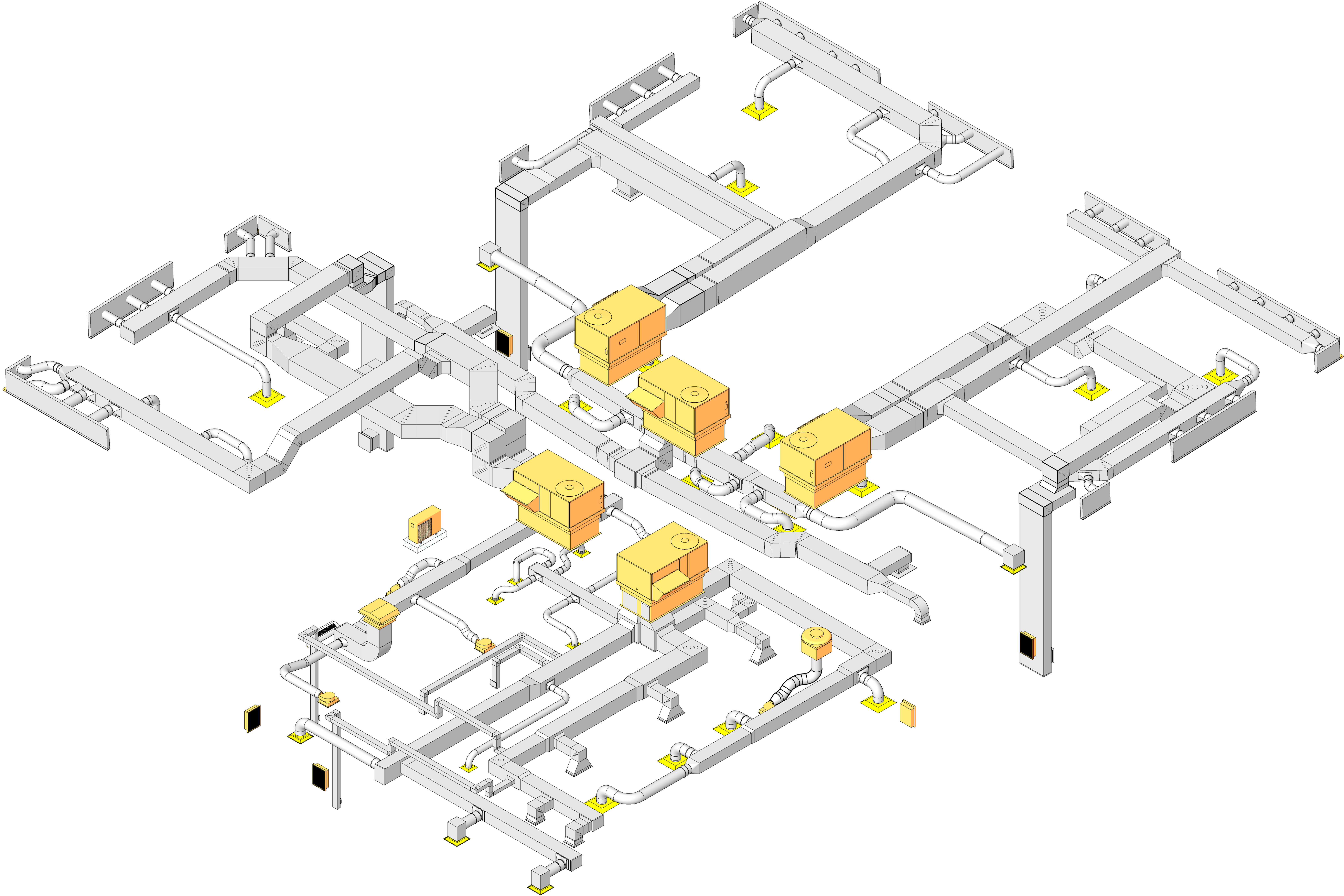


2 PACKAGED ROOFTOP A/C UNIT DETAIL
SCALE: NONE



3 REMOTE DAMPER ADJUSTMENT DETAIL
SCALE: NONE

9/10/2024 1:14:22 PM



MECHANICAL DIAGRAM

SCALE: NONE

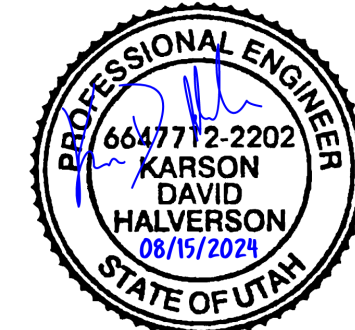
△ DATE REVISION

PROJECT NUMBER 24003

MECHANICAL
DIAGRAM

MH601

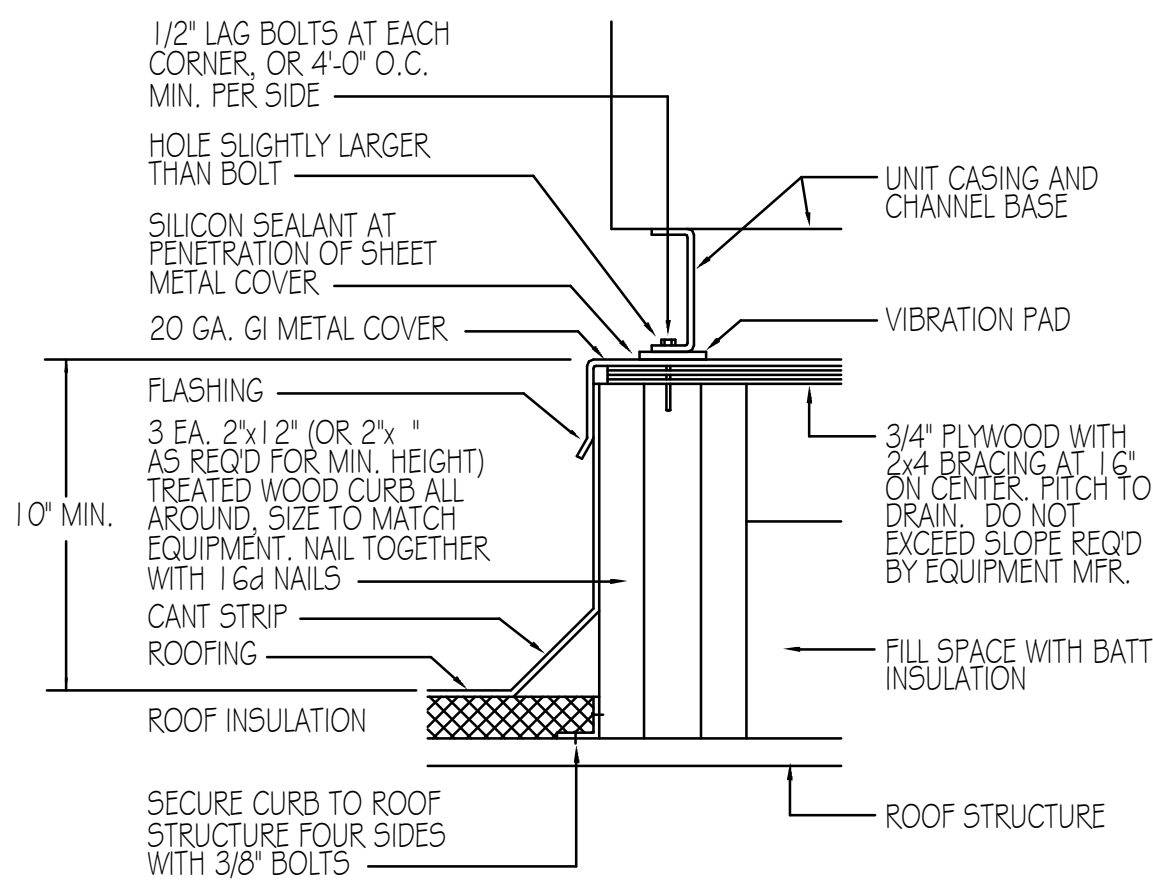
LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 09.05.24



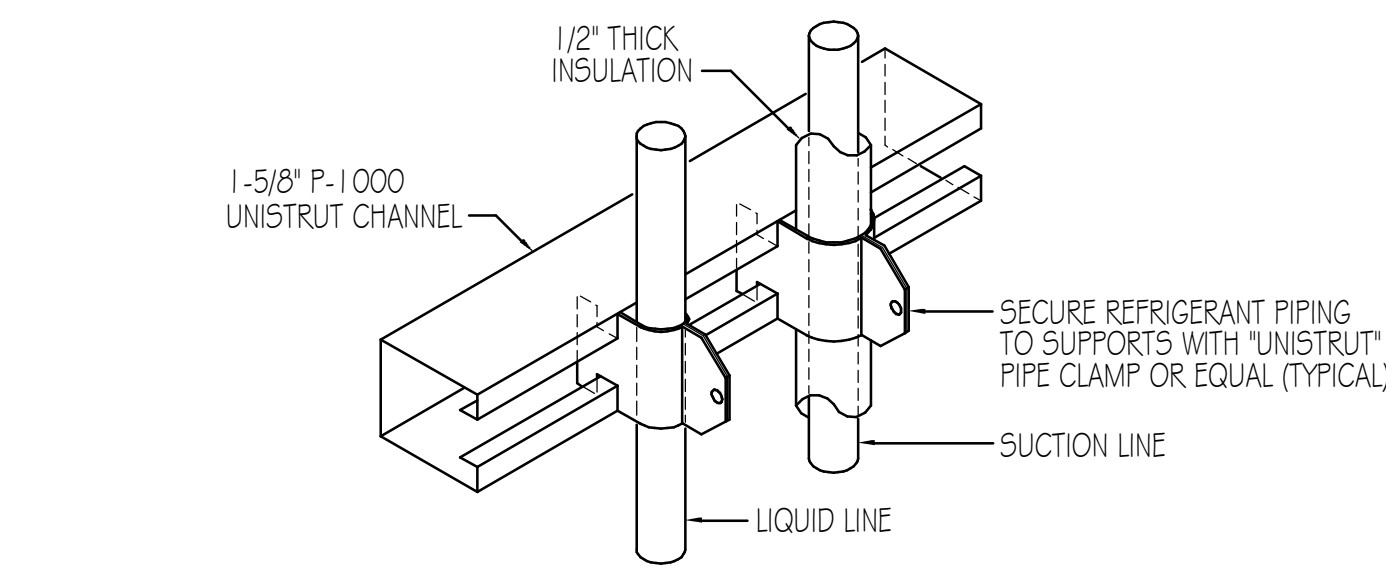
FFKR ARCHITECTS
730 Pacific Avenue · Salt Lake City, Utah 84104
O 801.521.6186 · FFKR.COM

9/10/2024 1:14:22 PM

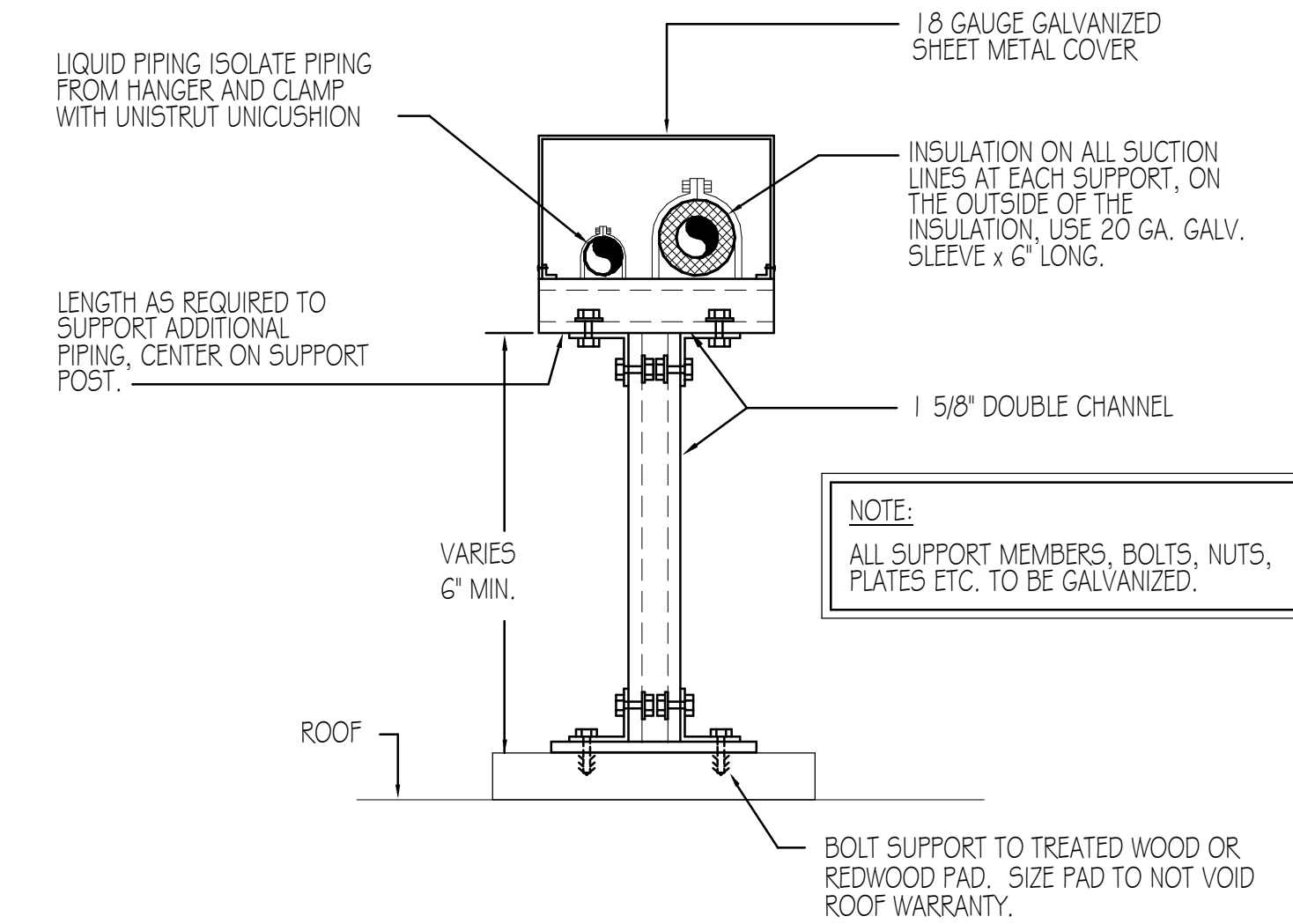
A B C D E F



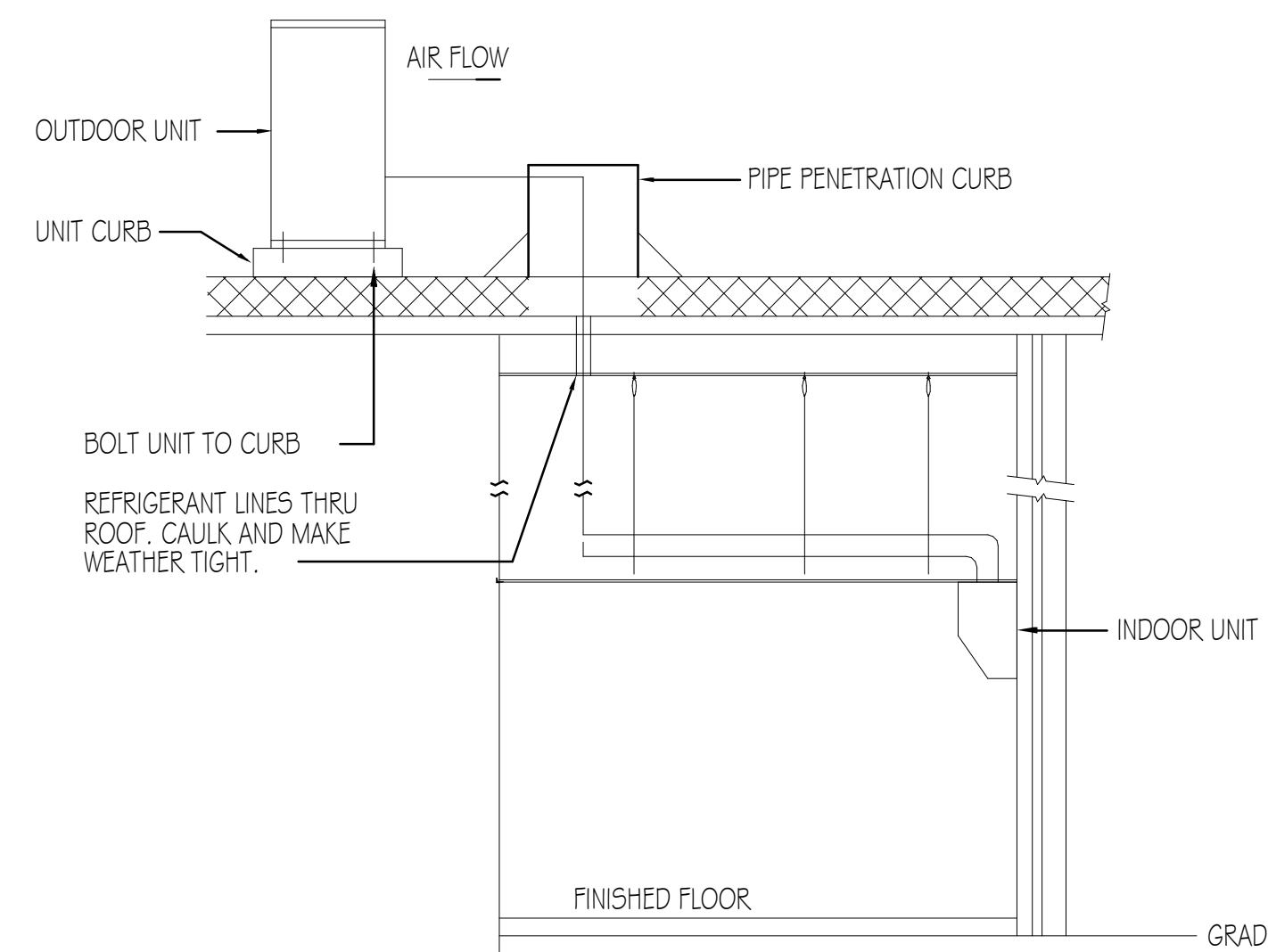
8 UNIT CURB DETAIL
MP501 SCALE: NONE



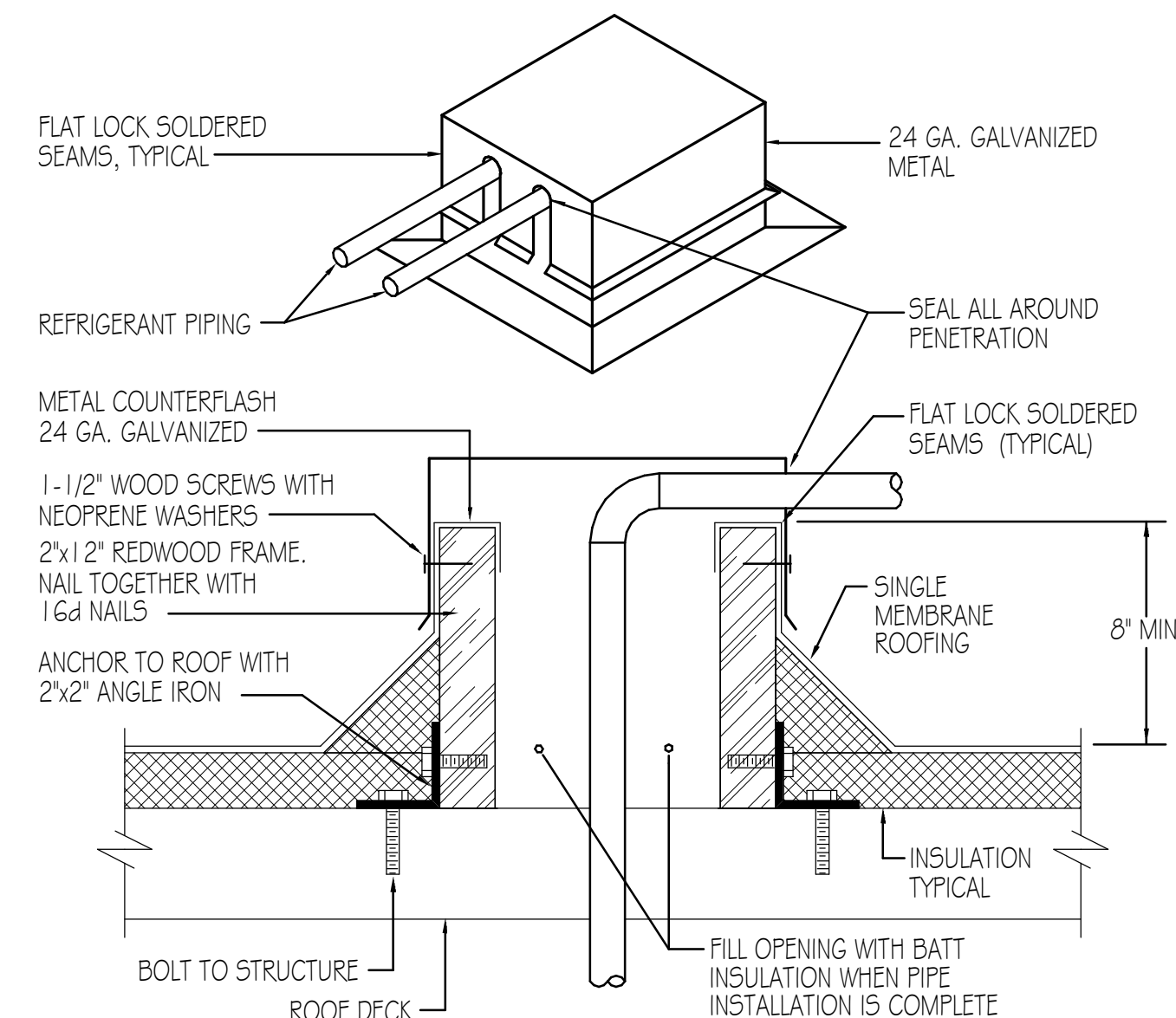
4 REFRIGERANT PIPE VERTICAL SUPPORT DETAIL
MP501 SCALE: NONE



5 REFRIGERANT PIPE SUPPORT ON ROOF DETAIL
MP501 SCALE: NONE

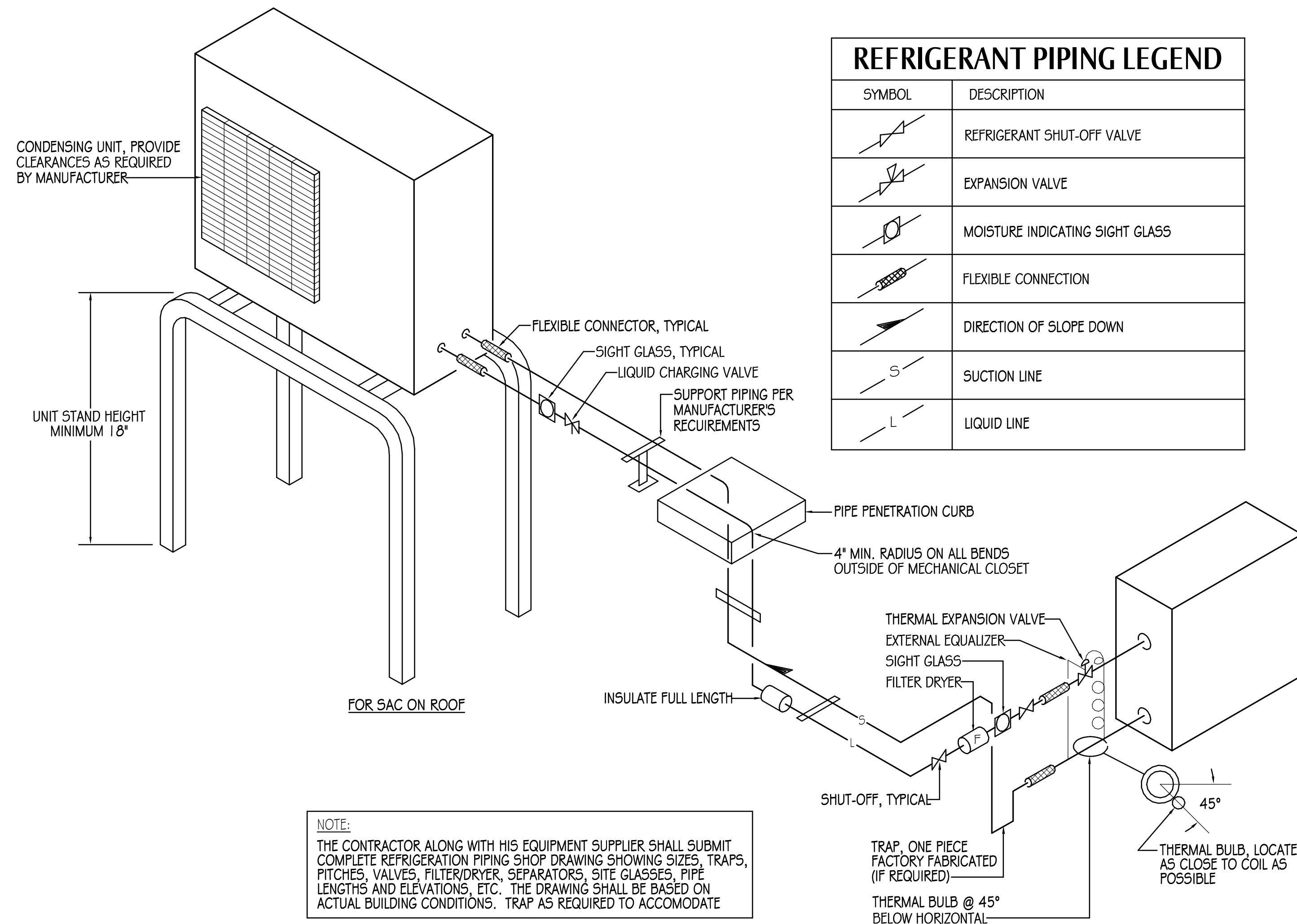


6 SPLIT SYSTEM AC UNIT ON WALL DETAIL-CU ON ROOF
MP501 SCALE: NONE



NOTE: COORDINATE WITH ROOF MANUFACTURER'S WARRANTY. COMPLY WITH WARRANTY REQUIREMENTS.

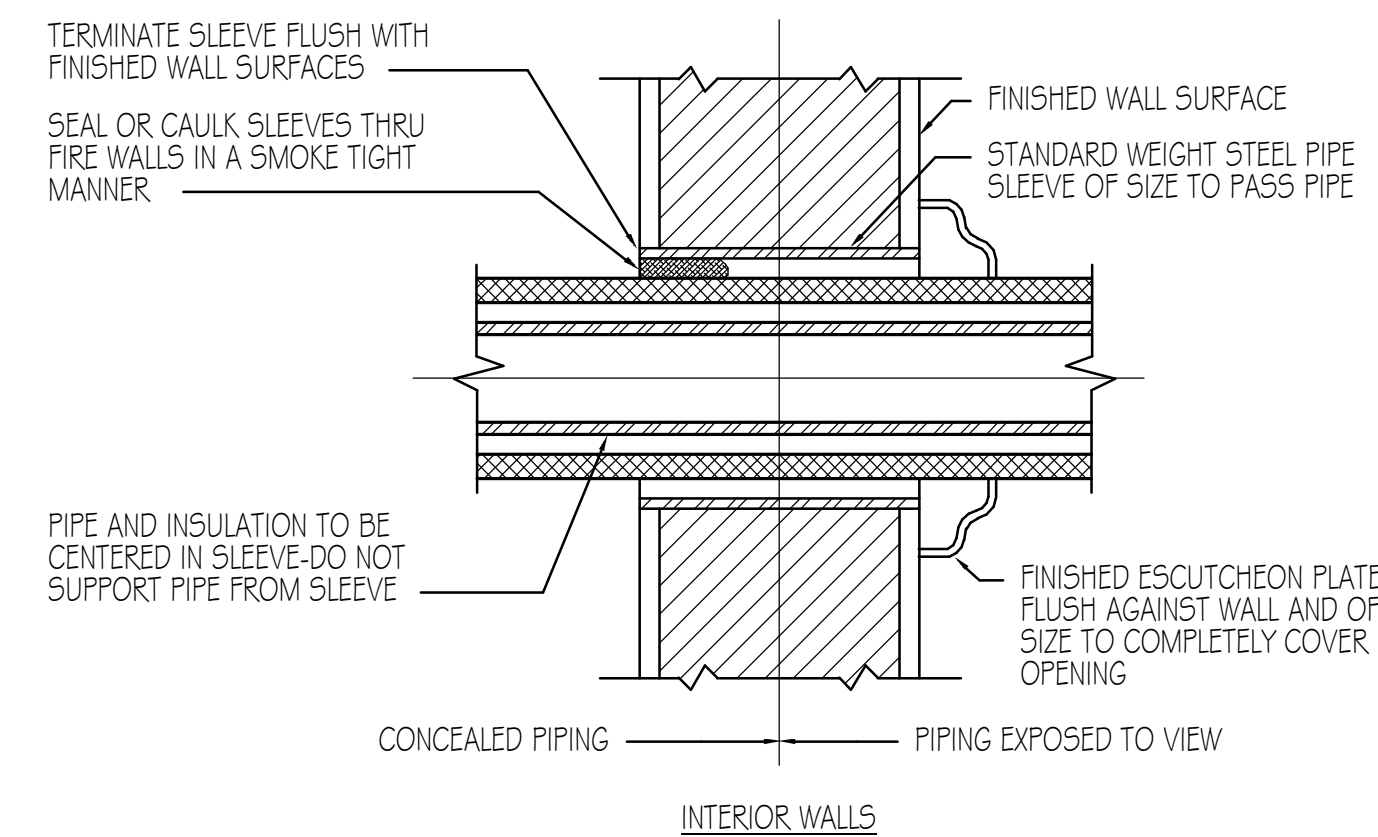
7 PIPE ROOF PENETRATION CURB DETAIL
MP501 SCALE: NONE



NOTE: THE CONTRACTOR ALONG WITH HIS EQUIPMENT SUPPLIER SHALL SUBMIT COMPLETE REFRIGERATION PIPING SHOP DRAWING SHOWING SIZES, TRAPS, PITCHES, VALVES, FILTER/DRYER, SEPARATORS, SIGHT GLASSES, PIPE LENGTHS AND ELEVATIONS, ETC. THE DRAWING SHALL BE BASED ON ACTUAL BUILDING CONDITIONS. TRAP AS REQUIRED TO ACCOMMODATE

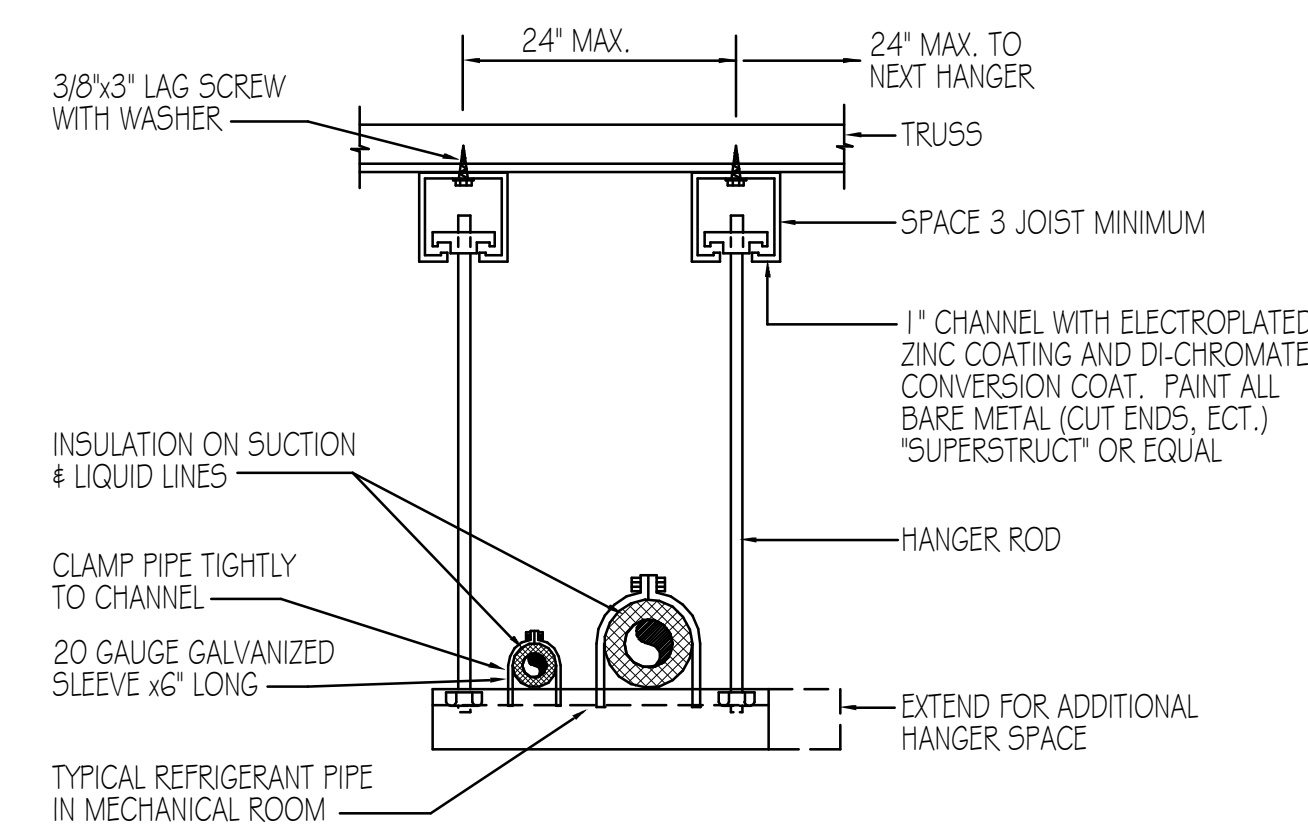
REFRIGERANT PIPING LEGEND	
SYMBOL	DESCRIPTION
	REFRIGERANT SHUT-OFF VALVE
	EXPANSION VALVE
	MOISTURE INDICATING SIGHT GLASS
	FLEXIBLE CONNECTION
	DIRECTION OF SLOPE DOWN
	SUCTION LINE
	LIQUID LINE

1 REFRIGERANT PIPING SCHEMATIC
MP501 SCALE: NONE



NOTE: FOR PENETRATIONS THROUGH SOUND WALLS, USE ASG ACOUSTICAL SEALANT.

2 PIPING PENETRATION DETAIL
MP501 SCALE: NONE



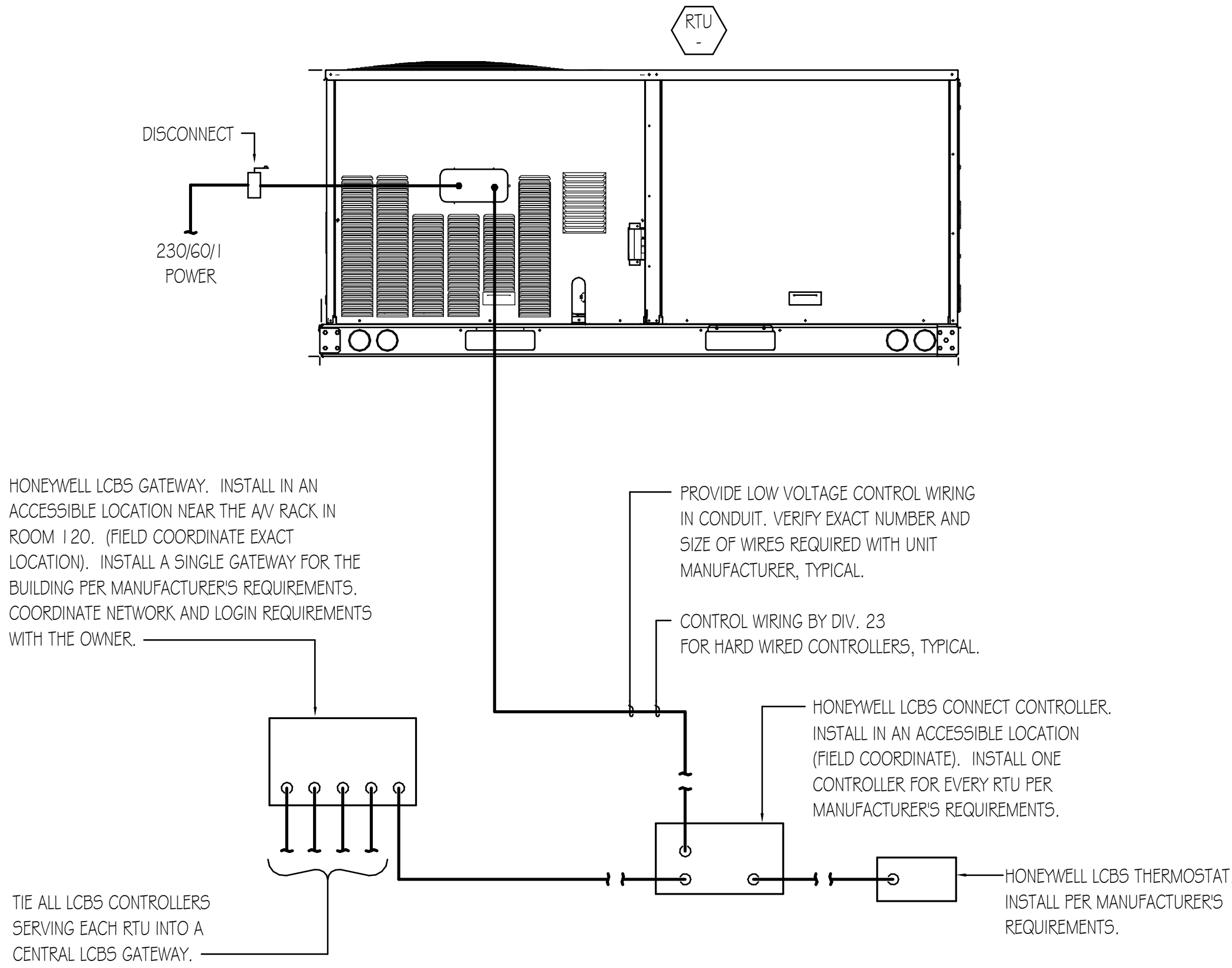
3 SUSPENDED REFRIGERANT PIPE SUPPORT AT TRUSS DETAIL
MP501 SCALE: NONE

9/10/2024 1:14:22 PM

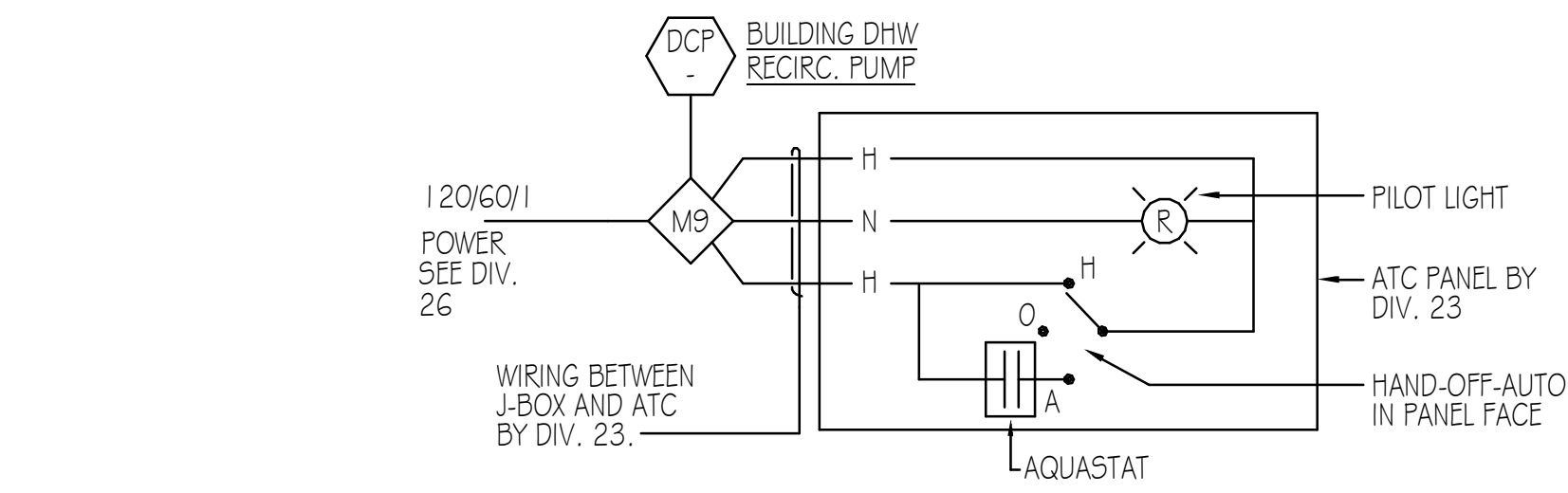
A B C D E F

1 2 3 4 5 6

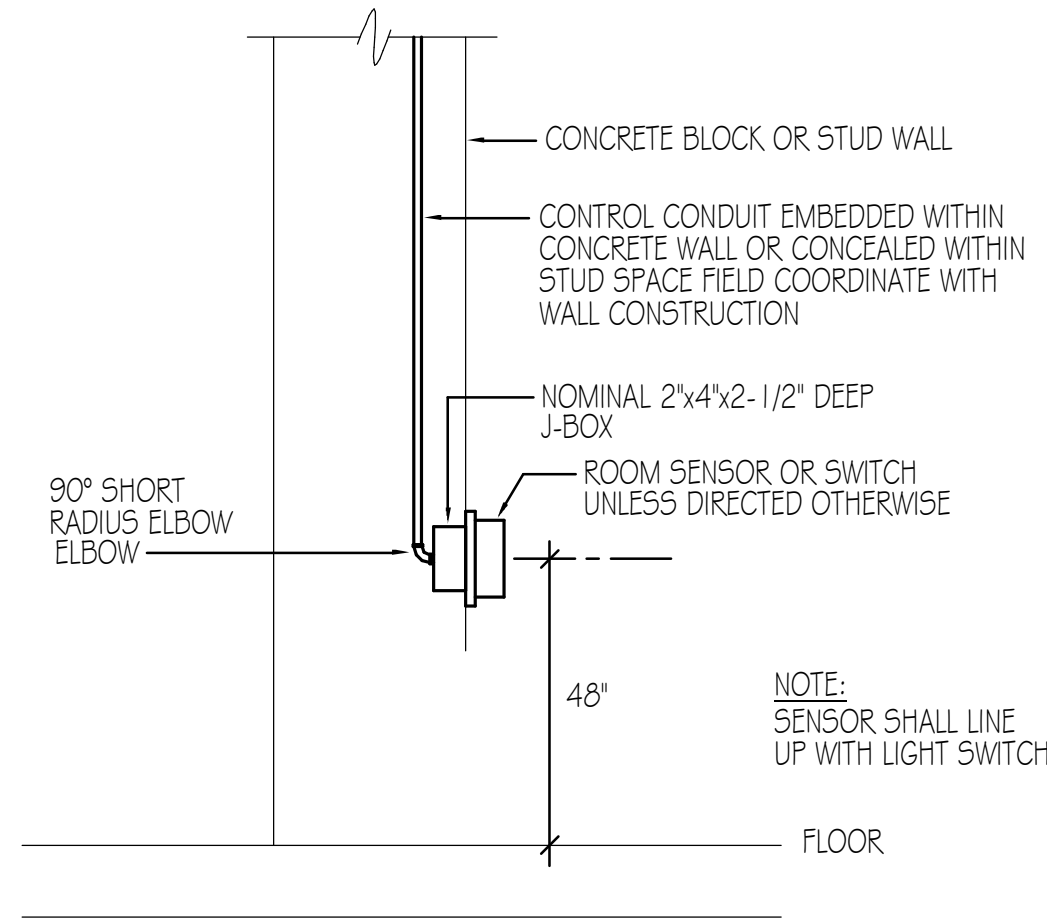
1 2 3 4 5 6



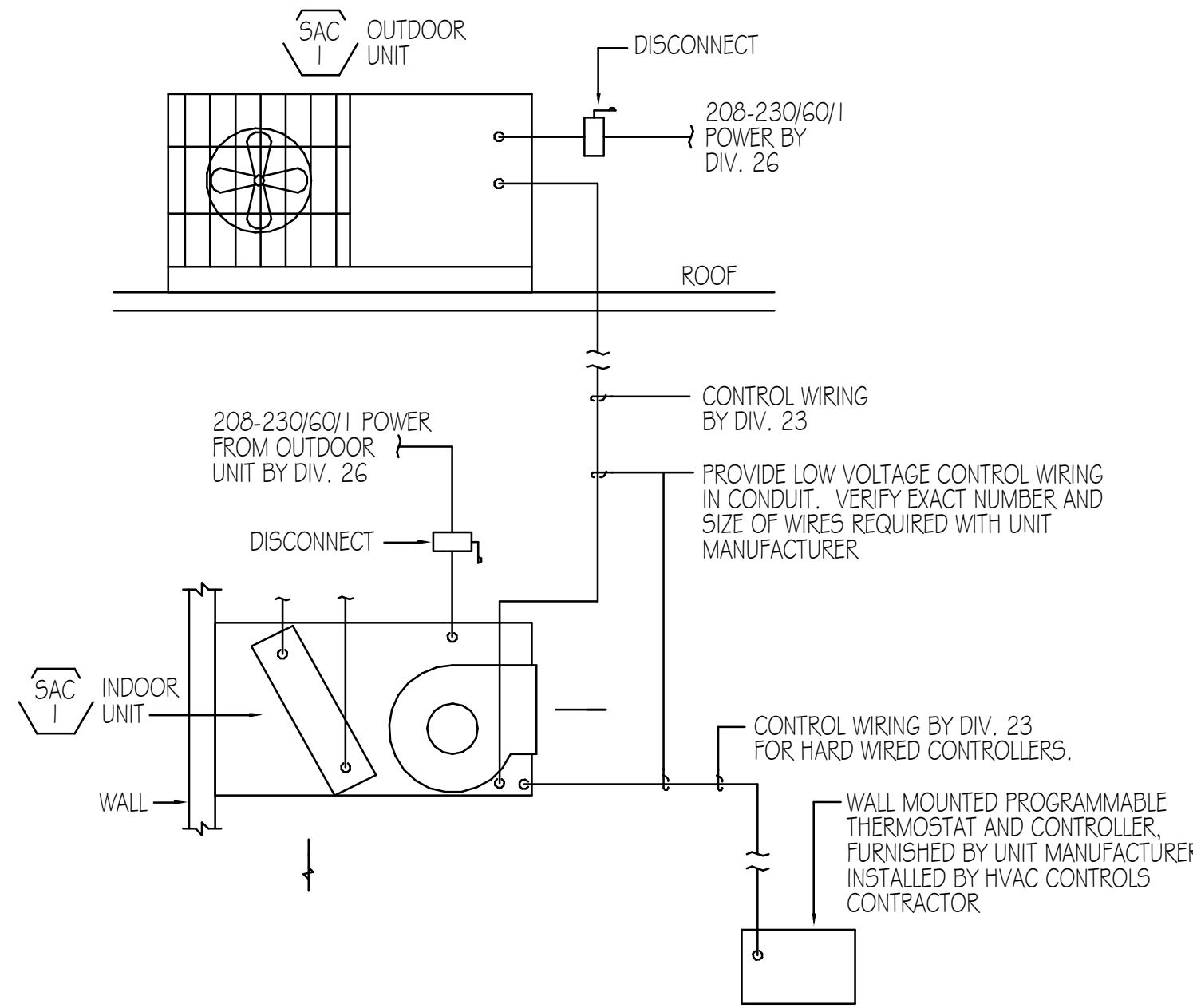
9 PACKAGED ROOFTOP A/C UNIT CONTROL DIAGRAM
SCALE: NONE TYPICAL FOR RTU-1 THRU RTU-5



6 DOMESTIC HOT WATER CIRCULATING PUMP CONTROL DIAGRAM
SCALE: NONE

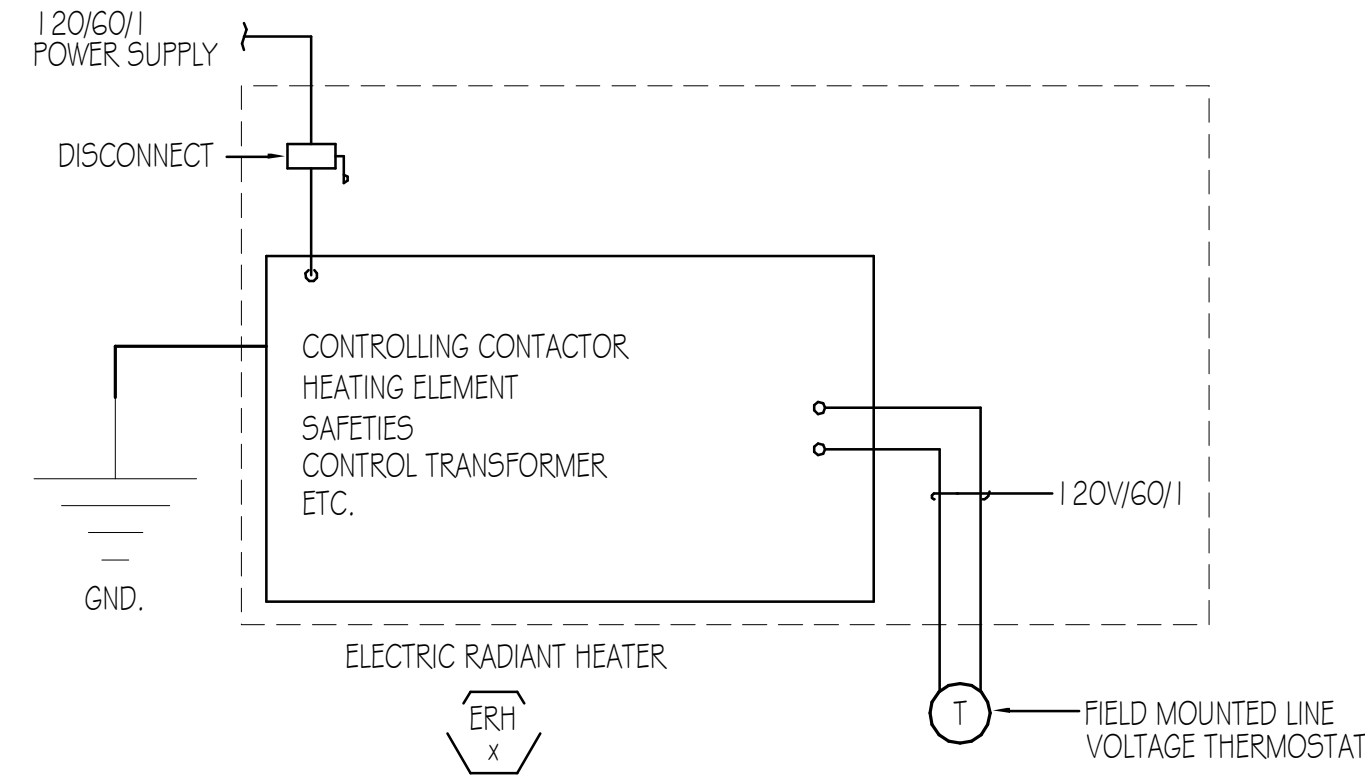


7 SENSOR MOUNTING DETAIL
SCALE: NONE

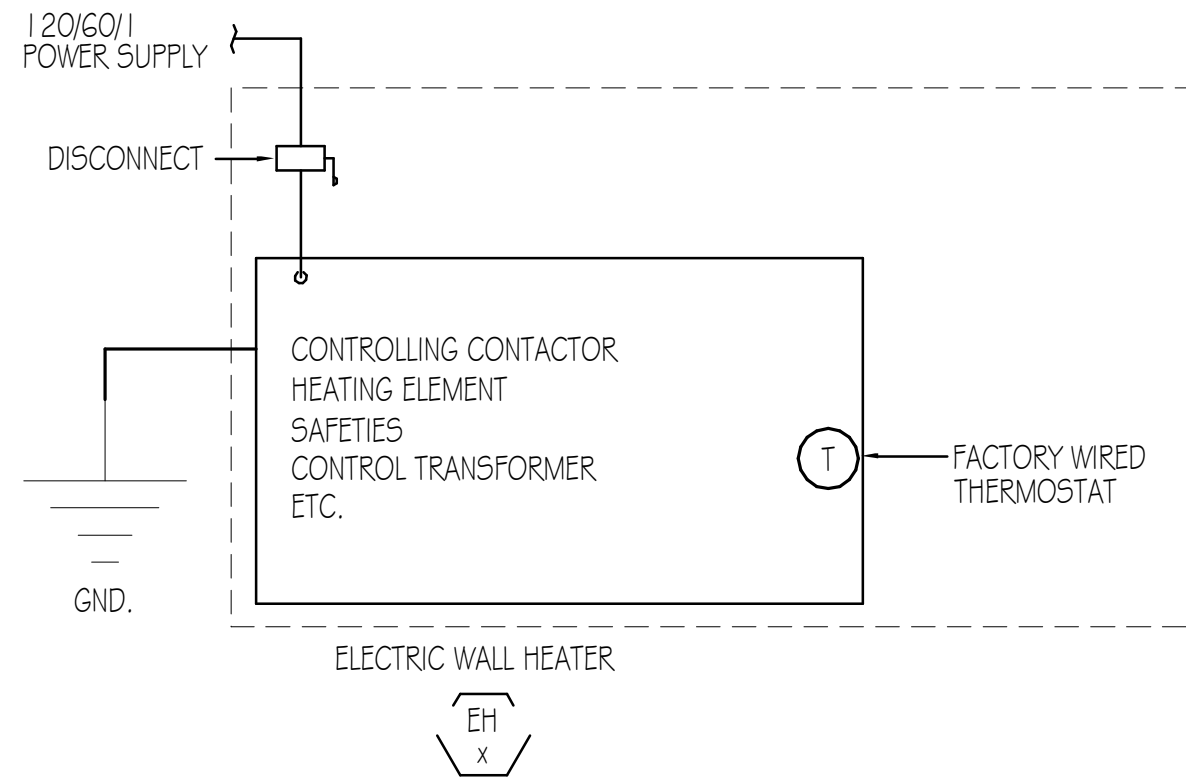


8 SPLIT SYSTEM AC CONTROL DIAGRAM
SCALE: NONE SEE PLANS FOR EXACT CONFIGURATION

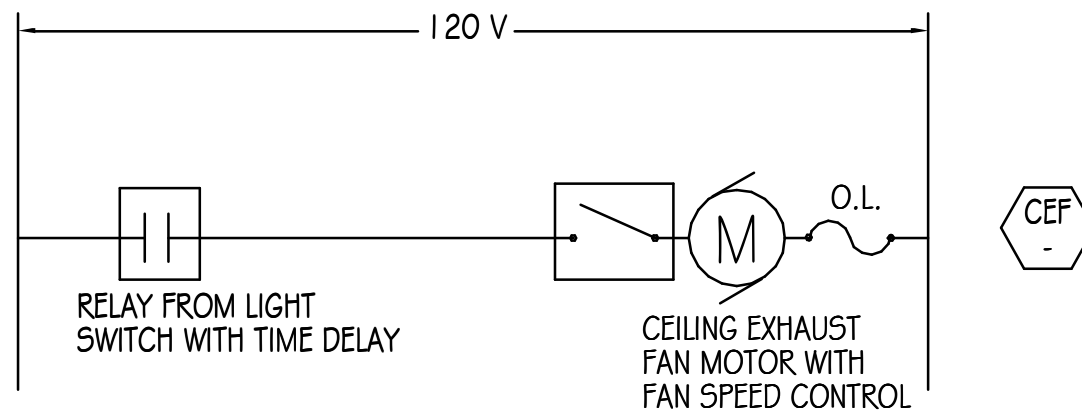
- ### GENERAL NOTES FOR MECHANICAL CONTROLS
- ALL ELECTRICAL INSTALLATION, BE IT POWER DISTRIBUTION OR SPECIAL SYSTEMS, IS INCLUDED IN THE SCOPE OF THE GENERAL CONTRACT. OF SPECIFIC CONCERN ARE THE CONTROL SYSTEMS RELATED TO MECHANICAL EQUIPMENT. RESPONSIBILITY FOR THE CONTROL WORK IS DIVIDED BETWEEN THE PROJECT ELECTRICIAN (DIV. 26) AND A SPECIALTY CONTROLS CONTRACTOR (DIV. 23).
 - ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH DIVISION 26 AND TO THE FULLEST EXTENT POSSIBLE, PRODUCTS AND PRACTICES SHALL BE SIMILAR FOR ALL INSTALLATIONS.
 - THE ELECTRICIAN SHALL PROVIDE ALL POWER TO AND THROUGHOUT THE BUILDING, TO INCLUDE MOTOR CONTROL CENTERS, BREAKER PANELS AND ALL OTHER SYSTEMS DESIGNATED TO THE ELECTRICIANS.
 - THE ELECTRICIAN SHALL RUN AND CONNECT ALL WIRING AND DEVICES 120 VOLTS AND ABOVE WHICH POWER MOTORS AND OTHER MECHANICAL DEVICES. WHERE CONTROL DEVICES ARE LOCATED IN POWER CIRCUIT, THE CONTROLS CONTRACTOR SHALL INTERRUPT THE CIRCUIT IN THE MECHANICAL EQUIPMENT JUNCTION BOX, WIRE THROUGH THE CONTROL DEVICE AND BACK TO THE JUNCTION BOX.
 - THE CONTROLS CONTRACTOR SHALL ROUTE ALL CONDUIT FOR MECHANICAL CONTROLS, PULL WIRING REQUIRED FOR MECHANICAL CONTROLS THROUGH THE CONDUITS AND MAKE CONNECTIONS TO MECHANICAL EQUIPMENT, ATC PANELS, SENSORS, ETC., AS INDICATED ON THE PLANS ALL IN ACCORDANCE WITH DIVISION 26.
 - THE CONTROLS CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR CONTROL SYSTEMS CIRCUITS.
 - BREAKERS AND DISCONNECTS, AUXILIARY CONTACTS, STANDARD PILOT LIGHTS AND MAGNETIC STARTERS ARE THE RESPONSIBILITY OF DIVISION 26.
 - AUXILIARY RELAYS, LOW VOLTAGE TRANSFORMERS, CONTROL PANEL SWITCHES AND DEVICES, THERMOSTATS, PRESSURE SWITCHES, ELECTRIC OPERATED VALVES, ETC. ARE THE RESPONSIBILITY OF DIVISION 23.
 - ANY QUESTION OF RESPONSIBILITY SHALL BE CLARIFIED BY THE GENERAL CONTRACTOR
 - ALL WIRING SHALL TERMINATE AT LABELED TERMINAL STRIPS.



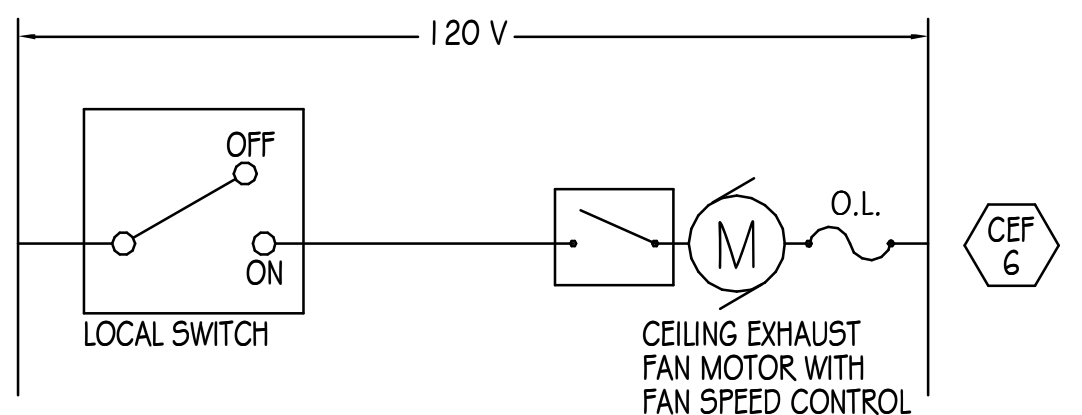
2 ELECTRIC RADIANT HEATER CONTROL DIAGRAM
SCALE: NONE



3 ELECTRIC WALL HEATER CONTROL DIAGRAM
SCALE: NONE TYPICAL FOR EH-1 THRU EH-6



4 CEILING RESTROOM EXHAUST FAN CONTROL DIAGRAM
SCALE: NONE TYPICAL FOR CEF-1 THRU CEF-5



5 CEILING EXHAUST FAN (CEF-6) CONTROL DIAGRAM
SCALE: NONE

9/10/2024 1:24:18 PM

A B C D E F 1 2 3 4 5 6

GENERAL PLUMBING NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PLUMBING FIXTURES, EQUIPMENT REQUIREMENTS AND LOCATIONS, AND ALL RELATED UTILITIES WITH THE MECHANICAL AND ARCHITECTURAL PLANS AND SPECIFICATIONS AND SHALL PROVIDE ALL SERVICES AS REQUIRED.
2. ALL WALL-HUNG PLUMBING FIXTURES SHALL BE SECURELY ATTACHED TO AND SUPPORTED BY FLOOR-MOUNTED CARRIERS OF ALL-METAL CONSTRUCTION. FIXTURE HANGERS OR ARMS SHALL BE SUPPORTED FREE OF THE FINISHED WALL. HANGERS SHALL BE BY WADE, SMITH, JOSAM, OR ZURN.
3. EACH INDIVIDUAL FIXTURE SUPPLY SHALL BE PROVIDED WITH A CHROME-PLATED STOP VALVE WITH HAND WHEEL. VALVE SHALL BE BALL TYPE, QUARTER TURN AS APPROVED BY ENGINEER. STOPS SHALL BE ON BOTH HOT AND COLD WATER LINES.
4. FIXTURES AND ACCESSORIES SHALL BE AS SPECIFIED. EACH ITEM SHALL BE COMPLETE WITH CHROME-PLATED BRASS TRIM. SEE PLUMBING FIXTURE SCHEDULE.
5. CAULK WITH SILICONE COMPOUND AROUND ALL FIXTURES AT INTERFACE WITH WALLS AND/OR FLOOR.
6. ALL PLUMBING SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE UTAH PLUMBING CODE AND/OR LOCAL ORDINANCES.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	DROP IN PIPE
	RISE IN PIPE
	VALVE IN RISE
	UNION
	GAS SHUT OFF VALVE (GAS COCK)
	BALL VALVE
	CAP
	GAS TYPE WATER HAMMER ARRESTOR
	THERMOMETER
	PRESSURE REDUCING VALVE - (PRV)
	FLOOR DRAIN, FLOOR SINK, ROOF DRAIN
	FLOOR CLEAN OUT
	WALL CLEAN OUT
	CLEAN OUT
	VENT THROUGH ROOF
	SAFETY OR RELIEF VALVE
	COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	SEWER OR WASTE
	VENT
	GAS (NATURAL GAS)

PLUMBING FIXTURE SCHEDULE

SYM.	DESCRIPTION	COLD	HOT	TRAP	WASTE	VENT	REMARKS
P-1A	WATER CLOSET - FLOOR MOUNTED, TANK TYPE, STANDARD	1/2"	-	INT	3"	2"	-
P-1B	WATER CLOSET - FLOOR MOUNTED, TANK TYPE, ADA	1/2"	-	INT	3"	2"	-
P-2A	URINAL - WALL MOUNTED, MANUAL FLUSH VALVE.	3/4"	-	INT	2"	2"	-
P-2B	URINAL - WALL MOUNTED, MANUAL FLUSH VALVE, ADA	3/4"	-	INT	2"	2"	-
P-3	LAVATORY, WALL MOUNTED	1/2"	1/2"	1-1/2"	2"	2"	-
P-4	SERVICE SINK - FLOOR MOUNTED, PROVIDE WITH STAINLESS STEEL RIM GUARD	1/2"	1/2"	3"	2"	2"	-
P-5	WORKROOM SINK, SINGLE COMPARTMENT	1/2"	1/2"	1-1/2"	2"	2"	-
P-6	ELECTRIC WATER COOLER, HIGH-LOW, WITH BOTTLE FILLER.	1/2"	-	1-1/2"	2"	2"	-
IMC	ICE MAKER CONNECTION BOX	1/2"	-	-	-	-	-
WH	WALL HYDRANT	3/4"	-	-	-	-	-
HB	HOSE BIBB	1/2"	-	-	-	-	-
FD-1	FLOOR DRAIN, 6" ROUND GRATE, PROVIDE WITH TRAP SEAL DEVICE & DEEP SEAL P-TRAP	-	-	2"	2"	2"	-
FD-2	FLOOR DRAIN, 9" ROUND GRATE, PROVIDE WITH TRAP SEAL DEVICE & DEEP SEAL P-TRAP	-	-	3"	3"	2"	-
RD	ROOF DRAIN	-	-	-	-	-	SEE PLANS
SRD	SECONDARY ROOF DRAIN	-	-	-	-	-	SEE PLANS
DSN	DOWNSPOUT NOZZLE	-	-	-	-	-	SEE PLANS
FCO	FLOOR CLEANOUT	-	-	-	-	-	-
WCO	WALL CLEANOUT	-	-	-	-	-	-
CO	CLEANOUT	-	-	-	-	-	-

ELECTRIC WATER HEATER

SYMBOL	ELEMENT WATTAGE KW	DOMESTIC WATER			STORAGE GALLON	ELECTRICAL			A.O. SMITH MODEL NUMBER	EFF.	REMARKS
		GPH	EWT	LW		VOLTS	HERTZ	PHASE			
WH-1	3	15	40°F	122°F	20	240	60	1	DEL-20	100%	STANDBY LOSSES TO MEET ENERGY EFFICIENCY REQUIREMENTS FOR WATER HEATER CONSTRUCTION OF ASHRAE 90.1-10 AND IECC C404.2

DOMESTIC WATER CIRCULATION PUMP

SYMBOL	GPM	FEET HEAD	HP	RPM	ELECTRICAL			DUTY	TYPE	B&G SERIES	SIZE	REMARKS
					VOLTS	HZ	PHASE					
DCP-1	2	8	1/6	1725	115	60	1	HOT WATER LOOP	IN-LINE	PR SERIES	1"	ALL BRONZE, CONTROLLED ON/OFF WITH AQUA STAT

DOMESTIC EXPANSION TANK

SYMBOL	TANK VOLUME (GAL)	ACCEPT VOLUME (GAL)	AMTROL MODEL	ARRANGEMENT	DUTY	REMARKS
DET-1	2	0.9	ST-5	VERTICAL	DOMESTIC FOLD WATER SYSTEM	-

WATER HAMMER ARRESTER SCHEDULE

MARK	MANUFACTURER/MODEL #	FIXTURE UNITS	INLET SIZE	REMARKS
WHA-A	PPP SC-500	1-11	1/2"	PER PDI STANDARD PDI-WH 201
WHA-B	PPP SC-750	12-32	3/4"	PER PDI STANDARD PDI-WH 201
WHA-C	PPP SC-1000	33-60	1"	PER PDI STANDARD PDI-WH 201

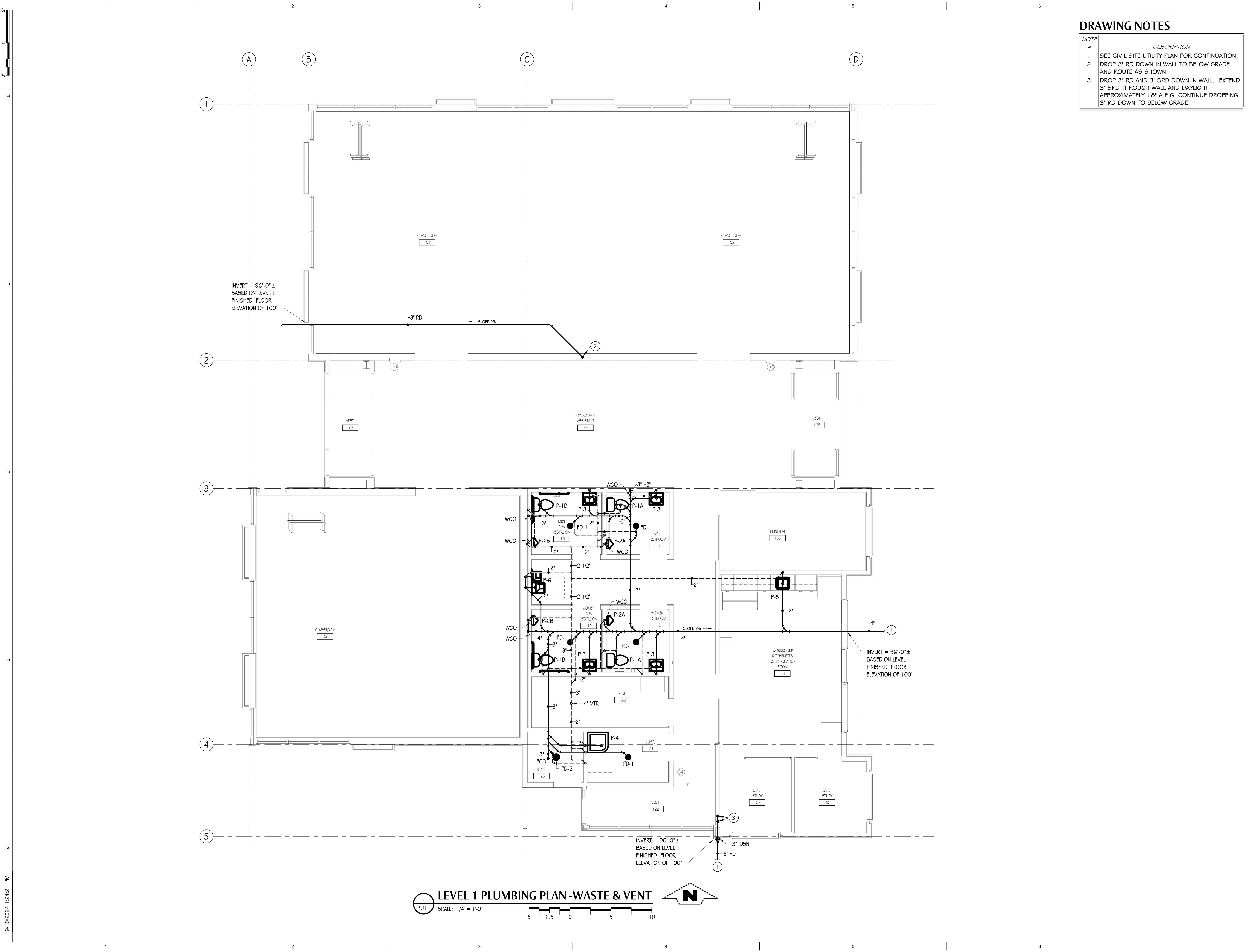
THERMOSTATIC MIXING VALVE SCHEDULE

SYMBOL	MANUFACTURER AND MODEL NO.	LOCATION	FLOW RATE (GPM)	ALLOWABLE PRESSURE DIFFERENTIAL (PSI)	OUTLET HOT WATER TEMP. (°F)	INLET SIZE	OUTLET SIZE	ACCESSORIES AND REMARKS
MV-1	POWERS - LFG480	BELOW HAND SINKS	0.5-2.0	5	105°	1/2"	1/2"	ASSE 1070

BACKFLOW PREVENTER SCHEDULE

SYMBOL	S E R V I C E	QTY.	SIZE	WATT'S MANUFACTURER NUMBER
BFP-1	WATER ENTRY	1	1-1/2"	LFO095

9/10/2024 1:24:21 PM



NOTE #	DESCRIPTION
1	SEE CIVIL SITE UTILITY PLAN FOR CONTINUATION.
2	DROP 3" RD DOWN IN WALL TO BELOW GRADE AND ROUTE AS SHOWN.
3	DROP 3" RD AND 3" SRD DOWN IN WALL. EXTEND 3" SRD THROUGH WALL AND DAYLIGHT APPROXIMATELY 18" A.F.G. CONTINUE DROPPING 3" RD DOWN TO BELOW GRADE.

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 09.05.24



DATE REVISION

PROJECT NUMBER 24003

**LEVEL 1
PLUMBING
PLAN -
WASTE &
VENT**

PL111



FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 • FFKR.COM



DRAWING NOTES

NOTE #	DESCRIPTION
1	SEE CIVIL SITE UTILITY PLAN FOR CONTINUATION.
2	DROP 1" DHW LOOP DOWN IN WALL TO WITHIN 2 FEET OF LAVATORY. CONNECT TO LAVATORY AND RISE 1" DHW LOOP UP IN WALL AND ROUTE AS SHOWN.
3	DROP 3/4" DHW LOOP DOWN IN WALL TO WITHIN 2 FEET OF LAVATORY. CONNECT TO LAVATORY AND RISE 3/4" DHW LOOP UP IN WALL AND ROUTE AS SHOWN.
4	MOUNT WATER HEATER ON SHELF ABOVE SERVICE SINK (P-4). SEE DETAIL 2/P.150.1
5	RISE 3/4" GAS UP THROUGH ROOF TO SERVE ROOFTOP UNIT. SEE PLI 2.1 FOR CONTINUATION.
6	BYPASS VALVE, NORMALLY CLOSED.



HEATH
Engineering Company

LOGAN UT SR SEMINARY
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 09.05.24



DATE	REVISION

PROJECT NUMBER	24003
----------------	-------

LEVEL 1
PLUMBING
PLAN -
WATER &
GAS

PL112

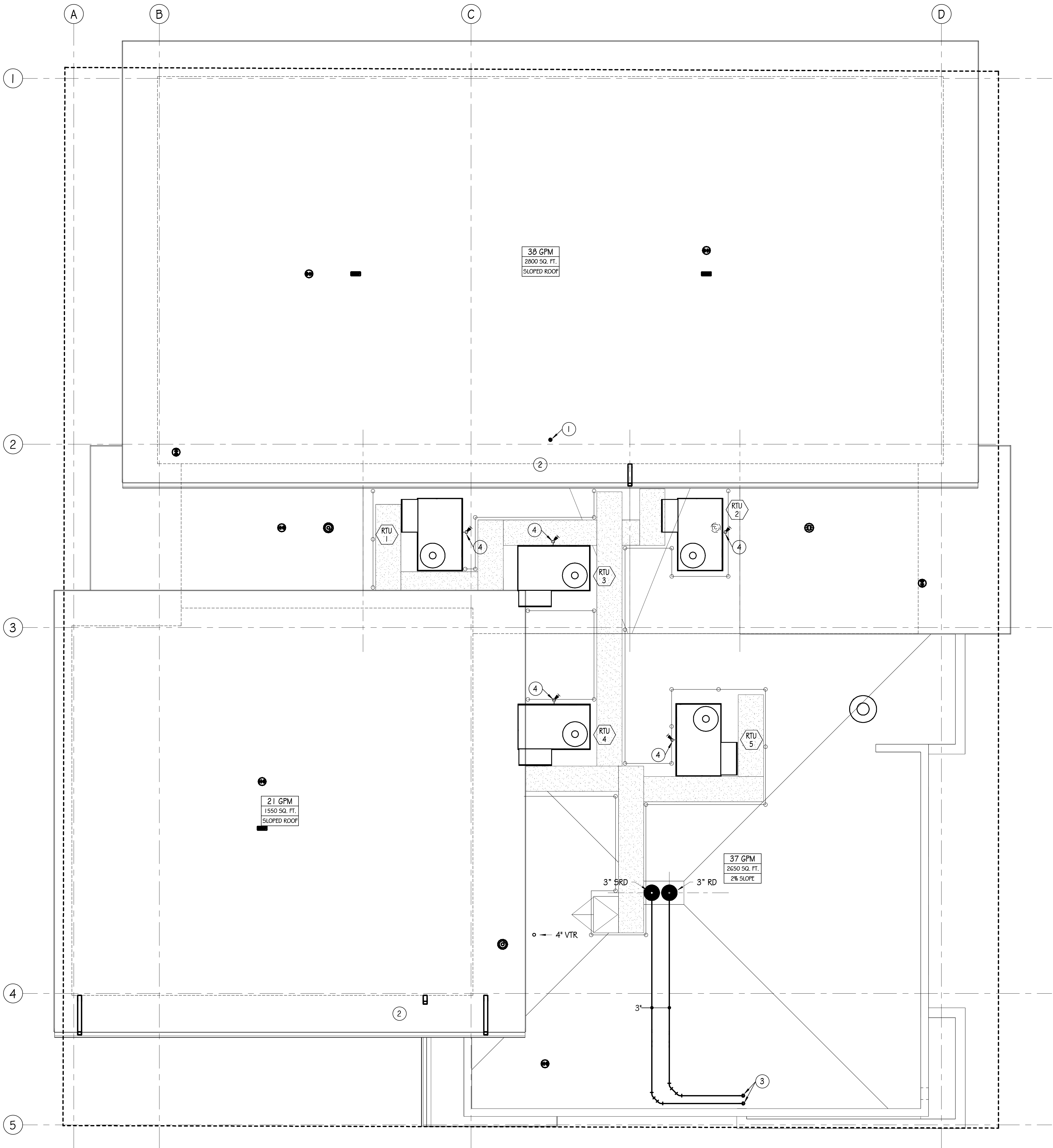
LEVEL 1 PLUMBING PLAN -WATER & GAS



9/10/2024 1:24:24 PM

A B C D E

1 2 3 4 5 6



1
PL121

ROOF PLUMBING PLAN

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

5 2.5 0 5 10



DRAWING NOTES

NOTE #	DESCRIPTION
1	CONNECT 3" RD PIPING TO 3" GUTTER DRAIN PIPING OUTSIDE OF BUILDING. EXTEND 3" RD PIPING INTO BUILDING AND DROP DOWN IN WALL TO LEVEL BELOW. SEE PL101 FOR CONTINUATION. SEE ARCHITECTURAL DETAIL AND DETAIL 12/PL501 FOR GUTTER TO ROOF DRAIN PIPING CONNECTION.
2	GUTTER DRAIN SPECIFIED BY ARCHITECT.
3	DROP 3" RD AND 3" SRD DOWN IN WALL ON LEVEL BELOW. SEE PL111 FOR CONTINUATION.
4	RISE 3/4" GAS UP THROUGH ROOF AND CONNECT TO ROOFTOP UNIT PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND PER DETAIL 11/PL501. SEE GAS FLOW DIAGRAM.

ROOF DRAIN DESIGN NOTES

DESIGN RAINFALL RATE: 1.2 IN / HR
xx GPM — DESIGN GALLON PER MINUTE
xx SQ. FT. — DESIGN ROOF DRAIN AREA (SQ. FT.)
2% SLOPE — MINIMUM DESIGN PIPE SLOPE



FFKR ARCHITECTS

730 Pacific Avenue • Salt Lake City, Utah 84104
O 801.521.6186 • FFKR.COM

LOGAN UT SR SEMINARY

110 W. 100 S. Logan, UT 84321

The Church of Jesus Christ of Latter-Day Saints

CONSTRUCTION DOCUMENTS - 09.05.24



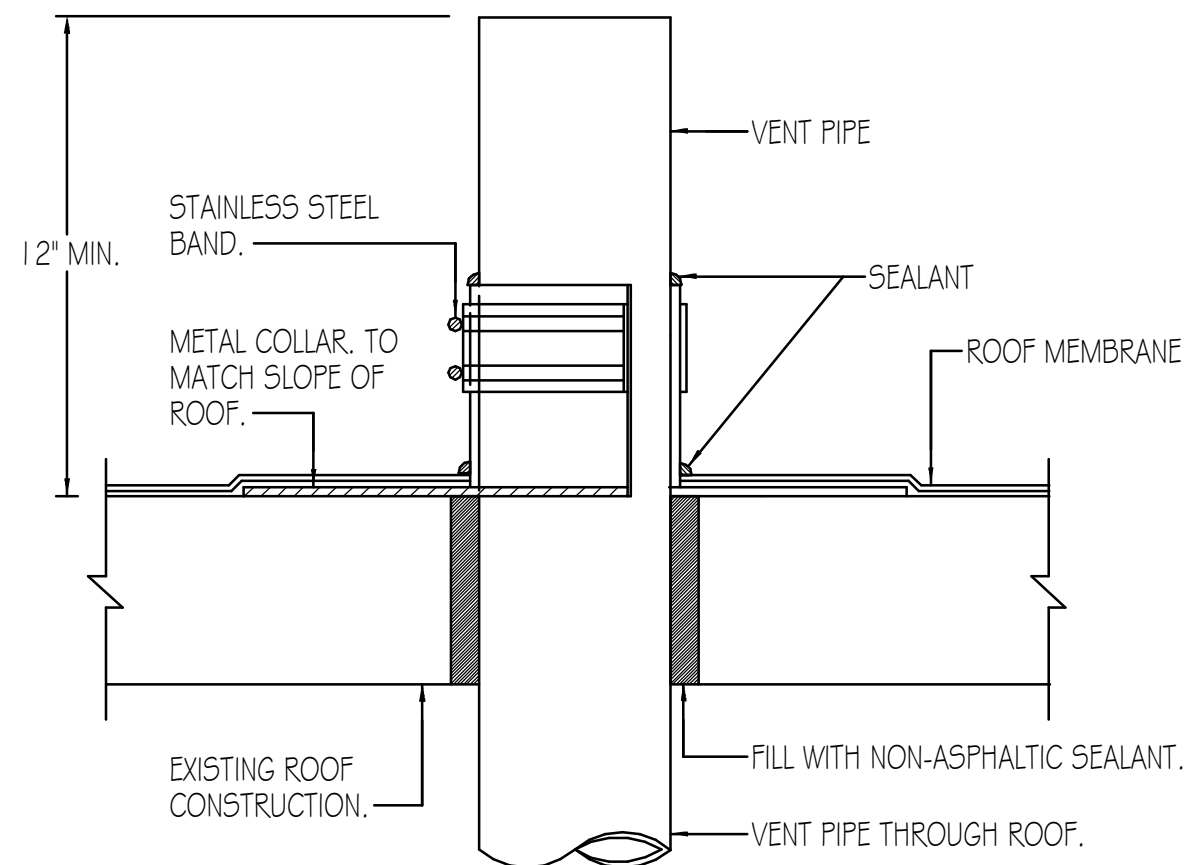
△ DATE REVISION

PROJECT NUMBER 24003

ROOF PLUMBING PLAN

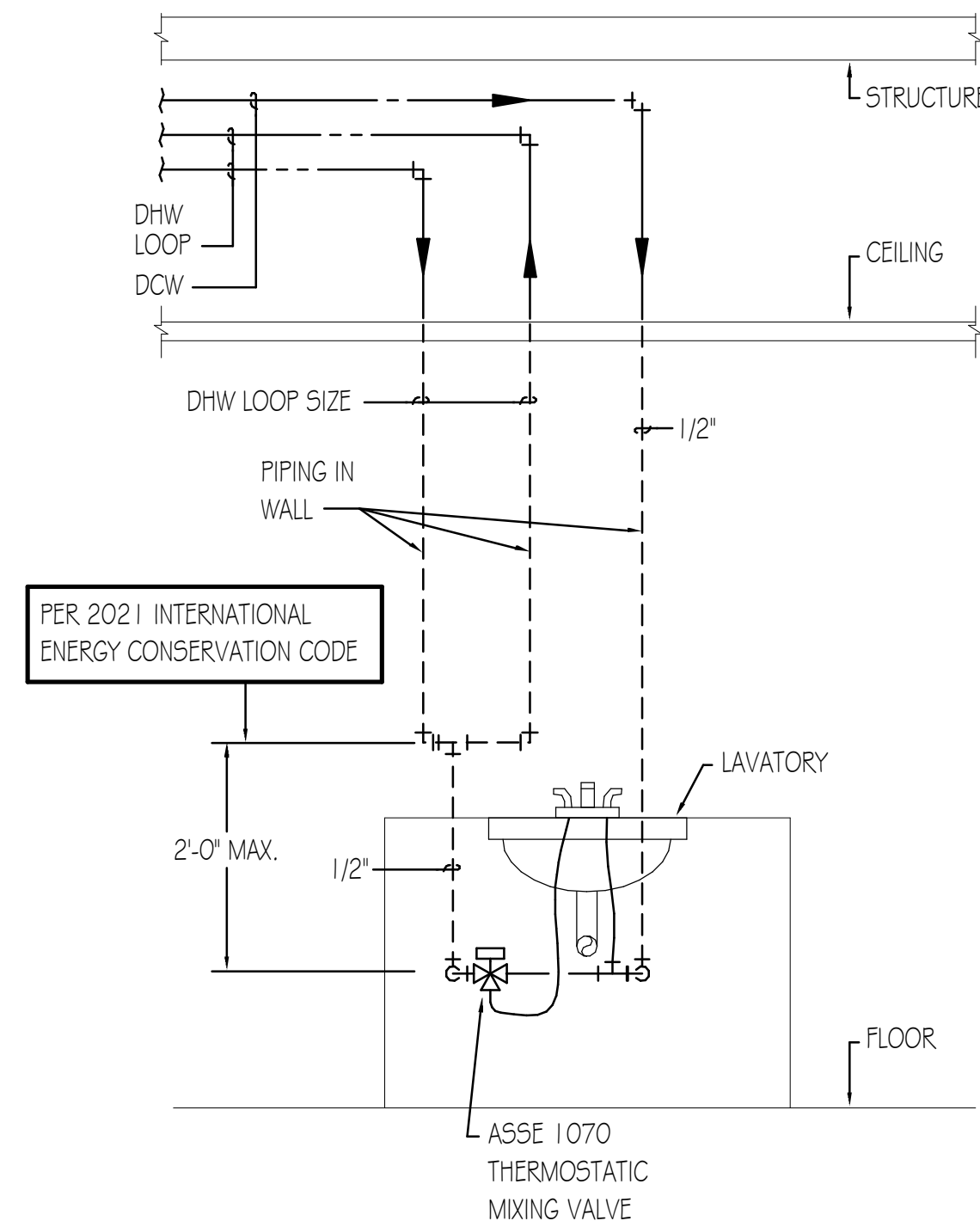
PL121

9/10/2024 1:24:24 PM



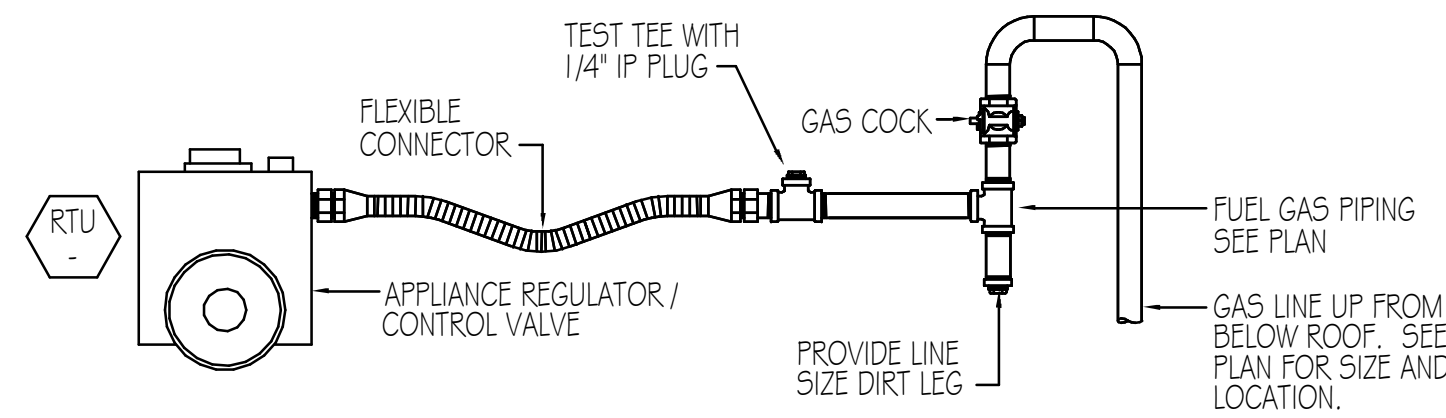
9 VENT THRU ROOF DETAIL

SCALE: NONE



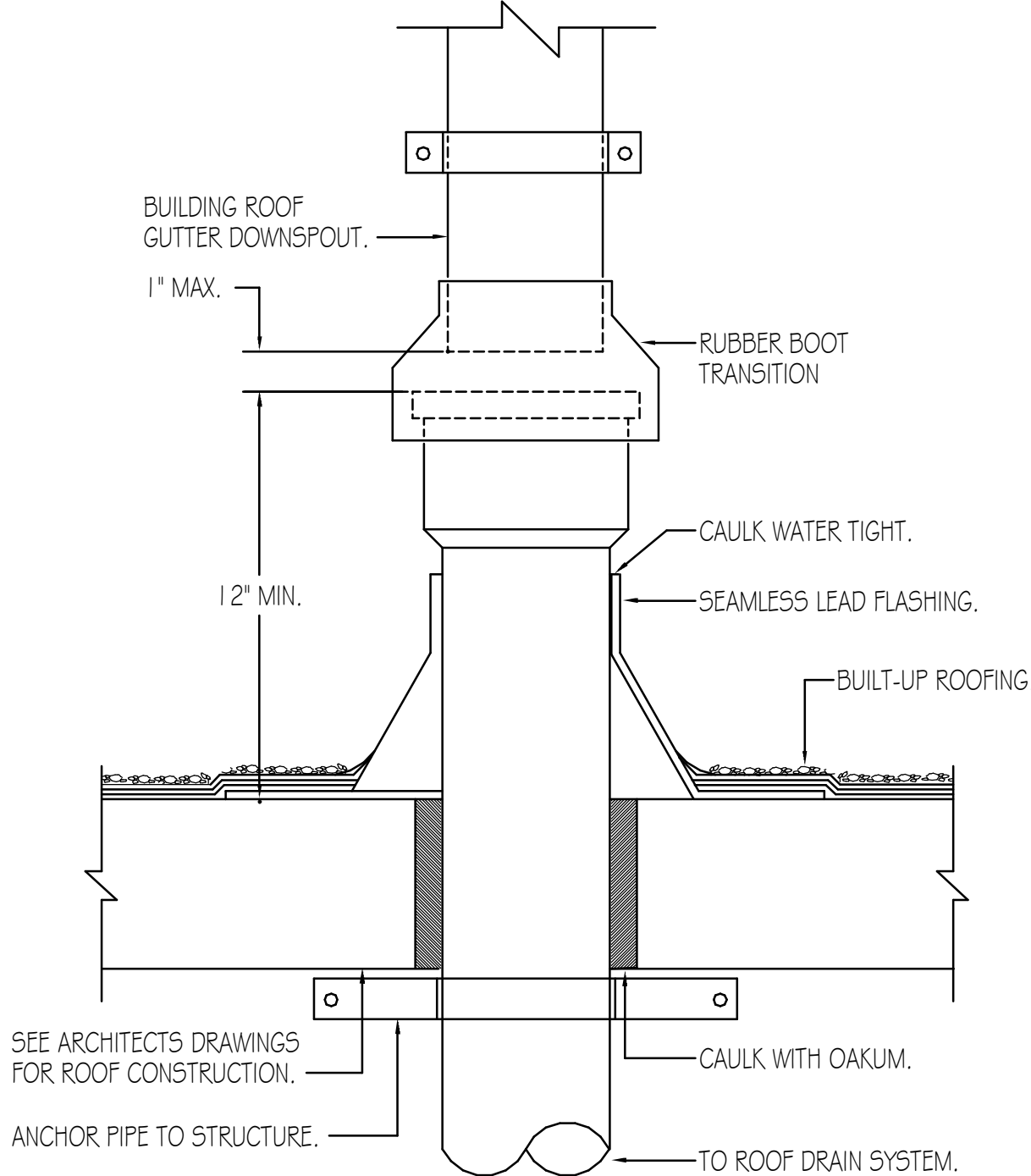
10 LAVATORY DOMESTIC WATER PIPING DETAIL

SCALE: NONE



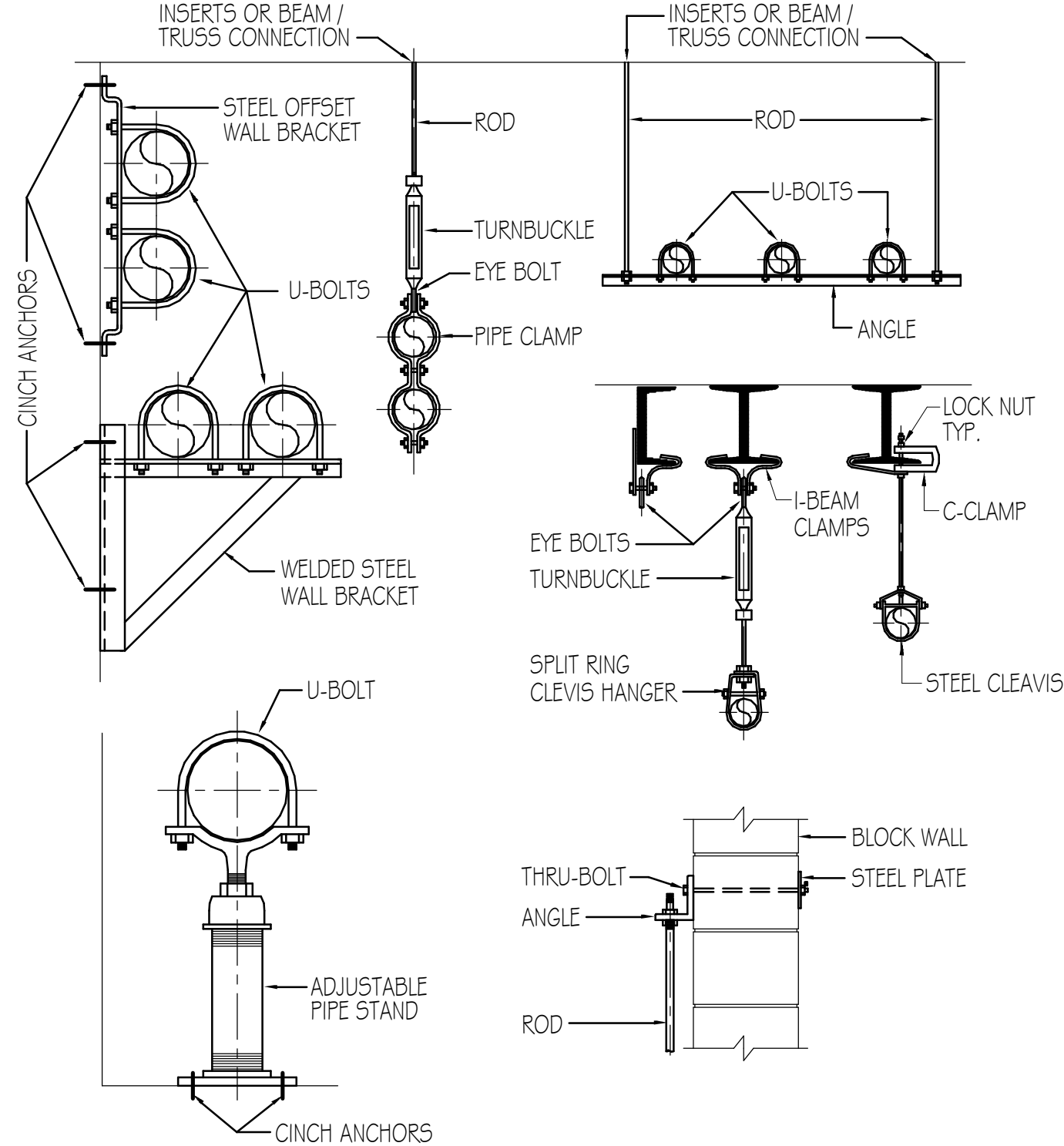
11 GAS CONNECTION TO RTU DETAIL

SCALE: NONE



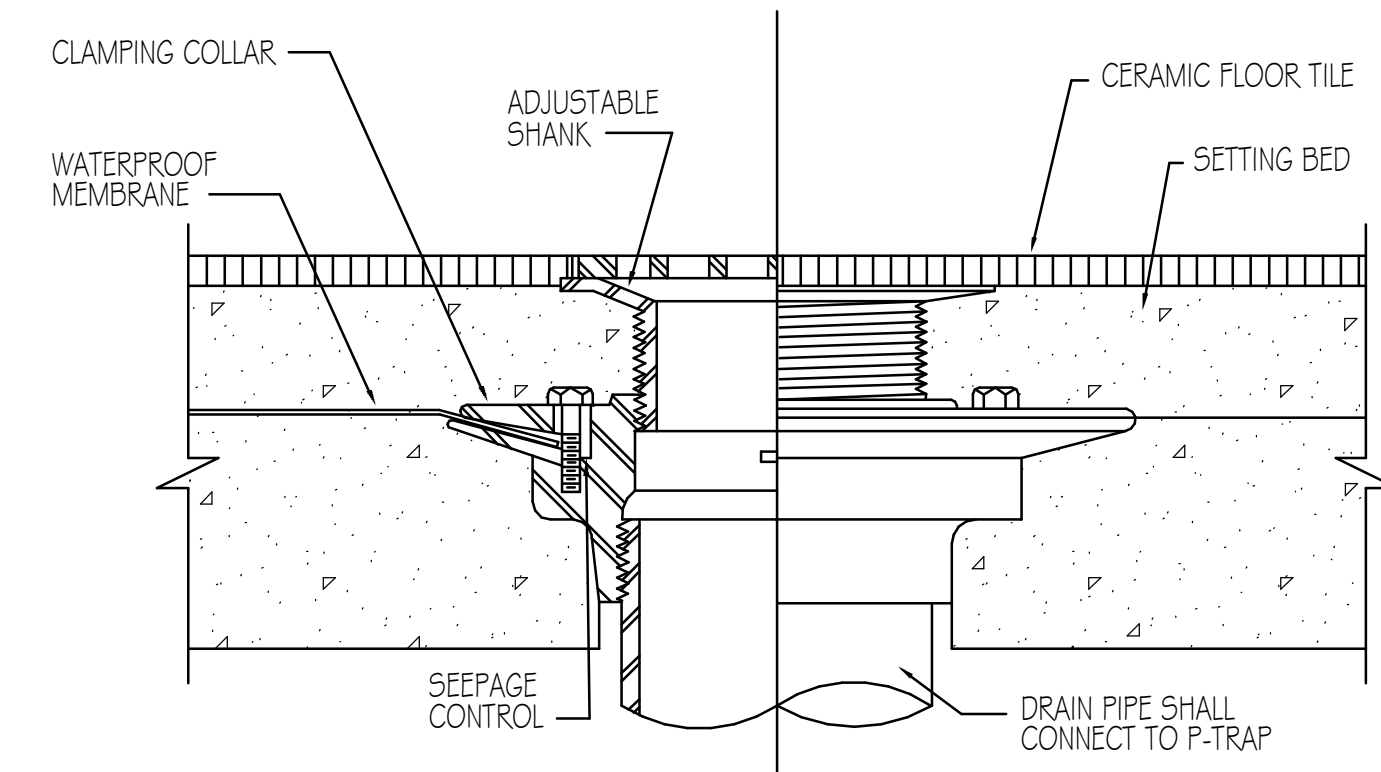
12 DOWNSPOUT TO HUB DETAIL

SCALE: NONE



5 TYPICAL PIPE SUPPORTS DETAIL

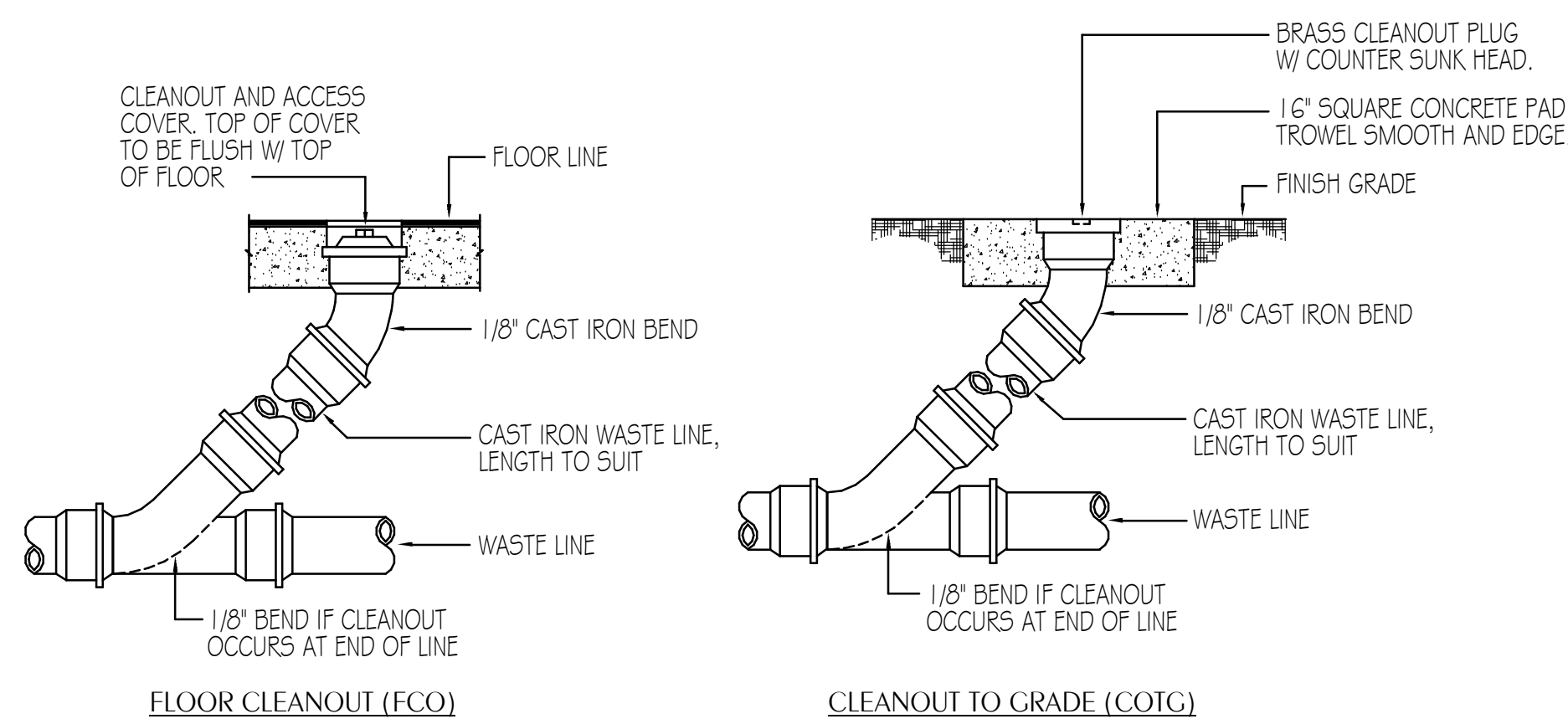
SCALE: NONE



NOTE: LOCATE FLOOR DRAIN IN LOCATION SHOWN ON ARCHITECTURAL AND/OR PLUMBING PLANS. SEE ARCH. FOR LOCATION DIMENSIONS.

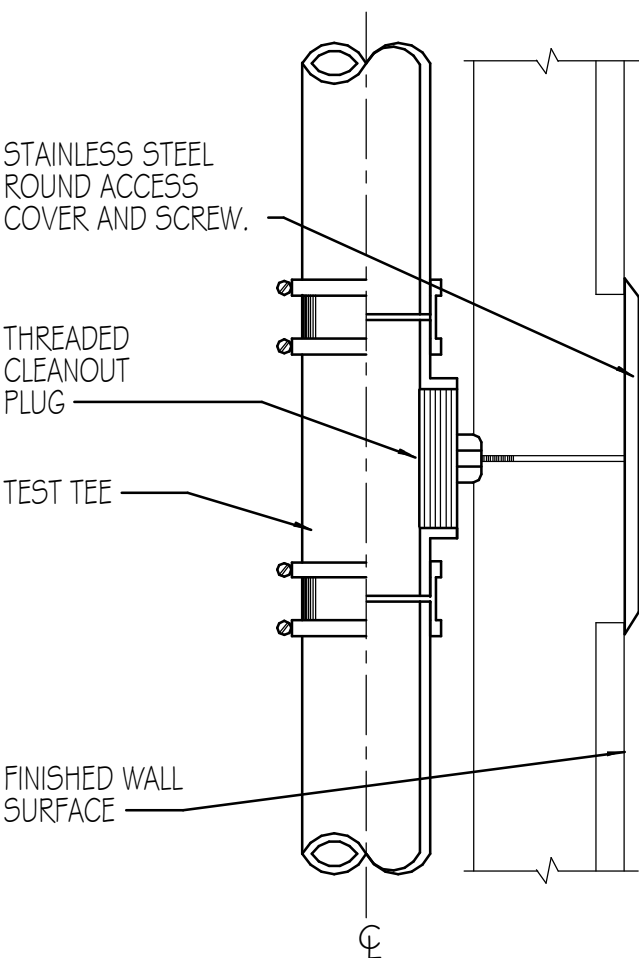
6 FLOOR DRAIN DETAIL

SCALE: NONE



7 CLEANOUT DETAILS

SCALE: NONE

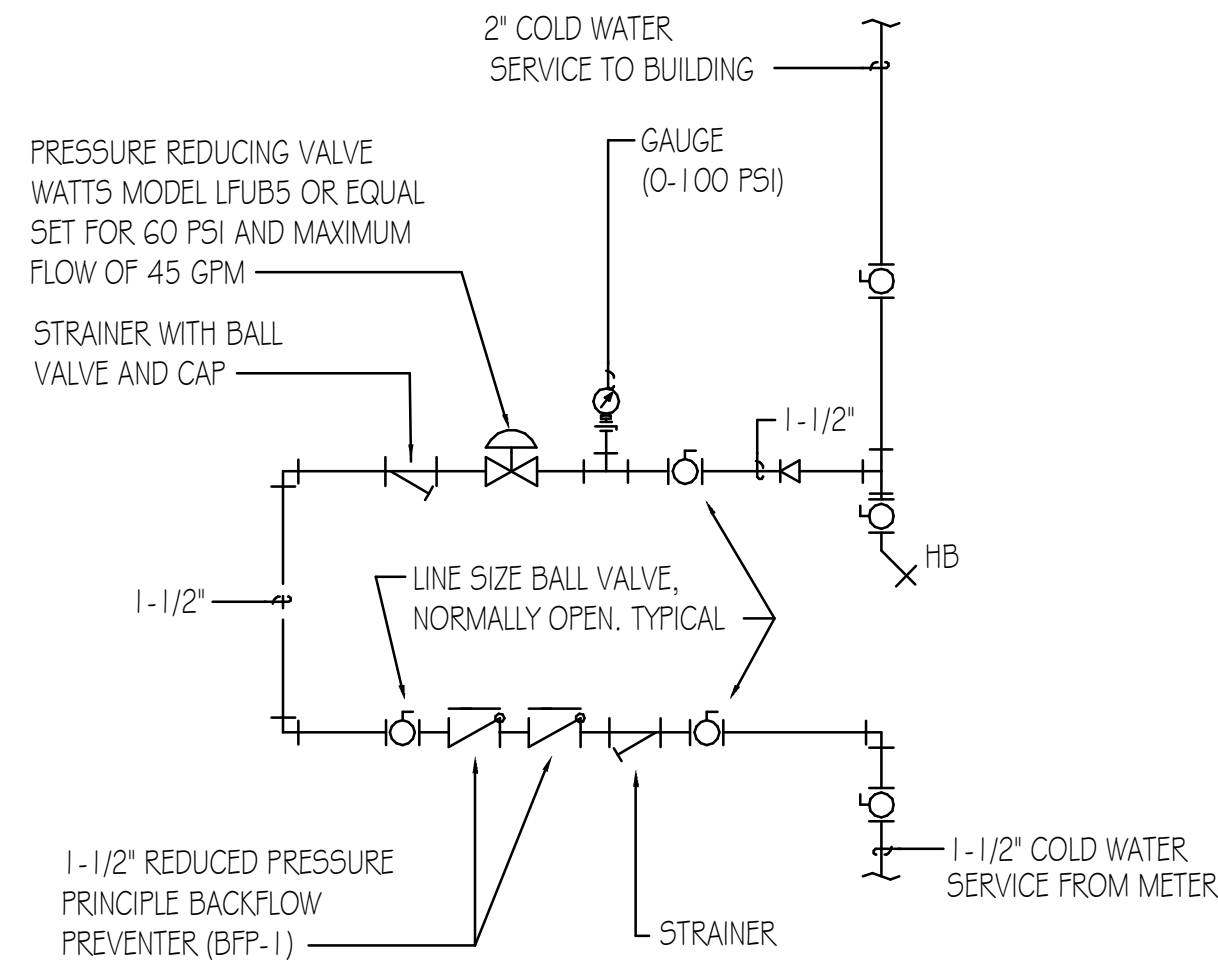


8 WALL CLEANOUT DETAIL

SCALE: NONE

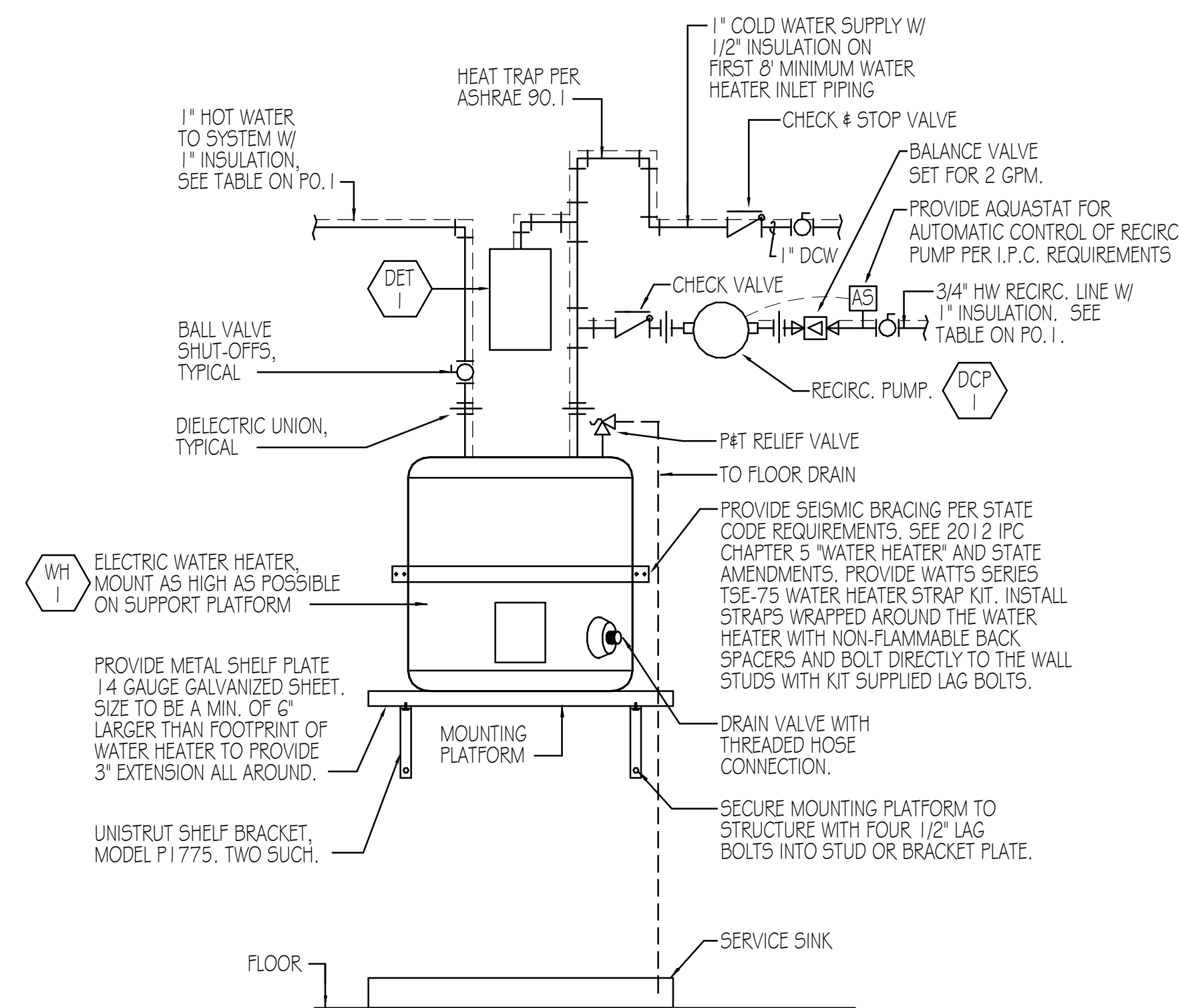
MOUNTING HEIGHT CHART	
LOCATION DESCRIPTION	CENTERLINE HEIGHT
URINAL	48"
LAVATORY	12"
SINK	12"
GENERAL WALL	12"

NOTE: COORDINATE WITH ARCHITECT PRIOR TO INSTALLING AT A HEIGHT OTHER THAN THAT LISTED ABOVE.



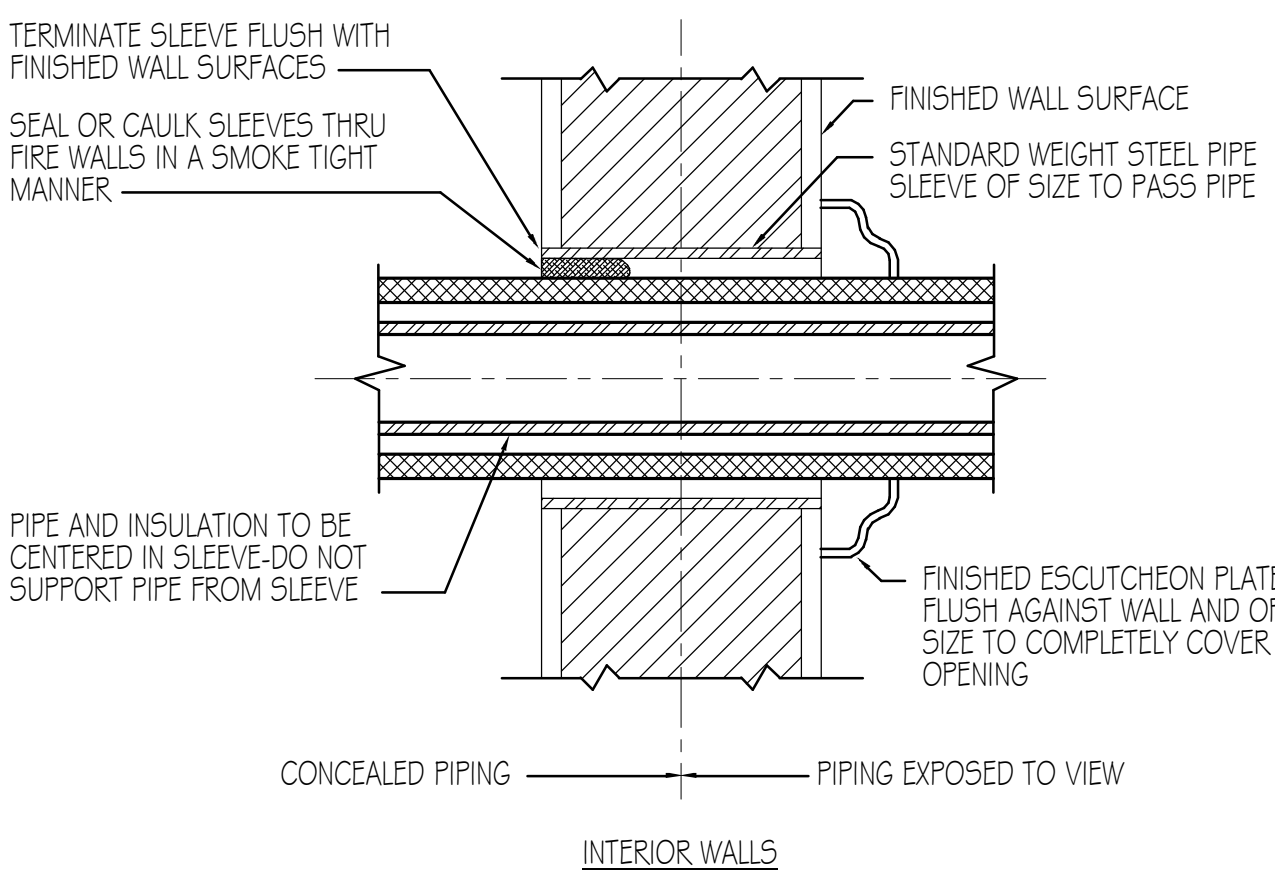
1 BUILDING WATER ENTRY DETAIL

SCALE: NONE



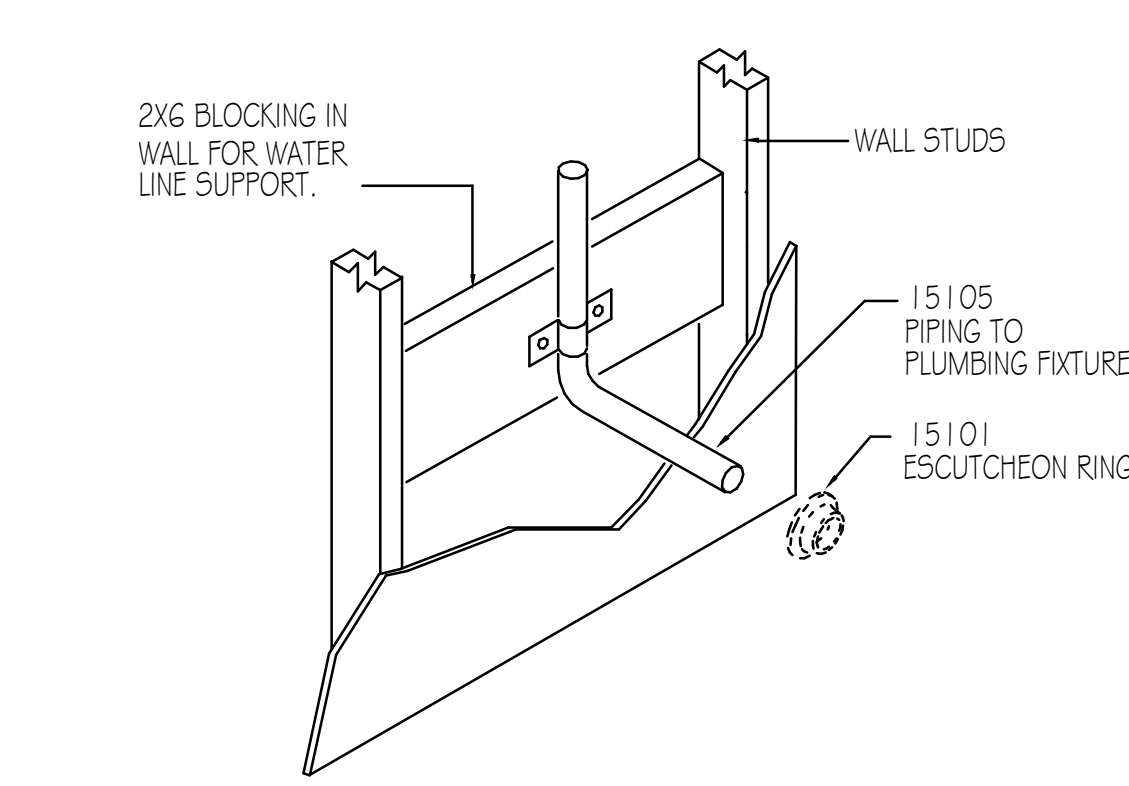
2 ELECTRIC WATER HEATER DETAIL

SCALE: NONE



3 WALL PENETRATION DETAIL

SCALE: NONE

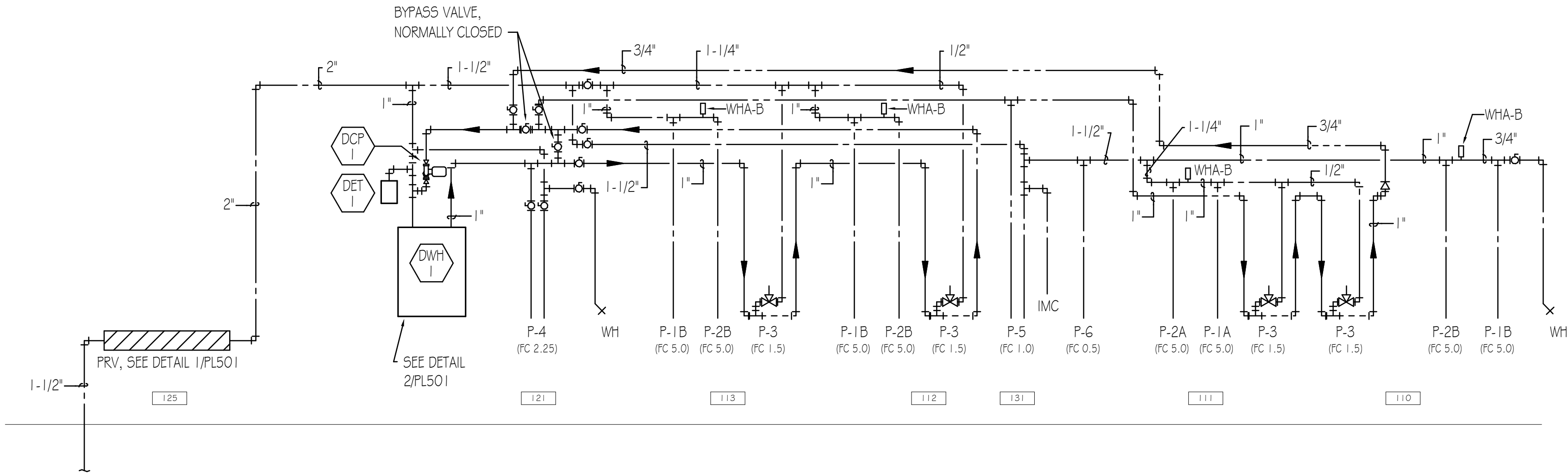


4 PIPE SUPPORT DETAIL

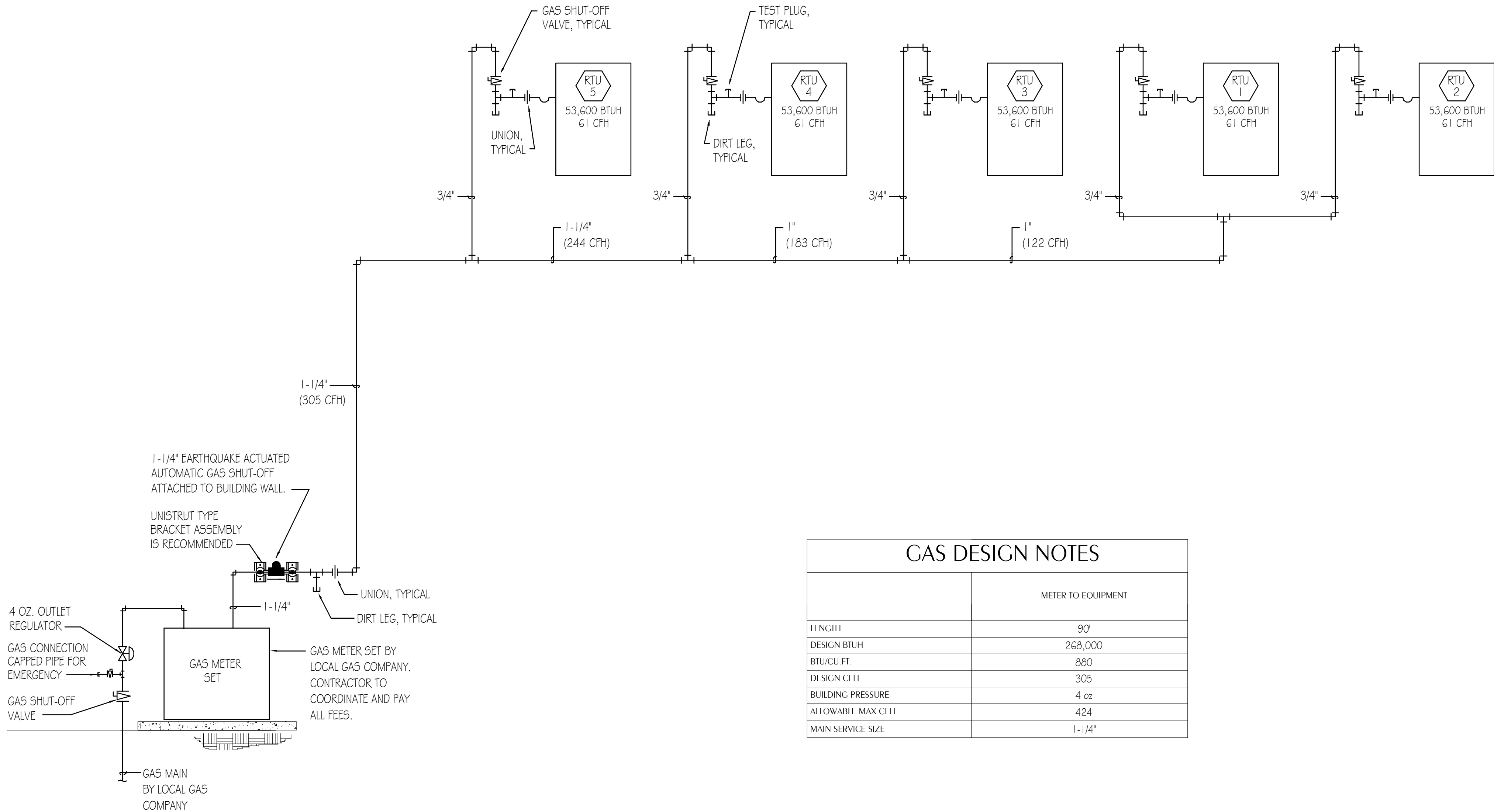
SCALE: NONE

9/10/2024 1:24:24 PM

A B C D E



1 DOMESTIC WATER FLOW DIAGRAM
SCALE: NONE



2 GAS FLOW DIAGRAM
SCALE: NONE

9/10/2024 4:12:13 PM

PATCH PANEL SCHEDULE						PATCH PANEL SCHEDULE					
REMODEL TR-01-PP-01 LOCATION: STORAGE RM 120						REMODEL TR-01-PP-01 LOCATION: STORAGE RM 120					
GENERAL NOTE: PROVIDE, INSTALL, TERMINATE AND TEST CAT6 CABLES TO DEVICES INDICATED AND PATCH PANEL, DEVICES, CONDUITS, ETC. SEE SPECS. DATA 48 PORT PATCH PANEL (FLAT) PART NO. - CPP48HPEWBL						GENERAL NOTE: PROVIDE, INSTALL, TERMINATE AND TEST CAT6 CABLES TO DEVICES INDICATED AND PATCH PANEL, DEVICES, CONDUITS, ETC. SEE SPECS. DATA 48 PORT PATCH PANEL (FLAT) PART NO. - CPP48HPEWBL					
PORT	ROOM #	ROOM NAME	OUTLET DESCRIPTION	SWITCH NAME	PORT #	PORT	ROOM #	ROOM NAME	OUTLET DESCRIPTION	SWITCH NAME	PORT #
25	131	WORKROOM/ KITCHENET/ COLLABORATION	DATA JACK	TR-01-SW-01	25	01	120	STORAGE	SECURITY PANEL	TR-01-SW-01	01
26			DATA JACK	TR-01-SW-01	26	02			SECURITY PANEL	TR-01-SW-01	02
27	130	PRINCIPAL	DATA JACK	TR-01-SW-01	27	03	120	STORAGE	FIRE ALARM CONTROL PANEL	TR-01-SW-01	03
28			DATA JACK	TR-01-SW-01	28	04			FIRE ALARM CONTROL PANEL	TR-01-SW-01	04
29	130	PRINCIPAL	DATA JACK	TR-01-SW-01	29	05		HALLWAY	WIRELESS ACCESS POINT	TR-01-SW-01	05
30			DATA JACK	TR-01-SW-01	30	06	106	CLASSROOM	WIRELESS ACCESS POINT	TR-01-SW-01	06
31	104	FOYER/ADMIN ASSISTANT	DATA JACK	TR-01-SW-01	31	07	106	CLASSROOM	DATA JACK	TR-01-SW-01	07
32			DATA JACK	TR-01-SW-01	32	08			DATA JACK	TR-01-SW-01	08
33	101	CLASSROOM	WIRELESS ACCESS POINT	TR-01-SW-01	33	09	106	CLASSROOM	DATA JACK	TR-01-SW-01	09
34	101	CLASSROOM	DATA JACK	TR-01-SW-01	34	10			DATA JACK	TR-01-SW-01	10
35			DATA JACK	TR-01-SW-01	35	11	132	QUIET STUDY	DATA JACK	TR-01-SW-01	11
36	101	CLASSROOM	DATA JACK	TR-01-SW-01	36	12			DATA JACK	TR-01-SW-01	12
37			DATA JACK	TR-01-SW-01	37	13	132	QUIET STUDY	DATA JACK	TR-01-SW-01	13
38	102	CLASSROOM	DATA JACK	TR-01-SW-01	38	14			DATA JACK	TR-01-SW-01	14
39			DATA JACK	TR-01-SW-01	39	15	133	QUIET STUDY	DATA JACK	TR-01-SW-01	15
40	102	CLASSROOM	WIRELESS ACCESS POINT	TR-01-SW-01	40	16			DATA JACK	TR-01-SW-01	16
41			SPARE	TR-01-SW-01	41	17	133	QUIET STUDY	DATA JACK	TR-01-SW-01	17
42			SPARE	TR-01-SW-01	42	18			DATA JACK	TR-01-SW-01	18
43			SPARE	TR-01-SW-01	43	19	131	WORKROOM/ KITCHENET/ COLLABORATION	DATA JACK	TR-01-SW-01	19
44			SPARE	TR-01-SW-01	44	20			DATA JACK	TR-01-SW-01	20
45			SPARE	TR-01-SW-01	45	21	131	WORKROOM/ KITCHENET/ COLLABORATION	DATA JACK	TR-01-SW-01	21
46			SPARE	TR-01-SW-01	46	22			DATA JACK	TR-01-SW-01	22
47			SPARE	TR-01-SW-01	47	23	131	WORKROOM/ KITCHENET/ COLLABORATION	DATA JACK	TR-01-SW-01	23
48			SPARE	TR-01-SW-01	48	24			DATA JACK	TR-01-SW-01	24

TR-01	
WALL MOUNTED RACK #1 (TYPICAL EQUIPMENT LAYOUT)	
BLANK SPACE	
TR01 LIU 01A	
BLANK SPACE	
HORIZONTAL CABLE MANAGEMENT	
PATCH PANEL TR-01-PP-01	
SWITCH TR01-SW01	
HORIZONTAL CABLE MANAGEMENT	
AV PATCH PANEL	
AV EQUIPMENT	
BLANK SPACE	
AV PATCH PANEL	
AV EQUIPMENT	
AMPLIFIER	
BELL SYSTEM CONTROLLER	
BLANK SPACE	
BLANK SPACE	
BLANK SPACE	
BLANK SPACE	
BLANK SPACE	
PDU A	
PDU B	
BLANK SPACE	
BLANK SPACE	
BLANK SPACE	
BLANK SPACE	
BLANK SPACE	
BLANK SPACE	
BLANK SPACE	
UPS 1A 1.5KVA [4U] APC SMART UPS SRT 300VA RM 208V WITH NETWORK CARD AND SRT 96V 3KVA RM BATTERY PACK 2. CORD AND PLUG CONNECT TO LG-30 PLUG AT CEILING POWER	

PANEL MDP				MAIN BREAKER AMPS: 450				100% BUS AMPS: 600						
VOLTAGE: 240/120 V 1Ø 3W		CIRCUIT BREAKER TYPE:		BOLT-ON		MOUNTING: SURFACE								
ENCLOSURE: NEMA 1		INTERRUPTING CAPACITY:		22 KAIC		COVER TYPE: DOOR-IN-DOOR LOCATION: AS INDICATED ON FLOORPLAN								
BRANCH CIRCUIT BREAKER				CONNECTION	DESCRIPTION		PHASE		DESCRIPTION	CONNECTION	BRANCH CIRCUIT BREAKER			
NOTES	#	AMP	P.	LOAD (VA)			L1	L2		LOAD (VA)	P.	AMP	#	NOTES
	MDP-1	60	2	5280		ROOFTOP UNIT (RTU-1)	14220		PANEL A	8840	2	125	MDP-2	
	MDP-3	--	--	5280		-----		13438	-----	8158	--	--	MDP-4	
	MDP-5	60	2	5280		ROOFTOP UNIT (RTU-2)	12335		PANEL L	7055	2	100	MDP-6	
	MDP-7	--	--	5280		-----		11220	-----	5840	--	--	MDP-8	
	MDP-9	60	2	5280		ROOFTOP UNIT (RTU-3)	5880		WALL HEATER (EH-5)	600	1	20	MDP-10	
	MDP-11	--	--	5280		-----		5880	WALL HEATER (EH-6)	600	1	20	MDP-12	
	MDP-13	60	2	5280		ROOFTOP UNIT (RTU-4)	5400		CEILING EXHAUST FAN (CEF 5, 6)	120	1	20	MDP-14	
	MDP-15	--	--	5280		-----		5880	WALL HEATER (EH-1)	600	1	20	MDP-16	
	MDP-17	60	2	5280		ROOFTOP UNIT (RTU-5)	5880		WALL HEATER (EH-2)	600	1	20	MDP-18	
	MDP-19	--	--	5280		-----		5880	WALL HEATER (EH-3)	600	1	20	MDP-20	
	MDP-21	20	1	220		CEILING EXHAUST FAN (CEF 1,2,3,4)	820		WALL HEATER (EH-4)	600	1	20	MDP-22	
	MDP-23	30	2	2450		SCU-1 CONDENSOR		3050	SPARE	600	1	20	MDP-24	
	MDP-25	--	--	2450		-----	3950		WATER HEATER (WH-1)	1500	2	20	MDP-26	
	MDP-27	30	1			SPARE		1500	-----	1500	--	--	MDP-28	
	MDP-29	20	1			SPARE	765		ELECTRIC RADIANT HEATER (ERH-1)	765	2	20	MDP-30	
	MDP-31	20	1			SPARE		765	-----	765	--	--	MDP-32	
	MDP-33	20	1			SPARE	0		SURGE PROTECTION DEVICE		2	30	MDP-34	
	MDP-35	20	1			SPARE		0	-----		--	--	MDP-36	
PHASE SUBTOTALS (VA)							49250		47613					
PHASE TOTALS (KVA)							49.3		47.6					
PHASE TOTALS @ 120V (AMPS)							410.4		396.8					
NOTES: 1 2 3 4														

PANEL A

VOLTAGE: 240/120 V 1Ø 3W

CIRCUIT BREAKER TYPE:

BOLT-ON

MOUNTING: SURFACE

ENCLOSURE: NEMA 1

INTERRUPTING CAPACITY: 22 KAIC

COVER TYPE: DOOR-IN-DOOR

LOCATION: AS INDICATED ON FLOORPLAN

MLO

BUS AMPS: 125

BRANCH CIRCUIT BREAKER				CONNECTION	DESCRIPTION	PHASE		DESCRIPTION	CONNECTION	BRANCH CIRCUIT BREAKER				
NOTES	#	AMP	P.	LOAD (VA)		L1	L2		LOAD (VA)	P.	AMP	#	NOTES	
	A-1	20	1	500		1580		QUIET STUDY RECEPTACLES	1080	1	20	A-2		
	A-3	20	1	720			1520	REFRIGERATOR RECEPTACLE	800	1	20	A-4		
	A-5	20	1	500		1040		CUSTODIAL/STORAGE RECEPTACLES	540	1	20	A-6		
	A-7	20	2	500			1940	CLASSROOM 1 RECEPTACLES	1440	1	20	A-8		
	A-9	--	--	500		700		SECURITY PANEL	200	1	20	A-10		
I	A-11	20	1	400			1480	PRINCIPAL RECEPTACLES	1080	1	20	A-12		
	A-13	20	1	500		1580		CORRIDOR/FOYER RECEPTACLES	1080	1	20	A-14		
	A-15	20	1	528			1968	CLASSROOM 2 RECEPTACLES	1440	1	20	A-16		
	A-17	20	1	1440		1620		ROOFTOP RECEPTACLE	180	1	20	A-18		
	A-19	20	1	720			1070	STORAGE ROOM RECEPTACLE	350	1	20	A-20		
	A-21	20	1	1500		2220		ELECTRIC WATER COOLER	720	1	20	A-22		
	A-23	20	1	180			180	SPARE		1	20	A-24		
	A-25	20	1	200		200		SPARE		1	20	A-26		
	A-27	20	1				0	SPARE		1	20	A-28		
	A-29	20	1			0		SPARE		1	20	A-30		
A-31	20	1				0	SPARE		1	20	A-32			
A-33	20	1			0		SPARE		1	20	A-34			
A-35	20	1				0	SPARE		1	20	A-36			
A-37	20	1			0		SPARE		1	20	A-38			
A-39	20	1				0	SPARE		1	20	A-40			
PHASE SUBTOTALS (VA)						8940	8158							
PHASE TOTALS (KVA)						8.9	8.2							
PHASE TOTALS @ 120V (AMPS)						74.5	68.0							

NOTES:

1 PROVIDE A BREAKER THAT IS RED IN COLOR.

2

3

4

PANEL L

VOLTAGE:240/120 V 1Ø 3W

CIRCUIT BREAKER TYPE:NEMA 1

ENCLOSURE:

BOLT-ON

INTERRUPTING CAPACITY:22 KAC

MLO

BUS AMPS:125

MOUNTING: SURFACE

COVER TYPE: DOOR-IN-DOOR

LOCATION: AS INDICATED ON FLOORPLAN

BRANCH CIRCUIT BREAKER				CONNECTION	DESCRIPTION	PHASE			DESCRIPTION	CONNECTION		BRANCH CIRCUIT BREAKER				
NOTES	#	AMP	P.	LOAD (VA)		L1		L2		LOAD (VA)	P.	AMP	#	NOTES		
	L-1	20	1	1380	CLASSROOM 101 - CLING CLOUD LIGHTS	1580			FAÇADE FLOOD LIGHTS	200	1	20	L-2			
	L-3	20	1	150	CLASSROOM 101 - DOWN LIGHTS			200	EXTERIOR STEP WALKWAY LIGHTS	50	1	20	L-4			
	L-5	20	1	1280	CLASSROOM 101 - TRACK LIGHTS	1380			LANDSCAPE LIGHTS	100	1	20	L-6			
	L-7	20	1	1380	CLASSROOM 102 - CLING CLOUD LIGHTS			1805	EXTERIOR SOFFIT LIGHTS	425	1	20	L-8			
	L-9	20	1	150	CLASSROOM 102 - DOWN LIGHTS	1010			PRINCIPAL, WORKROOM, QUIET STUDY LIGHTS	860	1	20	L-10			
	L-11	20	1	1280	CLASSROOM 102 - TRACK LIGHTS			2395	HALL, RESTROOMS, STORAGE LIGHTS	1115	1	20	L-12			
	L-13	20	1	425	CLASSROOM 106 - CLING CLOUD LIGHTS	1805			FOYER, ADMIN, ASSISTANT LIGHTS	1380	1	20	L-14			
	L-15	20	1	1040	CLASSROOM 106 - COVE LIGHTS			1540	ADMIN, ASSISTANT DESK LIGHTS	500	1	20	L-16			
	L-17	20	1	1280	CLASSROOM 106 - TRACK LIGHTS	1280			SPARE		1	20	L-18			
	L-19	20	1		SPARE			0	SPARE		1	20	L-20			
	L-21	20	1		SPARE	0			SPARE		1	20	L-22			
	L-23	20	1		SPARE			0	SPARE		1	20	L-24			
PHASE SUBTOTALS (VA)						7055		5940								
PHASE TOTALS (KVA)						7.1		5.9								
PHASE TOTALS @ 120V (AMPS)						58.8		49.5								

NOTES:
1
2
3
4

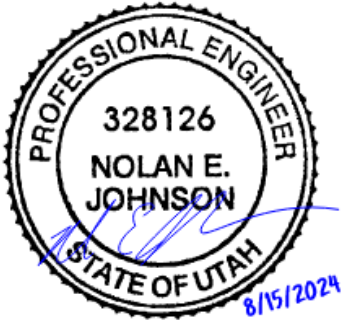
9/10/2024 4:12:13 PM

0' 1' 2' 3' 4' 5' 6'

A B C D E

	FIRE ALARM AND DETECTION CONTROL MATRIX SYSTEM OUTPUTS													
	FACP ANNUNCIATION					NOTIFICATION	FIRE SAFETY CONTROL				REPORTING VIA DIALOUT			
	ACTUATE COMMON ALARM INDICATOR	ACTUATE COMMON SUPERVISORY INDICATOR	ACTUATE COMMON TROUBLE INDICATOR	ACTUATE AUDIBLE SIGNAL	ACTUATE DISPLAY		ACTUATE 1ST FLOOR EVACUATION APPLIANCES	RELEASE MAGNETIC DOOR HOLDERS	SHUTDOWN RELATED AIR HANDLER	SHUTDOWN ALL AIR HANDLERS	CLOSE FIRE / SMOKE DAMPERS	REPORT COMMON ALARM	REPORT COMMON SUPERVISORY	REPORT COMMON TROUBLE
SYSTEM INPUTS														
ALARM INITIATING DEVICES														
CARBON MONOXIDE DETECTOR(S)	X			X	X	X	X	X				X		
BUILDING SMOKE DETECTOR(S)	X			X	X	X	X		X	X	X	X		
BUILDING HEAT DETECTOR(S)	X			X	X	X	X		X	X	X			
MANUAL PULL STATION(S)	X			X	X	X	X		X	X	X	X		
FIRE SPRINKLER FLOW SWITCH(ES)	X			X	X	X	X		X	X	X	X		
SUPERVISORY INITIATING DEVICES														
FIRE SPRINKLER TAMPER SWITCH(ES)		X		X	X								X	
HVAC DUCT SMOKE DETECTOR(S)	X	X		X	X			X			X		X	
SELF-MONITORING FEATURE														
COMMON FAILURE			X	X	X									X
COMMUNICATION FAILURE			X	X	X									X
WIRING/DEVICE TROUBLE			X	X	X									X

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.2024



△ DATE REVISION

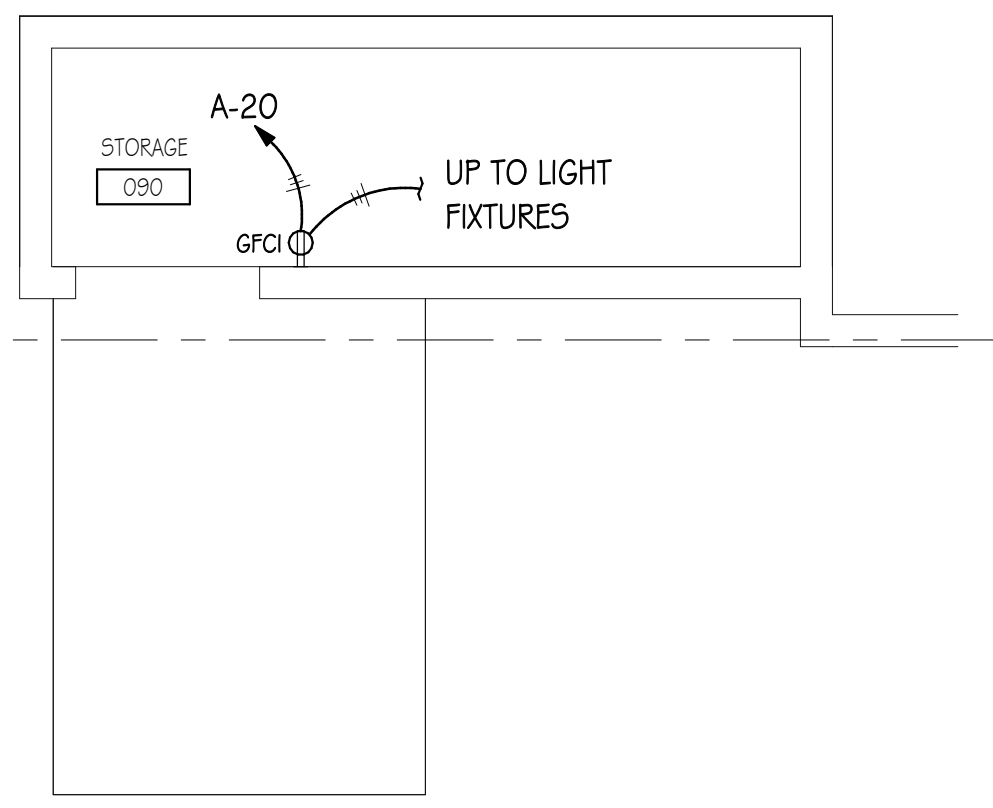
PROJECT NUMBER 24003

ELECTRICAL
SCHEDULES

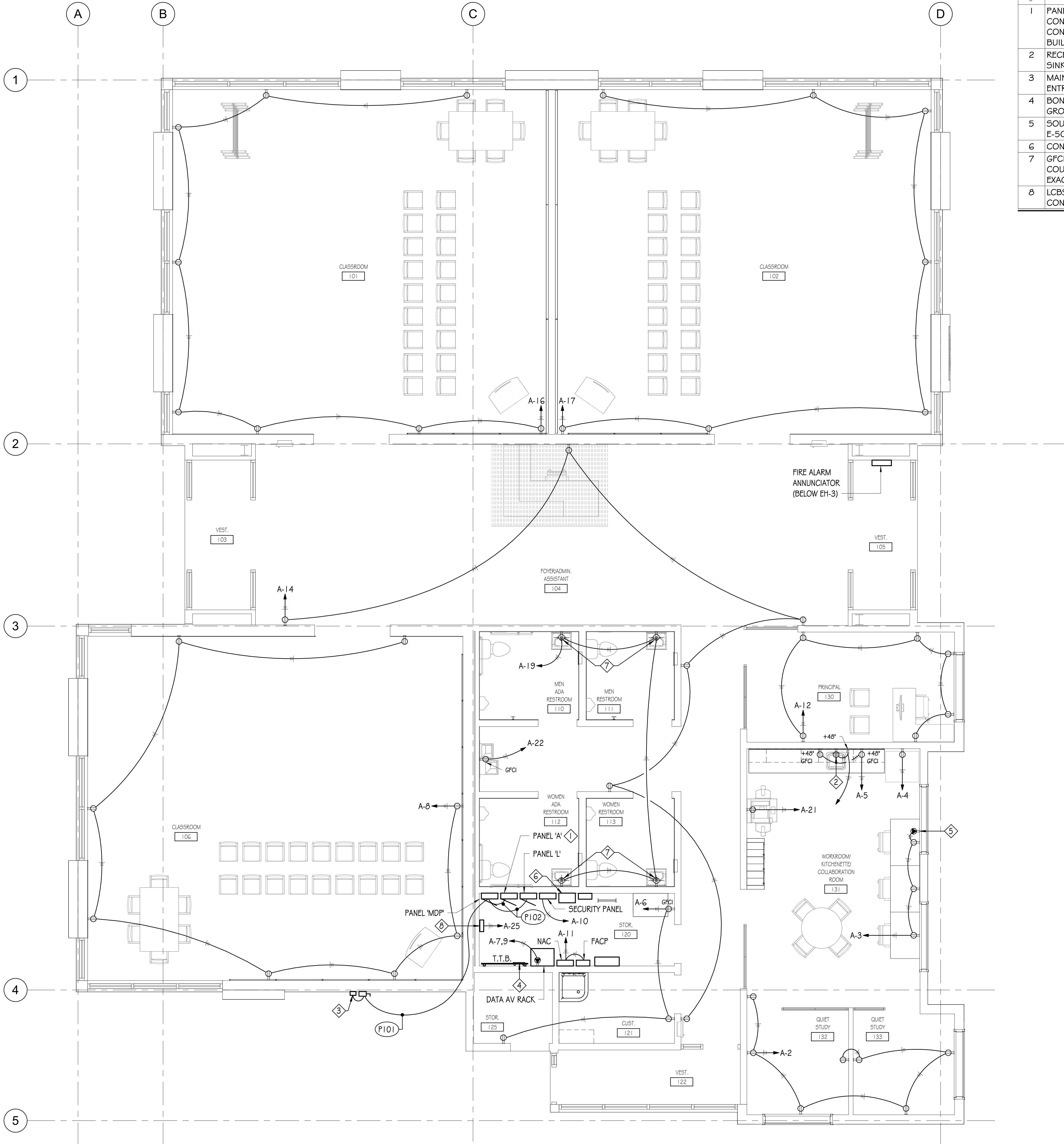


9/10/2024 4:12:16 PM

2 STORAGE ROOM POWER PLAN
EP101 SCALE: 1/4" = 1'-0"

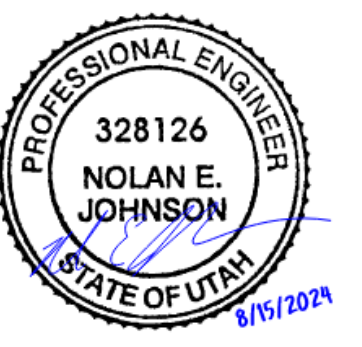


1 LEVEL 1 POWER PLAN
EP101 SCALE: 1/4" = 1'-0"



NOTE #	DESCRIPTION
1	PANEL TO BE TURNED ON AND OFF VIA CONTACTOR LOCATED ABOVE PANEL. CONTACTOR TO BE CONTROLLED BY THE BUILDING CONTROL SYSTEM.
2	RECEPTACLE LOCATED BENEATH COUNTER FOR SINK DISPOSAL.
3	MAIN ELECTRICAL METER. COORDINATE SERVICE ENTRANCE WITH ELECTRICAL UTILITY.
4	BOND GROUND BAR WITH #6 B.C. TO BUILDING GROUNDING SYSTEM.
5	SOUND SYSTEM USER INTERFACE. SEE DETAIL 1 / E-503.
6	CONTROL CABINET FOR SKYFOLD MOTOR.
7	GFCI RECEPTACLE LOCATED UNDERNEATH COUNTER FOR FAUCET POWER. COORDINATE EXACT HEIGHT WITH ARCHITECT.
8	LCBS GATEWAY. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION.

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.2024

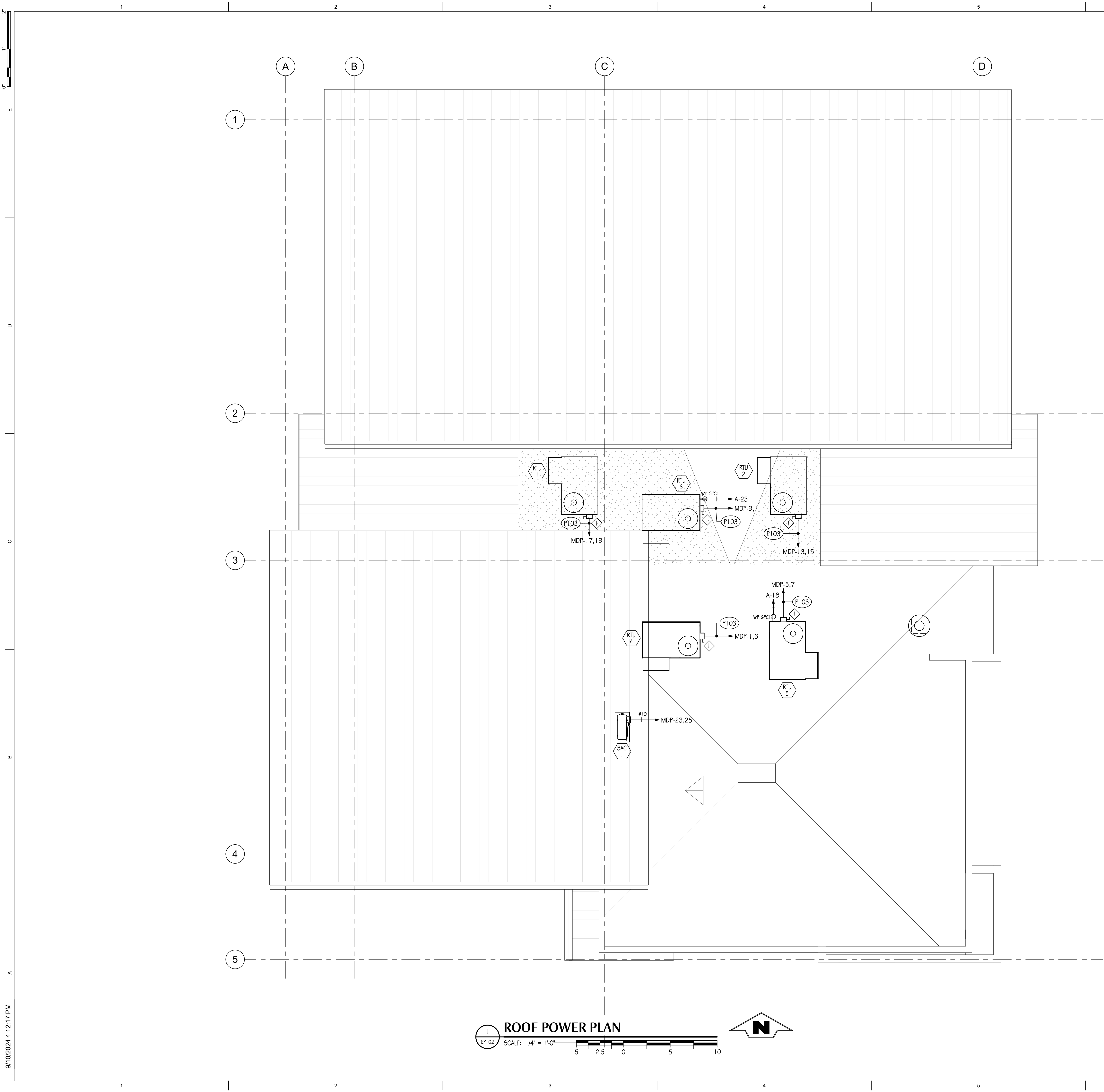


DATE REVISION

PROJECT NUMBER 24003

LEVEL 1
POWER
PLAN

EP101

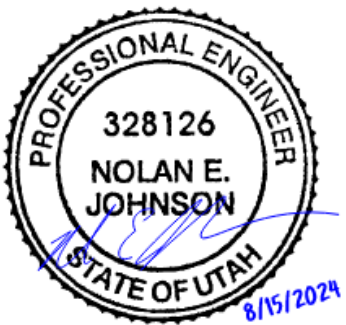


DRAWING NOTES	
NOTE #	DESCRIPTION
1	CONNECT TO INTEGRAL DISCONNECT PROVIDED WITH THE UNIT.



FFKR ARCHITECTS
730 Pacific Avenue • Salt Lake City, Utah 84104
O 801.521.6186 • **FFKR.COM**

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.2024

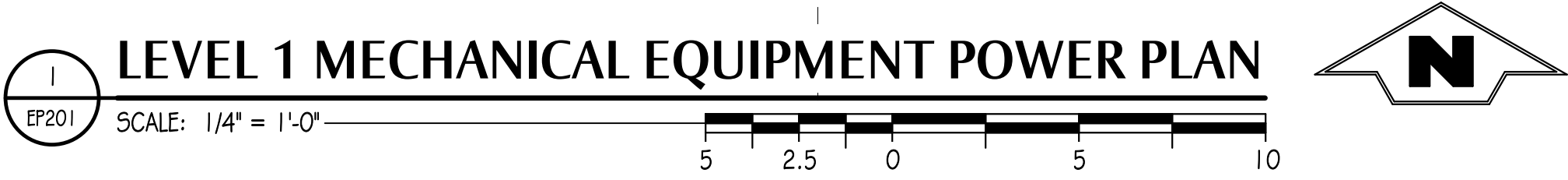


△	DATE	REVISION
---	------	----------

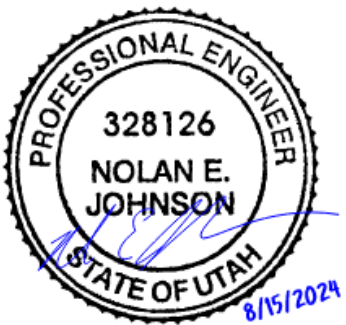
PROJECT NUMBER 24003

ROOF POWER PLAN

EP102



Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.2024



△	DATE	REVISION
---	------	----------

PROJECT NUMBER 24003

LEVEL 1 MECHANICAL POWER PLAN

EP201

9/10/2024 4:12:23 PM

A B C D E

1

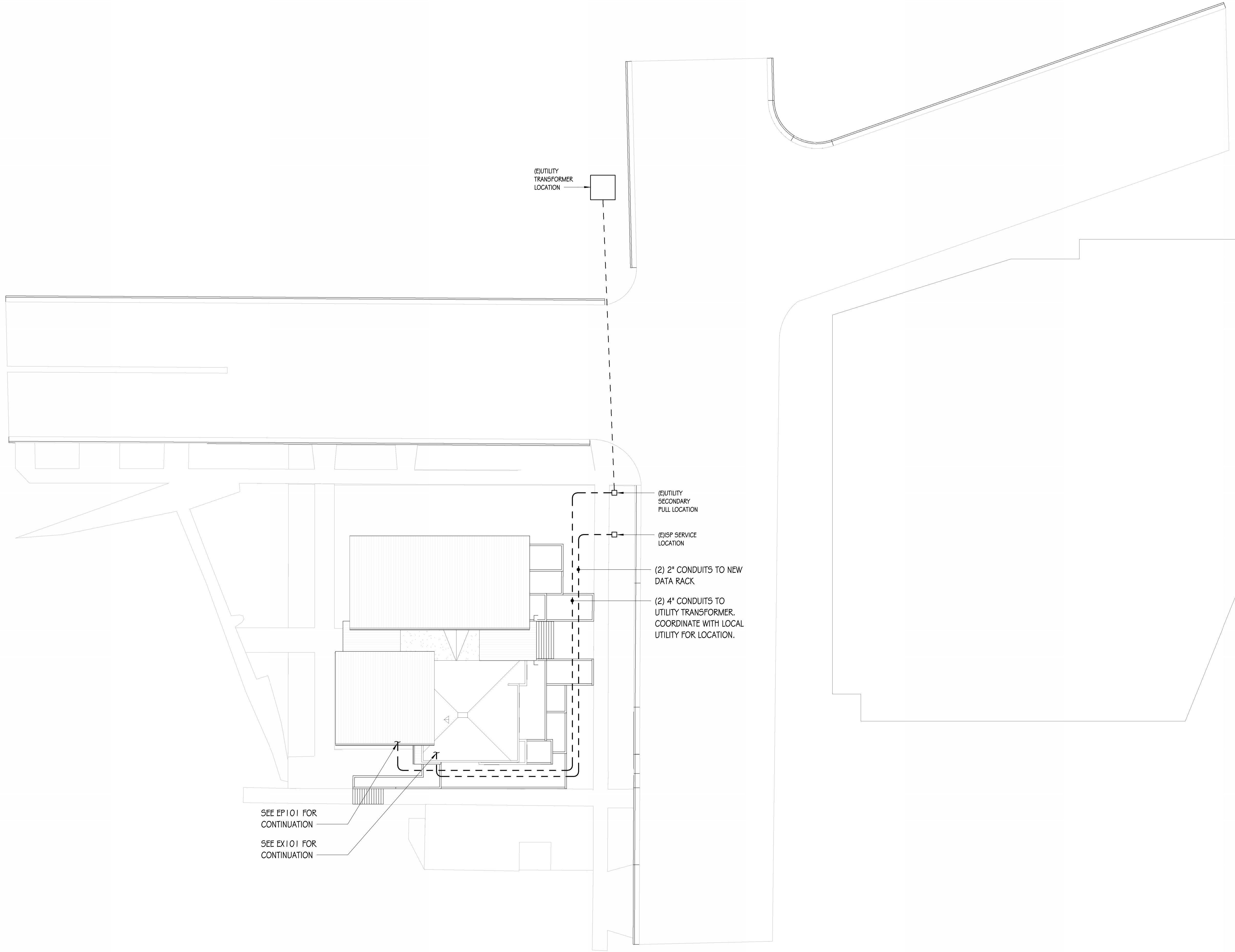
2

3

4

5

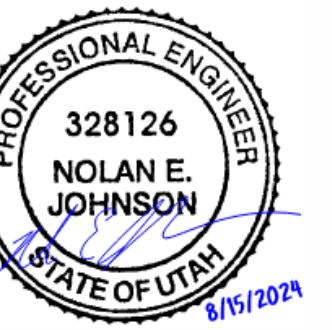
6



SITE ELECTRICAL PLAN

SCALE: 1" = 20'-0"

20 10 0 20 40



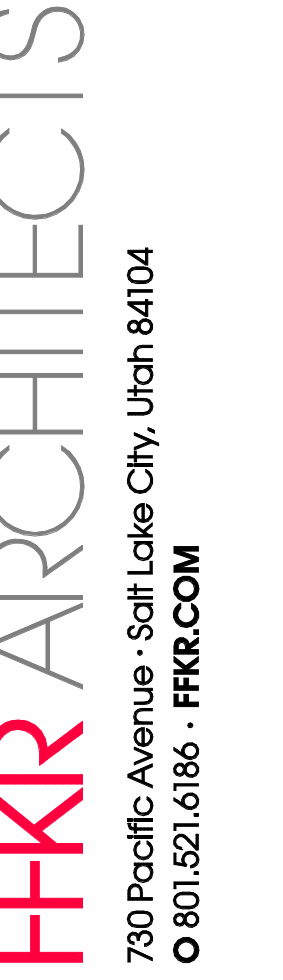
△ DATE REVISION

PROJECT NUMBER 24003

SITE
ELECTRICAL
PLAN

ES101

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.2024



730 Pacific Avenue · Salt Lake City, Utah 84104
O 801.521.6186 · FFKR.COM

LIGHTING FIXTURE SCHEDULE															
TYPE	BASIS OF DESIGN			DESCRIPTION	SOURCE					ELECTRICAL			ALTERNATES		NOTES
	MFR	MODEL			LUMENS	CCT	CRI	DIMMING	VOLTS	WATTS	MFR	MODEL			
E1	LUMENPULSE	LFP-CH-UL-120-48-17-40K-60x10-CL-DIM-WMH6-BRZ		48" LINEAR EXTERIOR WALL GRAZIER, 10x60" WALL GRAZING OPTIC, FIELD COORDINATE LANDSCAPE SIDE.	6422 lm	4000 K	80+	0-10V	120	68	ECOSENSE SUNLED	TROV SERIES LINEO SERIES		(none)	
E2	LUMENPULSE	LBS-120-40K-FL-BRZ-DIM-SK-UL-BK		STAKE MOUNT LANDSCAPE FLOOD LIGHT, FIELD COORDINATE CABLE LENGTH, CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING.	1163 lm	4000 K	80+	0-10V	120	16	ECOSENSE SUNLED	RISE SERIES VERSA SERIES		2	
E3	BEGA	24064		EXTERIOR STEP LIGHT	500 lm	4000 K	80+	0-10V	120	9	STREAM VISTA	STREAM SERIES 1505 SERIES		(none)	
F1	USA1	B4SDF-12C3-40KS-90-S-FT-UNV-D6E		4" SQUARE DOWNLIGHT	1000 lm	4000 K	80+	0-10V	120	12				(none)	
F2	USA1	B4RWF-24C3-40KS-W1D1-F-FT-UNV-D6E		4" SQUARE DOWNLIGHT, WALL WASH OPTIC	2000 lm	4000 K	80+	0-10V	120	24	ELITE	HH4 SERIES		(none)	
F3	USA1	B4RDF-24C3-40KS-S-FT-UNV-D6E		4" SQUARE DOWNLIGHT, NARROW OPTIC	2000 lm	4000 K	80+	0-10V	120	24	ELITE	HH4 SERIES		(none)	
F4	PRESCOLITE	LTR-6SQD-M-10L-40K-8-XW-DM1, LFR-SQD-T-SS		6" SQUARE DOWNLIGHT, EXTRA WIDE DISTRIBUTION, SEMI-SPECULAR FINISH WITH MATCHING FLANGE.	1000 lm	4000 K	80+	0-10V	120	12	ELITE PORTFOLIO	HH8SO SERIES LDSQC SERIES		(none)	
F5	PRESCOLITE	LTR-6SQD-M-15L-40K-8-XW-DM1, LFR-SQD-T-SS		6" SQUARE DOWNLIGHT, EXTRA WIDE DISTRIBUTION, SEMI-SPECULAR FINISH WITH MATCHING FLANGE.	1500 lm	4000 K	80+	0-10V	120	19	ELITE PORTFOLIO	HH8SO SERIES LDSQC SERIES		(none)	
F6	COLUMBIA	MP54-40HL-FW-ED-U		48" STRIP LIGHT	5000 lm	4000 K	80+	0-10V	120	54	ELITE METALUX	4-0EC SERIES SLSTP SERIES		(none)	
F7	USA1	B3SDP-15X3-40KS-65-S-**-FT-UNV-D6E-*		3" SQUARE DOWNLIGHT FOR PRE-CUT ARMSTRONG CEILING TILES. COORDINATE CEILING TILE DETAILS AND FINISHES WITH ARCHITECT	1212 lm	4000 K	80+	0-10V	120	15				(none)	
F8	JLC-TECH	TBLS-MN-4-**-DW-**-W		48" LINEAR LIGHT FIXTURE FOR MOUNTING ON 1516" TBAR GRID. COORDINATE CEILING DETAILS WITH ARCHITECT.	2128 lm	4000 K	80+	0-10V	120	32	ELITE TGS	4-LB SERIES TSPEC SERIES		(none)	
F9	USA1	B4RDF-24C3-40KS-80-S-FT-UNV-D6E		4" SQUARE DOWNLIGHT	1487 lm	4000 K	80+	0-10V	120	24	ELITE	HH4 SERIES		(none)	
S1	INSIGHT	PCM-13-40K-120-DM-12-120-DIM-MG		12" SMALL PROFILE COVE LIGHT	1185 lm	4000 K	80+	0-10V	120	13	ELITE I/O LED (COOPER)	4-1SC1 SERIES COVIO SERIES		(none)	
S2	INSIGHT	PCM-13-40K-120-DM-48-120-DIM-MG		48" SMALL PROFILE COVE LIGHT	4741 lm	4000 K	80+	0-10V	120	52	ELITE I/O LED (COOPER)	4-1SC1 SERIES COVIO SERIES		(none)	
S3	PRUDENTIAL	BPRO3-PER-REG3-HO-7-TMW-MG2-LP-SC-UNV-XV3-DM01		PERIMETER WALL GRAZING LIGHT	4000 K	80+	0-10V	120	41	XAL	BASO 2.5 PERIMETER SERIES		(none)		
S4	PRUDENTIAL	BPRO3-PER-REG3-HO-8-TMW-MG2-LP-SC-UNV-XV3-DM01		PERIMETER WALL GRAZING LIGHT	4000 K	80+	0-10V	120	41	XAL	BASO 2.5 PERIMETER SERIES		(none)		
S5		VL1-E1-563-30-AL-OF-W1E1-UL		UNDER-CABINET LIGHT, STANDARD FINISH SELECTED BY ARCHITECT. COORDINATE EXACT RUN LENGTH WITH CABINET SHOP DRAWINGS. PROVIDE ALL COMPONENTS NECESSARY FOR A FULL INSTALLATION.	4000 K	80+			120	ALLOY QTL	AL-01, PRIMLINE SERIES SD-5W24x6.0, WIDE EXTRUSION SERIES		1		
S6	AFX/BROCK			24" VANITY, STANDARD FINISH SELECTED BY ARCHITECT.	4000 K	80+			120	25	MAXIM	52032BK		(none)	
S7	XAL	PANOS3-**-**-OP-40K-C80-UNV-010V-0450LF-ST-*		RECESSED LINEAR LIGHT FOR INTEGRATED CEILING/WALL ASSEMBLY (ARMSTRONG WOODWORKS). EXACT QUANTITIES, LAYOUT, AND INSTALLATION DETAILS TO BE COORDINATED IN SHOP DRAWING REVIEW.	4000 K	80+	0-10V	120						(none)	
S8	KELVIX	UN1-WL1-500-30K-24V		LED TAPE LIGHT TO BE INSTALLED IN RECEPTION DESK RECESS. PROVIDE ALL PARTS AND ACCESSORIES FOR A FULL INSTALLATION (DRIVERS, MOUNTING HARDWARE, DIMMER, ETC).	3000 K				120	4W/R	ALLOY	AL-01, PRIMLINE SERIES		3	
S9	KICHLER	52529BK		DECORATIVE PENDANT. COORDINATE OPTIONS WITH ARCHITECT / INTERIOR DESIGNER PRIOR TO ORDERING.	4000 K				120					(none)	
T1	XAL	MOVE IT 1.2		RECESSED TRACK LIGHT SYSTEM					120	Up to 330W				4	
T1A	XAL	050-05-31-6-F		ADJUSTABLE PENDANT TRACK HEAD, STANDARD FINISH SELECTED BY ARCHITECT.	4000 K	80+			120	14				4	
T1B	XAL	050-0131-6-F		SPOT LIGHT TRACK INSERT, STANDARD FINISH SELECTED BY ARCHITECT.	4000 K	80+			120	11				4	
T1C	XAL	050-0214-4000K-1-8H		4" LINEAR TRACK INSERT WITH DIFFUSED OPAL LENS. PROVIDE AS 4000K.	4000 K	80+			120	22				4	
T1D	XAL	050-018-4000K-1-8H		6" LINEAR TRACK INSERT WITH DIFFUSED OPAL LENS. PROVIDE AS 4000K.	4000 K	80+			120	44				4	
T1E	XAL	050-1212-4000K-3B		2" LINEAR TRACK INSERT WITH BATWING DISTRIBUTION. PROVIDE AS 4000K.	4000 K	80+			120	4				4	
T1F	XAL	050-1214-4000K-8B		4" LINEAR TRACK INSERT WITH BATWING DISTRIBUTION. PROVIDE AS 4000K.	4000 K	80+			120	22				4	
X1	DUAL LITE	LE-C-S-G-E		CEILING MOUNTED EXIT SIGN, SINGLE FACE WITH GREEN LETTERS. PROVIDE ARROWS AS PER LIGHTING PLANS.					120		SUNLE SURE-LITES	ELX-606 SERIES EUS70G		(none)	
X2	MULE	REARM-WSDT		RECESSED EMERGENCY EGRESS LIGHT FIXTURE							SIGNITY SURE-LITES	CVL SERIES SELR60SD		(none)	

LIGHTING FIXTURE SCHEDULE NOTES	
1	SEE DETAIL 1/E1502
2	INSTALL JUNCTION BOX FOR HOME RUN ON BUILDING WHERE IT WILL NOT BE VISIBLE BY OCCUPANTS OR PROVIDE FLEXIBLE CONNECT TO FIXTURES WITH METALLIC FLEXIBLE CABLE (BELDEN TECK90 OR EQUAL), PROVIDE ENOUGH SLACK CABLE TO ALLOW FOR ADJUSTMENT OF EACH FIXTURE BY -6".
3	SPECIFIC INSTALLATION DETAILS TO BE COORDINATED DURING SHOP DRAWING REVIEW.
4	COORDINATE EXACT CONFIGURATION OF TRACK SYSTEM WITH ARCHITECT AND OWNER.
5	COORDINATE ATTIC STOCK WITH OWNER.

LIGHTING LEGEND	
SYMBOL	DESCRIPTION
	SURFACE MOUNTED LIGHT FIXTURE
	LAY-IN CEILING LIGHT FIXTURE
	DIAGONAL HATCH DENOTES EMERGENCY LIGHT FIXTURE EMERGENCY CIRCUIT AS INDICATED.
	PURE SINE WAVE INVERTER FOR EMERGENCY EGRESS LIGHTING MOUNTED ADJACENT TO LIGHT FIXTURE. BODINE - ELI EMERGENSEE - LPS EVENLITE - PWII ISOLITE - E3MINI OR PRIOR APPROVED EQUAL
NIGHT / NL	UNSWITCHED NIGHT LIGHT
	WALL MOUNTED LIGHT FIXTURE
	SURFACE MOUNTED STRIP LIGHT
	RECESSED DOWN LIGHT. CHEVRON INDICATES WALL WALL OPTIC AIMING ORIENTATION.
	POLE MOUNTED, AREA LIGHT FIXTURE
	BATTERY BACK-UP EMERGENCY FLOOD LIGHT FIXTURE
	COMBINATION EXIT SIGN, EGRESS FLOOD FIXTURE
	EXIT SIGN (WALL MOUNTED / CEILING MOUNTED). HATCH INDICATES LIT FACE. ARROW INDICATES EXIT DIRECTION.
F#(E)	LIGHTING FIXTURE TYPE - SEE FIXTURE SCHEDULE. "E" DENOTES EMERGENCY FIXTURE
	CEILING MOUNTED DUAL-TECHNOLOGY MOTION SENSOR
	WALL MOUNTED DUAL-TECHNOLOGY MOTION SENSOR
	CEILING MOUNTED DAYLIGHT SENSOR
	PHOTOCELL
S	LIGHT SWITCH
SUBSCRIPT DEFINITIONS:	
(a)	LOWER CASE LETTER = CONTROL GROUP
3	3 WAY SWITCH
4	4 WAY SWITCH
D	DIMMER SWITCH (0-10V UON)
M	DUAL-TECHNOLOGY OCCUPANCY SENSOR
MST	MASTER SWITCH
P	Pilot Light
LV	LOW VOLTAGE SWITCH
WS	WIRELESS SWITCH
K	KEY OPERATED SWITCH
TP	GRAPHICAL TOUCH PAD CONTROL STATION
C	COLOR CONTROL SWITCH

ABBREVIATIONS

CONTROL PROTOCOLS:		GENERAL:	
LE	LEADING EDGE	UNCL	UNLESS OTHERWISE NOTED
TE	TRAILING EDGE	OF	OWNER FURNISHED
FC	FUNCTIONAL CONTROL	FCFI	CONTRACTOR INSTALLED
RPC	REVERSE PHASE CONTROL		CONTRACTOR FURNISHED
UPC	UNIVERSAL PHASE CONTROL		CONTRACTOR INSTALLED
	(PULSE ADAPTIVE)	OTS	OFF-THE-SHELF
LE3	3-WIRE PHASE CONTROL:	LOP	LIGHTING CONTROL PANEL
	SWITCHED HOT LEADING	RP	RELAY PANEL
	EDGE (LE), NEUTRAL	ED	EXISTING
10V	10 VOLT	MF	MANUFACTURER
INT	INTER-INTERP	NECC	NATIONAL ELECTRICAL CODE
DALI	DIGITAL ADDRESSABLE		INTERNATIONAL ENERGY
DMX	DIMMER		CONSERVATION CODE
DMX	DIGITAL MULTIPLEX (DMX512)	IES	ILLUMINATING ENGINEERING
REM	REMOTE DEVICE	SOCIETY	
NTS	NOT TO SCALE	OC	ON CENTER
ARC	ARCHITECTURE FOR	NC	NOT IN CONTRACT
SWC	CONTROL NETWORKS		ON CENTER
SWC	SWITCHED CONTROL		ABOVE FINISHED FLOOR
PB3	PULSE WIDTH MODULATION	PNL	PANEL
ZMZ	PULSE WIDTH MODULATION	TYP	TYPICAL
NC	NOT CONTROLLED	V	VOLTS
NL	NIGHT LIGHT	W	WATTS
BT	BLUETOOTH	A	AMPS

LIGHTING CONTROL MATRIX																							
SPACE TYPE	IECC 2021												USER CONTROL			OTHER					PROGRAMMING NOTES		
	N1A	N1B	N2	N3	N4	NSA	NSB	N6	N7	N8	N9	N10	N11	N12	N13	N14	N15	N16	N17	N18		N19	N20
ADA RESTROOM																							
CLASSROOM																							
CUST.																							
ELEC.																							
FOYER / ADMIN. ASSISTANT																							
PRINCIPAL																							
QUIET STUDY																							
RESTROOM																							
STOR.																							
VEST.																							
WORKROOM / KITCHENETTE / COLLABORATION ROOM																							

LIGHTING CONTROL MATRIX NOTES

N1A	MANUAL ON, AUTOMATIC OFF AFTER 20 MINUTES OF VACANCY USING A 5 SECOND FADE.
N1B	AUTOMATIC ON, AUTOMATIC OFF AFTER 20 MINUTES OF VACANCY USING A 5 SECOND FADE.
N2	MULTI-ZONE OCCUPANCY.
N3	AUTOMATICALLY REDUCE LIGHTING POWER TO 50% AFTER 20 MINUTES OF VACANCY.
N4	LIGHTING CONTROLS ARE ENABLED DURING NORMAL HOURS OF OPERATION (PER FACILITY MANAGER). DURING NON-NORMAL HOURS, LIGHTING IS TURNED OFF AUTOMATICALLY FOLLOWING A WARNING BLINK. AFTER HOURS LIGHTING MAY BE OVERRIDDEN TO ON MANUALLY (2 HOUR MAX), OR AUTOMATICALLY VIA OCCUPANCY SENSOR WHERE SHOWN.
N5A	CONTROLS FOR MANUAL ADJUSTMENT OF LIGHTING LEVEL (UP/DOWN).
N5B	MULTI-BUTTON CONTROL STATION WITH PROVISION FOR ON, OFF, RAISE, LOWER CONTROL.
N6	WHEN VACUANCY DETECTED, LIGHTING IS MORE THAN 150% OF BASE LUMINANCE, LIGHTING POWER SHALL BE REDUCED BY 65% OVER 60 SECONDS. WHEN DAYLIGHT ILLUMINANCE IS MORE THAN 200% OF BASE LUMINANCE, LIGHTING POWER SHALL FADE TO OFF OVER 60 SECONDS. SEE LIGHTING PLANS FOR PRIMARY AND SECONDARY DAYLIGHT ZONES. ALLS LIGHTING WITHIN DAYLIGHTING ZONES SHALL BE COMMISSIONED AT NIGHT, WITH NO DAYLIGHT CONTRIBUTION. IN ORDER TO ESTABLISH PLANS BASED LUMINANCE.
N7	MANUAL ON/OFF DEVICE LOCATED WITHIN THE AREAS CONTROL.
N8	LUMINAIRE LEVEL LIGHTING CONTROLS TO REDUCE LIGHTING POWER BY 50% AFTER 15 MINUTES OF NO ACTIVITY DETECTED. FIXTURES TO BE CONTROLLED BETWEEN 12PM AND 6AM MINIMUM.
N9	30 MINUTES AFTER CIVIL DAWN, LIGHTING SHALL TURN OFF. AT 30 MINUTES AFTER CIVIL DUSK, LIGHTING SHALL BE TURNED ON.
N10	LUMINAIRE LEVEL LIGHTING CONTROLS TO REDUCE LIGHTING POWER BY 30% AFTER 20 MINUTES OF NO ACTIVITY DETECTED.
N11	FOR AREAS WHERE LIGHTING FOR EYE ADAPTATION IS REQUIRED, TIME SCHEDULE TO REDUCE LIGHTING POWER BY 50% FROM CIVIL DAWN TO CIVIL DUSK.
N12	RECEPTACLE CONTROL FOR TABLE LAMPS.
N13	ADJUST THE MAXIMUM ALLOWED ILLUMINANCE TO BE NO MORE THAN 10% ABOVE THE DESIGN ILLUMINANCE AS MEASURED AT THE TASK. RECORD THE NEW MAXIMUM SETPOINT.
N14	MULTI-SCENE CONTROL STATION WITH APPROPRIATELY LABELED BUTTONS.
N15	MANUAL COLOR CONTROL DEVICE FOR RGB, RGBW, TUNABLE WHITE FIXTURES.
N16	DURING A DEMAND-RESPONSE EVENT, THE LIGHTING POWER SHALL BE REDUCED BY 15% AND SHALL NOT BE ALLOWED TO EXCEED THAT VALUE DURING THE EVENT. AFTER THE DEMAND-RESPONSE EVENT, THE LIGHTING SHALL RETURN TO THE LEVEL PRECEDING THE EVENT.
N17	IF THE GENERAL LIGHTING LUMINAIRES ARE USED TO PROVIDE THE CODE-REQUIRED EMERGENCY ILLUMINATION, THEN MEANS SHALL BE PROVIDED (E.G. VIA UL924 RELAY) TO CAUSE THE DESIGNATED EMERGENCY LUMINAIRES TO GO TO FULL LIGHT OUTPUT UPON LOSS OF GENERAL LIGHTING POWER IN THE AREA.
N18	PROVIDE MOMENTARY CONTACT CLOSURE FROM FACP TO FORCE ALL LIGHTING IN AREA TO 100% DURING ALARM EVENT. AUTOMATICALLY RESTORE LIGHTING TO NORMAL WHEN EVENT HAS CLEARED.
N19	UTILIZE PARTITION SENSOR(S) TO SIGNAL THE STATUS OF PARTITIONS. IF PARTITIONS ARE CLOSED, EACH SPACE IS TO BE CONTROLLED INDEPENDENTLY. IF PARTITIONS ARE OPEN, ALL SPACES TO BE CONTROLLED TOGETHER.
N20	UTILIZE DUAL RELAY OCCUPANCY / VACANCY SENSOR(S) THAT CAN OPERATE IN A "BATHROOM MODE" WHICH KEEPS THE SECOND RELAY (HVAC) ON FOR AN ADDITIONAL 8 MINUTES AFTER THE FIRST RELAY (LIGHTS) HAS BEEN TURNED OFF.
N21	SLIDE DIMMER FOR MANUAL SETPOINT ADJUSTMENT LOCATED PER LIGHTING PLANS.





RELAY CONTROL PANEL 'RPL'				
RELAY	CIRCUIT	DESCRIPTION	CONTROL TYPE	NOTES
1	L-2	FAÇADE FLOOD LIGHTS	ASTRONOMICAL CLOCK, 0-10V DIMMING MODULE	
2	L-4	EXTERIOR WALKWAY LIGHTS	ASTRONOMICAL CLOCK	
3	L-6	LANDSCAPE LIGHTS	ASTRONOMICAL CLOCK	
4	L-8	EXTERIOR SOFFIT LIGHTS	ASTRONOMICAL CLOCK	
5	L-1	CLASSROOM 101 CLNG CLOUD LIGHTS	LOCAL CTRL. STATION, MASTER	
6	L-1	CLASSROOM 101 COVE LIGHTS	LOCAL CTRL. STATION, MASTER, 0-10V DIMMING MODULE	
7	L-3	CLASSROOM 101 DOWN LIGHTS	LOCAL CTRL. STATION, MASTER	
8	L-5	CLASSROOM 101 TRACK LIGHTS	LOCAL CTRL. STATION, MASTER	
9	L-7	CLASSROOM 102 CLNG CLOUD LIGHTS	LOCAL CTRL. STATION, MASTER	
10	L-7	CLASSROOM 102 COVE LIGHTS	LOCAL CTRL. STATION, MASTER, 0-10V DIMMING MODULE	
11	L-9	CLASSROOM 102 DOWN LIGHTS	LOCAL CTRL. STATION, MASTER	
12	L-11	CLASSROOM 102 TRACK LIGHTS	LOCAL CTRL. STATION, MASTER	
13	L-13	CLASSROOM 106 CLNG CLOUD LIGHTS	LOCAL CTRL. STATION, MASTER	
14	L-15	CLASSROOM 106 COVE LIGHTS	LOCAL CTRL. STATION, MASTER, 0-10V DIMMING MODULE	
15	L-17	CLASSROOM 106 TRACK LIGHTS	LOCAL CTRL. STATION, MASTER	
16	L-10	PRINCIPAL OFFICE LIGHTS	OCCUPANCY SENSOR	
17	L-10	WORKROOM LIGHTS	OCCUPANCY SENSOR	
18	L-10	QUIET STUDY LIGHTS 132	OCCUPANCY SENSOR, 0-10V DIMMING MODULE	
19	L-10	QUIET STUDY LIGHTS 133	OCCUPANCY SENSOR, 0-10V DIMMING MODULE	
20	L-12	HALL LIGHTS	SCHEDULE, MASTER	
21	L-14	FOYER, ADMIN ASSISTANT LIGHTS	SCHEDULE, MASTER	
22	L-16	ADMIN ASSISTANT WOOD SLAT LIGHTS	SCHEDULE, MASTER, 0-10V DIMMING MODULE	
23	L-16	ADMIN ASSISTANT DESK LIGHTS	SCHEDULE, MASTER	
24				

NOTES:

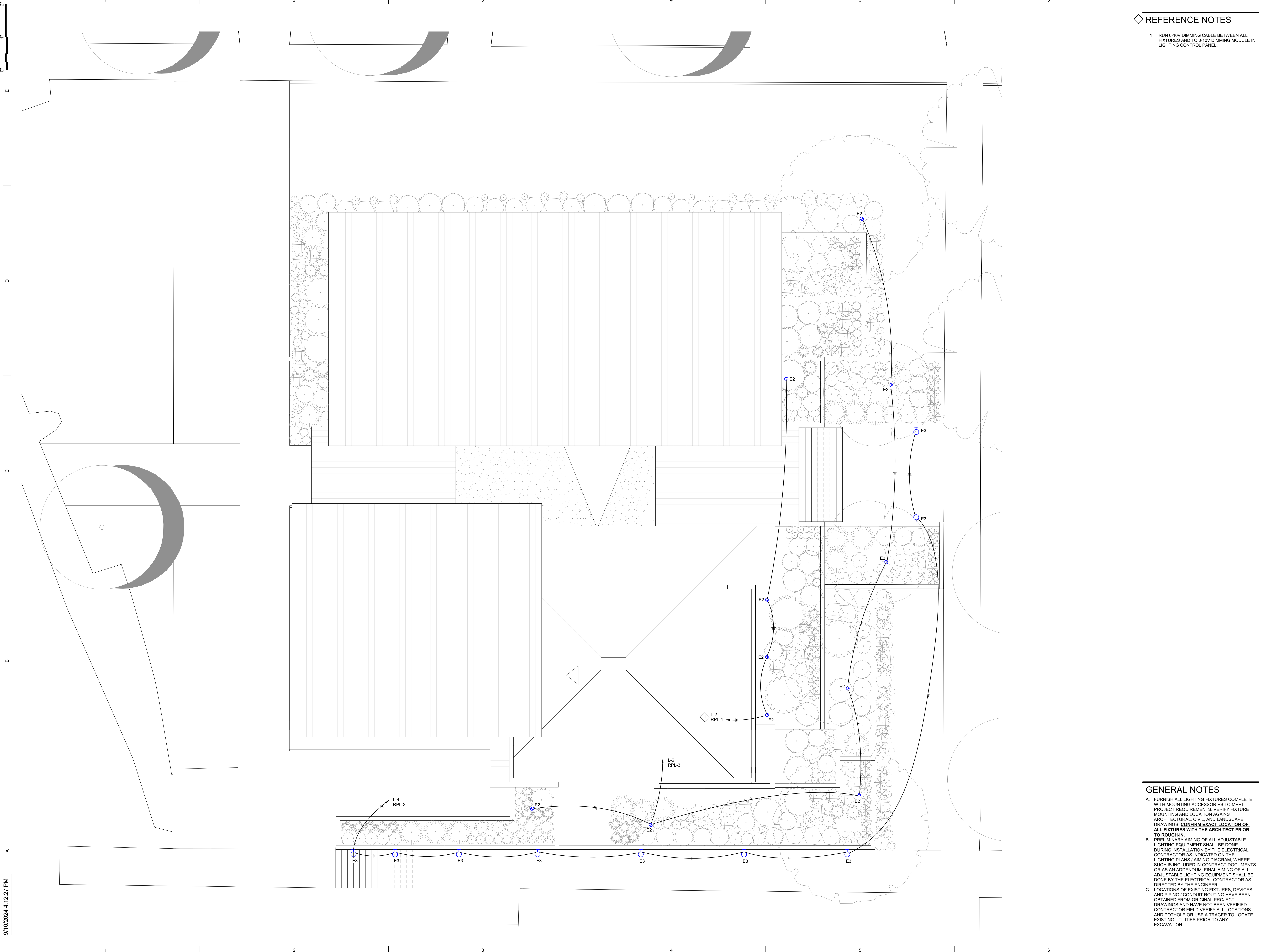
A-

B-

LINE TYPES & COLORS

	<u>NEW LIGHT FIXTURE</u> SHADING INDICATES EMERGENCY FIXTURE
	<u>RETROFIT LIGHT FIXTURE</u> SHADING INDICATES EMERGENCY FIXTURE
	<u>DECORATIVE LIGHT FIXTURE</u> SPECIFIED BY ARCHITECT FOR LAMPING SCHEDULE FOR ELECTRICAL REQUIREMENTS
	<u>EXISTING LIGHT FIXTURE TO REMAIN</u>
	<u>ITEM TO BE DEMOLISHED</u>
	<u>LIGHTING CONTROL CIRCUITING</u> PROTOCOL AS INDICATED

9/10/2024 4:12:27 PM



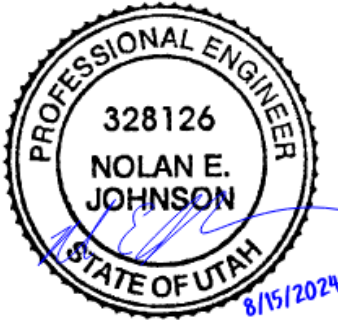
REFERENCE NOTES

- 1 RUN 0-10V DIMMING CABLE BETWEEN ALL FIXTURES AND TO 0-10V DIMMING MODULE IN LIGHTING CONTROL PANEL

GENERAL NOTES

- A. FURNISH ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET PROJECT REQUIREMENTS. VERIFY FIXTURE MOUNTING AND LOCATION AGAINST ARCHITECTURAL, CIVIL, AND LANDSCAPE DRAWINGS. **CONFIRM EXACT LOCATION OF ALL FIXTURES WITH THE ARCHITECT PRIOR TO ROUGH-IN.**
- B. PRELIMINARY AIMING OF ALL ADJUSTABLE LIGHTING EQUIPMENT SHALL BE DONE DURING INSTALLATION BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE LIGHTING PLANS / AIMING DIAGRAM, WHERE SUCH IS INCLUDED IN CONTRACT DOCUMENTS OR AS AN ADDENDUM. FINAL AIMING OF ALL ADJUSTABLE LIGHTING EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR AS DIRECTED BY THE ENGINEER.
- C. LOCATIONS OF EXISTING FIXTURES, DEVICES, AND PIPING / CONDUIT ROUTING HAVE BEEN OBTAINED FROM ORIGINAL PROJECT DRAWINGS AND HAVE NOT BEEN VERIFIED. CONTRACTOR FIELD VERIFY ALL LOCATIONS AND POT HOLE OR USE A TRACER TO LOCATE EXISTING UTILITIES PRIOR TO ANY EXCAVATION.

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.2024



DATE REVISION

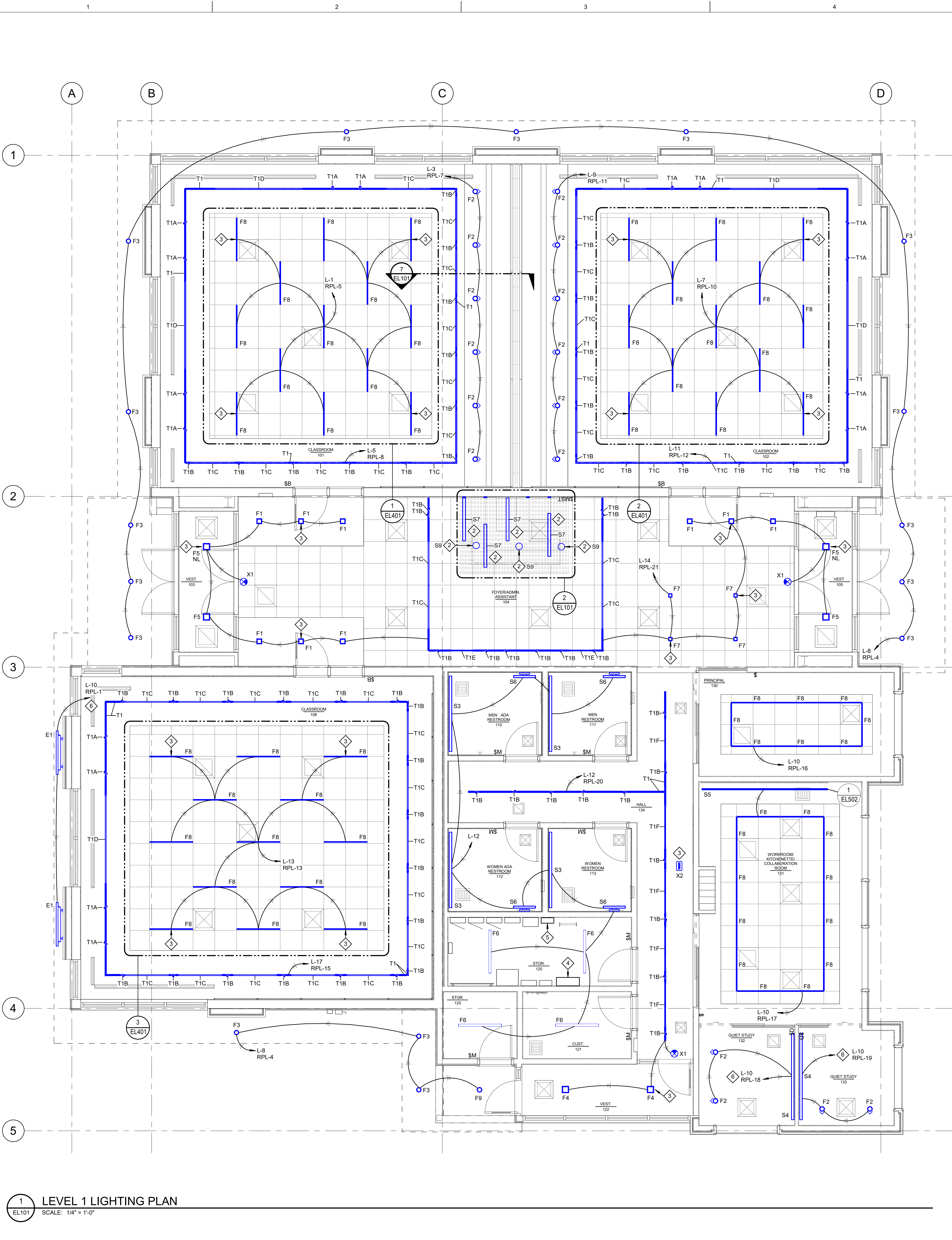
PROJECT NUMBER 24003

EXTERIOR LIGHTING PLAN

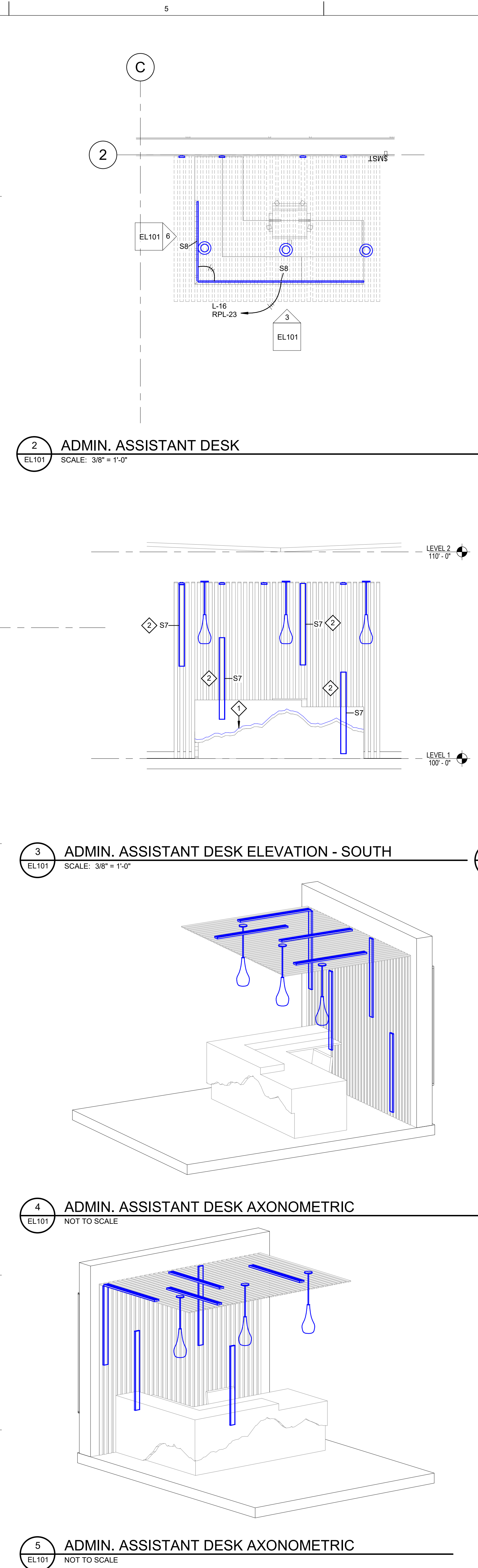
EL100



9/10/2024 4:12:36 PM



1 LEVEL 1 LIGHTING PLAN
SCALE: 1/4" = 1'-0"

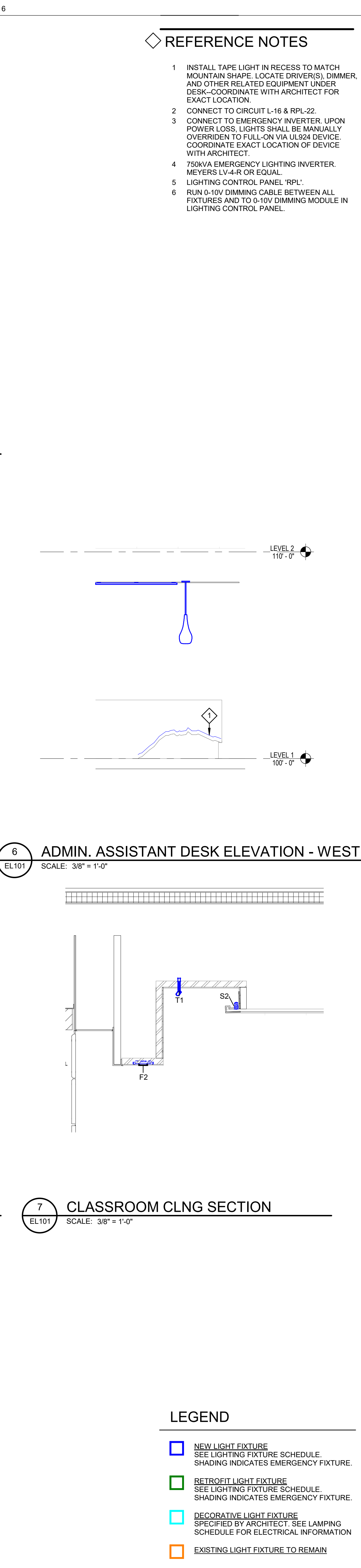


2 ADMIN. ASSISTANT DESK
SCALE: 3/8" = 1'-0"

3 ADMIN. ASSISTANT DESK ELEVATION - SOUTH
SCALE: 3/8" = 1'-0"

4 ADMIN. ASSISTANT DESK AXONOMETRIC
NOT TO SCALE

5 ADMIN. ASSISTANT DESK AXONOMETRIC
NOT TO SCALE



6 ADMIN. ASSISTANT DESK ELEVATION - WEST
SCALE: 3/8" = 1'-0"

7 CLASSROOM CLNG SECTION
SCALE: 3/8" = 1'-0"

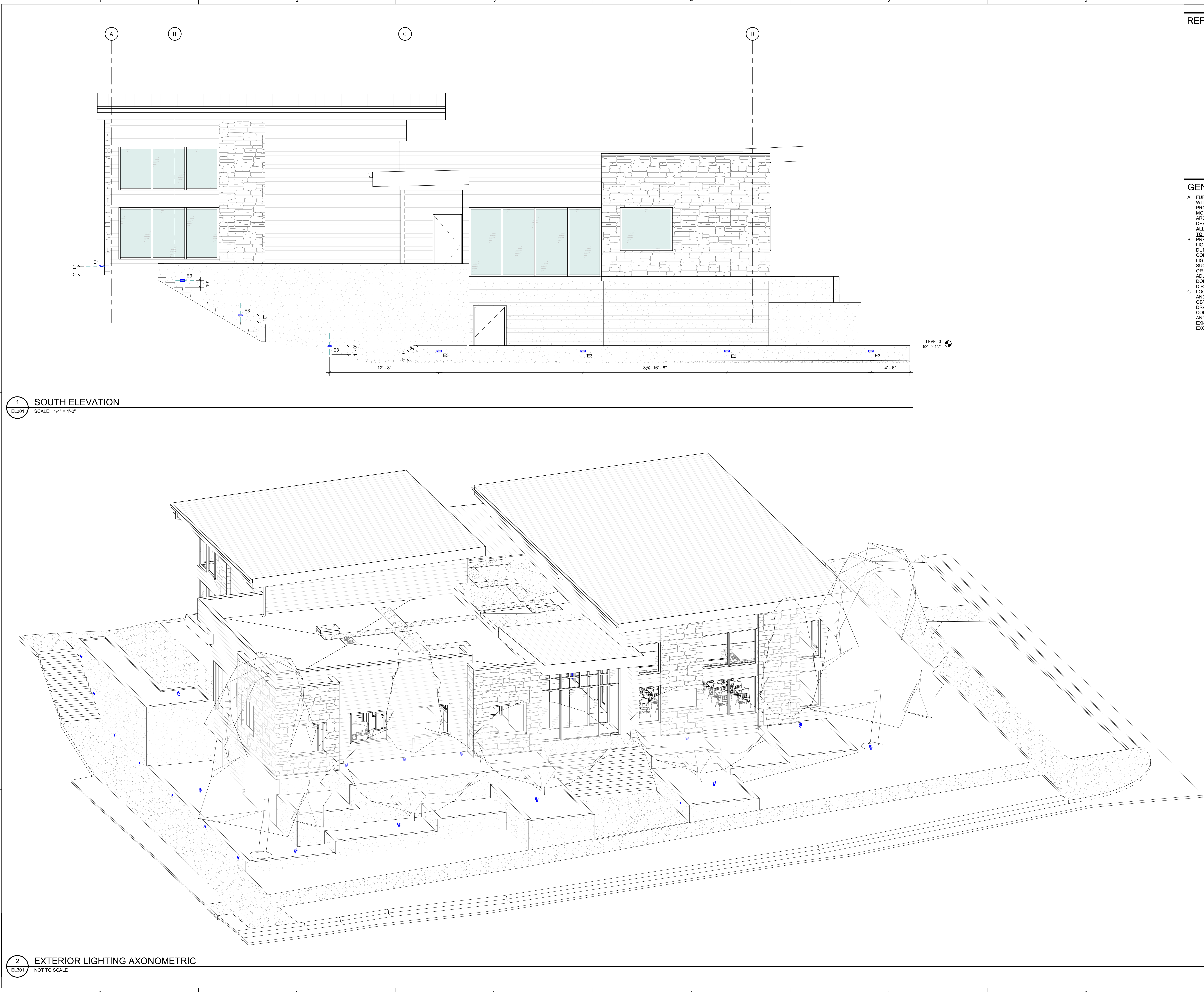
REFERENCE NOTES

1. INSTALL TAPE LIGHT IN RECESS TO MATCH MOUNTAIN SHAPE. LOCATE DRIVER(S), DIMMER, AND OTHER RELATED EQUIPMENT UNDER DESK--COORDINATE WITH ARCHITECT FOR EXACT LOCATION.
2. CONNECT TO CIRCUIT L-16 & RPL-22.
3. CONNECT TO EMERGENCY INVERTER. UPON POWER LOSS, LIGHTS SHALL BE MANUALLY OVERRIDDEN TO FULL-ON VIA UL924 DEVICE. COORDINATE EXACT LOCATION OF DEVICE WITH ARCHITECT.
4. 750KVA EMERGENCY LIGHTING INVERTER. MEYERS LV-4-R OR EQUAL.
5. LIGHTING CONTROL PANEL 'RPL'.
6. RUN 0-10V DIMMING CABLE BETWEEN ALL FIXTURES AND TO 0-10V DIMMING MODULE IN LIGHTING CONTROL PANEL.

LEGEND

- NEW LIGHT FIXTURE
SEE LIGHTING FIXTURE SCHEDULE.
SHADING INDICATES EMERGENCY FIXTURE.
- RETROFIT LIGHT FIXTURE
SEE LIGHTING FIXTURE SCHEDULE.
SHADING INDICATES EMERGENCY FIXTURE.
- DECORATIVE LIGHT FIXTURE
SPECIFIED BY ARCHITECT. SEE LAMPING SCHEDULE FOR ELECTRICAL INFORMATION.
- EXISTING LIGHT FIXTURE TO REMAIN

9/10/2024 4:12:47 PM

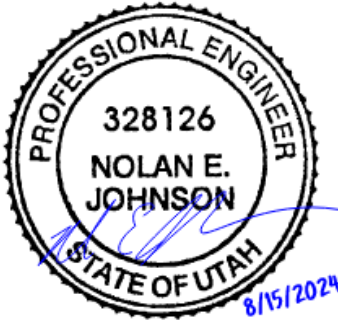


REFERENCE NOTES

GENERAL NOTES

- A. FURNISH ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET PROJECT REQUIREMENTS. VERIFY FIXTURE MOUNTING AND LOCATION AGAINST ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS. **CONFIRM EXACT LOCATION OF ALL FIXTURES WITH THE ARCHITECT PRIOR TO ROUGH-IN.**
- B. PRELIMINARY AIMING OF ALL ADJUSTABLE LIGHTING EQUIPMENT SHALL BE DONE DURING INSTALLATION BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE LIGHTING PLANS / AIMING DIAGRAM. WHERE SUCH IS INCLUDED IN CONTRACT DOCUMENTS OR AS AN ADDENDUM, FINAL AIMING OF ALL ADJUSTABLE LIGHTING EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR AS DIRECTED BY THE ENGINEER.
- C. LOCATIONS OF EXISTING FIXTURES, DEVICES, AND PIPING / CONDUIT ROUTING HAVE BEEN OBTAINED FROM ORIGINAL PROJECT DRAWINGS AND HAVE NOT BEEN VERIFIED. CONTRACTOR FIELD VERIFY ALL LOCATIONS AND POT HOLE OR USE A TRACER TO LOCATE EXISTING UTILITIES PRIOR TO ANY EXCAVATION.

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.2024



△ DATE REVISION

PROJECT NUMBER 24003

EXTERIOR
LIGHTING
ELEVATIONS

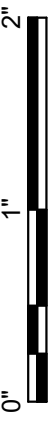
EL301

FFKR ARCHITECTS
730 Pacific Avenue • Salt Lake City, Utah 84104
O 801.521.6186 • FFKR.COM

HEATH
Engineering Company

9/10/2024 4:12:48 PM

A B C D E



1 LEVEL 1 LIGHTING CONTROL PLAN

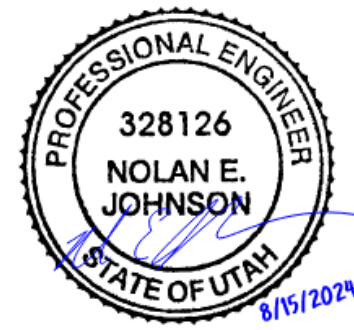
SCALE: 1/4" = 1'-0"



REFERENCE NOTES

LIGHTING CONTROL LEGEND	
Room Name	LC-#: CONTROL TYPE
Room #	SEE LIGHTING CONTROL MATRIX
LC-#	ZONE: CONTROL ZONE
ZONE	SEE RELAY PANEL SCHEDULE

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.2024



DATE REVISION

PROJECT NUMBER 24003

LEVEL 1
LIGHTING
CONTROL
PLAN

EL201



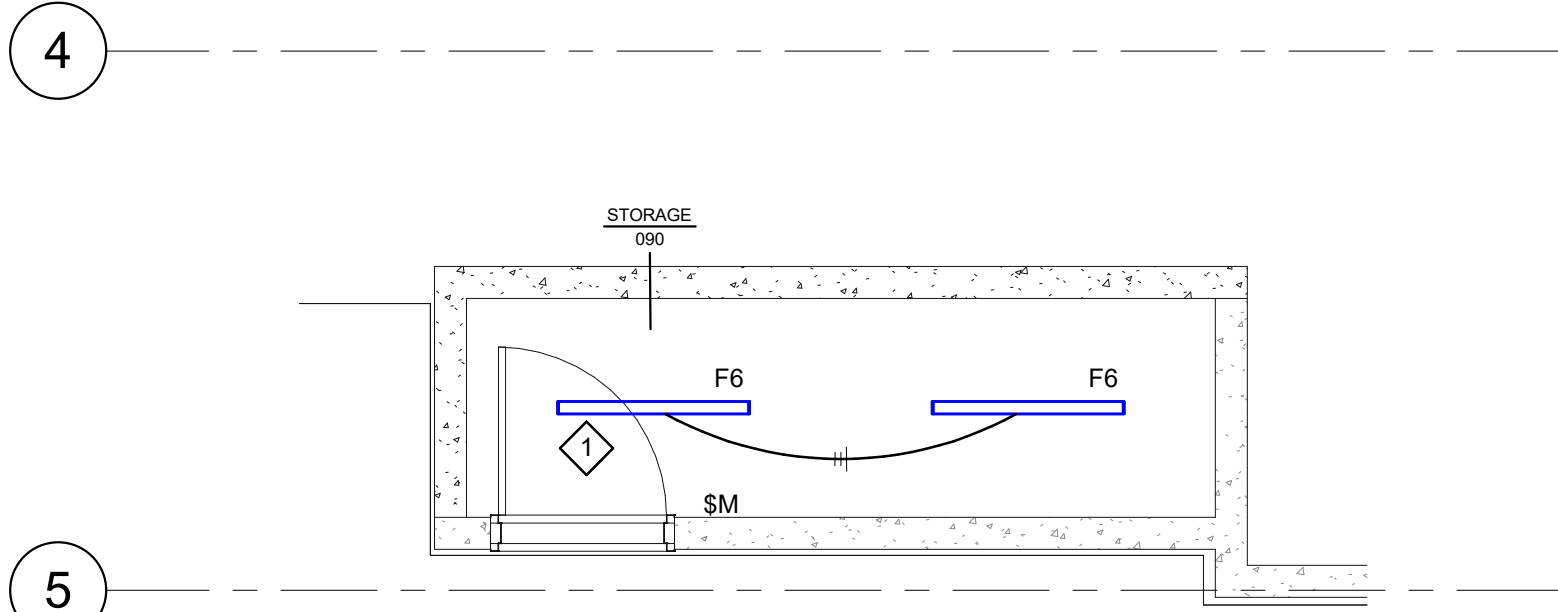
9/10/2024 4:12:49 PM

A B C D E F

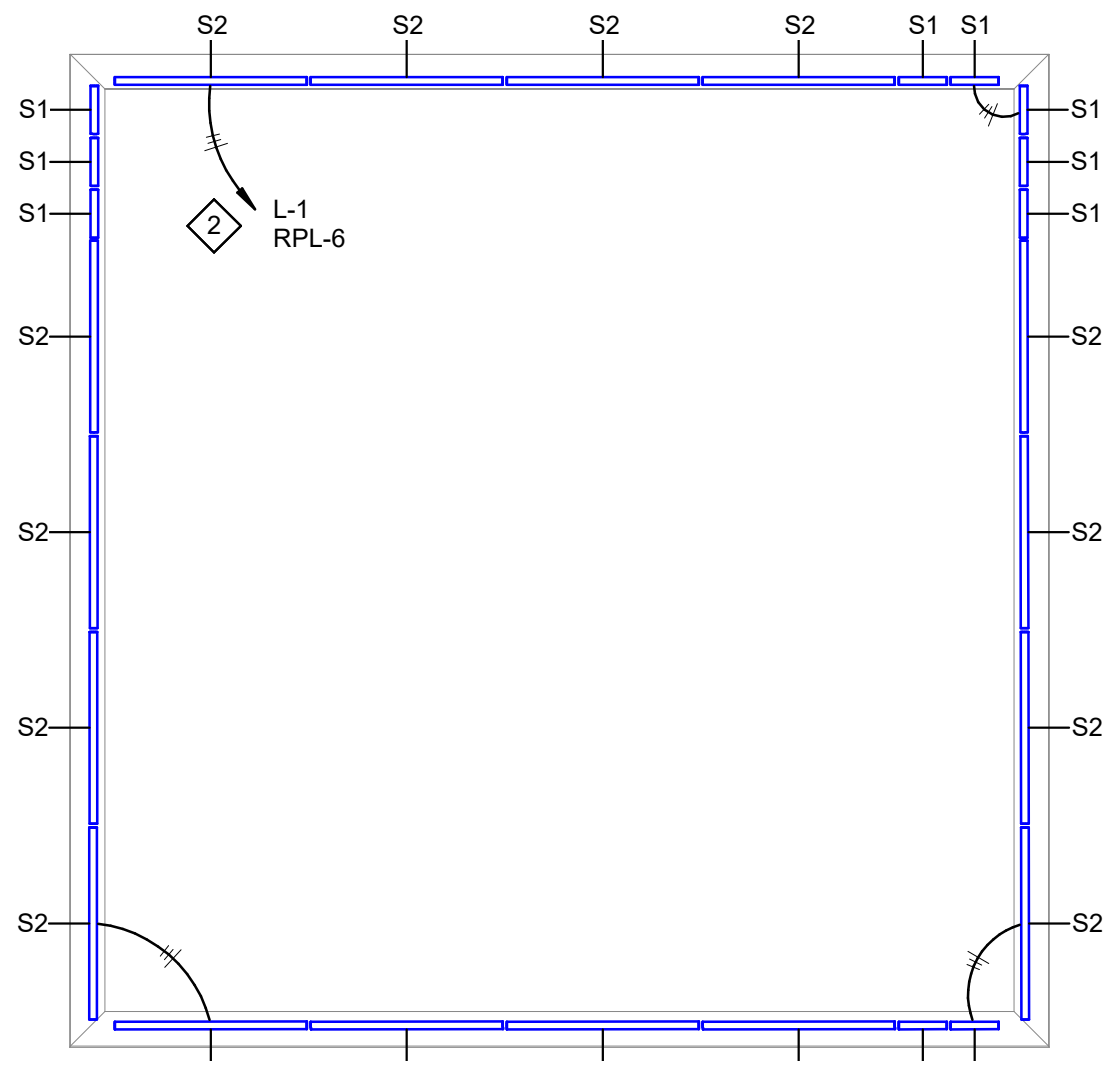
1 2 3 4 5 6

REFERENCE NOTES

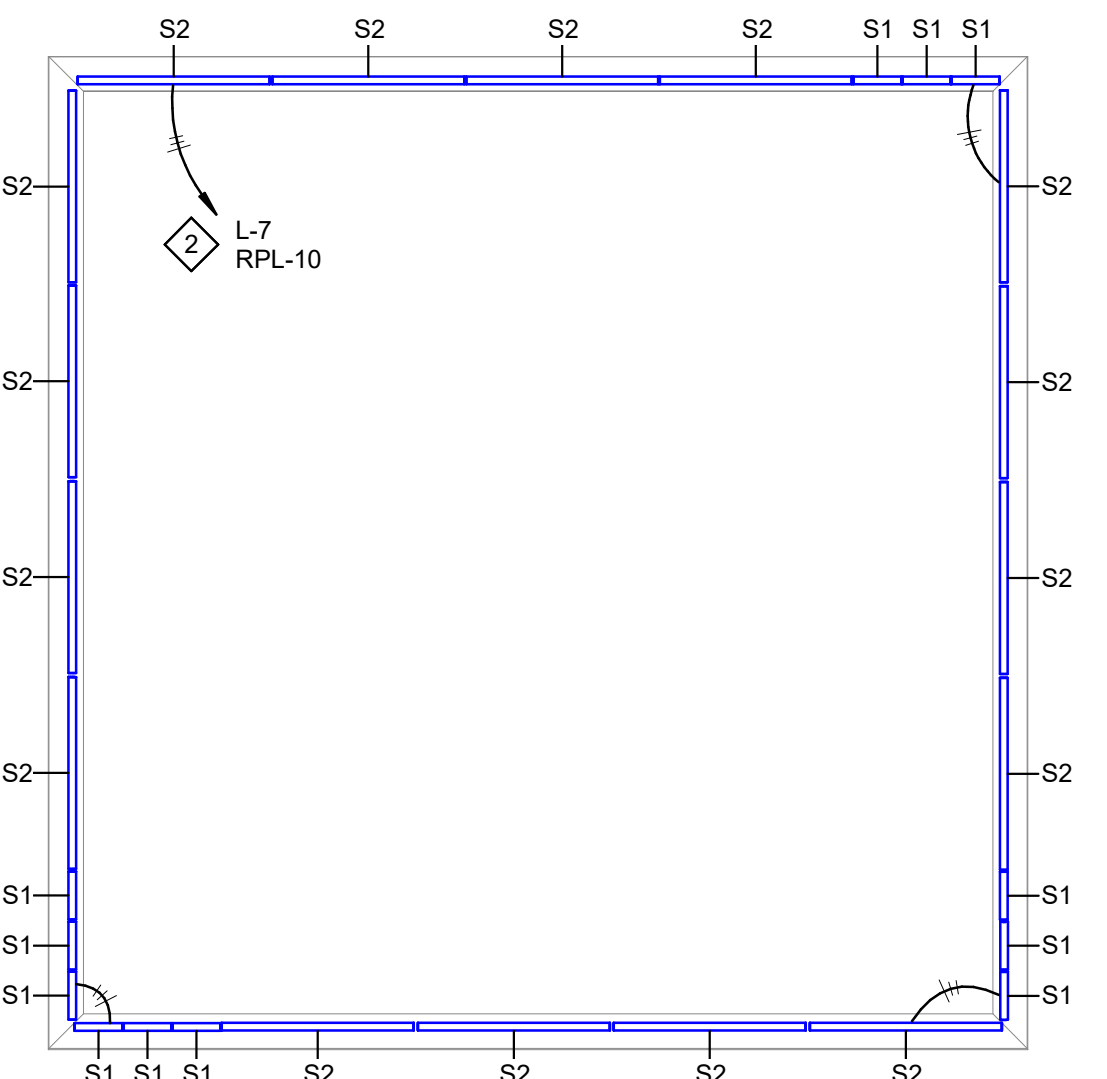
- 1 CONNECT TO RECEPTACLE—SEE POWER PLAN.
2 RUN 0-10V DIMMING CABLE BETWEEN ALL FIXTURES AND TO 0-10V DIMMING MODULE IN LIGHTING CONTROL PANEL.



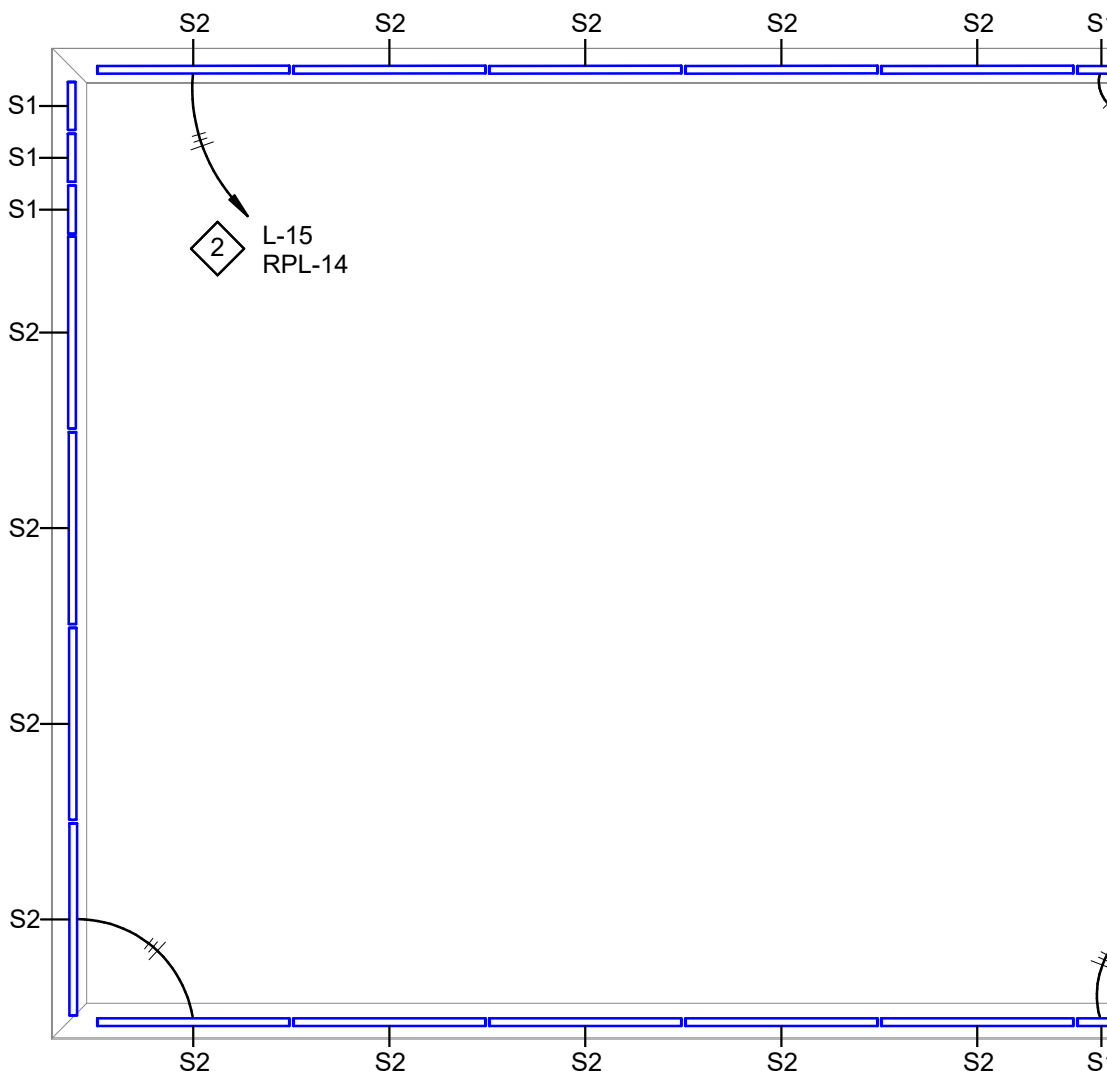
4 STORAGE 090 LIGHTING PLAN
EL401 SCALE: 1/4" = 1'-0"



1 CLASSROOM 101 COVE LIGHTING
EL401 SCALE: 1/4" = 1'-0"



2 CLASSROOM 102 COVE LIGHTING
EL401 SCALE: 1/4" = 1'-0"

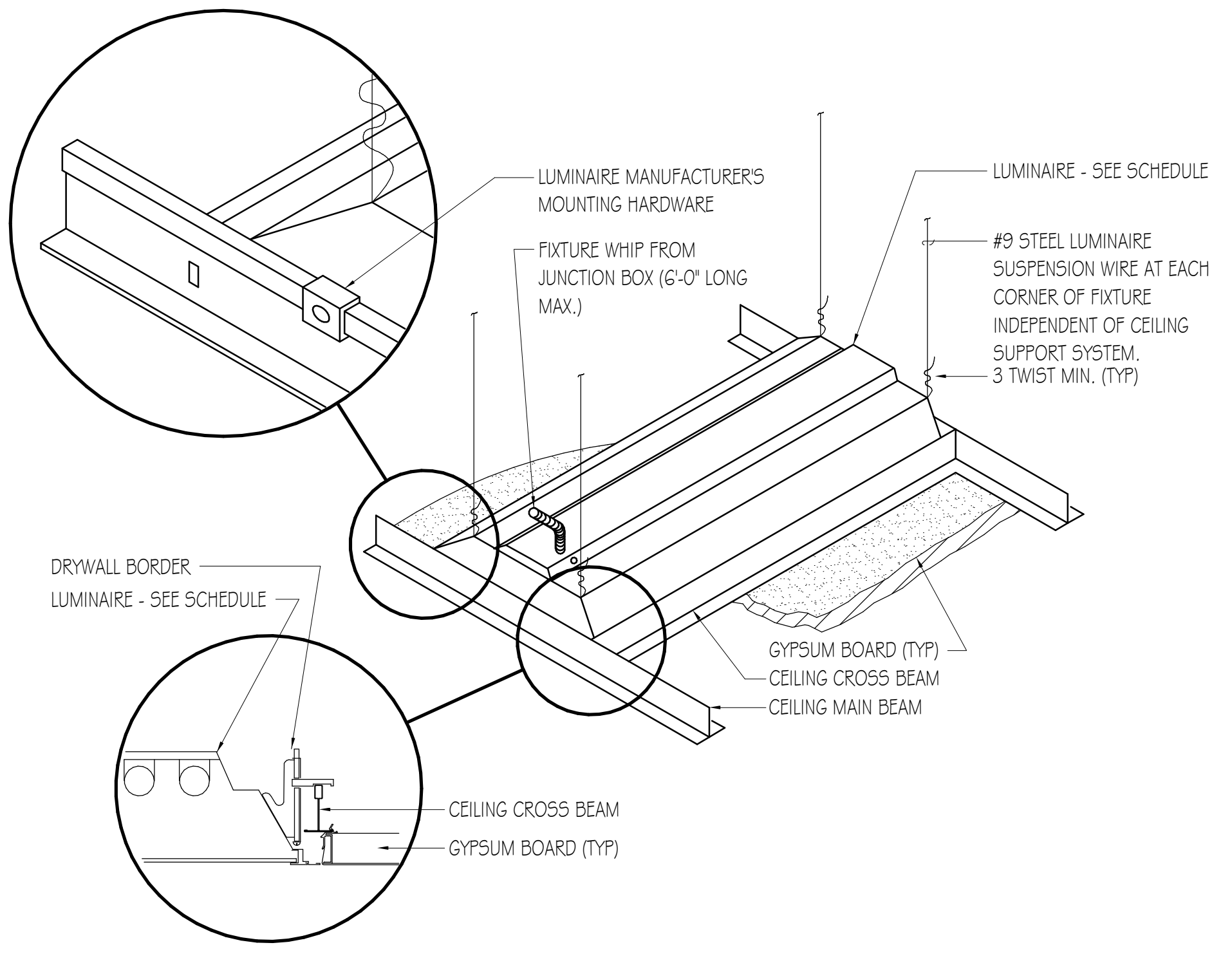


3 CLASSROOM 106 COVE LIGHTING
EL401 SCALE: 1/4" = 1'-0"

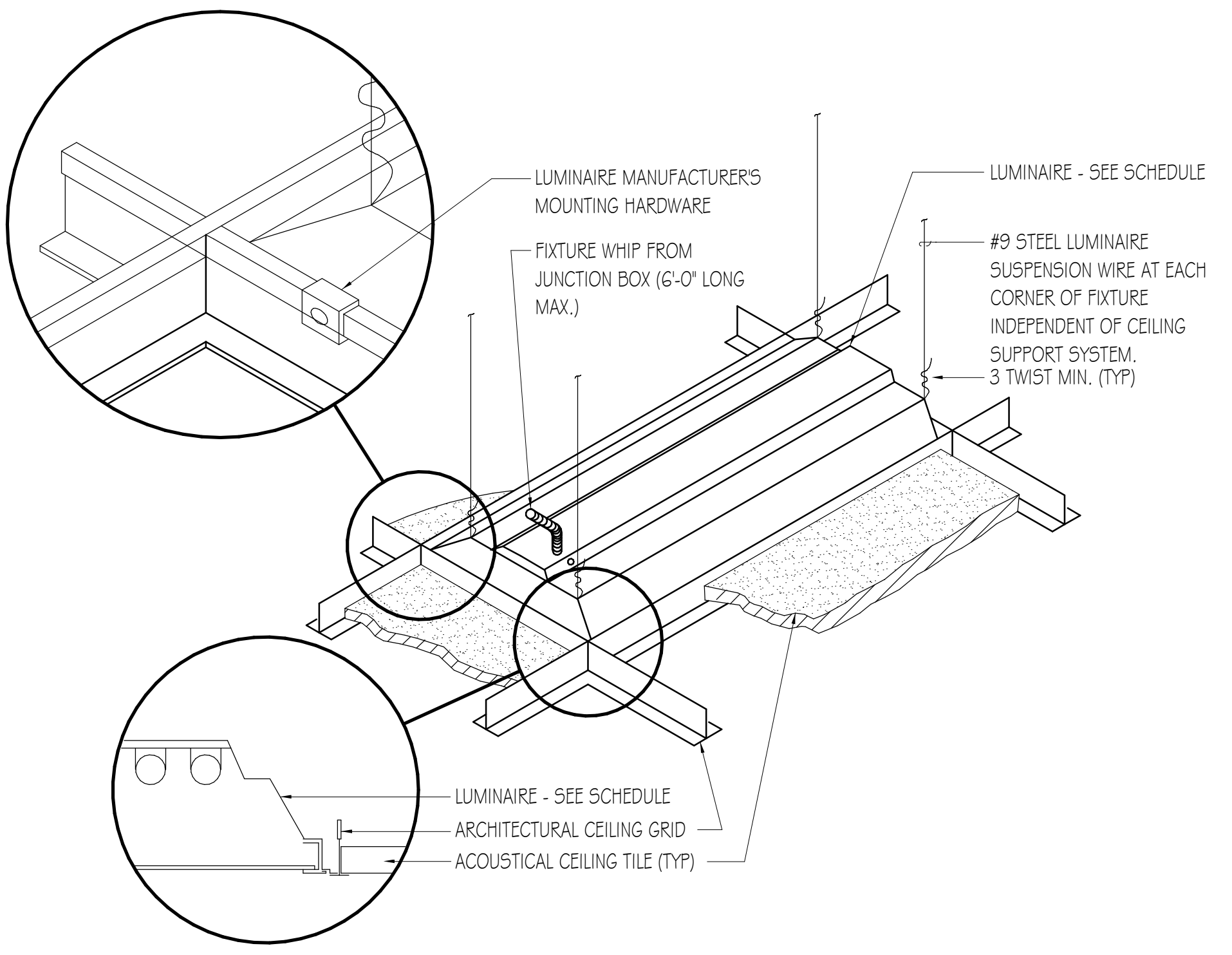
9/10/2024 4:12:50 PM

1 2 3 4 5 6

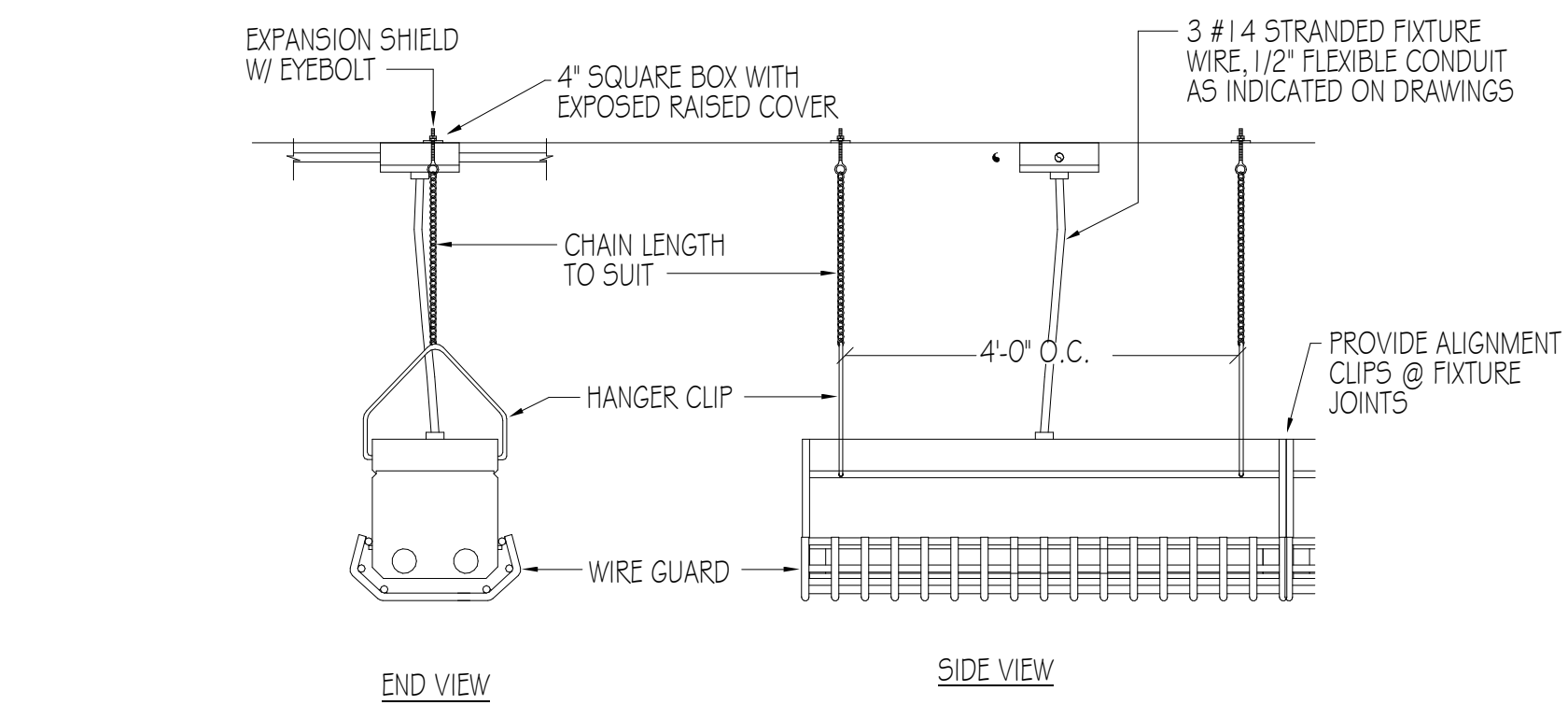
A B C D E F



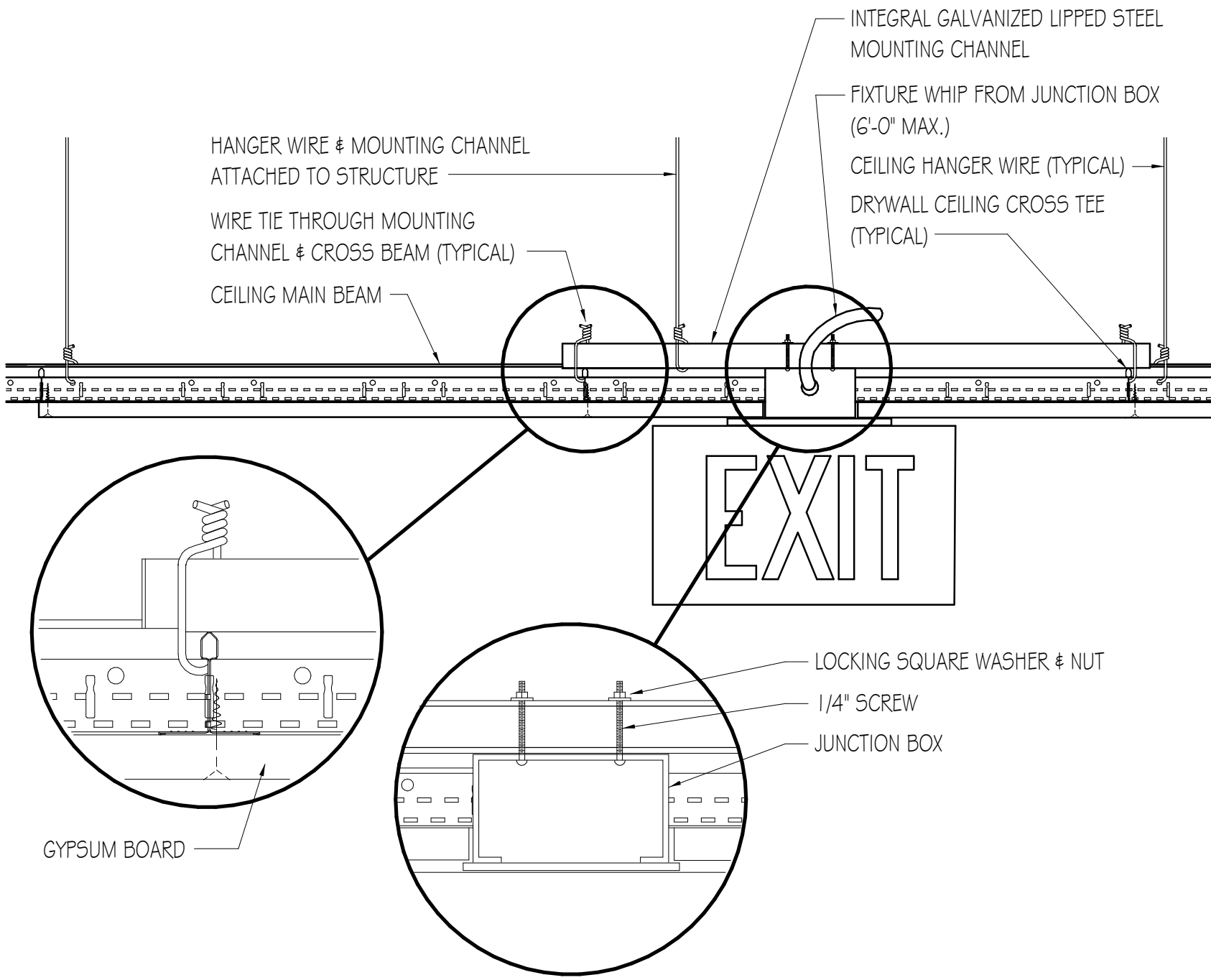
6 LUMINAIRE MOUNTING - GYPBOARD CEILING
EL501 NOT TO SCALE



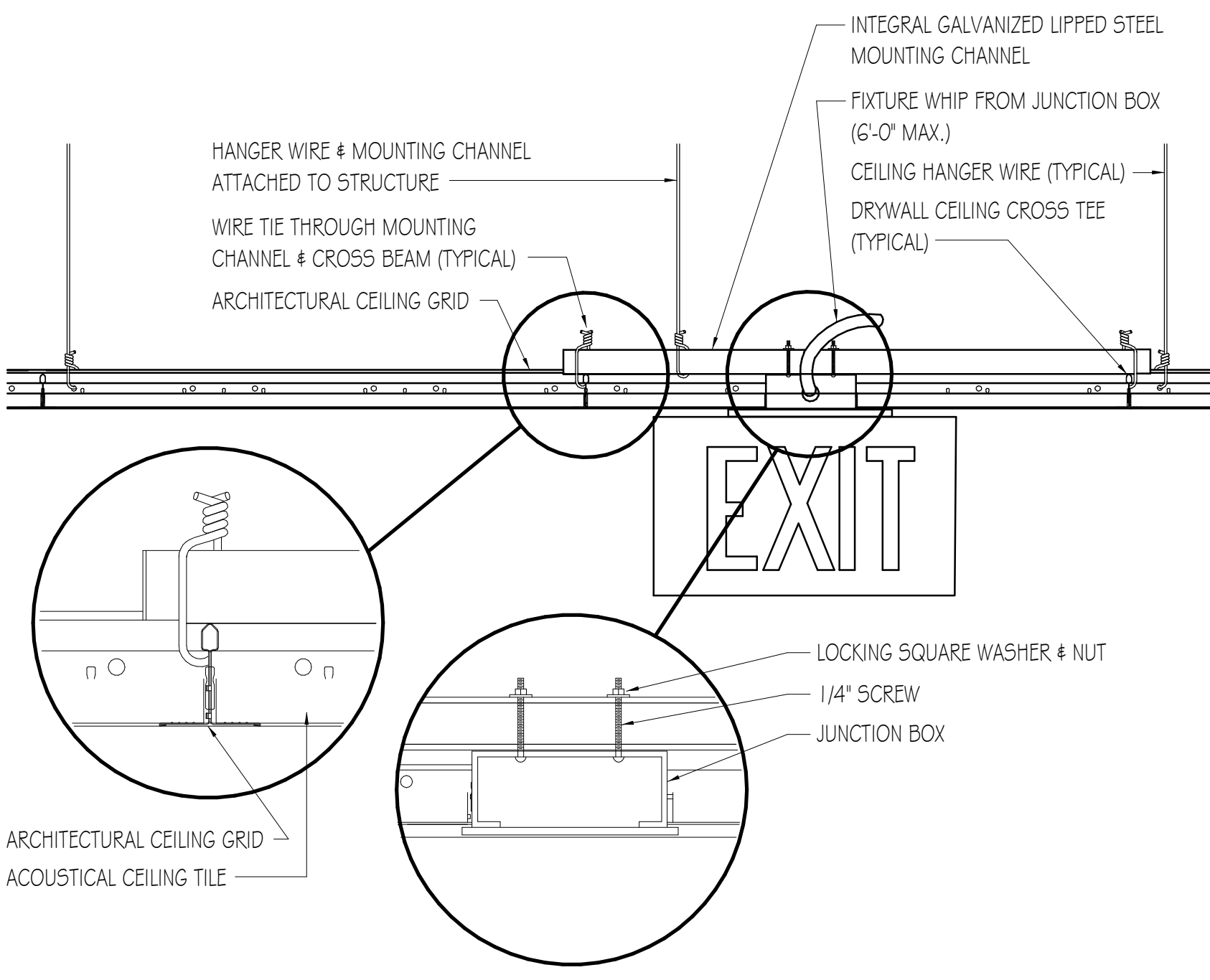
7 LUMINAIRE MOUNTING - LAY-IN CEILING
EL501 NOT TO SCALE



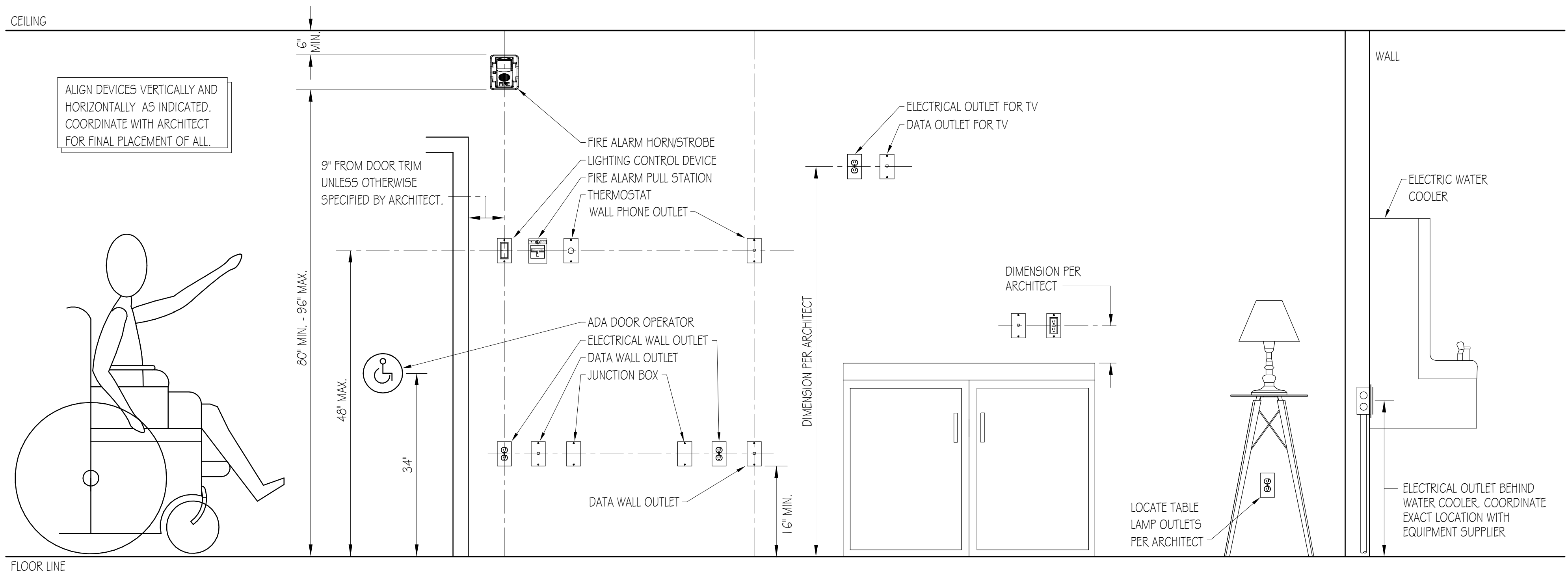
8 SUSPENDED LIGHT FIXTURE
EL501 NOT TO SCALE



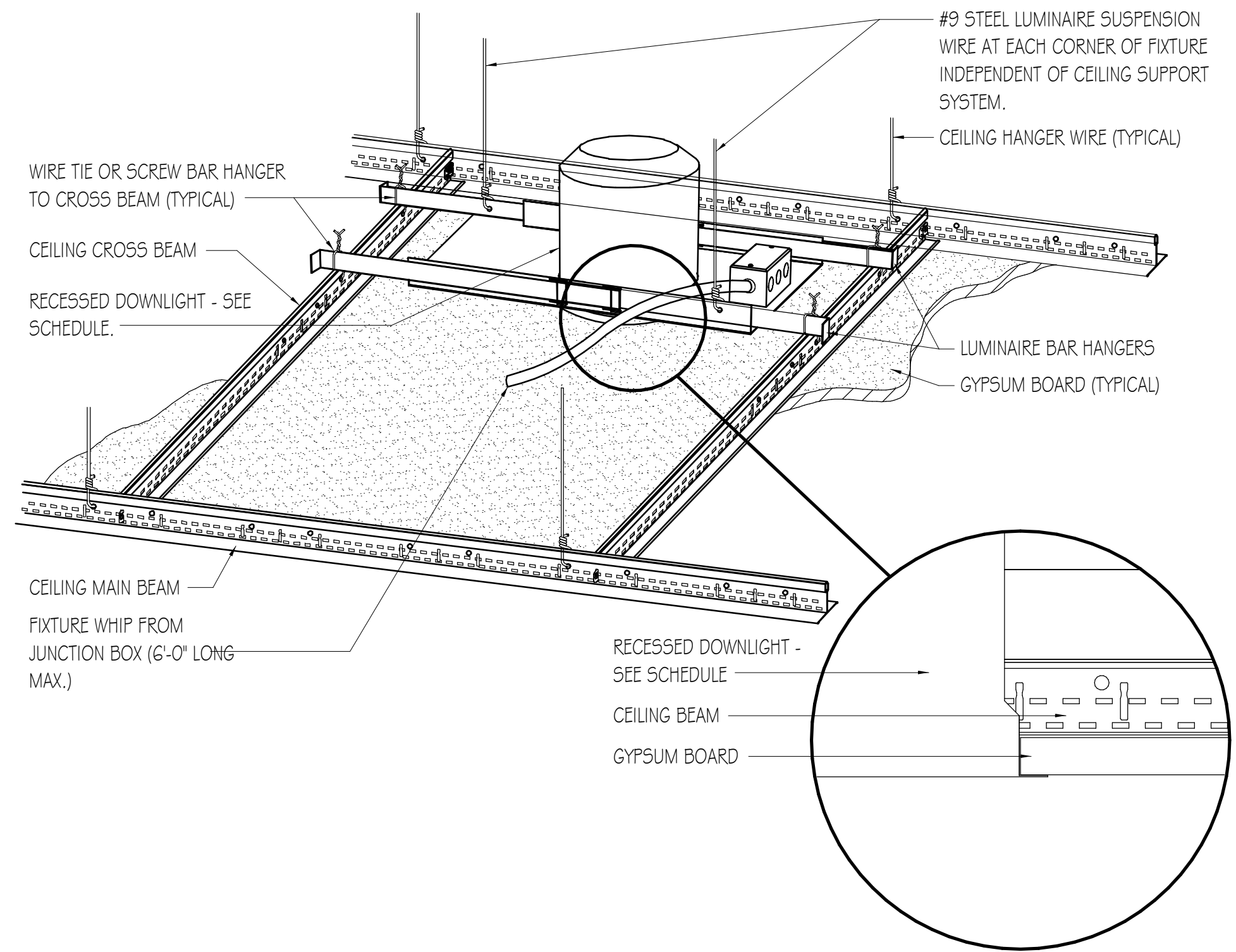
3 EXIT SIGN MOUNTING - GYPBOARD CEILING
EL501 NOT TO SCALE



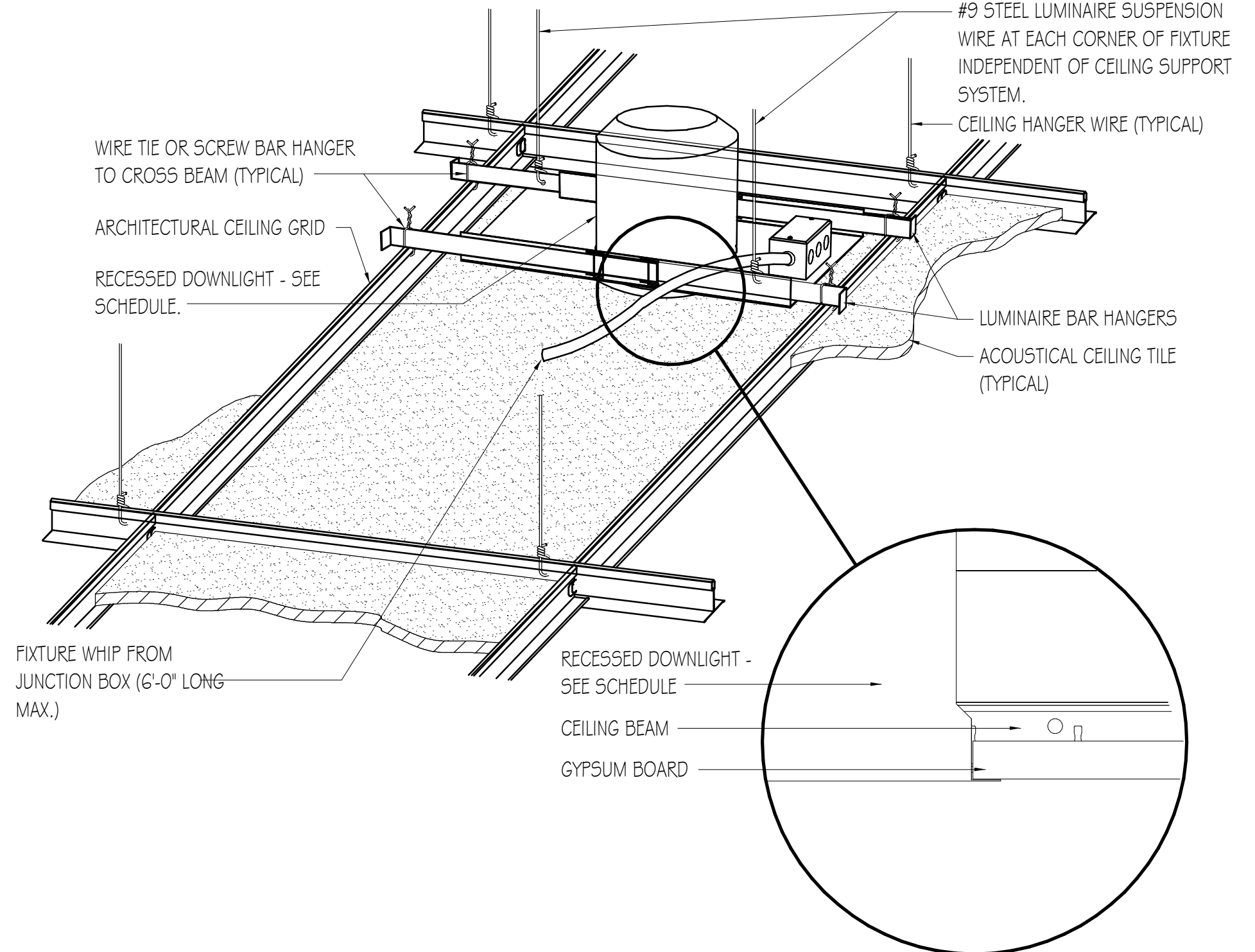
4 EXIT SIGN MOUNTING - LAY-IN CEILING
EL501 NOT TO SCALE



5 MOUNTING HEIGHTS FOR ELECTRICAL DEVICES
EL501 NOT TO SCALE



1 DOWNLIGHT MOUNTING - GYPBOARD CEILING
EL501 NOT TO SCALE

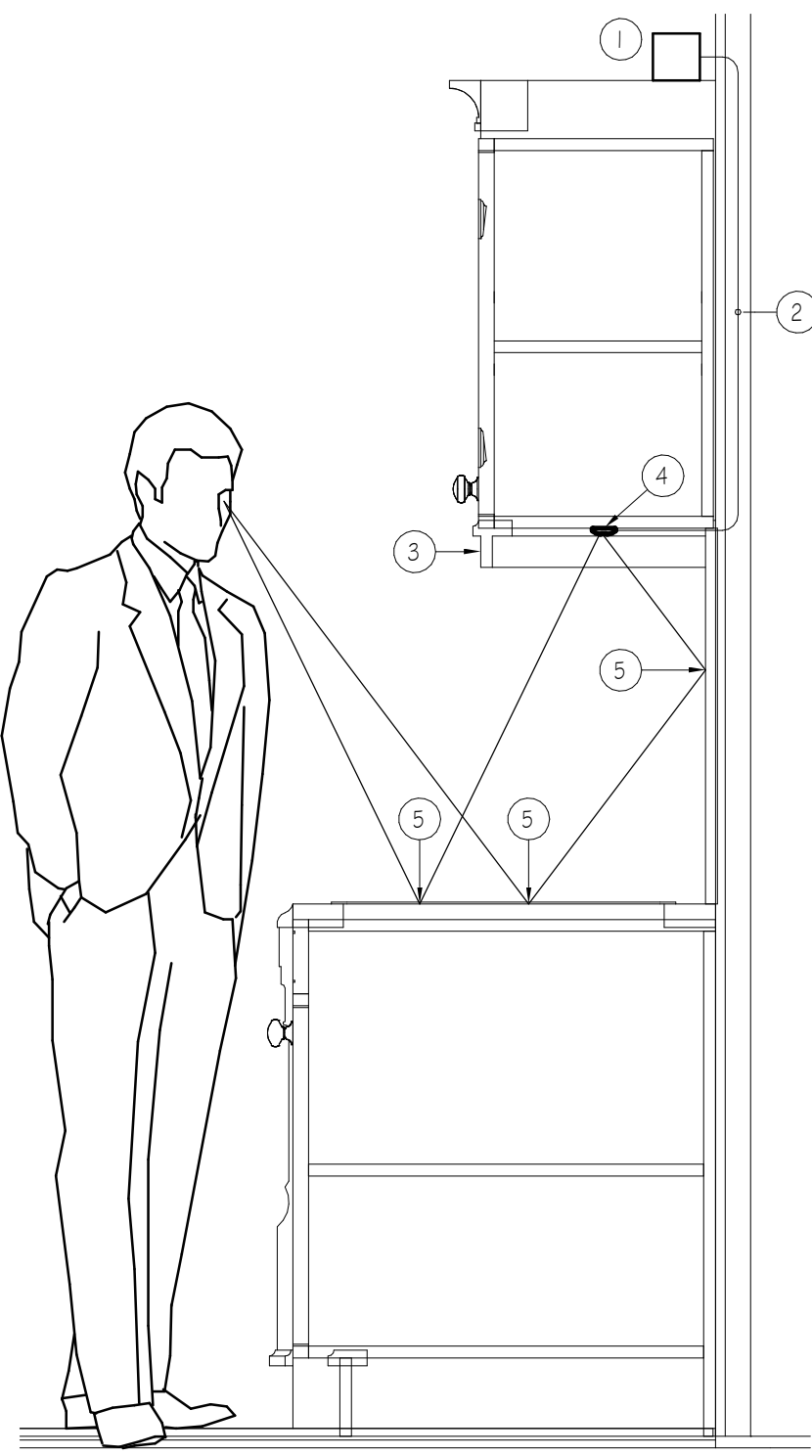


2 DOWNLIGHT MOUNTING - LAY-IN CEILING
EL501 NOT TO SCALE

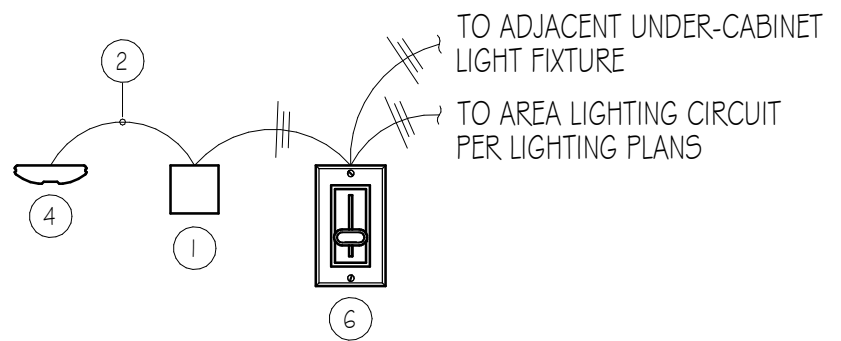
9/10/2024 4:12:50 PM

A B C D E F

1 2 3 4 5 6



WIRING DIAGRAM

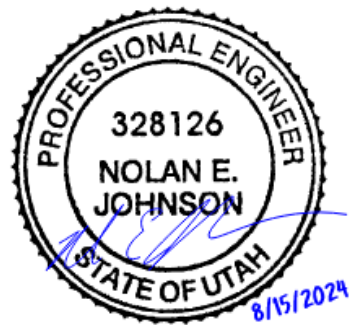


NOTES

- 1 DRIVER FOR UNDERCABINET LIGHTING. MOUNT ABOVE UPPER CABINETS OR IN ANOTHER CONCEALED AND ACCESSIBLE SPACE AS PER ARCHITECT.
- 2 CONCEAL REMOTE WIRING TO UNDER CABINET LIGHT FIXTURES. COORDINATE WIRE STUB-OUT THROUGH WALL WITH FIXTURE WIRING ENTRANCE POINT.
- 3 VALANCE TO CONCEAL LIGHT FIXTURE. DIMENSIONS AS NECESSARY--COORDINATE WITH ARCHITECT.
- 4 UNDER CABINET LIGHT FIXTURE. MOUNT ON CENTERLINE OF CABINET BOTTOM. INSTALL PER MANUFACTURERS INSTRUCTIONS.
- 5 AREA OF REFLECTED VIEW OF LIGHT FIXTURE. TO MINIMIZE DISTRACTING REFLECTIONS, HIGH GLOSS SURFACES SHOULD BE AVOIDED. COORDINATE WITH ARCHITECT.
- 6 MANUAL SLIDE DIMMER (FORWARD / REVERSE PHASE) IF APPLICABLE. . SEE LIGHTING PLANS.

1 UNDER-CABINET LIGHTING
EL502 NOT TO SCALE

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.2024



△ DATE REVISION

PROJECT NUMBER 24003

LIGHTING
DETAILS

EL502

FFKR ARCHITECTS
730 Pacific Avenue · Salt Lake City, Utah 84104
O 801.521.6186 · FFKR.COM

HEATH
Engineering Company

9/10/2024 4:12:51 PM



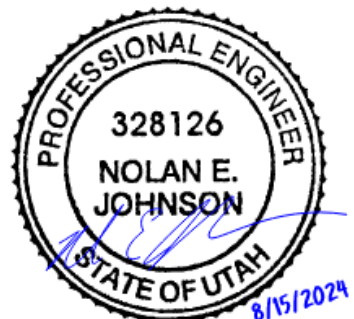
DRAWING NOTES

NOTE #	DESCRIPTION
1	PANIC BUTTON TO LOCK ALL DOORS AND INITIATE A CALL TO AUTHORITIES THROUGH GSOC. COORDINATE WITH THE HOST SCHOOL EMERGENCY RESPONSE TEAM SO THAT THE SIGNALS REACH THIS FACILITY.
2	PROVIDE A FLOW SWITCH AND A TAMPER SWITCH ON MAIN FIRE SPRINKLER RISER. PROVIDE A TAMPER SWITCH ON THE BYPASS. PROVIDE FLOW SWITCH AND A TAMPER SWITCH FOR EACH ZONE.
3	PROVIDE A DUCT SMOKE DETECTOR, AND A CONTROL MODULE FOR EACH RTU SUPPLY DUCT TO ALLOW FOR SHUTDOWN OF UNIT.

GENERAL NOTES

- REFER TO FIRE ALARM AND DETECTION CONTROL MATRIX FOR ALARMING.
- THESE DRAWINGS ARE INTENDED TO SHOW DESIGN INTENT. IT IS THE INTENT THAT THE FIRE ALARM SYSTEM VENDOR DESIGN AND LAY OUT THEIR SYSTEM PER NICET STANDARDS AND THEIR SYSTEM REQUIREMENTS, ALL REQUIREMENTS FOR VOLTAGE DROP, BATTERY DRAW, ETC. CONDUIT AND WIRING SHALL ACCOMMODATE THIS SYSTEM. ALL STROBE LOOPS SHALL INCLUDE CAPABILITY OF AT LEAST ONE FUTURE STROBE, TWO PREFERRED. ALL HORN LOOPS SHALL INCLUDE CAPACITY FOR 20% SPARE FOR FUTURE. ALL STROBES SHALL BE SYNCHRONIZED. SHOP DRAWINGS FOR FIRE MARSHALL APPROVAL SHALL BE PREPARED. SEE SPECIFICATIONS.

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.2024



DATE REVISION

PROJECT NUMBER 24003

LEVEL 1
FIRE
ALARM
PLAN

FA101

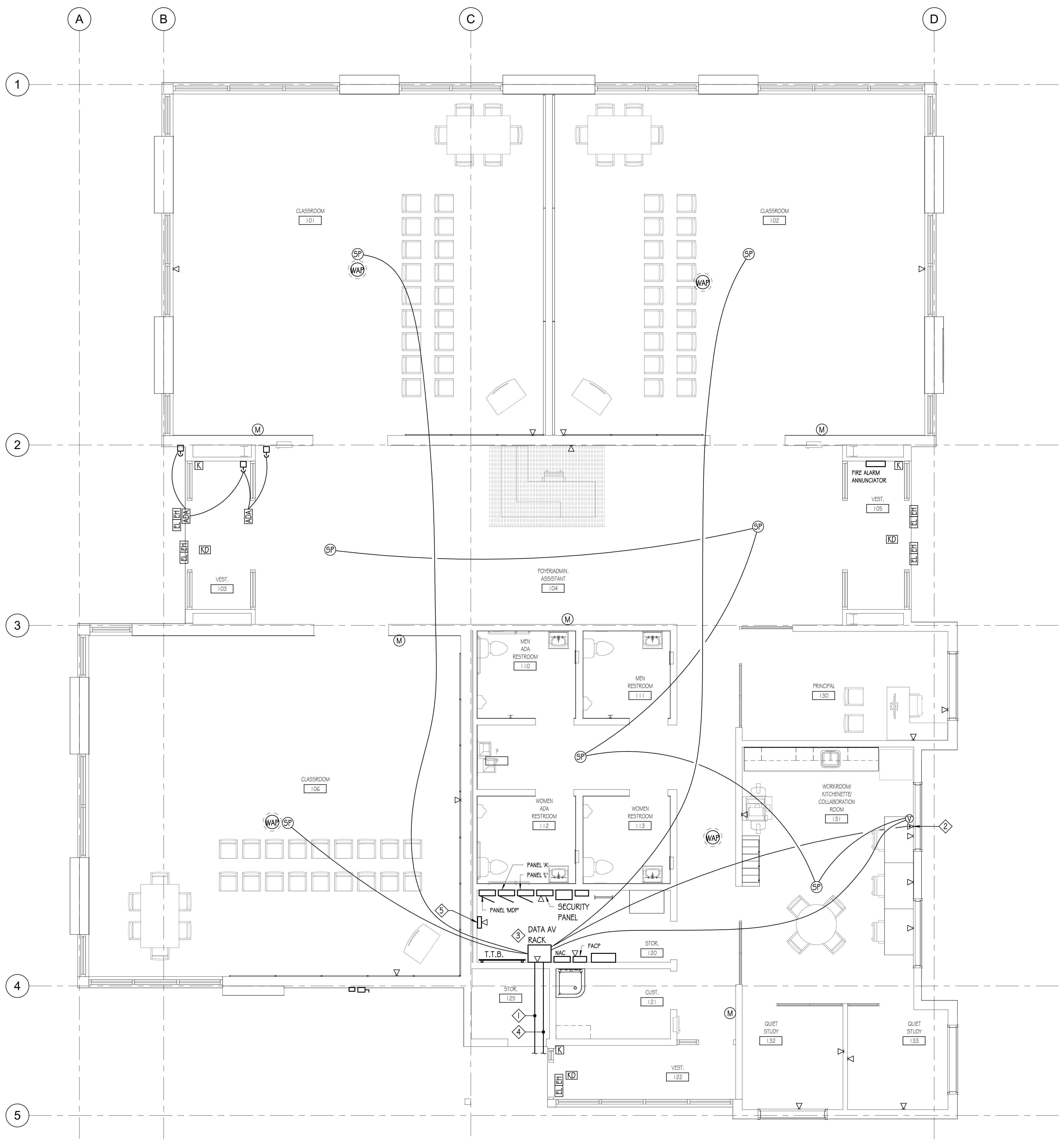
FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 - FFKR.COM

HEATH
Engineering Company

9/10/2024 4:12:53 PM

A B C D E

1 2 3 4 5 6



LEVEL 1 SECURITY / DATA PLAN
SCALE: 1/4" = 1'-0"
5 2.5 0 5 10



NOTE #	DESCRIPTION
1	CONDUIT FOR INTERNET SERVICE PROVIDER. ROUTE (2) 2" CONDUITS TO INTERIOR OF BUILDING TO TTB/DATA RACK LOCATION. ROUTE (2) 2" CONDUITS TO INTERNET SERVICE PROVIDERS PEDESTAL AT STREET. SEE CONTINUATION ON SHEET E5101.
2	SOUND SYSTEM USER INTERFACE. SEE DETAIL 1 / E-503. COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT.
3	SPEAKER SYSTEM TO BE CONNECTED TO SCHOOL INTERCOM SYSTEM FOR ANNOUNCEMENTS.
4	(1) 2" CONDUIT TO SCHOOL FOR INTERCONNECTION OF SYSTEMS. COORDINATE WITH HOST SCHOOL FOR NECESSARY CONNECTION POINTS.
5	LCBS GATEWAY. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION.

9/10/2024 4:12:54 PM

A B C D E F

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

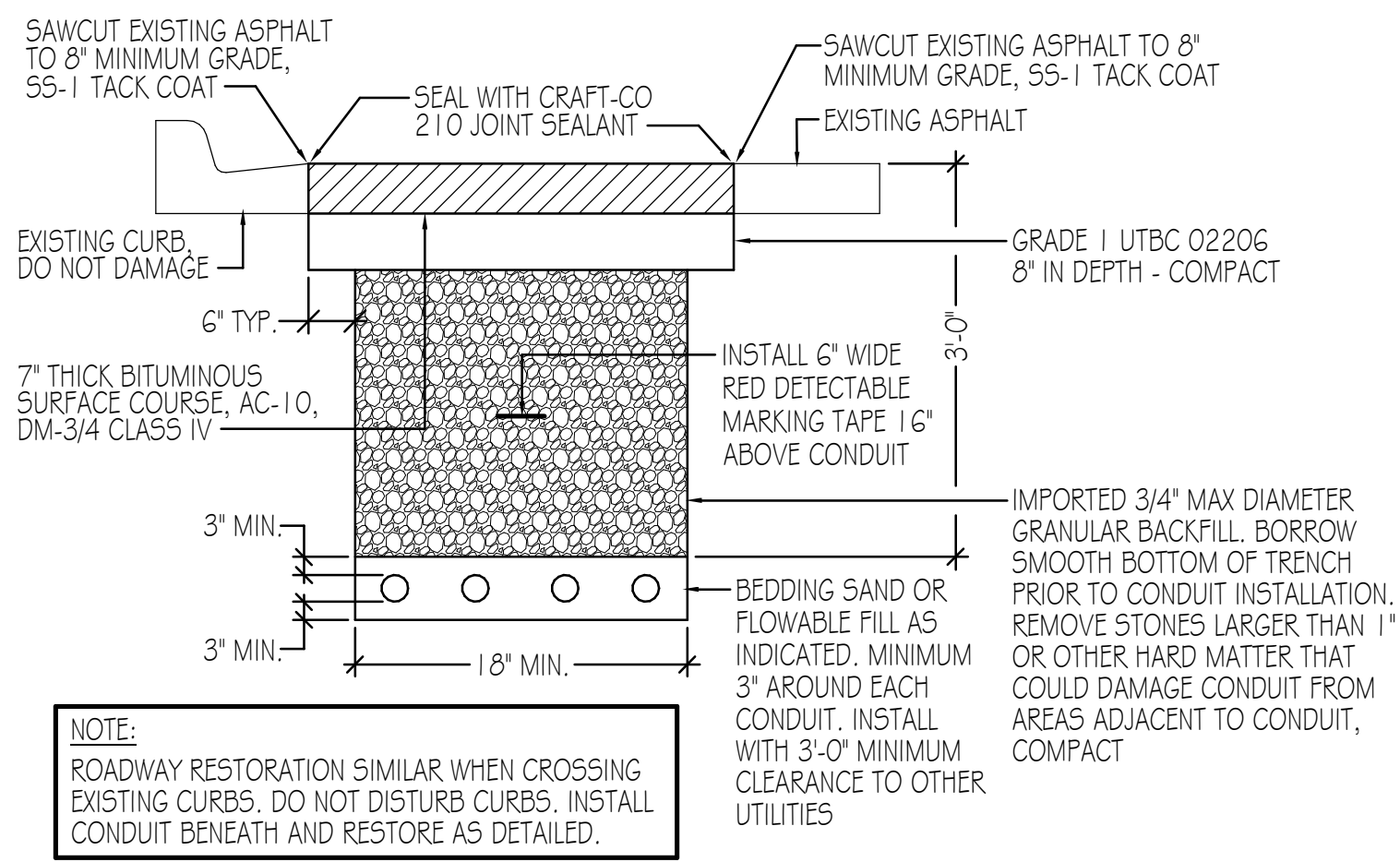
362

363

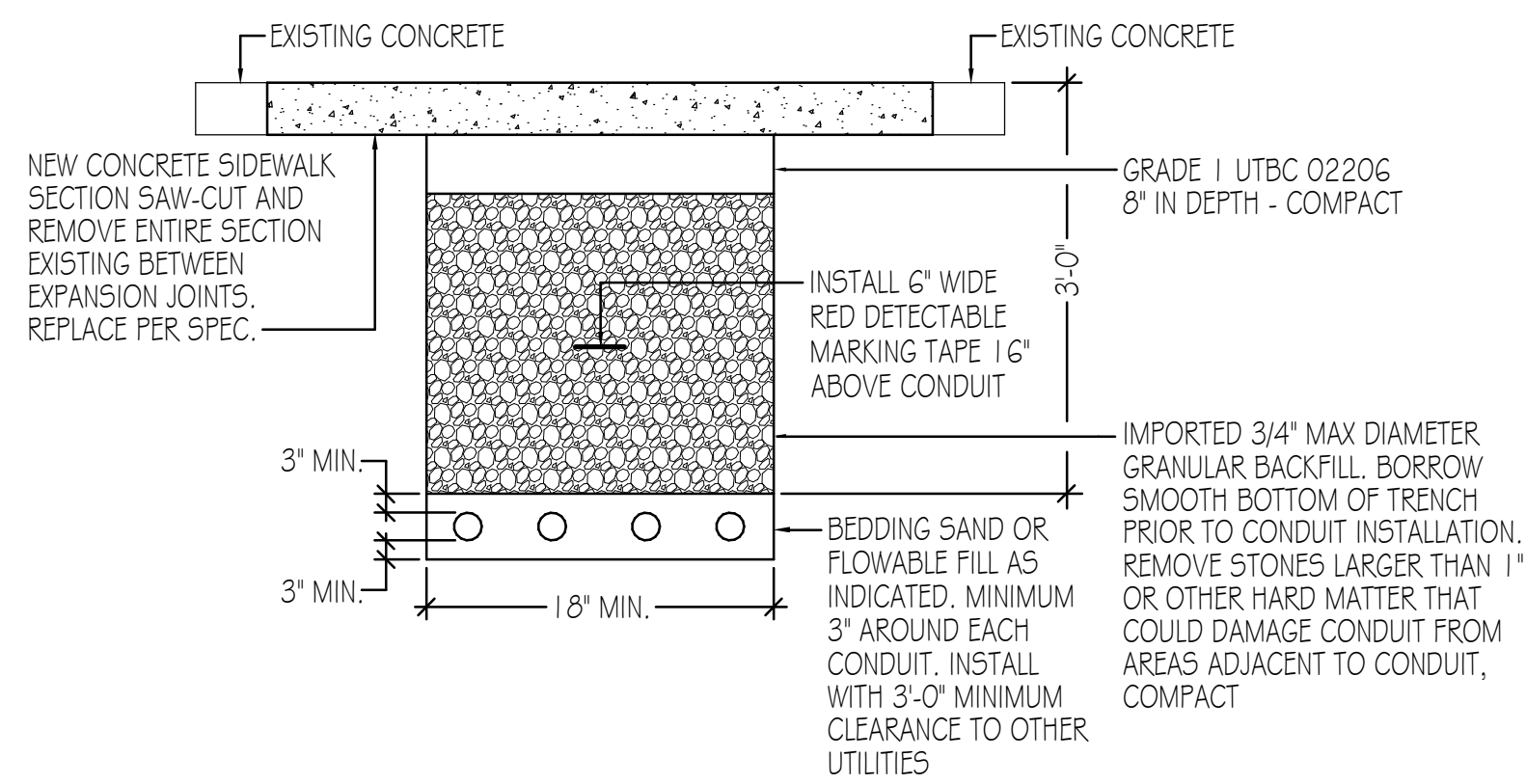
364

365

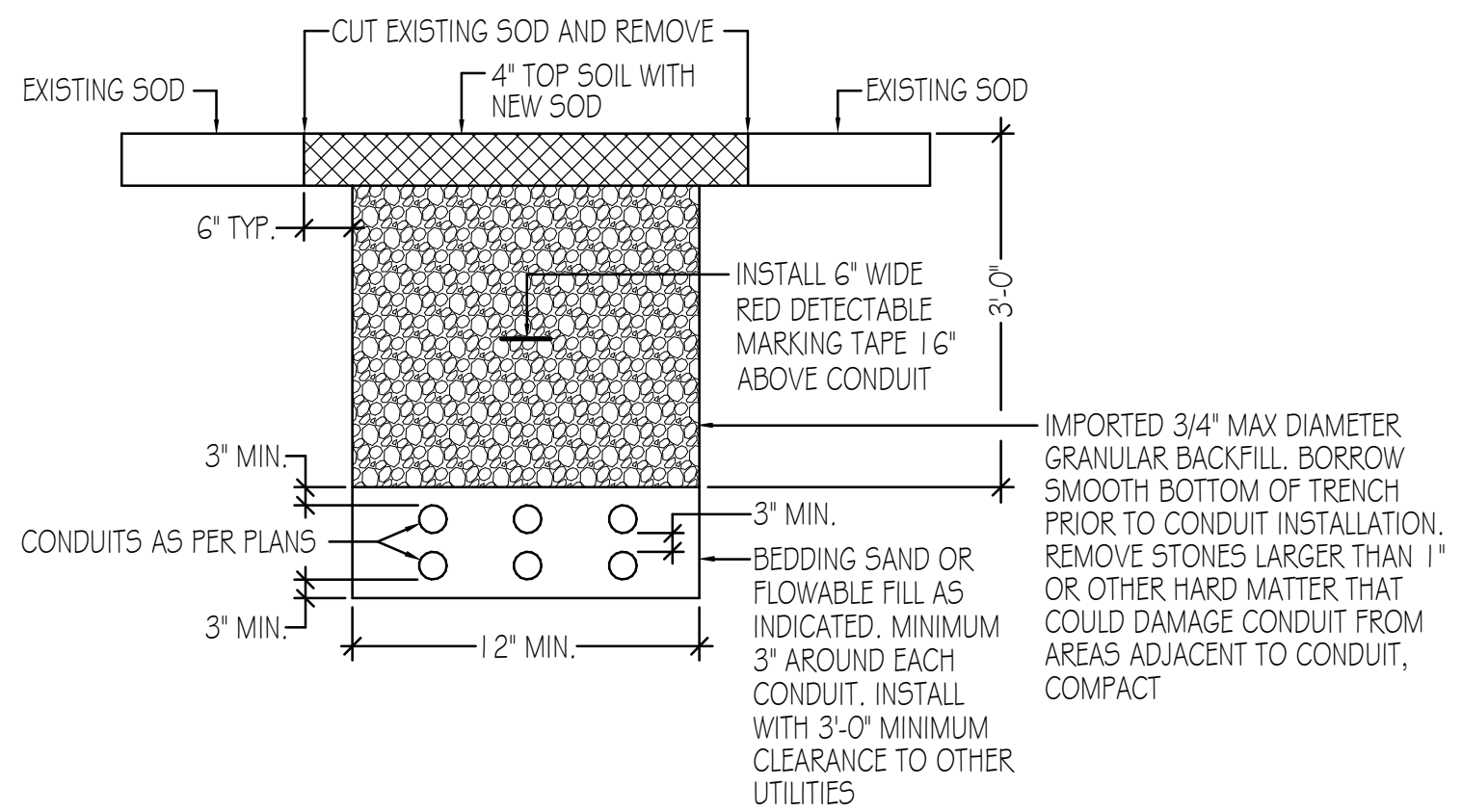
9/10/2024 4:12:54 PM



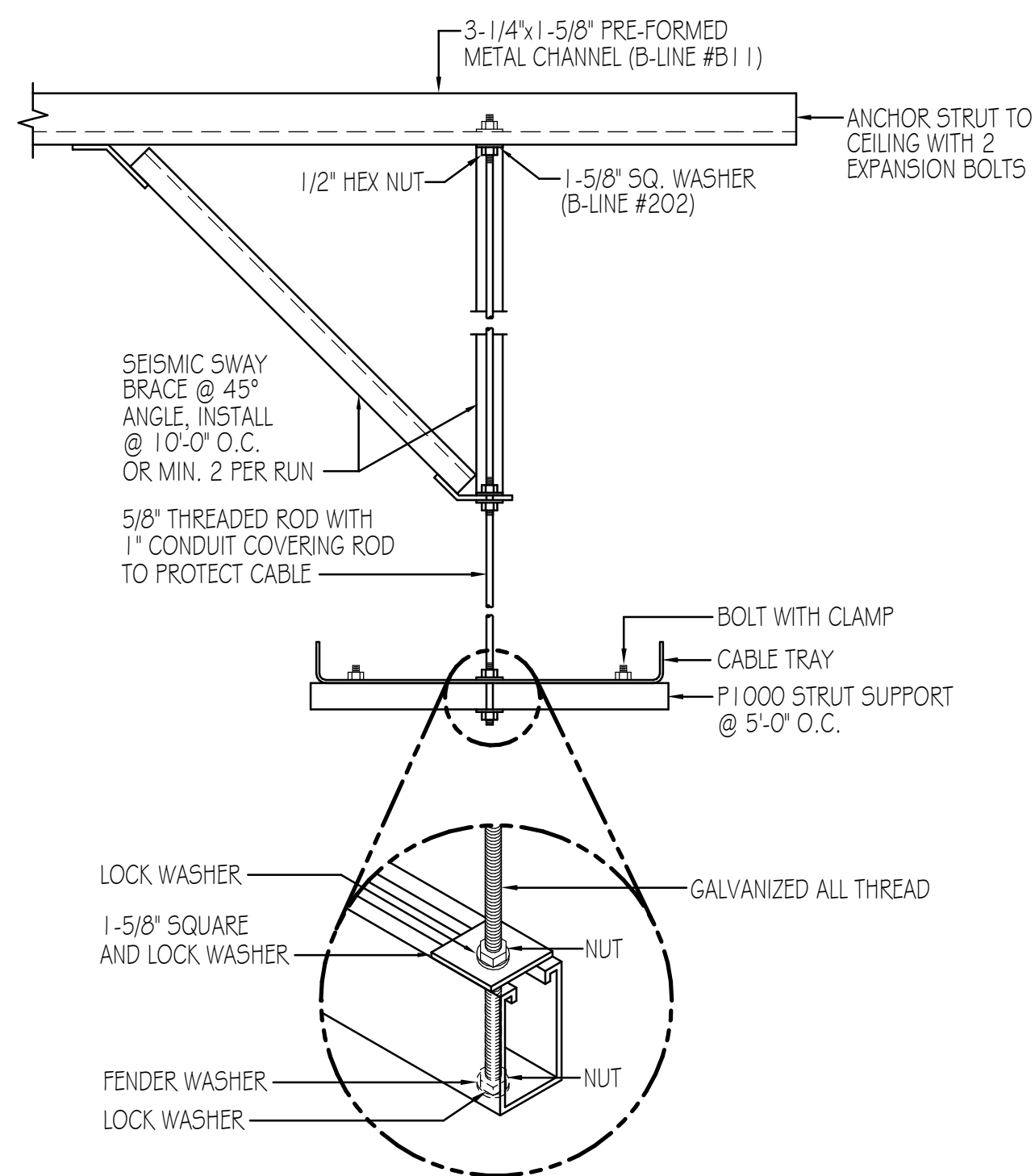
15 TRENCH DETAIL-ROADWAY RESTORATION
E-502 SCALE: NONE



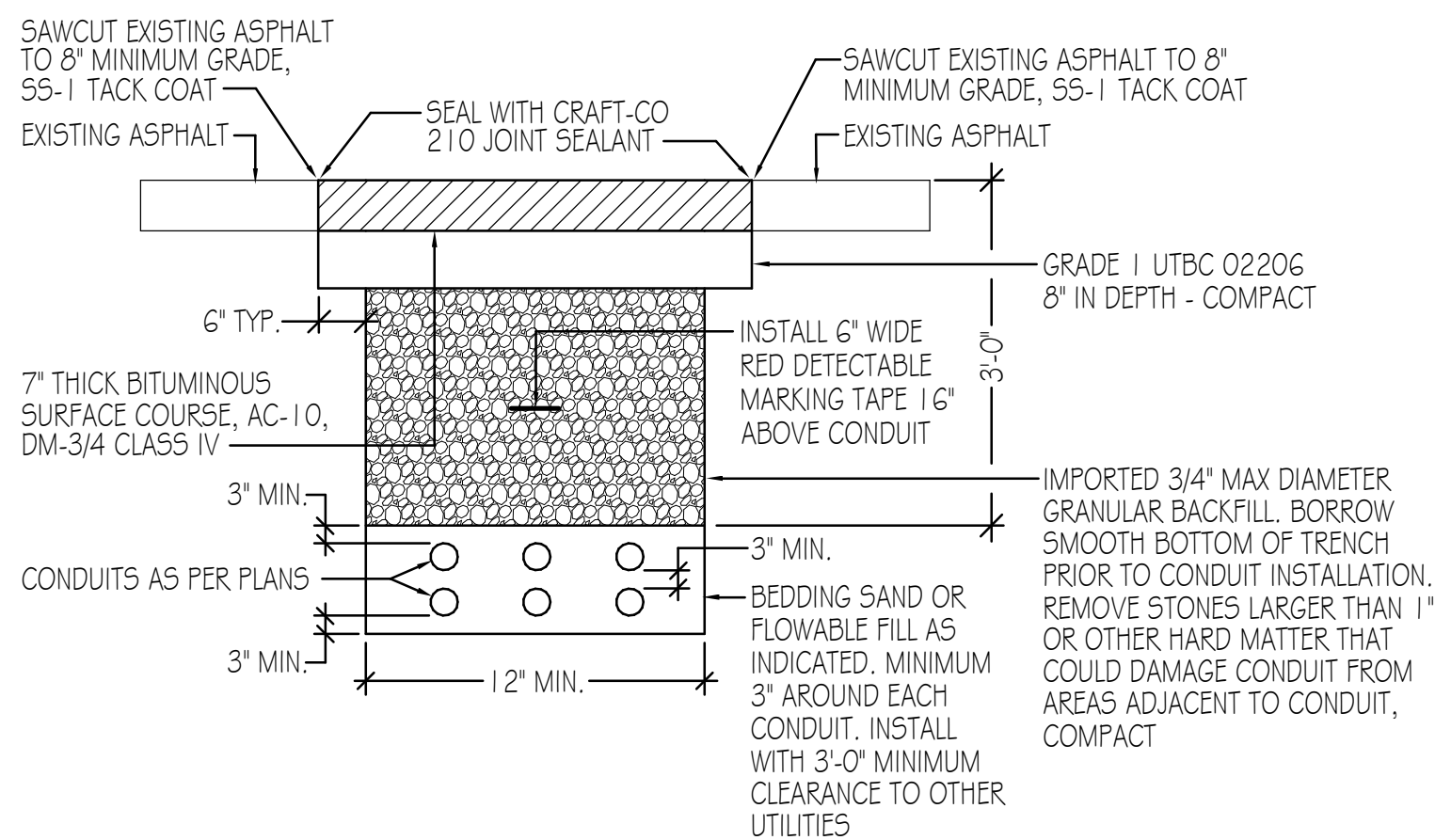
16 TRENCH DETAIL-SIDEWALK RESTORATION
E-502 SCALE: NONE



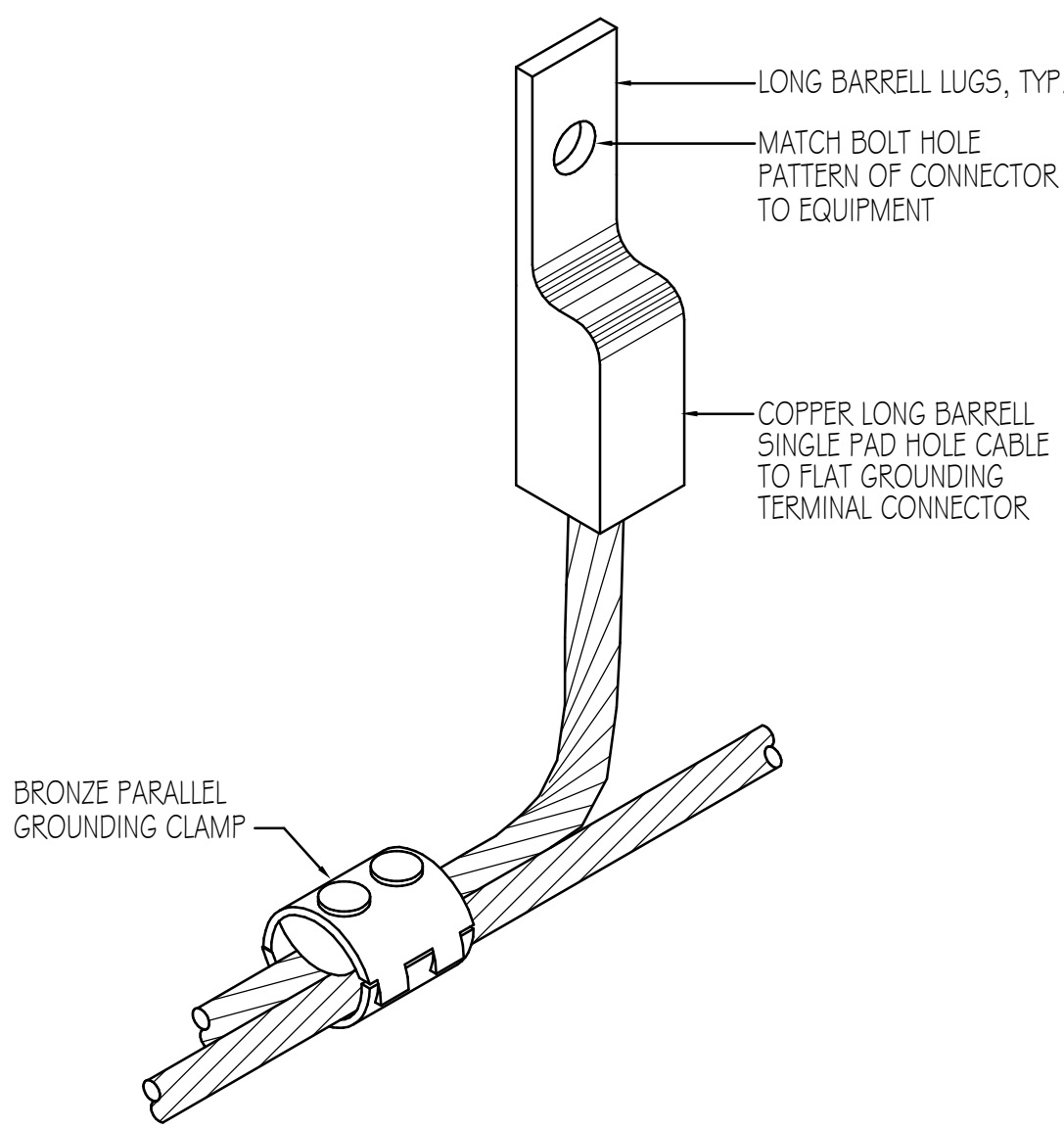
17 TRENCH DETAIL-SOD RESTORATION
E-502 SCALE: NONE



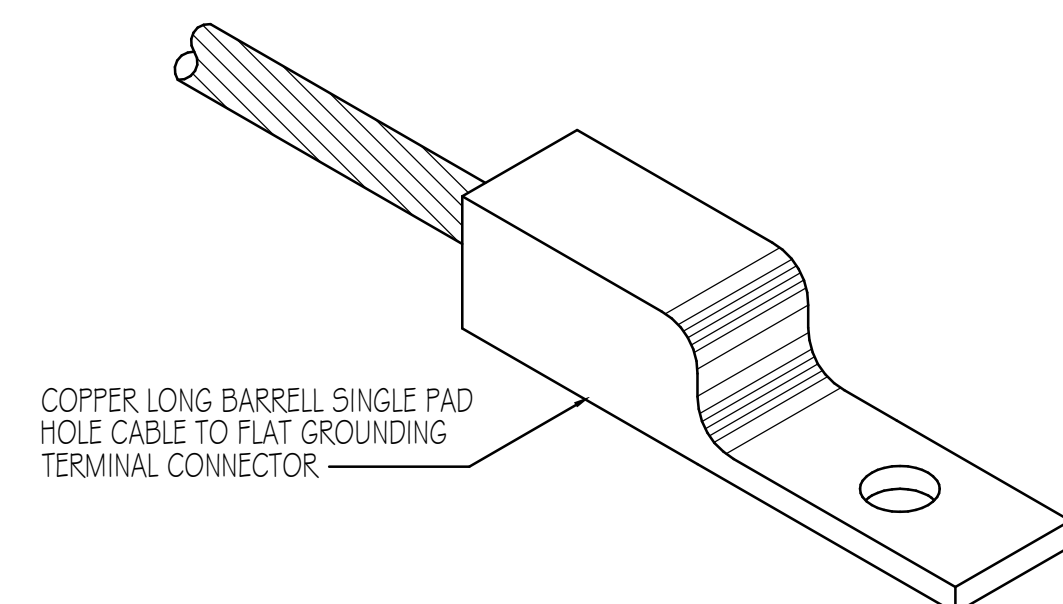
18 CABLE TRAY SUPPORT DETAIL
E-502 SCALE: NONE



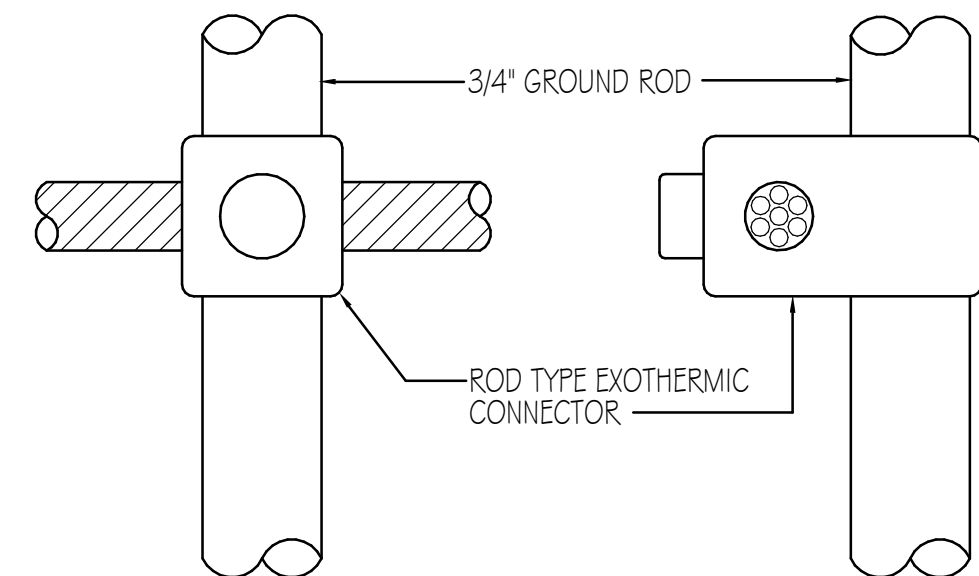
14 TRENCH DETAIL-ROADWAY RESTORATION
E-502 SCALE: NONE



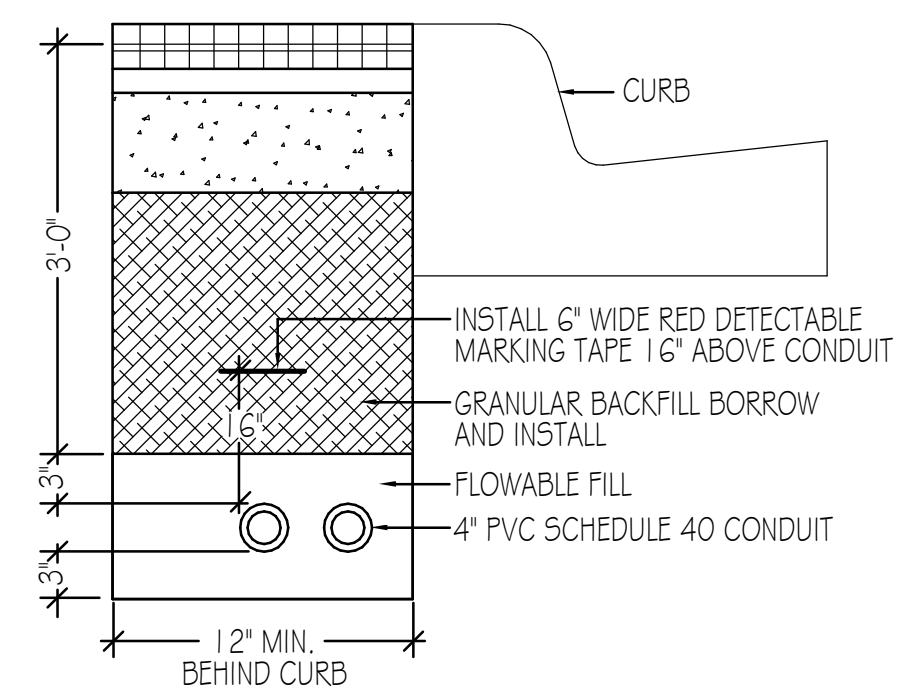
10 EQUIPMENT GROUNDING CONNECTION DETAIL
E-502 SCALE: NONE



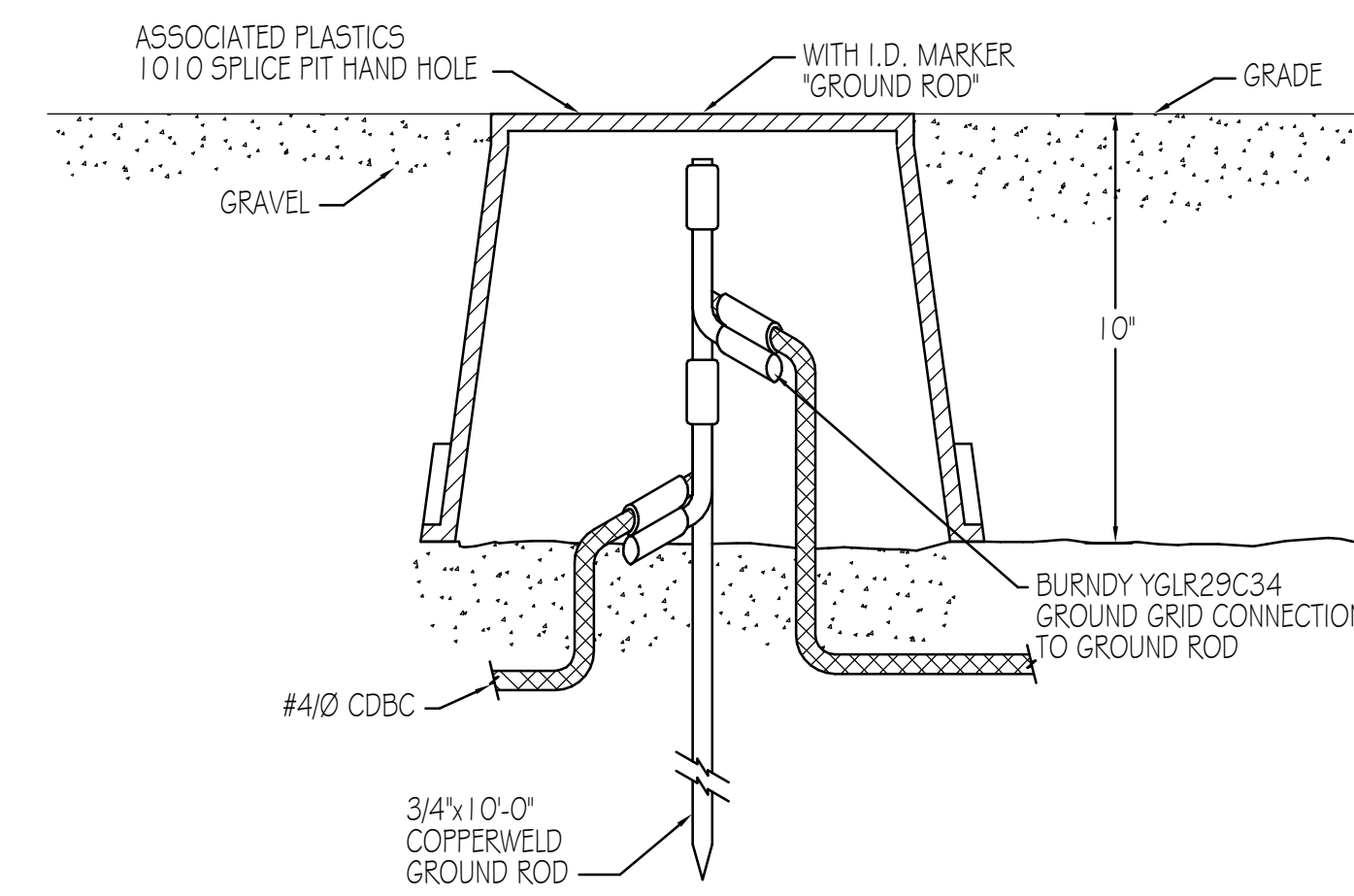
11 BONDING LUG DETAIL
E-502 SCALE: NONE



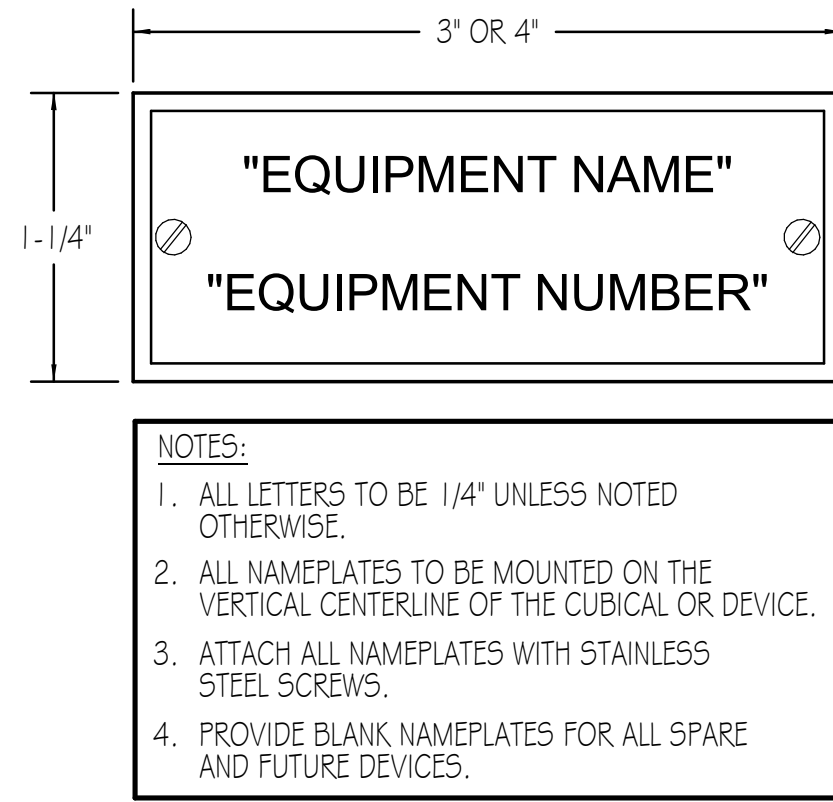
12 CABLE TO ROD CONNECTION DETAIL
E-502 SCALE: NONE



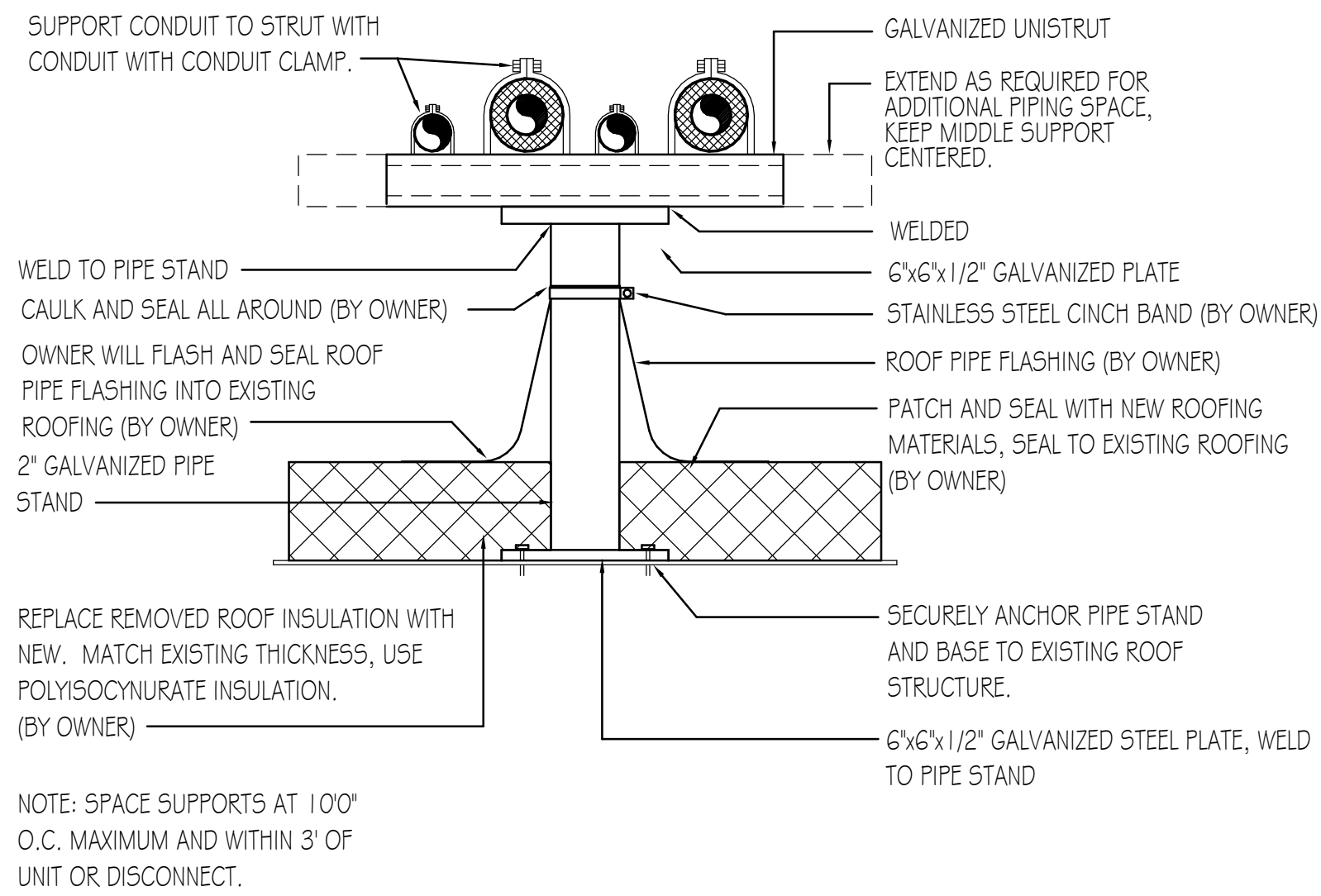
13 TRENCH DETAIL
E-502 SCALE: NONE



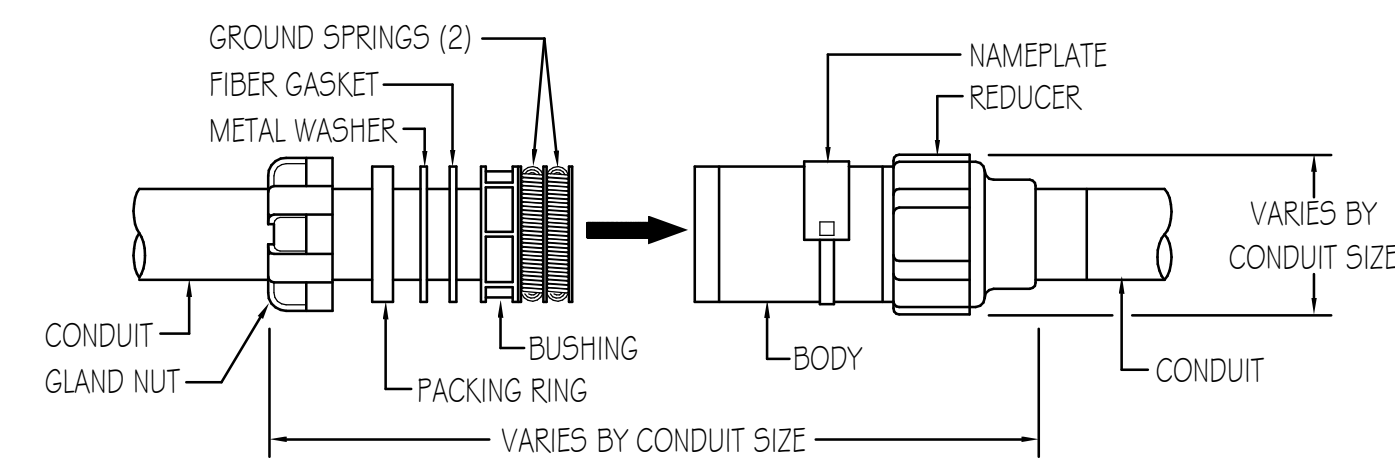
9 GROUND ROD DETAIL
E-502 SCALE: NONE



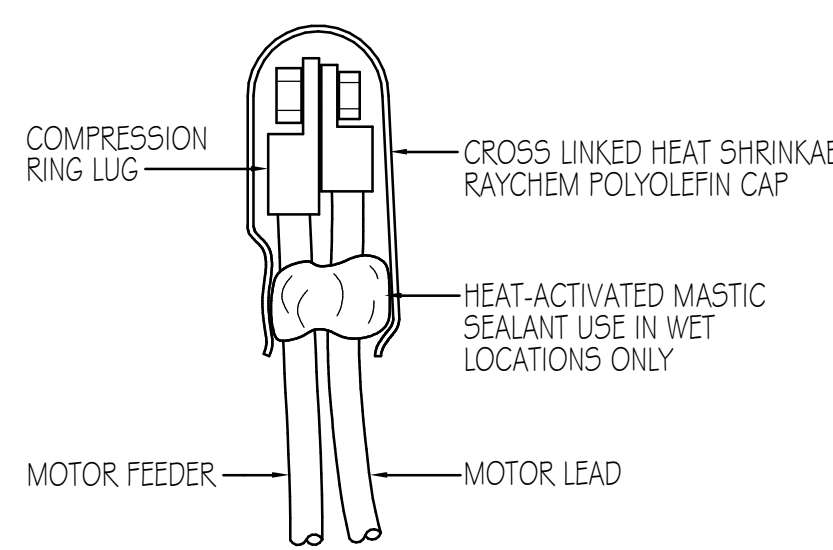
5 NAMEPLATE DETAIL
E-502 SCALE: NONE



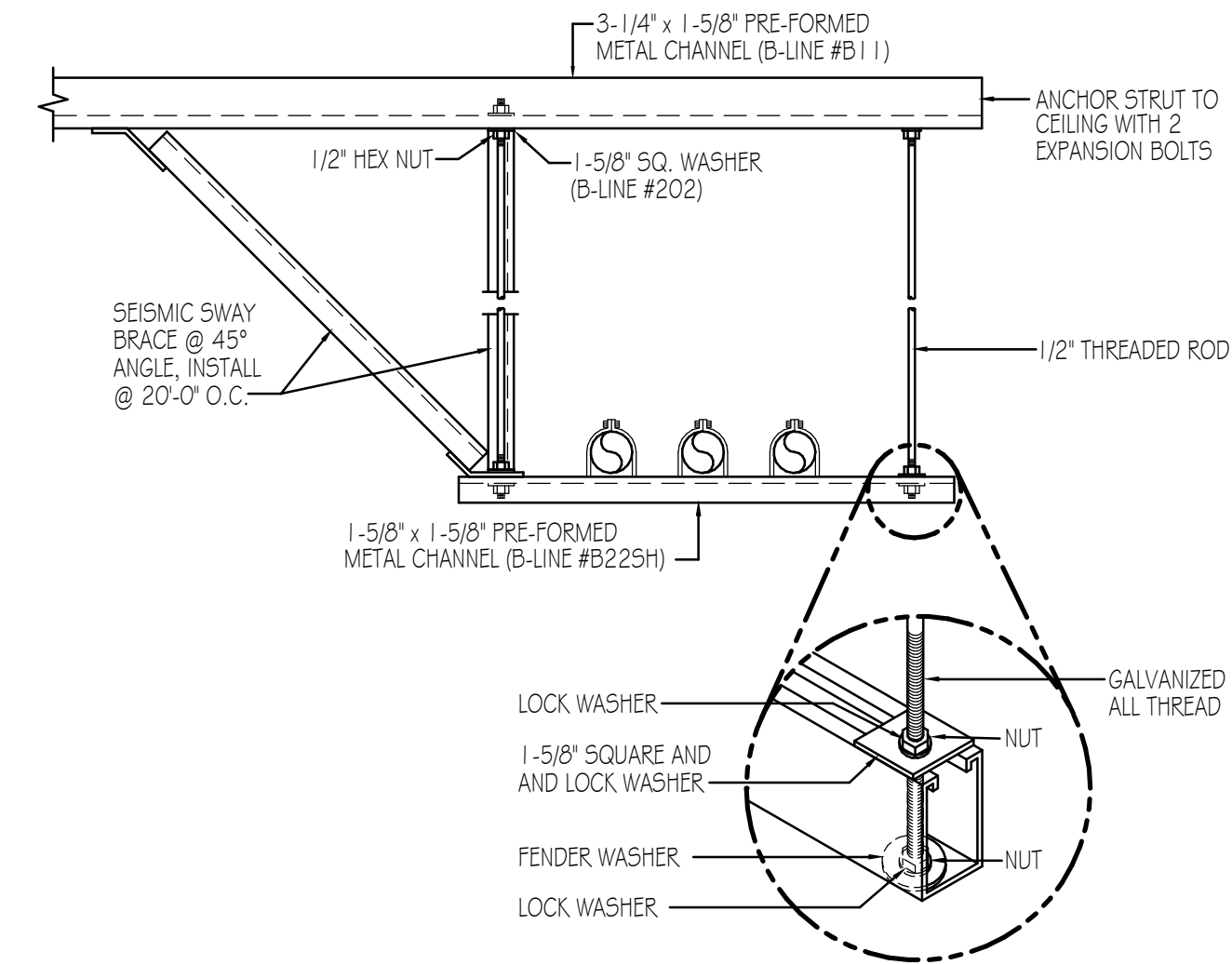
6 CONDUIT ROOF SUPPORT DETAIL
E-502 SCALE: NONE



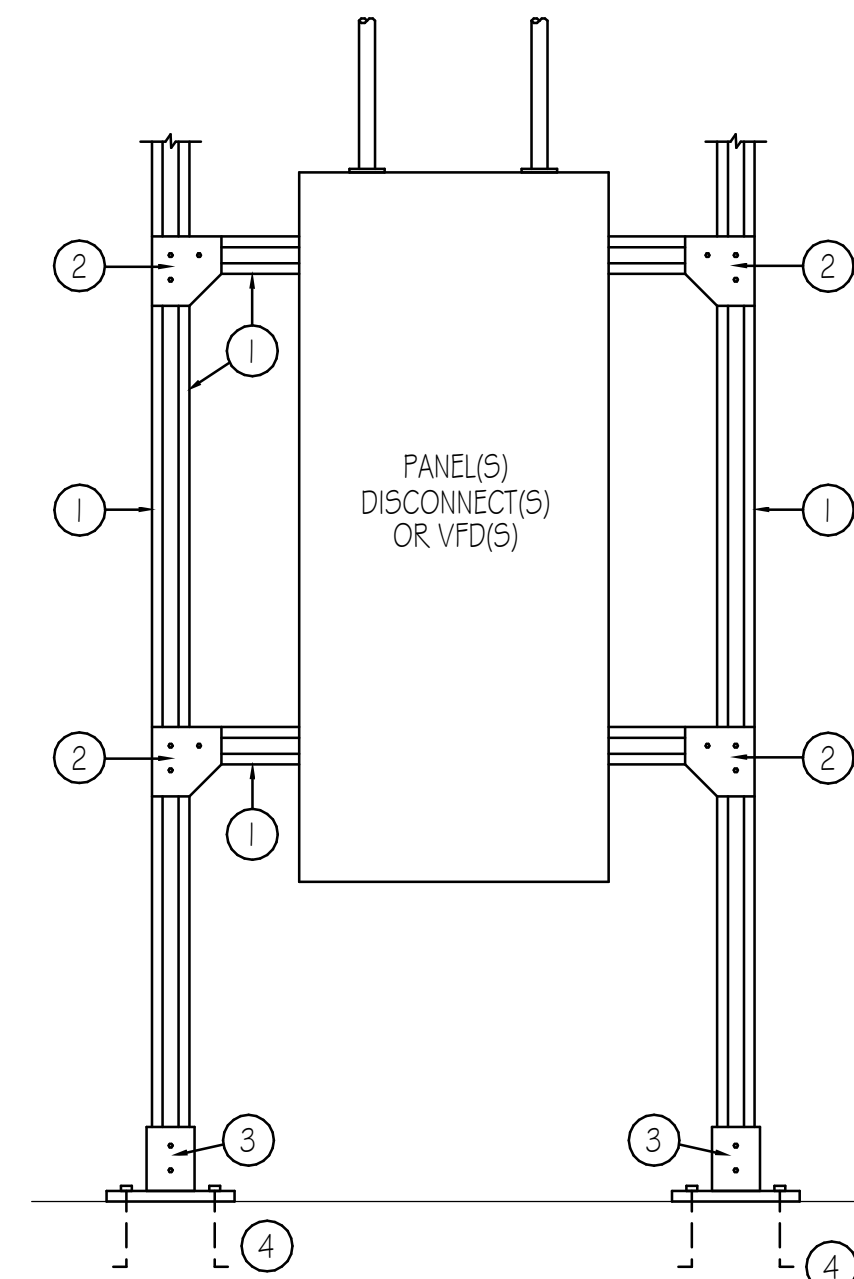
7 CONDUIT EXPANSION FITTING DETAIL
E-502 SCALE: NONE



8 TYPICAL MOTOR LEAD TERMINATION DETAIL
E-502 SCALE: NONE

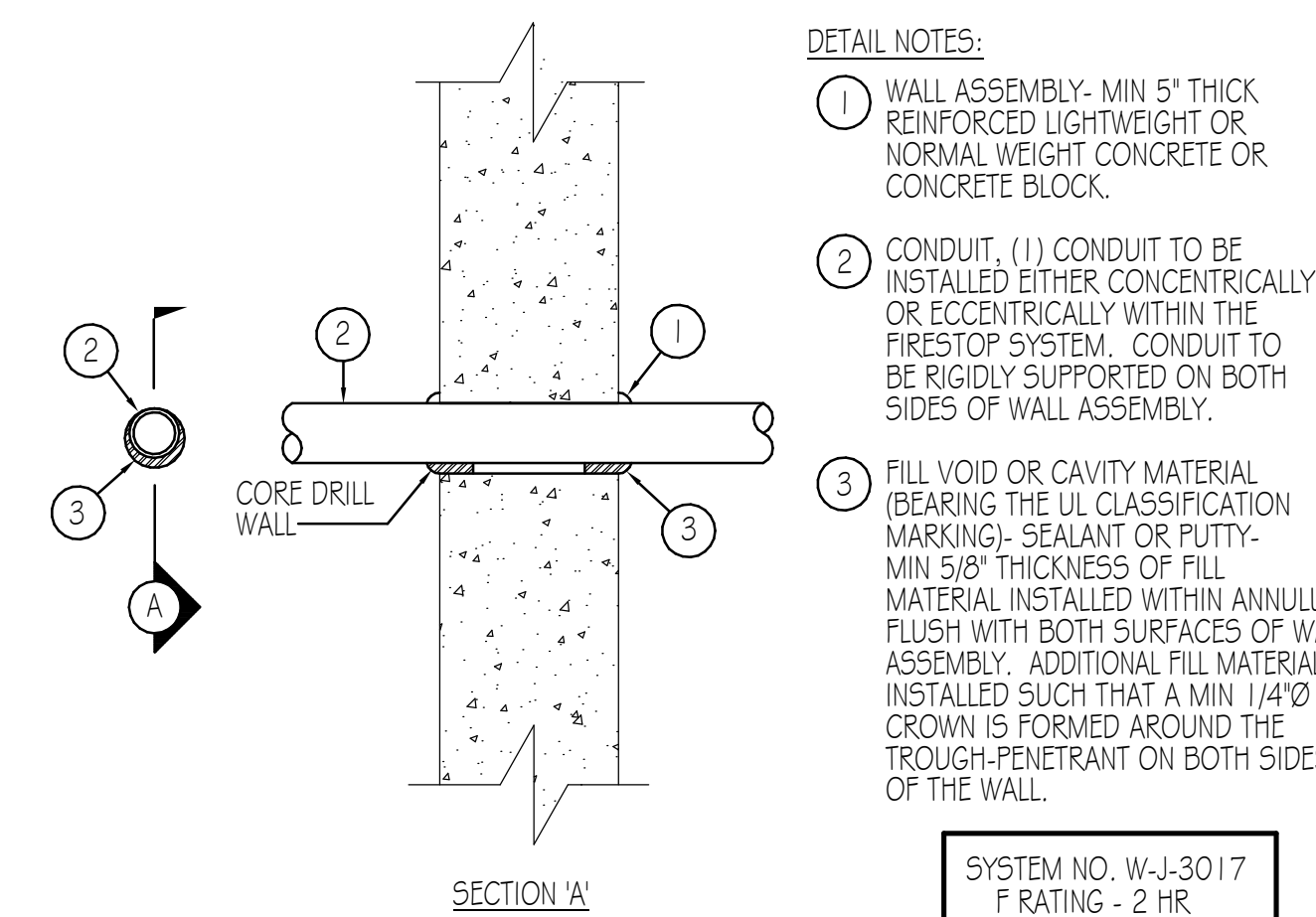


1 TYPICAL INDOOR CONDUIT SUPPORT DETAIL
E-502 SCALE: NONE



DETAIL NOTES:
1 UNISTRUT P1000 CHANNEL - STAINLESS OR FIBERGLASS
2 UNISTRUT P1334 FLAT PLATE - STAINLESS OR FIBERGLASS
3 UNISTRUT P2072A POST BASE - STAINLESS OR FIBERGLASS
4 3/8" S.S. ANCHOR BOLT GROUDED INTO EXISTING CONCRETE FLOOR (4 PER POST BASE)

2 PANEL SUPPORT RACK DETAIL
E-502 SCALE: NONE



3 2 HOUR FIRE WALL PENETRATION DETAIL
E-502 SCALE: NONE

9/10/2024 4:12:55 PM

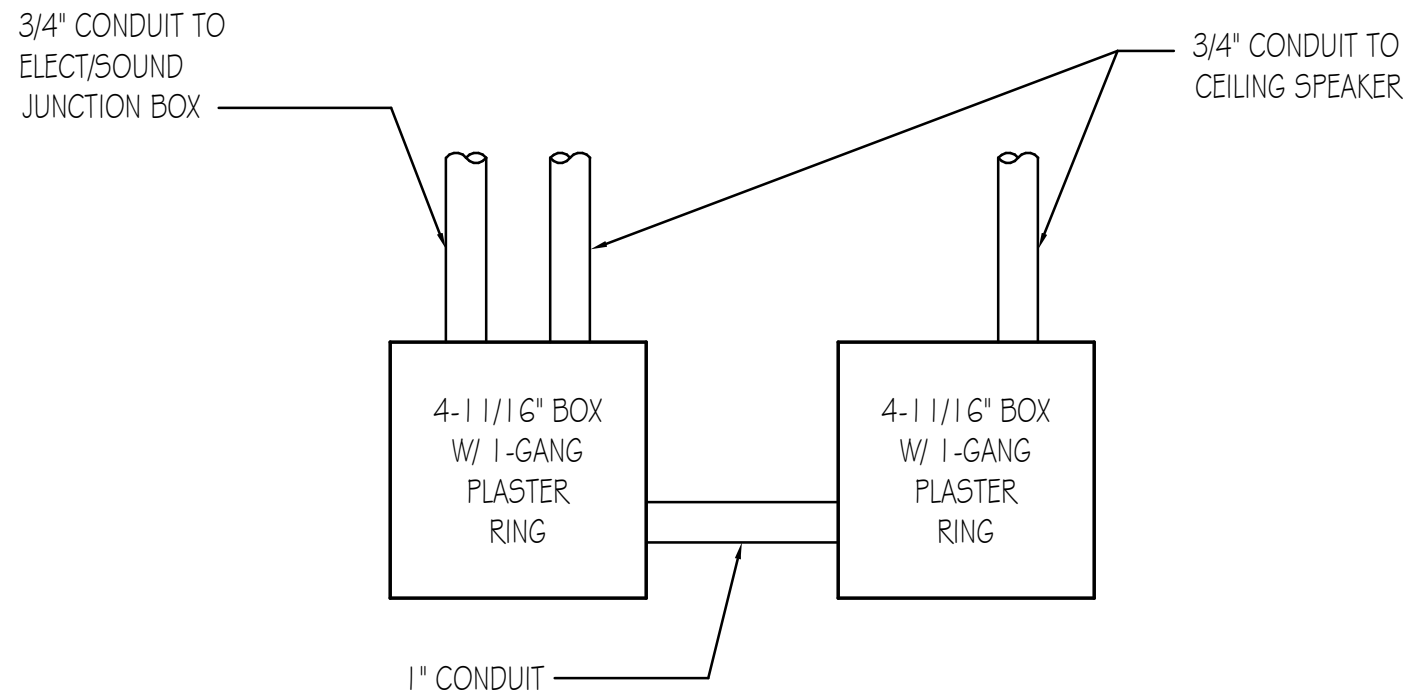
EXCEPTIONS AND EQUIVALENTS MUST BE EVALUATED BY OWNERS AUDIOVISUAL TEAM BEFORE PURCHASE.

SYMBOL-REF	DESCRIPTION	MODEL#	MANUFACTURER	SUPPLIED BY	INSTALLED BY	QUANTITY
ⓈⓅ E-503	70V CEILING SPEAKER, 8" 8W TAP (INSTRUCTION)	8124	JBL	CONTRACTOR	CONTRACTOR	OFF
E-504	MIXER AMPLIFIER, 120 WATT	A-712 AA120	TOA ATLAS SOUND	CONTRACTOR	CONTRACTOR	OFF
E-503	CABLE, USB-C, 20GB, TH3U5B4, 3M	MWP02AM/A	APPLE	CONTRACTOR	CONTRACTOR	1
E-503	CABLE, USB-C, 20GB, TH3U5B4, 1M	MQ4H2AM/A	APPLE	CONTRACTOR	CONTRACTOR	1
E-503	COUPLER, USB-C, F-F, INLINE, 40GB	BOB6X7R7PT	AUVIPAL	CONTRACTOR	CONTRACTOR	1
E-503	CLIP, CABLE, 1/8", WHITE	200-9G5WH	STEREN	CONTRACTOR	CONTRACTOR	1
E-503	CABLE, AUDIO, 3.5MM TO 3.5MM, M-M, 2M	ANY	ANY	CONTRACTOR	CONTRACTOR	1
E-503	CABLE, HDMI, M-M, >1.3 VER, 3M	15429	MONOPRICE (OR EQUIVALENT)	CONTRACTOR	CONTRACTOR	1
E-503	ADAPTER, USB-C TO HDMI AND CHARGING	A2119	APPLE	CONTRACTOR	CONTRACTOR	1
E-503	WALL PLATE, BRUSH, WHITE, CABLE PASS THROUGH	4330143522	VCE (OR EQUIVALENT)	CONTRACTOR	CONTRACTOR	1
E-503	POWER ADAPTER, 20W, USB-C, WITH CABLE	A2149	ANKER	CONTRACTOR	CONTRACTOR	1
E-503	CONVERTER, EDID MANAGER, AUDIO EXTRACTOR, HDMI	CON-H2-EDID HDTVDA0101AU1 KD-52x1x-2 HAE1004K+	WIRESTORM WOLFPACK KEY DIGITAL EXTRON	CONTRACTOR	CONTRACTOR	1
E-503	CABLE, 2 CONDUCTOR, 1G AWG, STRANDED (SPEAKER)	6471	BELDEN	CONTRACTOR	CONTRACTOR	AR
E-503	MEDIA WALL BOX, 9"x14"	ENP0905AV1 OnQ	LEGRAND	CONTRACTOR	CONTRACTOR	2
Ⓥ E-504	VOLUME CONTROL, LABEL AS PER DETAIL	MCS-V35 AT35D	EMTECH ATLAS SOUND	CONTRACTOR	CONTRACTOR	OFF
E-503	BELL SYSTEM CONTROLLER	8301 PAGING ADAPTER	ALGO	CONTRACTOR	CONTRACTOR	OFF

QUANTITY: OFF - OBTAIN FROM PRINT
QUANTITY: AR - AS REQUIRED FOR UNKNOWN QUANTITY

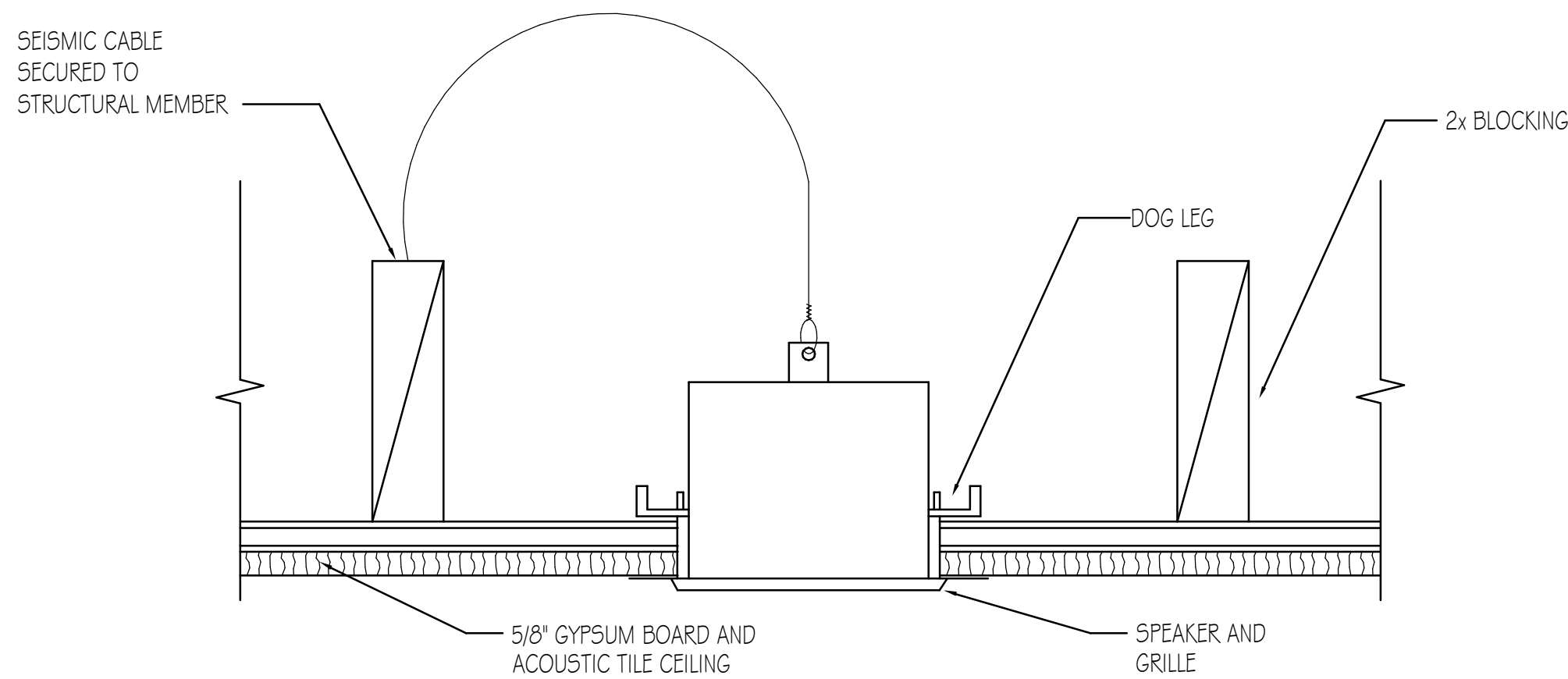
3 AUDIOVISUAL EQUIPMENT SCHEDULE

E-503 SCALE: NONE



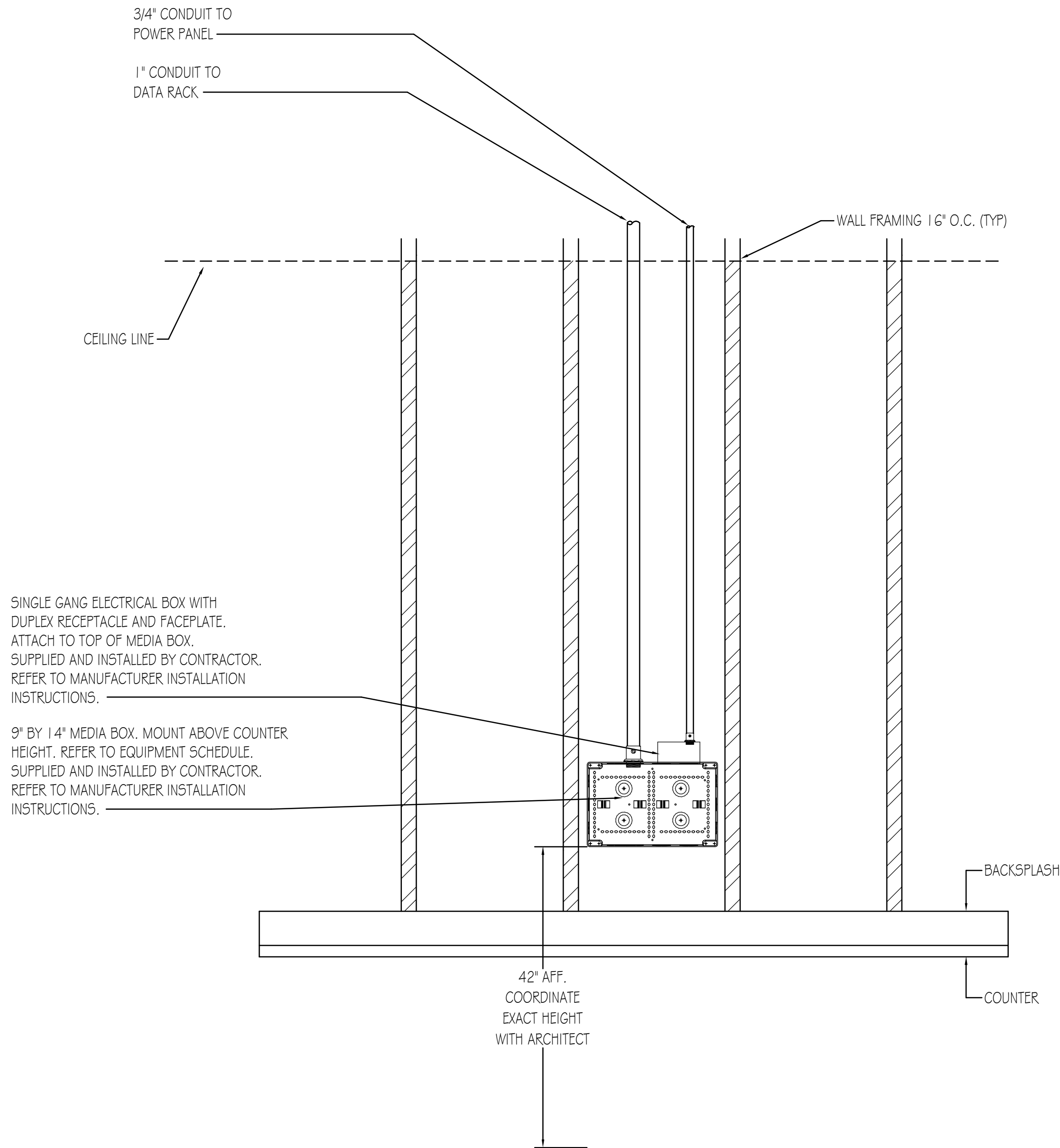
4 VOLUME CONTROL DETAIL

E-503 SCALE: NONE



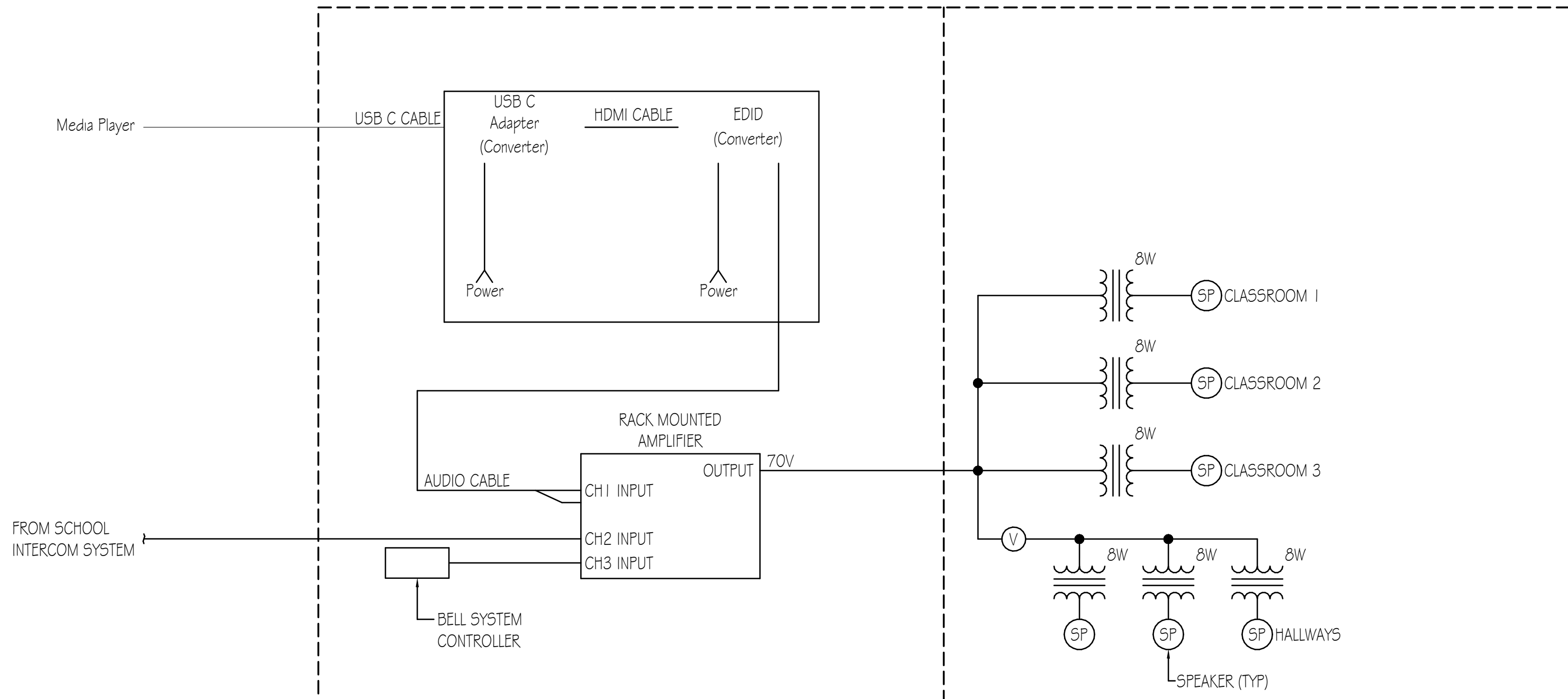
5 SPEAKER SEISMIC DETAIL

E-503 SCALE: NONE



1 SOUND SYSTEM USER INTERFACE DETAIL

E-503 SCALE: NONE

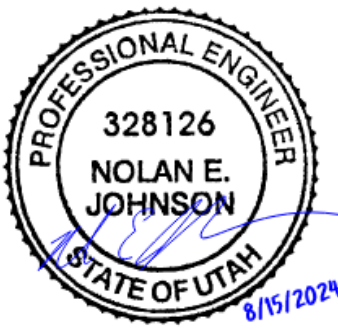


System Diagram

2 AUDIOVISUAL SYSTEM DIAGRAM

E-503 SCALE: NONE

Logan UT Seminary Building
110 W. 100 S. Logan, UT 84321
The Church of Jesus Christ of Latter-Day Saints
CONSTRUCTION DOCUMENTS - 08.15.2024



DATE REVISION

PROJECT NUMBER 24003

ELECTRICAL
DETAILS

E-503

FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 - FFKR.COM

HEATH
Engineering Company

9/10/2024 4:12:55 PM

A B C D E F

1 2 3 4 5 6

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

9/10/2024 4:12:55 PM

A B C D E

